











## Encyclopaedia Britannica;

OR, A

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### Encyclopædia Britannica.

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R H O

Rhizo-R HIZOPHORA, the MANGROVE, or Mangle, a genus of plants belonging to the dodecandria class; and in the natural method ranking under the 12th order, Holoracece. These plants are natives of the East and West Indies, and often grow 40 or 50 feet high. They grow only in water and on the banks of rivers, where the tide flows up twice a-day. They preserve the verdure of their leaves throughout the year. From the lowest branches issue long roots, which hang down to the water, and penetrate into the earth. In this position they refemble fo many arcades, from five to ten feet high, which ferve to support the body of the tree, and even to advance it daily into the bed of the water. These arcades are so closely intertwisted one with another, that they form a kind of natural and transparent terrace, raifed with fuch folidity over the water, that one might walk upon them, were it not that the branches are too much encumbered with leaves. The most

natural way of propagating these trees, is to suffer the

feveral flender small filaments which iffue from the main

branches to take root in the earth. The most common

method, however, is that of laying the fmall lower

branches in baskets of mould or earth till they have ta-

ken root.

The description just given pertains chiefly to a particular species of mangrove, termed by the West Indians black mangles, on account of the brown dufky colour of the wood. The bark is very brown, smooth, pliant when green, and generally used in the West India islands for tanning of leather. Below this bark lies a cuticle, or fkin, which is lighter, thinner, and more tender. The wood is nearly of the same colour with the bark; hard, pliant, and very heavy. It is frequently used for fuel, for which purpose it is said to be remarkably proper; the fires which are made of this wood being both clearer, more ardent and durable than those made of any other materials whatever .- The wood is compact; almost incorruptible; never splinters; is easily worked; and were it not for its enormous weight, would be commodiously employed in almost all kinds of work, as it possesses every property of good timber. To the roots and branches of mangroves that are immerfed in the water, oysters frequently attach themfelves; fo that wherever this curious plant is found growing on the fea-shore, oyster-fishing is very easy; and in fuch cases these shell-fish may be literally said to grow upon trees.

The red mangle or mangrove grows on the fea-Vol. XVIII Part I. shore, and at the mouth of large rivers; but does not advance, like the former, into the water. It generally rifes to the height of 20 or 30 feet, with crooked. knotty branches, which proceed from all parts of the trunk. The bark is flender, of a brown colour, and, when young, is fmooth, and adheres very closely to the wood; but when old, appears quite cracked, and is easily detached from it. Under this bark is a skin as thick as parchment, red, and adhering closely to the wood, from which it cannot be detached till the tree is felled and dry. The wood is hard, compact, heavy, of a deep red, with a very fine grain. The pith or heart of the wood being cut into fmall pieces, and boiled in water, imparts a very beautiful red to the liquid, which communicates the fame colour to wool and linen. The great weight and hardness of the wood prevent it from being generally used. From the fruit of this tree, which, when ripe, is of a violet colour, and refembles fome grapes in taste, is prepared an agreeable liquor, much esteemed by the inhabitants of the Caribbee iflands.

White mangle, fo termed from the colour of its wood, grows, like the two former, upon the banks of rivers, but is feldom found near the fea. The bark is gray; the wood, as we have faid, white, and when green fupple; but dries as foon as cut down, and becomes very light and brittle. This fpecies is generally called rope-mangrove, from the ufe to which the bark is applied by the inhabitants of the Wefl Indies. This bark, which, on account of the great abundance of fap, is eafily detached when green from the wood, is beaten or bruifed betwirt two flones, until the hard and woody part is totally feparated from that which is foft and tender. This laft, which is the true cortical fubliance, is twitted into ropes of all fizes, which are exceedingly flrong, and not apt to rot in the water.

RHODE ISLAND, one of the finallest of the United States of America, not exceeding 47 miles in length and 37 in breadth, is bounded on the N. and E. by the province of Maffachufetts; on the S. by the Atlantic, and on the W. by Connecticut. It is divided into five counties, viz. Newport, Providence, Washington, Brittol, and Kent, which are fubblivided into 30 townships, containing 68,825 inhabitants, and including 948 flaves. This state is interfected by rivers in all directions; and the winters in the martitine parts of it are milder than in the interior of the country. The fumerics are delightful, and the rivers and bays teem with

Rhode-

Rhode- fish of different kinds. It is generally allowed by tra-Island. vellers, that Newport is the best fish market in the world. This state also produces rye, barley, oats, and in some places wheat sufficient for home consumption. Cyder is made here for exportation; and it abounds with graffes, fruits, and culinary roots and plants, all of an excellent quality. The north-western parts are but thinly inhabited, and more rocky and barren than the rest of the state. There are extensive dairies in some parts of it, which produce butter and cheefe of the best quality, and in large quantities for exportation. Iron one is found in great abundance in many parts of the flate; and the iron-works on Patuxet river, 12 miles from Providence, are supplied with ore from a bed about four miles and a half diffant, where a variety of ores, curious Rones, and ochres, are also met with; and there is a copper mine mixed with iron in the township of Cumberland. This ore is strongly impregnated with loadstone, large pieces of which have been found in the vicinity; but no method has yet been discovered of working it to advantage. Here also lime stone abounds, of which large quantities of lime are made and exported. This stone is of various colours, and is the genuine marble of the white, plain, and variegated kinds, receiving as fine a polish as any stone in America. In this state there are also several mineral springs, to one of which, not far from Providence, numbers refort to bathe, and drink the waters. The chief towns of the state are Providence and Newport. The flave-trade, which was a fource of wealth to many, has been happily abolished. Bristol carries on a confiderable trade to Africa, the West Indies, and different parts of the United States: but the inhabitants of the prosperous town of Providence have in their hands the greatest part of the commerce; they had 129 veffels in the year 1791. The common exports are flax-feed, timber, horfes, cattle, beef, pork, fish, poultry, onions, butter, cheefe, barley, grain, spirits, cotton and linen goods. The imports confift of West India and European goods, and logwood is brought from the bay of Honduras. At the different ports of this state more than 600 vessels enter and clear out annually. The amount of exports in 1704, was valued at 954,573 dollars. At Providence there is a cotton manufactory, the produce of which is sent to the southern states; but the manufactures of bar and sheet iron, steel, nail-rods, and nails, implements of husbandry, stoves, pots, &c. are the most extensive. The constitution of the state is founded on the charter granted in 1663 by Charles II.; and the revolution made no effential change on the form of government. The legislature confilts of two branches; a senate composed of ten members, besides a governor and deputy-governor, and a house of representatives. The members of the legislature are chosen twice a year, and there are two fessions of this body annually. It was first settled from Maffachufetts. So little has the civil authority to do with religion here, that no contract between a minifter and a fociety is of any force, for which reason a great number of fects have always been found here; yet it is faid that the fabbath, and all religious inflitutions are more neglected in this, than in any other of the New England states.

> RHODE-ISLAND, an island of N. America, in a state of the same name, situated between 41° 28' and 41° 42' N. Lat. and between 71° 17' and 71° 27' W. long.

from Greenwich, or about 15 miles long, and its me- Rhodes. dium breadth about 3 and a half. It is a famous refort for invalids from the fouthern climates, as it is exceedingly pleafant and healthful, being at one period regarded as the Eden of America; but the change is great which has been effected by the ravages of war, and a decrease of business. Between 30,000 and 40,000 sheep are fed upon this island, befides cattle and horfes. The foil, climate, and fituation of this island, are perhaps not exceeded by any other in the world.

RHODES, a celebrated island in the Archipelago, Ancient the largest and most easterly of the Cyclades, was name and known in ancient times by the names of Afteria, O. et mology. phinfa, Æthraa, Trinacrio, Corymbia, Poeffa, Atalyrio. Marcia, Oloeffa, Stadia, Telchinis, Pelagia, and Rhodus, In later ages, the name of Rhodus, or Rhodes, prevailed, from the Greek word rhodon, as is commonly fuppoled, fignifying a "role;" the illand abounding very much with these slowers. Others, however, give different etymologies, among which it is difficult to find one preferable to another. It is about 20 miles distant from

the coasts of Lycia and Caria, and about 120 miles in compafs.

Several ancient authors affert, that Rhodes was for-Its originmerly covered by the fea, but gradually raifed its head above the waves, and became an ifland. Delos and Rhodes (fays Pliny), iflands which have long been \* Pliny, celebrated, fprung at first from the sea. The same sact 57. is supported by such a variety of other evidence as render it indubitable. Philo + ascribes the event to the + Philo de decrease of the waters of the ocean. It his conjecture hunder be not without foundation, most of the isles of the Archipelago, being lower than Rhodes, must have had a fimilar origin. But it is much more probable that the volcanic fires, which in the fourth year of the 135th Olympiad, raifed Therafia and Thera, known at prefent by the name of Santorin, from the depths of the lea, and have in our days thrown out feveral fmall iflands adja-

The first inhabitants of Rhodes, according to Diodorus Siculus, were called the Telchines, who came originally from the island of Crete. These, by their skill in aftrology, perceiving that the ifland was foon to be drowned with water, left their habitations, and made room for the Heliades, or grandfons of Phæbus, who took poffession of the island after that god had cleared it from the water and mud with which it was overwhelmed. These Heliades, it seems, excelled all other men in learning, and especially in astrology; invented navigation, &cc. In after ages, however, being infested with great ferpents which bred in the island, they had recourse to an oracle in Delos, which advised them to admit Phorbas, a Theffelian, with his followers, into Rhodes. This was accordingly done: and Phorhas having destroyed the serpents, was, after his death, honoured as a demigod. Afterwards a colony of Cretaus fettled in some part of the island, and a little before the Trojan war, Tlepolemus the fon of Hercules, who was made king of the whole island, and governed with great justice and moderation.

cent, also produced in some ancient era Rhodes and

After the Trojan war, all the ancient inhabitants First nilawere driven out by the Dorians, who continued to be buarts, mafters of the ifland for many ages. The government was at first monarchical; but a little before the expedi-

Rhodes, tion of Xerxes into Greece, a republican form of government was introduced; during which the Rhodians applied themselves to navigation, and became very powerful by fea, planting feveral colonies in diffant countries. In the time of the Peloponnesian war, the republic of Rhodes was rent into two factions, one of which favoured the Athenians, and another the Spartans; but at length the latter prevailing, democracy was aboli.hed, and an aritlocracy introduced. About 351 B. C. we find the Rhodians oppressed by Mausolus king of Caria, and at last reduced by Artemisia his widow. In this emergency, they applied to the Athenians, by whose affittance, probably, they regained their liberty.

From this time to that of Alexander the Great, the

Submit to but revolt giter his death.

Rhodes.

Rhodians enjoyed an uninterrupted tranquillity. To him they voluntarily submitted; and were on that account highly favoured by him : but no fooner did they hear of his death, than they drove out the Macedonian garrisons, and once more became a free people. About this time happened a dreadful inundation at Rhodes; which, being accompanied with violent storms of rain, and hailitones of an extraordinary bigness, beat down many houses, and killed great numbers of the inhabi-Violent in- tants. As the city was built in the form of an amphiundation at theatre, and no care bad been taken to clear the pipes and conduits which conveyed the water into the fea, the lower parts of the city were in an instant laid under water, feveral houses quite covered, and the inhabitants drowned before they could get to the higher places. As the deluge increased, and the violent showers continued, some of the inhabitants made to their thips, and abandoned the place, while others miferably perithed in the waters. But while the city was thus threatened with utter destruction, the wall on a sudden burst asunder, and the water discharging itself by a vio-

lent current into the fea, unexpectedly delivered the in-

habitants from all danger.

The Rhodians fuffered greatly by this unexpected accident, but foon retrieved their losses by a close application to trade. During the wars which took place among the fuccesfors of Alexander, the Rhodians obferved a strict neutrality; by which means they enriched themselves so much, that Rhodes became one of the most opulent states of that age; insomuch that, for the common good of Greece, they undertook the piratic war, and, at their own charge, cleared the feas of the pirates who had for many years infelted the coasts of Europe and Afia. However, notwithstanding the neutrality they professed, as the most advantageous branches of their commerce were derived from Egypt, they were more attached to Ptolemy, king of that country, than to any of the neighbouring princes. When therefore Antigonus, having engaged in a war with Ptolemy about the ifland of Cyprus, demanded fuccours of them, they earnestly intreated him not to compel them to declare war against their ancient friend and ally. But this answer, prudent as it was, drew upon them the displeasure of Antigonus, who immediately ordered one of his admirals to fail with his fleet to Rhodes, and Seize all the ships that came out of the harbour for Egypt. The Rhodians, finding their harbour blocked up by the fleet of Antigonus, equipped a good number of galleys, fell upon the enemy, and obliged him, with

the lofs of many thips, to quit his station. Hereupon

Antigonus, charging them as aggreffors, and beginners R' des. of an unjust war, threatened to beliege their city with the firength of his whole army. The Rhodians endeavoured by frequent embaffics to appeale his wrath; but all their remonstrances served rather to provoke than allay his refentment: and the only terms upon which he would hearken to any accommodation were, that the Rhodians should declare war against Ptolemy, that they should admit his fleet into their harbour, and that an hundred of the chief citizens should be delivered up to him as hostages for the performance of these articles. The Rhodians fent ambaffadors to all their allies, and to Ptolemy in particular, imploring their affiftance. and representing to the latter, that their attackment to his interest had drawn upon them the danger to which they were exposed. The preparations on both fides were immense. As Antigonus was near fouricore years of Rho is s age at that time, he committed the whole management he ed by of the war to his fon Demetrius, who appeared before Demetrius, the city of Rhodes with 200 ships of war, 170 transports having on board 40,000 men, and 1000 other veffels laden with provisions and all forts of warlike engines. As Rhodes had enjoyed for many years a profound tranquillity, and been free from all devastations, the expectation of booty, in the plunder of fo wealthy a city, allured multitudes of pirates and mercenaries to join Demetrius in this expedition; infomuch that the whole fea between the continent and the island was covered with thips: which struck the Rhodians, who had a profuect of this mighty armament from the walls, with great terror and confernation.

reach of the enemy's machines, detached feveral fmall bodies to lay waste the country round the city, and cut down the trees and groves, employing the timber, and materials of the houses without the walls, to fortify his camp with firong ramparts and a triple palifade; which work, as many hands were employed, was finished in a few days. The Rhodians, on their part, prepared for a vigorous defence. Many great commanders, who had the inhafignalized themselves on other occasions, threw them-bitants profelves into the city, being defirous to try their skill in vigorous military affairs against Demetrius, who was reputed one defence. of the most experienced captains in the conduct of sieges that antiquity had produced. The befieged began with difmiffing from the city all fuch perfons as were useless; and then taking an account of those who were capable of bearing arms, they found that the citizens amounted to 6000, and the forcigners to 1000. Liberty was promifed to all the flaves who should diffinguish themfelves by any glorious action, and the public engaged to pay the matters their full ranfom. A proclamation was likewise made, declaring, that whoever died in defence of their country should be buried at the expence of the public; that his parents and children should be maintained out of the treasury; that fortunes should be

given to his daughters; and his fons, when they were

grown up, thould be crowned and prefented with a com-

plete fuit of armour at the great folemnity of Bacchus;

which decree kindled an incredible ardour in all ranks

of men.

Demetrius, having landed his troops without the

Demetrius, having planted all his engines, began to Engines of batter with incredible fury the walls on the fide of the Demetrius harbour; but was for eight days successively repulfed burnt, by the belieged, who fet fire to most of his warlike, che

Rhodes, gines, and thereby obliged him to allow them fome of a new invention to be constructed, which was thrice Rhodes. respite, which they made good use of in repairing the the height and breadth of those he had lately lost.

breaches, and building new walls where the old ones were either weak or low. When Demetrius had repaired his engines, he ordered a general affault to be made, and caused his troops to advance with loud shouts. thinking by this means to strike terror into the enemy, But the believed were fo far from being intimidated. that they repulsed the aggressors with great flaughter, and performed the most astonishing feats of bravery. Denietrius returned to the affault next day; but was in the fame manner forced to retire, after having loft a great number of men, and fome officers of distinction. He had feized, at his first landing, an eminence at a small distance from the city; and, having fortified this advantageous post, he caused several batteries to be erected there, with engines, which incessantly discharged against the walls stones of 150 pounds weight. The towers, being thus furiously battered night and day, began to totter, and feveral breaches were opened in the walls: but the Rhodians, unexpectedly fallying out, drove the enemy from their post, overturned their machines, and made a most dreadful havock; infomuch that some of them retired on board their veffels, and were with difficulty prevailed upon to come ashore again.

Demetrius now ordered a scalade by sea and land at Several def-

perate af- the fame time; and fo employed the befieged, that faults with they were at a loss what place they should chiefly deout fucces, fend. The attack was carried on with the utmost fury on all fides, and the befieged defended themselves with the greatest intrepidity. Such of the enemy as advanced first were thrown down from the ladders, and miferably bruifed. Several of the chief officers, having mounted the walls to encourage the foldiers by their example, were there either killed or taken prisoners. After the combat had lasted many hours, with great flaughter on both fides, Demetrius, notwithstanding all his valour, thought it necessary to retire. in order to repair his engines, and give his men fome days reft.

> Demetrius being fensible that he could not reduce the city till he was mafter of the port, after having refreshed his men, he returned with new vigour against the fortifications which defended the entry into the harbour. When he came within the cast of a dart, he caused a vast quantity of burning torches and firebrands to be thrown into the Rhodian ships, which were riding there; and at the fame time galled, with dreadful showers of darts, arrows, and stones, such as offered to extinguish the flames. However, in spite of their utmost efforts, the Rhodians put a stop to the fire; and, having with great expedition manned three of their strongest ships, drove with such violence against the veffels on which the enemy's machines were planted, that they were fluttered in pieces, and the engines dismounted and thrown into the sea. Excessus the Rhodian admiral, being encouraged by this fuecess, attacked the enemy's fleet with his three ships, and funk a great many veffels; but was himfelf at lait taken prisoner: the other two vessels made their escape, and regained the port.

As unfortunate as this last attack had proved to De. metrius, he determined to undertake another; and, in order to fucceed in his attempt, he ordered a machine

When the work was finished, he caused the engine to be placed near the port, which he was refolved, at all adventures, to force. But as it was upon the point of entering the harbour, a dreadful from arising, drove it against the shore, with the vessels on which it had been reared. The befieged, who were attentive to improve all favourable conjunctures, while the tempest was still raging, made a fally against those who defended the eminence mentioned above; and, though repulsed several times, carried it at last, obliging the Demetrians, to the number of 400, to throw down their arms and fubmit. After this victory gained by the Rhodians, there arrived to their aid 150 Gnoffians, and 500 men fent by Ptolemy from Egypt, most of them being natives of Rhodes, who had ferved among the king's troops.

Demetrius being extremely mortified to fee all his Demetrius batteries against the harbour rendered ineffectual, resol-frames a ved to employ them by land, in hopes of carrying the new macity by affault, or at least reducing it to the necessity of helepolis. capitulating. With this view, having got together a vaft quantity of timber and other materials, he framed

the famous engine called helepolis, which was by many degrees larger than any that had ever been invented before. Its basis was square, each side being in length near 50 cubits, and made up of fquare pieces of timber, bound together with plates of iron. In the middle part he placed thick planks, about a cubit distance from each other; and on these the men were to stand who forced the engine forward. The whole was moved upon eight ftrong and large wheels, whose felloes were strengthened with strong iron plates. In order to facilitate and vary the movements of the helepolis, casters were placed under it, whereby it was turned in an inflant to what fide the workmen and engineers pleafed. From each of the four angles a large pillar of wood was carried to about the height of 100 cubits, and inclining to each other; the whole machine confifting of nine stories, whose dimensions gradually lessened in the af-The first story was supported by 43 beams, and the last by no more than nine. Three fides of the machine were plated over with iron, to prevent its being damaged by the fire that might be thrown from the city. In the front of each flory were windows of the fame fize and shape as the engines that were to be discharged from thence. To each window were shutters, to draw up for the defence of those who managed the machines, and to deaden the force of the stones thrown by the enemy, the shutters being covered with skins stuffed with wool. Every flory was furnished with two large staircases, that whatever was necessary might be brought up by one, while others were going down by the other, and fo every thing may be dispatched without tumult or confusion. This huge machine was moved forwards by 3000 of the strongest men of the whole army; but the art with which it was built greatly facilitated the motion. Demetrius caufed likewise to be made several testudoes or pent-houses, to cover his men while they advanced to fill up the trenches and ditches; and invented a new fort of galleries, through which those who were employed at the fiege might pass and repass at their pleasure, without the least danger. He employed all his feamen in levelling the ground over which the machines Rhodes. machines were to be brought up, to the space of four furlongs. The number of workmen who were employed

The Rho-

on this occasion amounted to 30,000. In the mean time, the Rhodians, observing these fordians raife midable preparations, were bufy in raifing a new wall a new wall within that which the enemy intended to batter with the helepolis. In order to accomplish this work, they pulled down the wall which furrounded the theatre, some neighbouring houses, and even some temples, after having folemnly promifed to build more magnificent ftructures in honour of the gods, if the city were preferved. At the same time, they sent out nine of their best ships to feize fuch of the enemy's veffels as they could meet with, and thereby diffress them for want of provisions. As these ships were commanded by their bravest sea-officers, they foon returned with an immense booty, and a great many prisoners. Among other vessels, they took a galley richly laden, on board of which they found a great variety of valuable furniture, and a royal robe, which Phila herself had wrought and fent as a present to her hufband Demetrius, accompanied with a letter written with her own hand. The Rhodians fent the furniture, the royal robe, and even the letter, to Ptolemy; which exasperated Demetrius to a great de-

While Demetrius was preparing to attack the city, the Rhodians having affembled the people and magistrates to confult about the measures they should take, fome proposed in the assembly the pulling down of the statues of Antigonus and his fon Demetrius, which till then had been held in the utmost veneration. But this propofal was generally rejected with indignation, and their prudent conduct greatly allayed the wrath both of Antigonus and Demetrius. However, the latter continued to carry on the fiege with the utmost vigour, thinking it would reflect no small dishonour on him were he obliged to quit the place without making himself master of it. He caused the walls to undermined be fecretly undermined : but, when they were ready

to fall, a deferter very opportunely gave notice of the whole to the townsmen; who having, with all expedition, drawn a deep trench all along the wall, began to countermine, and, meeting the enemy under ground, obliged them to abandon the work. While both parties guarded the mines, one Athenagoras a Milefian, who had been fent to the affiftance of the Rhodians by Ptolemy with a body of mercenaries, promifed to betray the city to the Demetrians, and let them in through the mines in the night-time. But this was only in order to enfare them; for Alexander, a noble Macedonian, whom Demetrius, had fent with a choice body of troops to take possession of a post agreed on, no fooner appeared, but he was taken prifoner by the Rhodians, who were waiting for him under arms.-Athenagoras was crowned by the fenate with a crown of gold, and presented with five talents of filver.

Demetrius now gave over all thoughts of undermining the walls, and placed all his hopes of reducing no purpose the city in the battering engines which he had contrived. Having therefore levelled the ground under the walls he brought up his helepolis, with four testudoes on each side of it. Two other testudoes of an extraordinary fize, bearing battering-rams, were likewife moved forwards by 1000 men. Each story of the helepolis was filled with all forts of engines for

discharging of stones, arrows, and darts. When all Rhodes, things were ready, Demetrius ordered the fignal to be given; when his men, fetting up a fhout, affaulted the city on all fides both by fea and land. But, in the heat of the attack, when the walls were ready to fall by the repeated strokes of the battering-rams, ambaffadors arrived from Cnidus, earneftly foliciting Demetrius to suspend all further hostilities, and at the fame time giving him hopes that they should prevail upon the Rhodians to submit to an honourable capitulation. A fulpenfion of arms was accordingly agreed on, and ambaffadors fent from both fides. But the Rhodians refusing to capitulate on the conditions offered them, the attack was renewed with fo much fury, and the machines played off in fo brifk a manner, that a large tower built with fquare stones, and the wall that flanked it, were battered down. The befieged, nevertheless, fought in the breach with so much courage and resolution, that the enemy, after various unfuccessful attempts, were forced to abaudon the enterprife, and retire.

In this conjuncture, a fleet which Ptolemy had The befreighted with 300,000 measures of corn, and diffe-fleged rerent kinds of pulse for the use of the Rhodians, ar-ceivealarge rived very seasonably in the port, notwithstanding the furply of provisions, vigilance of the enemy's thips, which cruized on the and fet the coasts of the island to surprise them. A few days enemy's after came in fafe two other fleets, one fent by Caf-engines on fander, with 100,000 bushels of barley; the other fire.

by Lysimachus, with 400,000 bushels of corn and as many of barley. This seasonable and plentiful supply arriving when the city began to suffer for want of provisions, inspired the besieged with new courage, and raifed their drooping spirits. Being thus animated, they formed a defign of setting the enemy's engines on fire; and with this view ordered a body of men to fally out the night enfuing, about the fecond watch, with torches and firebrands, having first placed on the walls an incredible number of engines, to discharge stones, arrows, darts, and fire-balls, against those who should attempt to oppose their detachment. The Rhodian troops, purfuant to their orders, all on a fudden fallied out, and advancing, in spite of all opposition, to the batteries, fet them on fire, while the engines from the walls ployed inceffantly on those who endeavoured to extin-guish the flames. The Demetrians on this occasion fell in great numbers, being incapable, in the darkness of the night, either to fee the engines that continually difcharged showers of stones and arrows upon them, or to join in one body and repulse the enemy. The conflagration was fo great, that feveral plates of iron falling from the helepolis, that vast engine would have been entirely confumed, had not the troops that were stationed in it with all possible speed quenched the fire with water, before prepared, and ready in the apartments of the engine against such accidents. Demetrius, fearing left all his machines should be consumed. called together, by found of trumpet, those whose province it was to move them; and, by their help, brought them off before they were entirely destroyed. When it was day, he commanded all the darts and arrows that had been that by the Rhadians to be carefully gathered, that he might from their number form some judgement of the number of machines in the city. Above 800 firebrands were found on the fpot, and no fewer

without Success.

A general affault to

Rhodes, than 1 500 darts, all discharged in a very small portion of the night. This struck the prince himself with no fmall terror; for he never imagined that they would have been able to bear the charges of fuch formidable preparations. However, after having caused the flain to be buried, and given directions for the curing of the wounded, he applied himfelf to the repairing of his machines, which had been difmounted and rendered quite unserviceable.

They build a third wall.

In the mean time, the belieged, improving the respite allowed them by the removal of the machines, built a third wall in the form of a crescent, which took in all that part that was most exposed to the enemy's batteries; and, befides, drew a deep trench behind the breach, to prevent the enemy from entering the city that way. At the same time, they detached a squadron of their best ships, under the command of Amyntas, who made over to the continent of Afia; and there meeting with fome privateers who were commissioned by Demetrins, took both the ships and the men, among whom were Timocles the chief of the pirates, and feveral other officers of diffinction belonging to the fleet of Demetrius. On their return, they fell in with feveral veffels laden with corn for the enemy's camp, which they likewife took, and brought into the port. Thefe were foon followed by a numerous fleet of fmall vessels loaded with corn and provisions fent them by Ptolemy, together with 1500 men, commanded by Antigonus a Macedonian of great experience in military affairs .--Demetrius, in the mean time, having repaired his machines, brought them up anew to the walls: which he inceffantly battered till he opened a great breach and threw down feveral towers. But when he came to the affault, the Rhodians, under the command of Aminias, defended themselves with such resolution and intrepidity, that he was in three fuccessive attacks repulsed with great flaughter, and at last forced to retire. Rhodians likewife, on this occasion, lost several officers; and amongst others, the brave Aminias their com-

- 78 Demetrius makes a breach in but is ftill repulsed.

> While the Rhodians were thus fignalizing themfelves in the defence of their country, a fecond embaffy arrived at the camp of Demetrius from Athens and the other cities of Greece, foliciting Demetrius to compose matters, and strike up a peace with the Rhedians. At the request of the ambassadors, who were in all above 50, a cellation of arms was agreed upon; but the terms offered by Demetrius being again rejected by the Rhodians, the ambaffadors returned home without being able to bring the contending parties to an agreement. Hostilities were therefore renewed; and Demetrius, whose imagination was fertile in expedients for fucceeding in his projects, formed a detachment of 1500 of his best troops, under the conduct of Alcimus and Mancius, two officers of great refolution and experience, ordering them to enter the breach at midnight, and, forcing the entrenchment behind it, to poffels themselves of the posts about the theatre, where it would be no difficult matter to maintain themselves against any efforts of the townsmen. In order to facilitate the execution of fo important and dangerous an undertaking, and amuse the enemy with salse attacks, he at the fame time, upon a fignal given, ordered the rest of the army to set up a shout, and attack the city on all fides both by fea and land. By this means

he hoped that, the belieged being alarmed in all parts, Rhodes. his detachment might find an opportunity of forcing the entrenchments which covered the breach, and afterwards of feizing the advantageous post about the theatre. This feint had all the success the prince could expect; for the troops having let up a thout from all quarters, as if they were advancing to a general affault, the detachment commanded by Alcimus and Mancius entered the breach, and fell upon those who defended the ditch, and the wall that covered it, with fuch vigour, that, having flain the most part of them and put the rest in confusion, they advanced to the theatre, and feized on the post adjoining to it. This occasioned a general uproar in the city, as if it had been already taken: but the commanding officers dispatched orders to the foldiers on the ramparts not to quit their posts, nor stir from their respective stations. Having thus fecured the walls, they put themselves at the head of a chosen body of their own troops, and of those who were lately come from Egypt, and with these charged the enemy's detachment. But the darkness of the night prevented them from diflodging the enemy and regaining the advantageous posts they had feized. Day, however, no fooner appeared, than they renewed their attack with wonderful bravery. The Demetrians without the walls, with loud shouts endeavoured to animate those who had entered the place, and inspire them with refolution to maintain their ground till they were re-lieved with fresh troops. The Rhodians being fenfible that their fortunes, liberties, and all that was dear to them in the world, lay at flake, fought like men in the utmost despair, the enemy defending their posts for feveral hours without giving ground in the leaft. At length the Rhodians, encouraging each other to exert themselves in defence of their country, and animated by the example of their leaders, made a lait effort, and, breaking into the very heart of the enemy's battalion,

there killed both their commanders. After their death but are all the reft were eafily put in diforder, and all to a man taken. either killed or taken prisoners. The Rhodians likewise on this occasion lost many of their best commanders; and among the rest Damotetis, their chief magistrate, a man of extraordinary valour, who had fignalized himfelf during the whole time of the fiege.

Demetrius, not at all discouraged by this check, was making the necessary preparations for a new assault, when he received letters from his father Antigonus, enjoining him to conclude a peace with the Rhodizns upon the best terms he could get, lest he should lose his whole army in the fiege of a fingle town. From this time Demetrius wanted only fome plaufible pretence for breaking up the fiege. The Rhodians likewife were now more inclined to come to an agreement than formerly; Ptolemy having acquainted them that he intended to fend a great quantity of corn, and 3000 men to their affiftance, but that he would first have them try whether they could make up matters with Demetrius upon reasonable terms. At the same time ambaffadors arrived from the Ætolian republic, foliciting the contending parties to put an end to a war which might involve all the east in endless calamities.

An accident which happened to Demetrius in this The heleconjuncture, did not a little contribute towards the alis renwished for pacification. This prince was preparing to less. advance his helepolis against the city, when a Rhodian engineer

His troops .breach;

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Rhodes engineer found means to render it quite ufcless. He undermined the tract of ground over which the helepolis was to pais the next day in order to approach the walls. Demetrius, not suspecting any stratagem of this nature, caused the engine to be moved forward, which coming to the place that was undermined, lunk to deep into the ground that it was impossible to draw it out again. This misfortune, if we believe Vegetius and Vitravius, determined Demetrins to hearken to the Atolian ambaffadors, and at last to strike up a peace upon the following conditions: That the republic of Rhodes should be maintained in the full enjoyment of their ancient rights, privileges, and liberties, without any foreign garrison; that they should renew their ancient alliance with Antigonus, and affift him in his wars against all states and princes except Ptolemy king of Egypt; and that, for the effectual performance of the articles stipulated between them, they should deliver 100 hostages, fuch as Demetrius should make choice of, except those

who bore any public employment.

Thus was the fiege raifed, after it had continued a whole year; and the Rhodians amply rewarded all those who had diftinguished themselves in the service of their country. They also fet up statues to Ptolemy, Cassander, and Lysimachus; to all of whom they paid the highest honours, especially to the first, whom they worshipped as a god. Demetrius at his departure prefented them with the helepolis, and all the other machines which he had employed in battering the city; from the fale of which, with fome additional fums of their own, they erected the famous colossus. After this they applied themselves entirely to trade and navigation; by which means they became quite masters of the fea, and much more opulent than any of the neighbouring nations. As far as lay in their power, they endeavoured to preferve a neutrality with regard to the jarring nations of the east. However, they could not avoid a war with the Byzantines, the occasion of which War with was as follows: The Byzantines being obliged to pay the Byzan- a yearly tribute of 80 talents to the Gauls, in order to raife this fum, they came to a resolution of laving a toll on all ships that traded to the Pontic sea. This resolution provoked the Rhodians, who were a trading nation, above all the reft. For this reason they immediately dispatched ambassadors to the Byzantines, complaining of the new tax; but as the Byzantines had no other method of fatisfying the Gauls, they perfifted in their refolution. The Rhodians now declared war, and prevailed upon Prusias king of Bithynia, and Attalus king of Pergamus, to affift them; by which confederacy the Byzantines were fo intimidated, that they agreed to exact no toll from thips trading to the Pontic fea, the demand which had been the occasion of the war.

About this time happened a dreadful earthquake. earthquake which threw down the colonius, the arfenal, and great at Rhodes. part of the city-walls of ilhodes; which calamity the Rhodians improved to their advantage, fending ambaffadors to all the Grecian princes and flates, to whom their loffes were fo much exaggerated, that their countrymen obtained immense sums of money under pretence of repairing them. Hiero king of Syracuse presented them with 100 talents; and, besides, exempted from all tolls and duties such as traded to Rhodes. Ptolemy king of Egypt gave them 100 talents, a million of meafures of wheat, materials for building 20 quinquerentes Rhod and the like number of triremes; and, befides, fent them 100 architects, 300 workmen, and materials for repairing their public buildings, to a great value, paying them moreover 14 talents a-year for the maintenance of the workmen whom he fent them. Antigonus gave them 100 talents of filver, with 10,000 pieces of timber, each piece being 16 cubits long; 7000 planks; 3000 pounds of iron, as many of pitch and rofin, and 1000 measures of tar. Chryseis, a woman of diffinction, fent them 100,000 measures of wheat, and 3000 pounds of lead. Antiochus exempted from all taxes and duties the Rhodian thips trading to his dominions; prefented them with 10 galleys, and 200,000 measures of corn, with many other things of great value. Prusias, Mithridates, and all the princes then reigning in Afia, made them proportionable prefents: in fliort, all the Greek towns and nations, all the princes of Europe and Afia, contributed, according to their ability, to the relief of the Rhodians on that occafion; infomuch that their city not only foon arose from its ruins, but attained to an higher pitch of fplendour

In the year 203 B. C. the Rhodians engaged in a War with war with Philip of Macedon. This monarch had inva-Philip of ded the territories of Attalus king of Pergamus; and Macedon.

because the Rhodians seemed to favour their ancient friend, sent one Heraclides, by birth a Tarentine, to fet fire to their fleet; at the same time that he dispatched ambassadors into Crete, in order to stir up the Cretans against the Rhodians, and prevent them from fending any affillance to Attalus. Upon this war was immediately proclaimed. Philip at first gained an inconfiderable advantage in a naval engagement; but the next year was defeated with the lofs of 11,000 men, while the Rhodians lost but 60 men and Attalus 70. - After this he carefully avoided coming to an engagement at fea either with Attalus or the Rhodians. The combined fleet, in the mean time, failed towards the island of Ægina in hopes of intercepting him : but having failed in their purpole, they failed to Athens. where they concluded a treaty with that people; and, on their return, drew all the Cyclades into a confederacy against Philip. But while the allies were thus wasting their time in negociations, Philip, having divided his forces into two bodies, fent one, under the command of Philocles, to ravage the Athenian territories : and put the other aboard his fleet, with orders to fail to Meronea, a city on the north fide of Thrace. He then marched towards that city himself with a body of forces, took it by affault, and reduced a great many others; fo that the confederates would, in all probability, have had little reason to boalf of their suc- The Rhocels, had not the Romans come to their affiftance, by dans affiltwhose help the war was soon terminated to their ad-ed by the

vantage. In the war which took place between the Romans and Antiochus the Great king of Syria, the Rhodians were very useful allies to the former. best part of their fleet was indeed destroyed by a treacherous contrivance of Polyxeniades the Syrian admiral; but they foon fitted out another, and defeated a Syrian squadron commanded by the celebrated Hannibal, the Carthaginian commander; after which, in conjunction with the Romans, they atterly defeated the whole Syrian fleet commanded by Polynculades; which,

tines.

continent.

Rhodes. together with the loss of the battle of Magnefia, fo difoirited Antiochus, that he submitted to whatever con-

ditions the Romans pleafed. For these services the Rhodians were rewarded with the provinces of Lycia and Caria; but tyrannizing over the people in a terrible manner, the Lycians ap-plied to the Romans for protection. This was readily granted; but the Rhodians were fo much displeased with their interfering in this matter, that they fecretly favoured Perses in the war which broke out between him and the Roman republic. For this offence the two provinces above-mentioned were taken from them; but the Rhodians, having banished or put to death those who had favoured Perfes, were again admitted into fa-27 who had favoured Feries, were again the Mi-Rhodes be- your, and greatly honoured by the fenate. In the Mi-

fieged by thridatic war, their alliance with Rome brought upon dates with them the king of Pontus with all his force; but having out success, lost the greatest part of his fleet before the city, he was obliged to raife the fiege without performing any remarkable exploit. In the war which Pompey made on the Cilician pirates, the Rhodians assisted him with all their naval force, and had a great share in the victories which he gained. In the civil war between Cæfar and Pompey, they affifted the latter with a very numerous fleet. After his death they fided with Cæfar; which drew upon them the refentment of C. Cassius, who advanced to the island of Rhodes with a powerful fleet, after having reduced the greatest part of the continent. The Rhodians, terrified at his approach, fent ambaffadors intreating him to make up matters in an amicable manner, and promifing to fland neuter, and recal the ships which they had fent to the assistance of the triumviri. Cassius insisted upon their delivering up their fleet to him, and putting him in possession both of their harbour and city. This demand the Rhodians would by no means comply with, and therefore began to put themselves in a condition to stand a siege; but first sent Archelaus, who had taught Cassius the Greek tongue while he studied at Rhodes, to intercede with his difciple in their behalf. Archelaus could not, with all his authority, prevail upon him to moderate his demands; wherefore the Rhodians, having created one Alexander, a bold and enterprifing man, their prætor or prytanis, equipped a fleet of 33 fail, and fent it out under the command of Mnaseus, an experienced sea-officer, to of-The Rhofer Cassius battle. Both fleets fought with incredible bravery, and the victory was long doubtful: but the

> fairly overcome in a fea-fight. Cashius, who had beheld this fight from a neighbouring hill, having refitted his fleet, which had been no less damaged than that of the Rhodians, repaired to Loryma, a stronghold on the continent belonging to the Rhodians. This castle he took by affault; and from hence conveyed his land-forces, under the conduct of Fannius and Lentuius, over into the island. His fleet confifted of 80 thips of war and above 200 transports. The Rhodians no fooner faw this mighty fleet appear, but they went out again to meet the enemy. The fecond engagement was far more bloody than the first; many ships were funk, and great numbers of men kill-

> Rhodians, being at length overpowered by numbers,

were forced to return with their fleet to Rhodes; two

of their thips being funk, and the rest very much da-

maged by the heavy thips of the Romans. This was the

first time, as our author observes, that the Rhodians were

ed on both fides. But victory anew declared for the Rhodes. Romans; who immediately blocked up the city of Rhodes both by fea and land. As the Rhodians had not had time to furnish the city with fufficient store of provisions, some of the inhabitants, fearing that if it were taken either by affault or by famine, Cassius would put all the inhabitants to the fword, as Brutus had lately done at Xanthus, privately opened the gate to Who takes him, and put him in pofferfion of the town, which he and cruelly nevertheless treated as if it had been taken by affault, pillages He commanded 50 of the chief citizens, who were ful-the city. pected to favour the adverse party, to be brought before him, and fentenced them all to die; others, to the number of 25, who had commanded the fleet or army. because they did not appear when summoned, he profcribed. Having thus punished such as had either acted or spoken against him or his party, he commanded the Rhodians to deliver up to him all their ships, and whatever money they had in the public treafury. then plundered the temples; ftripping them of all their valuable furniture, veffels, and statues. He is faid not to have left one statue in the whole city, except that of the fun; bragging, at his departure, that he had stripped the Rhodians of all they had, leaving them nothing but the fun. As to private persons, he commanded them, under fevere penalties, to bring to him all the gold and filver they had, promifing, by a public crier, a tenth part to fuch as should discover any hidden treafures. The Rhodians at first concealed some part of their wealth, imagining that Cassius intended by this proclamation only to terrify them; but when they found he was in earnest, and saw several wealthy citizens put to death for concealing only a fmall portion of their riches, they defired that the time prefixed for the bringing in their gold and filver might be prolonged. Cassius willingly granted them their request; and then through fear they dug up what they had hid under ground, and laid at his feet all they were worth in the world. By this means he extorted from private persons above 8000 talents. He then fined the city in 500 more; and leaving L. Varus there with a strong garrison to exact the fine without any abatement, he returned to the

After the death of Cashus, Marc Antony restored the Rhodians to their ancient rights and privileges; bestowing upon them the islands of Andros, Naxos, Tenos, and the city of Myndus. But these the Rhodians so oppressed and loaded with taxes, that the same Antony, though a great friend to the Rhodian republic, was obliged to divest her of the sovereignty over those places, which he had a little before so liberally bestowed upon her. From this time to the reign of the emperor Claudius we find no mention made of the Rhodians. That prince, as Dion informs us, deprived them of their liberty for having crucified fome Roman citizens. However, he foon restored them to their former condition, as we read in Suetonius and Tacitus. The latter adds, that they had been as often deprived of, as restored to, their liberty, by wav of punishment or reward for their different behaviour, as they had obliged the Romans with their affiftance in foreign wars, Rhedes reor provoked them with their feditions at home. Pliny, Rhedes rewho wrote in the beginning of Vespasian's reign, styles Roman Rhodes a beautiful and free tozon. But this liberty they province by did not long enjoy, the island became foon after reduced Vespasian.

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Caffius.

Rholes by the face Ve pafian to a Roman province, and obliged to pay a sently tribute to their new matters. This province was called the province of the Cands. The Postanding the eminent Services rendered her by this re-

grand-ma-Rhodes.

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The ifland of Rhodes continued fubject to the Romans till the reign of the emperor Andronicus; when Villaret, grand-maller of the knights of Jerusalem, then retiding in Cyprus, finding himself much exposed to the attacks of the Saracens in that island, resolved to exchange it for that of Rhodes. This island too was almost entirely occupied by the Sartcens; Andronicus the cattern emperor pofferling little more in it than a caftle. Nevertheless he refused to grant the investiture of the itland to Villaret. The latter, without fpend-Rhodes, where he landed his troops, provisions, and warlike flores, in fpite of the opposition made by the As Villaret forefaw that the capital must be taken befiege into a blockade; but he form found himfelf fo clolely furrounded by the Greeks and Saracens, that he could get no supply either of forage or provisions for his army. But having at length obtained a supply of provisions by means of large fums borrowed of the Florentines, he came out of his trenches and attacked the Saracens, with a full refolution either to conquer or die. A bloody fight enfued, in which a great number of the bravest knights were killed ; but at length the Saracens gave way, and fled to their thips; upon which the city was immediately affiulted and taken. The Greeks and other Christians had their lives and liberties given them, but the Saracens were all cut to pieces. The reduction of the capital was followed by that of all the other places of inferior firength throughout the iffind; and in four years after their landing, the whole was subjugated, and the conquerors took the title of the Knights of terror of the Saracens and Turks, and fullained a fevere don the enterprise; but at length the Turkish fultan Solyman refolved at all events to drive them from it. Before he undertook the expedition, he fent a message comin which case he promised that neither they nor the inhabitan's thould fuffer any injury, but threatened them with his utmost vengeance if they resuled his offer. The knights, however, proving obstinate, Solyman attacked the city with a fleet of 400 fail and an army of 140,000

B fier diy fearp, and a strong battery raised against the tom, he was in dang r of receiving fome full flut from the tower of St John which overlooked his coup, he plantdown. Solyman, however, finding the whole place in e measure covered with frong f references of fuch height as to command all his betteries, ordered and a R. S. mense quantity of flones and earth to be trought; in plied them accordingly with fuch a continual live, that while the befieged, who, from the top of the grand-

Here the enemy thought proper to alter their meaf, res, Terrilly Nicholas, which, in the former fiege by Mohau and had refilted all the efforts of the then grand-vizier. This them all dismounted by those of the tower: to prevent which in future, he ordered them to be fired only in the night, and in the day had them covered with gablons ditch; but he was furprifed to find another wall behind it, well terraced, and bordered with artillery, and himfelf obliged either to begin afresh or give up the enterwhen he was told of its being built on a hard rock, incapable of being f pped, and how firmly it had held out the largest artillery, which continued firing during a whole month; fo that the new wall of the bastion of proof against all their shot. That of Italy, which was the grand-mailer to cause a fally to be made on the trenches of the enemy out of the breach, whilft he was making and the 200 men who fallied out fword in hand having pieces. At the fame time a new detachment, which was fe t to repulfe them, being obliged, as that engineer artillery, were likewife mostly destroyed by the contiemployed in filling up feveral fathoms of the trench before they retired. By that time the breach had been repaired with fuch new works, that all the efforts

I'd m de ca ded fuch a confumption of their por der, ad war: that they be in to feel the want of it; the perfidious but find d'Amarald, whose province it had been to visit the means to magazines of it, having amuse I the council with a falle i pow le report, that there was mor than fulcient to maintaindeed. the tiege, though it th uld let a whole twelvemonth. meal ire that unexpected defect, b the cautious provision he had m de f a large quantity of faltpetre, which was in medi te'y v ound and m de into gunpowder, though he was at the same time obliged to order the engineers

Desperate

encounters

n mines.

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Rhodes to be more sparing of it for the future, and to make use of it only in the defence of fuch breaches as the enemy should make.

All this while the Turks had not gained an inch of ground; and the breaches they had made were fo fuddealy either repaired or defended by new entrenchments, that the very rubbish of them must be mounted by affault. Solvman, therefore, thought it now advisable to fet his numerous pioneers at work, in five different parts, in digging of mines, each of which led to the battion oppofite to it. Some of these were countermined by a new invented method of Martinengo; who, by the help of braced fkins, or drums, could discover where the miners were at work. Some of these he perceived, which he caused to be opened, and the miners to be driven out by hand ovenadoes; others to be smothered, or burned, by fetting fire to gunpowder. Yet did not this hinder two confiderable ones to be fprung, which did a vait deal of damage to the battion of England, by throwing down about fix fathoms of the wall, and filling up the ditch with its rubbish : whereupon the Turks immediately climbed up fword in hand to the top of it, and planted ieven of their flandards upon the parapet; but being flooned by a traverse, the knights, recovering from their furprife fell upon them with fuch fury, that they were obliged to abandon it with great lofs. The grand mafter, who was then at church, quickly came to the place with his fhort pike in his hand, attended by his knights, encouraging all he met with, burghers, foldiers, and others, to fight bravely in defence of their religion and country, and arrived time enough to affift in taking down their flandards, and driving down the enemy by the way they came up. In vain did the vizier Mustapha endeavour to prevent their flight by killing some of the foremost with his fword, and driving the rest back; they were obliged to abandon the baftion, and, which was fill worfe, met with that death in their flight, which they had throve to thun from the fire arms which were discharged upon them from the ramparts. Three fangiacs lost their lives in this attack, befides fome thousands of the Turks; the grandmafter, on his fide, loft fome of his bravest knights, particularly his tlandard-bearer.

The attacks were almost daily renewed with the same ill faccess and loss of men, every general striving to fignalize himself in the fight of their emperor. At length the old general Peri, or Pyrrus, having harafied the troops which guarded the baltion of Italy for feveral days Accessively without intermission, caused a strong detachment, which he had kept concealed behind a cavalier, to mount the place by break of day, on the 13th of September; where, finding them overcome with fleep and fatique, they cut the throats of the fentinels, and, fliding through the breach, were just going to fall upon them. The Italians, however, quickly recovered themselves and their arms, and gave them an obstinate repulse. The contest was fierce and bloody on both fides; and the bathaw, still supplying his own with new reinforcements, would hardly have failed of overpowering the other, had had not the grand mafter, whom the alarm had quickly reached, timely intervened, and, by his prefence, as well as example, revived his Rhodians, and thrown a fudden panic among the enemy. Pyrrus, defirous to do Something to wipe off the disgrace of this repulse, tried his fortune next on an adjoining work, lately raifed by the grand-master Carettii: but here his foldiers met with

a fill worfe treatment, being almost overwhelmed with Rhodes. the hand-grenadoes, melted pitch, and boiling oil, which came pouring upon them, whilst the forces which were on the adjacent flanks made as great a flaughter of those that fled ; infomuch that the janufaries began to refume their old murmuring tone, and cry out that they were brought thither only to be flaughtered.

The grand vizier Mustapha, afraid left their complaints should reach his master, agreed at length, as the last refort, to make a freih attempt on the battion of England, whilft, to cause a diversion, the bashaw Achmed sprung fome fresh mines at an opposite part of the city. This was accordingly executed on the 17th of September; when the former, at the head of five battalions, refolutely mounted or rather crept up the breach, and, in spite of the fire of the English, advanced so far as to pitch fome standards on the top; when, on a sudden, a crowd of English knights, commanded by one Bouk, or Burk, fallied out of their entrenchments, and, affilled by fome other officers of distinction, obliged them to retire, though in good order. Mustapha, provoked at it, led them back, and killed feveral knights with his own hand; and had his men supported him as they ought, the place must have been yielded to him : but the fire which was made from the adjacent batteries and musketry disconcerted them to such a degree, that neither threats nor entreaties could prevent their abandoning the enterprise, and dragging him away with them by main force. The Rhodians foil in that action several brave knights, both English and German; and, in particular, John Burk, their valiant commander: but the Turks loft above 3000 men, besides many officers of distinction. Much the same ill fuccess having attended Achmed with his mines, one of which had been opened, and the other only bringing fome fathoms of the wall down, he was also obliged to retreat; his troops, though fome of the very beil, being forced to disperse themselves, after having borne the fire and fury of the Spanish and Auvergnian knights as long as they were able.

By this time Solyman, ashamed and exasperated at his ill faccess, called a general council; in which he made some stinging reflections on his vizier, for having represented the reduction of Rhodes as a very easy enterprife. To avoid the effects of the fultan's refentment, the fubtle Mustapha declared, that hitherto they had fought the enemy as it were upon equal terms, as if they had been afraid of taking an ungenerous advantage of their superiority, by which, faid he, we have given them an opportunity of opposing us with their united force wherever we attacked them. But let us now resolve upon a general affault on several sides of the town; and fee what a poor defence their ftrength, thus divided, will be able to make against our united force. The advice was immediately approved by all, and the time appointed for the execution of it was on the 24th of that month, and every thing was ordered to be got ready against that day. Accordingly the An affault town was actually affaulted at four different parts, after in four difhaving suffered a continual fire for some time from their terent artillery in order to widen the breaches; by which the once. grand-master easily understood their design, and that the baffions of England and Spain, the post of Provence, and terrace of Italy, were pitched upon for the affault, and took his precautions accordingly.

The morning was no fooner come, than each party mounted

Ruedet mounted their refrective breach with an undaunted bravery, the young fultan, to animate them the more, hawing ordered his throne to be reared on an eminence, whence he could fee all that was done. The Khodians, on the other hand, were no less diligent in repulsing them with their cannon and other fire-arms, with their melted lead, boiling oil, flink pots, and other usual expedients. The one fide alcend the fealing ladders, fearless of all that opposed them; the other overturn their ladders and fend them tumbling down headlong into the ditches, where they were overwhelmed with flones, or difpatched with darts and other miffile weapons. The baftion of England proves the fcene of the greatest flaughter and bloodshed; and the grand-master makes that his post of honour, and, by his presence and example, inspires his men with fresh vigour and bravery, whilft the continual thunder of his artillery makes fuch horrid work among the affailants as chills all their courage, and forces them to give way : the lieutenant-general, who commands the attack, leads them back with fresh vigour, and mounts the breach at the head of all; immediately after comes a cannon-ball from the Spanish baftion, which overturns him dead into the ditch. difaster, instead of fear and dread, fills them with a furious desire of revenging his death : but all their obstinacy cannot make the Rhodians go one flep back, whilft the priefts, monks, young men and old, and even women of every rank and age, affift them with an uncommon ardour and firmness; fome in overwhelming the enemy with stones; others in destroying them with melted lead, fulphur, and other combustibles; and a third fort in fupplying the combatants with bread, wine, and other refreshments.

The affault was no less desperate and bloody on the bastion of Spain, where the knights, who guarded it, not expecting to be fo foon attacked, and afliamed to fland idle, were affifting the battion of Italy; which gave the Turks an opportunity to mount the breach, and penetrate as far as their intrenchments, where they planted no less than 30 of their standards on them. The grand-master was quickly apprifed of it, and ordered the bastion of Auvergne to play against them; which was done with fuch diligence, and fuch continual fire, whilft the Rhodians enter the bastion by the help of their casemates, and, sword in hand, fall upon them with equal fury, that the Turks, alike belet by the fire of the artillery and the arms of the Rhodian knights. were forced to abandon the place with a confiderable lofs. The aga with great bravery rallies them afreth, and brings them back, by which time the grand-maf-ter likewife appeared. The fight was renewed with greater fiercenes; and fuch flaughter was made on both fides, that the grand-master was obliged to draw 200 men out of St Nicholas tower to his assistance: these were commanded by fome Roman knights, who led them on with such speed and bravery, that their very appearance on the bastion made the janissaries draw back; which Solyman observing from his eminence, caused a retreat to be sounded, to conceal the disgrace of their flight. In these attacks there fell about 15,000 of his best troops, besides several officers of distinction. The lofs of the belieged was no lefs confiderable, if we judge from the fmall number of their forces; but the greatest of all to them was that of some of their bravest and most distinguished knights and commanders, many of whom were killed, and fcarce any escaped unwounded. But the most dreadful fate of all had like to have Rhode fallen on the favourite vizier Mustapha, who had proposed this general affault : the ill fuccels of which had so enraged the proud fultan, that he condemned him to be that with arrows at the head of his army; which dreadful fentence was just ready to be executed, when the old bathaw, hy his intreaties, obtained a fulpenfion of it, in hopes that, when his fury was abated, he should also obtain his pardon.

Solyman, however, was fo discouraged by his ill succeffes, that he was on the point of raifing the fiege, and would have actually done fo, had he not been diverted from it by the advice which he received from an Albanian deferter, some fay by a letter from the traitor d' Amarald, that the far greater part of the knights were either killed or wounded, and those that remained altogether incapable of fullaining a fresh asfault. This having determined him to try his fortune once more, the command of his forces was turned over to the balhaw Achined; and, to flow that he defigned not to flir till he was mafter of the place, he ordered a house to be built on the adjacent mount Philermo for his winterquarters. Achmed marched directly against the battion of Spain, which had fuffered the most; where, before he could open the trenches, his men fell thick and threefold by the constant fire both of small and great guns from the baftion of Auvergne. He lost still a much greater number in rearing a rampart of earth to cover the attack, and give him an opportunity of fapping the wall; and, as foon as he faw a large piece fall, ordered his men to mount the breach. They were no fooner come to the top, than they found a new work and entrenchments which Martinengo had reared; and there they were welcomed with fuch a brifk fire from the artillery, that they were glad to recover their trenches with the utmost precipitation, after having loft the much greater part of their men. The attack was renewed, and a reciprocal fire continued with great obflinacy, till a musket-shot deprived that indefatigable engineer of one of his eyes, and the order of his affiduous fervices for fome time. The grand-mafter, having ordered him to be carried to his palace, took his place, and kept it till he was quite cured, which was not till 34 days after; and continued all the time in the intrenchments with his handful of knights, scarcely allowing himself rest night or day, and ever ready to expole himself to the greatest dangers, with an ardour more becoming a junior officer than an old worn out fovereign; which made his knights more lavish of their own lives than their paucity and prefent circumstances could well admit of.

Soon after this, the treason of d'Amarald was difcovered, and he was condemned to death and executed : but by this time the city was reduced to the latt extremity. The pope, emperor, and other crowned heads, had been long and often importuned by the grand mafter for speedy assistance, without success; and, as an addition to all the other difasters, those succours which were fent to him from France and England perifted at fea. The new supply which he had fent for of provifions from Candia had the fame ill fate; fo that the winds, feas, and every thing, feemed combined to bring on the destruction of that city and order. The only refource which could be thought of, under so difinal a fituation, was, to fend for the few remaining knights and forces which were left to guard the other islands, to come to the defence of their capital, in hopes that, if Rholes, they could fave this, the others might in time be recovered, in case the Turks should seize upon them. On the other hand, Solyman, grown impatient at the small ground his general had gained, gave him express orders to renew the attack with all imaginable speed and vigour, before the fuccours which he apprehended were coming from Europe, obliged him to raife the fiege. Achmed inflantly obeyed, raifed a battery of 17 large cannon against the baltion of Italy, and quickly after made himself master of it, obliging the garrison to re-tire farther into the city. Here the grand-master was forced to demolish two of the churches, to prevent the enemy's feizing on them; and, with their materials, caused some new works and entrenchments to be made

to hinder their proceeding farther.

The Turks, however, gained ground every day, though they still lost vast numbers of their men; at length the 30th of November came, when the grand-mailer, and both the besiegers and besieged, thought the last assault was to be given. The bashaw Pyrrus, who commanded it, led his men directly to the entrenchments; upon which the bells of all the churches founded the alarm. The grand-mafter, and his few knights, troops, and citizens, ran in crowds, and in a confused disorderly manner, to the entrenchments, each fighting in his own way, or rather as his fear directed This attack would have proved one of the most desperate that had yet been felt, had not a most vehement rain intervened, which carried away all the earth which the enemy had reared to ferve them as a rampart against the artillery of the bastion of Auvergne; so that being now quite exposed to their continual fire, they fell in fuch great numbers, that the bashaw could no longer make them stand their ground, but all precipi-tately sled towards their camp. This last repulse threw the proud sultan into such a fury, that none of his officers dared to come near him; and the shame of his having now fpent near fix whole months with fuch a numerous army before the place, and having loft fuch myriads of his brave troops with fo little advantage, had made him quite desperate, and they all dreaded the con-

fequences of his refertment.

Pyrrus at length, having given it time to cool, ventured to approach him, and propose a new project to him, which, if approved, could hardly fail of fuccess; which was, to offer the town a generous capitulation; reject it, yet being now reduced to fo fmall a number, as well as their forces and fortifications almost destroyed, ambitious of glory than folicitous for their own prefervation, would undoubtedly accept of any composition that should se ure to them their live and effects.

This provosal being relished by the fullyn, letters

exhorting them to fubmit to his gov nam ut, a d threstening them at the same time with the most dreadful effects of his refen ment if they perfilled, in their obttinacy, Pyrrus l'kewife dispatched a Gen ese to apand to intro t the knights to take pity of to many of their Christian brethren, and not expose them to the dreadful effects which not follow their refusal of a capitulation, so generously offered them at their last ex-tremity. Other a ents were likewise employed in other places: to all of whom the grand-master ordered some

of his men to return this answer. That his order never Rhodes, treated with infidels but with fword in hand. An Albanian was fent next with a letter from the fultan to him, who met with the fame repulse; after which, he ordered his men to fire upon any that should present themselves upon the same pretences; which was actually done. But this did not prevent the Rhodians from liftening to the terms offered by the Turks, and holding frequent cabals upon that subject; in which the general maifacre of a town taken by affault, the dreadful flavery of those that escaped, the rape of their wives and daughters, the destruction of their churches, the profanation of their holy relics and facred utenfils, and other dire confequences of an obstinate refusal, being duly weighed against the fultan's offers, quickly determined their choice. The grand-mafter, however, proving inexorable to all their intreaties, they applied to their Greek metropolitan, who readily went and reprefented all these things to him in the most pathetic terms: Yet he met with no better reception; but was told that he and his knights were determined to be buried under the ruins of the city if their fwords could no longer defend it, and he hoped their example would not permit them to show less courage on that occasion. This answer produced a quite contrary effect; and, as the citizens thought delays dangerous at fuch a juncture, they came in a body to him by the very next morning, and plainly told him, that if he paid no greater regard to their preservation, they would not fail of taking the most proper measures to preferve the lives and chastity of their wives and children.

This resolution could not but greatly alarm the grand-mafter; who thereupon called a council of all the knights, and informed them himself of the condition of the place. These all agreed, particularly the engineer Martinengo, that it was no longer defenfible, and no other resource left but to accept the fultan's offers; adding, at the fame time, that though they were all ready, according to the obligations of their order, to fight to the last drop of their blood, yet it was no less their duty to provide for the fafety of the inhabitants, who, not being bound by the fame obligations, ought not to be made a facrifice to their glory. It was therefore agreed, with the grand-mafter's confent, to accept of the next offers the fultan should make. He did not let then wait long: for the fear he was in of a fresh succour from Europe, the intrepidity of the knights, and the shame of being forced to raise the siege, prevailed upon him to hang out his pacific flag, which was quickly anfwered by another on the Khodian fide; upon which the Turks, coming out of their trenches, delivered up the fultan's letter for the grand-master, to the grand-prior of St Giles, and the engineer Martinengo. The terms offered in it by Solyman appeared fo advantageous, that that were fent to him had the honour to be introduced to lim, and to hear them confirmed by his own mouth, though not without threats of putting all to fire and fword in case of refusal, or even delay. Two ambassadors were forthwith fent to him, to demand a truce of inha itants, who were part Greeks and part Latins; but this was absolutely refused by the impatient monarch, out of a f spicion of the rumoured succour being near, and that the truce was only to gain time till it was come.

He therefore ordered the hostilities to be renewed with fresh fury; in which the Rhodians made a most

Rhodes, noble desence, confidering their small number, and that they had now only the barbican or falle bray of the baltion of Spain left to defend themselves, and once more repulled the enemy; at which the fultan was fo enraged, that he resolved to overpower them by numbers on the next day; which was, after a flout defence, fo cffectually done, that they were forced to abandon that outwork, and retire into the city. In the meanwhile, the burghers, who had but a day or two before raifed a fresh uproar against the grand-master, under pretence that he was going to give them up a prey to an infidel who regarded neither oaths nor folemn treaties, perceiving their own danger, came now to define him to renew the negociations, and only begged the liberty of fending one of their deputies along with his, to ficure their interests in the capitulation. He readily consented to it; but gave them a charge to show the bashaw Achmed the treaty formerly concluded between Bajazet and his predecessor d'Aubuisson, in which the former had entailed a dreadful curse on any of his successors that should infringe it. This was done, in hopes that the showing it to his mafter, who valued himself so much upon his first observance of his law, might produce some qualm in him which might lengthen the agreement, for they were still as much in hopes of a fuccour from Europe as he was in fear of it; but to their great furprife, Achmed had no fooner perufed than he tore it all in pieces, trampled it under his feet, and in a rage ordered them to be gone. The grand-master found no other resource than to send them back to him the next day; when that minister, who knew his master's impatience to have the affair concluded, quickly agreed with them

upon the terms, which were in fubstance as follow: 1. That the churches should not be profaned. 2. That the inhabitants should not be forced to part with their children to be made janiffaries, 3. That they should enjoy the free exercise of their religion. 4. That they should be free from taxes during five years. 5. That those who had a mind to leave the island should have free leave to do fo. 6. That if the grand-mafter and his knights had not a fufficient number of veffels to transport themselves and their effects into Candia, the fultan should supply that defect. 7. That they should have twelve days allowed them, from the figning of the articles, to fend all their effects on board. 8. That they should have the liberty of carrying away their relics, chalices, and other facred utenfils belonging to the great church of St John, together with all their ornaments and other effects. 9. That they should likewise carry with them all the artillery with which they were wont to arm the galleys of the order. 10. That the islands belonging to it, together with the caftle of St Peter. should be delivered up to the Turks. 11. That, for the more easy execution of these articles, the Turkish army should be removed at some miles distance from the capital. 12. That the age of the janisfaries, at the head of 4000 of his men, should be allowed to go and take

From this time the island of RI odes has been subject to the Turks; and, like other countries fubject to that and is looked upon to be impregnable. It is inhabited by Turks and Jews; the Christians being obliged to oc-

cupy the fuburbs, as not being allowed to flay in the Riodicla town during the night. The town is fituated in E. RhOBIOLA, Rosk-work; a genus of plants belonging to the dixcia claß; and in the natural method

ranking under the 13th order, Succulentie. See Bo-

RHODIUM, a metal which is obtained from the ores of platina. See CHEMISTRY; and under PLATINA, ORES, Reduction of, &c.

Oil of RHODIUM, an effential oil obtained from a species of aspalathus.

RHODODENDRON, DWARF ROSE-BAY; a genus of plants belonging to the decandria class; and in the natural method ranking under the 18th order, Bicornes. See BOTANY Index.

RHODORA, a genus of plants belonging to the de-candria class; and of which there is only one species. See BOTANY Index.

RHOEA. See RHEA, ORNITHOLOGY Index.

RHOEADEÆ (rhæas, Linnæus's name, after Diofcorides, for the red poppy), the name of the 27th or-der in Linnaus's fragments of a natural method, confifting of poppy and a few genera which refemble it in habit and flructure. See BOTANY Index.

RHOMBOIDES, in Geometry, a quadrilateral figure whose opposite sides and angles are equal, but is neither equilateral nor equiangular.

RHOMBOIDES, in Anatomy, a thin, broad, and obliquely fquare fleshy muscle, situated between the basis of the scapula and the spina dors; so called from its figure. Its general use is to draw backward and upward the fubipinal portion of the basis scapulæ.

RHOMBUS, in Geometry, an oblique angled parallelogram, or quadrilateral figure, whose sides are equal and parallel, but the angles unequal, two of the opposite ones being obtufe and two acute.

RHOMB Solid, confifts of two equal and right cones joined together at their bases.

RHONE, one of the largest rivers in France, which, rifing among the Alps of Switzerland, paffes through the lake of Geneva, vifits that city, and then runs fouthwest to Lyons; where, joining the river Soane, it continues its course due fouth, paffing by Orange, Avignon, and Arles, and falls into the Mediterranean a little

RHOPIUM, a genus of plants, belonging to the gythose that are doubtful. See BOTANY Index.

RHUMB, in Navigation, a vertical circle of any given place, or interfection of such a circle with the horizon; in which last fense rhumb is the same with a point of the compais.

RHUMB-Line is also used for the line which a thip defcribes when failing in the fame collateral point of the

compass, or o lique to the meridians.
RHUNKENIUS, DAVID, an eminent classical scholar, was born at Stolpen in Prussian Pomer nia, in the year 1723. Of the early part of his fludies little is known, but it appears that he was fome time at Schlaff. from which be removed to Konigfburg, where he met with the celebrated Kant, whole fyllem has fo much engaged the attention of Europe. He afterwards went to Rinnike- Goffingen to attend the learned Gelier, and to enlarge his knowledge of the Greek language. Some time after this period he formed an acquaintance with Ritter and Berger while he refided at Witteburg, where he continued about two years; and his first public attempt, being a thefis De Galla Placidia Augusta, daughter of Theodofius, and the fifter of Arcadius and Honorius, was in this place. Rhunkenius was engaged to go to Leyden by Ernesti, to complete his knowledge of ancient literature. He gave up the study of divinity, for which he was at first designed, and prevailed with his parents to allow him to go to Leyden, where he arrived with recommendations to many of the learned, and purfued his itudies with avidity and zeal, accompanying Alberti in his visit to the Spa in the year 1750. Hemsterhuis wished to attach him to Holland, urging him to perfevere in the fludy of the law, as affording an additional chance of employment. This advice he thought proper to follow, and published a translation of some works of Theodorus, Stephanus, and some other celebrated lawyers in the time of Justinian, which he found in manuscript in the univerfity of Levden.

He went to Paris in the year 1755, where Caperomer, who was at that time keeper of the king's library, kindly received him; and he formed an acquaintance with Dr S. Musgrave and Mr T. Tyrwhit, who were there for the purpole of examining the manuscripts of Euripides. He had also formed the resolution of going to Spain, but Hemsterhuis recalled him, as he needed his affiftance as lecturer in the Greek tongue. In 1755, Rhunkenius took possession of his office, and read an excellent discourse De Græcia Artium et Dostrinarum

Inventrice.

About this time he was useful to Ernesti, in his edition of Callimachus; and in 1761, he succeeded Oudendorp as professor of history and of eloquence, delivering an oration De Doctore Umbratico. About a year after this event. Rhunkenius was offered the chair of Gefner by the univerfity of Gottingen, which he declined accepting, but he recommended Heyne, who was the fuc-

cessful candidate.

In 1764 he married an Italian lady, who, about fix years afterwards, loft both her speech and fight by a stroke of apoplexy. She had two daughters, one of whom was afterwards blind, and the wife of our author furvived her husband. The defire of Rhunkenius to do Ernesti a favour, made him turn his attention to the Memorabilia of Xenophon; and he was led to examine with particular attention, the treatife of Longinus on the sublime. Having rifen superior to his domestic misfortunes about the year 1772, he purfued his new edition of Velleius Paterculus, and he prepared a second edition of Epistolæ Criticæ, and a collection of Scholia on Plato. year 1766, he published a valuable little tract De Vita et Scriptis Longini, in the form of a thefis, to which he prefixed the name of one of his pupils. His Velleius Paterculus appeared in 1779, and in 1780 Homer's reputed hymn to Ceres. In 1786, he published the first part of Apuleius, which had been prepared by Oudendorp, and a new edition of his own Timæus in 1789, and at the fame time he collected and published the works of Marc-Anthony Murat, in 5 vols. octavo.

Both the body and mind of Rhunkenius were much weakened in confequence of the loss of friends, an attack of the gout, and the misfortimes of the Batavian repub-

lie; but he was in some measure relieved by the satis- Rhunkefaction he felt at the dedication of Homer by Wolf, although he was not of that writer's opinion that the works of Homer were written by different authors. He funk into a kind of flupor on the 14th of May, 1798, which in two days put a period to his existence.

His knowledge and learning were unqueflionably great, and he was allowed to be lively, cheerful, and gay, even to an extreme. Many posthumous honours were conferred upon him, and a pention fettled on his unfortunate widow. When Whyttenbach took poffession of Rhunkenius's chair, he delivered a difcourse on the early age of Rhunkenius, which he proposed as an example to the Batavian youth who made the belles lettres their fludy.

RHUS, SUMACH, a genus of plants, belonging to the pentandria class; and in the natural method ranking under the 43d order, Dumofa. See BOTANY In-

1. The coriaria, or elm-leaved fumach, grows naturally in Italy, Spain, Turkey, Syria, and Palestine. The branches of this tree are used instead of oak-bark for tanning of leather; and it is faid that the Turkey leather is all tanned with this shrub. It has a ligneous stalk, which divides at bottom into many irregular branches, rifing to the height of eight or ten feet; the bark is hairy, of an herbaceous brown colour; the leaves are winged, composed of seven or eight pair of lobes, terminated by an odd one, bluntly fawed on their edges, hairy on their under fide, of a yellowish-green colour, and placed alternately on the branches; the flowers grow in loofe panicles on the end of the branches, which are of a whitish herbaceous colour, each panicle being composed of feveral spikes of flowers sitting close to the footstalks. The leaves and feeds of this fort are used in medicine, and are esteemed very restringent and

flyptic. 2. The typhinum, Virginian fumach, or vinegar plant, grows naturally in almost every part of North America. This hath a woody ftem, with many irregular branches, which are generally crooked and deformed. The young branches are covered with a foft velvet-like down, refembling greatly that of a young flag's horn, both in colour and texture, from whence the common people have given it the appellation of flag's horn; the leaves are winged, composed of fix or feven pair of oblong heart-shaped lobes, terminated by an odd one, ending in acute points, hairy on their underfide, as is also the The flowers are produced in close tufts at the end of the branches, and are fucceeded by feeds, inclofed in purple woolly fucculent covers; fo that the bunches are of a beautiful purple colour in autumn; and the leaves, before they fall in autumn, change to a purplish colour at first, and before they fall to a feuillemort. This plant, originally a native of North America, has been long cultivated in the north of Germany, and is lately introduced into Ruffia. It has got the name of the vinegar plant from the double reason of the young germen of its fruit, when fermented, producing either new or adding to the strength of old weak vinegar, whilst its ripe berries afford an agreeable acid, which might supply the place when necessary of the citric acid. The powerful aftringency of this plant in all its parts recommends it as useful in several of the arts. As for example, the ripe berries boiled with alum make a good Rhus , dye for hais. The plant in all its parts may be used as a succedancum for oak-bark in tanning, especially the white glove leather. It will likewife answer to prepare a dve for black, green, and yellow colours; and with martial vitriol is makes a good ink. The milky juice that flows from incisions made in the trunk or branches, makes when dried the basis of a varnish little inferior to the Chinele. Bees are remarkably fond of its flowers; and it affords more honey than any of the flowering shrubs, so that it may prove a useful branch of economy, where rearing these infects is an object. The natives of America use the dried leaves as tobacco.

3. The glabrum, with winged leaves, grows naturally in many parts of North America; this is commonly titled by the gardeners New England fumach. The ftem of this is thronger and rifes higher than that of the former; the branches fpread more horizontally; they are not quite fo downy as those of the last, and the down is of a brownish colour; the leaves are composed of many more pairs of lobes, which are fmooth on both fides; the flowers are dispoted in loose panicles, which

are of an herbaceous colour.

4. The Carolinianum, with fawed winged leaves, grows naturally in Carolina; the feeds of this were brought from thence by the late Mr Catefby, who has given a figure of the plant in his Natural History of Carolina. This is by the gardeners called the fearlet Carolina fumach; it rifes commonly to the height of feven or eight feet, dividing into many irregular branches, which are fmooth, of a purple colour, and pounced over with a greyish powder, as are also the sootitalks of the leaves. The leaves are composed of seven or eight pair of lobes, terminated by an odd one; these are not always placed exactly opposite on the midrib, but are sometimes alternate. The upper fide of the lobes is of a dark green, and their under hoary, but smooth. The close panicles, which are large, and of a bright red colour.

5. The Canadense, with winged spear-shaped leaves, grows naturally in Canada, Maryland, and feveral other parts of North America. This bath fmooth branches of a purple colour, covered with a grey pounce. The leaves are composed of seven or eight pairs of lobes, terminated by an odd one; the lobes are spear shaped, fawed on their edges, of a lucid green on their upper furface, but hoary on their under, and are smooth. The flowers are produced at the end of the branches in large panicles, which are composed of several smaller, each standing upon separate footstalks; they are of a deep red colour, and the whole panicle is covered with a grey pounce, as if it had been feattered over

6. The copallinum, or narrow-leaved fumach, grows naturally in molt parts of North America, where it is known by the title of beach fumach, probably from the place where it grown, This is of humbler growth than either of the former, feldom riling more than four or five feet high in Britain, dividing into many spreading branches, which are smooth, of a light brown colour, glolely garnished with winged scaves, composed of four or five pair of parrow, lobes, terminated by an odd one; they are of a light green on both fides, and in autumn change purplies. The midrib, which fuffains the lobes, has on each fifty a winged or leafy border, which runs from one pair of lobes to another, ending in joints at Rius each pair, by which it is eafily diftinguished from the other forts. The flowers are produced in loofe panicles -at the end of the branches, of a yellowith herbaceous

Thefe fix forts are hardy plants, and will thrive in the open air here. The first and fourth forts are not quite fo hardy as the others, fo must have a better situation, otherwise their branches will be injured by severe frost in the winter. They are easily propagated by feeds, which if fown in autumn the plants will come up the following fpring; but if they are fown in fpring, they will not come up till the next fpring; they may be either fown in pots, or the full ground. If they are fown in pots in autumn, the pots thould be placed under a common frame in winter, where the feeds may be protected from bard froft; and in the ipring, if the pots are plunged into a very moderate and bed, the plants will foon rife, and have thereby more time to get strength before winter. When the plants come up, they must be gradually hardened to bear the open air, into which they should be removed as soon as the weather is favourable, placing them where they may have the morning fun; in the fummer, they must be kept clean from weeds, and in dry weather watered. Toward autumn it will be proper to ftint their growth by keeping them dry, that the extremity of their shoots may harden; for if they are replete with moilture, the early frosts in autumn will pinch them, which will cause their shoots to decay almost to the bottom if the plants are not screened from them. If the pots are put under a common frame in autumn, it will fecure the plants from injury : for while they are young and the shoots foft, they will be in danger of fuffering, if the winter proves very fevere; but in mild weather they must always enjoy the open air, therefore should never be covered but in frost. The spring following, just before the plants begin to thoot, they thould be thaken out of the pots, and carefully feparated, fo as not to tear the roots; and transplanted into a nursery, in rows three feet alunder, and one foot distance in the rows. In this nursery they may fland two years to get firength, and then may be transplanted where they are to remain.

7. Besides these, Linnaus has included in this genus the toxicodendron or poison tree, under the name of rhus vernix or poison-ash. This grows naturally in Virginia, Penfylvania, New England, Carolina, and Japan, rifing with a ftrong woody stalk to the height of 20 feet and upwards; though in this country, it is feldom feen above 12, by reafon of the plants being extremely tender. The bark is brown, inclining to gray; the branches are garnished with winged leaves composed of three or four pair of lobes terminated by an odd one, The lobes vary greatly in their shape, but for the most part they are oval and spear-shaped. The foot-stalks, become of a bright purple towards the latter part of fummer, and in autumn all the leaves are of a beautiful pur-

ple before they fall off.

All the species of sumach abound with an acrid milky juice, which is reckoned poisonous; but this property is most remarkable in the vernix. The most distinct account of it is to be found in Professor Kalm's Travels in North America. " An incision (says he) being made into the tree, a whitish yellow juice, which has a naulous fmell, comes, out between the bark and the

"Ries. wood. This tree is not known for its good qualities, but greatly fo for the effect of its poilon; which though it is noxious to fome people, yet does not in the least aifect others. And therefore one perion can handle the tree as he pleafes, cut it, peel off its back, rub it or the wood upon his hands, fmell at it, forced the juice upon the fkin, and make more experiments, with no inconvenience to himfelf: another person, on the contrary, dares not meddle with the tree while its wood is fresh; nor can he venture to touch a hand which has handled it, nor even to expose himself to the smoke of a fire which is made with this wood, without foon feeling its bad effects; for the face, the hands, and frequently the whole body, fivells excellively, and is afsected with a very acute pain. Sometimes bladders or blifters arise in great plenty, and make the fick person look as if he were infected by a leprofy. In some people the examal thin fkin, or cuticle, peels off in a few days, as is the case when a person has scalded or burnt any part of his body. Nay, the nature of fome persons will not even allow them to approach the place where the tree grows, or to expose themselves to the wind when it carries the effluvia or exhalations of this tree with it, without letting them feel the inconvenience of the fwelling which I have just now described. Their eyes are fometimes that up for one, or two, or more days together, by the swelling. I know two brothers, one of whom could without danger handle this tree in what manner he pleased, whereas the other could not come near it without fivelling. A person sometimes does not know that he has touched this poisonous plant. or that he has been near it, before his face and hands show it by their swelling. I have known old people who were more afraid of this tree than of a viper; and I was acquainted with a person who, merely by the noxious exhalations of it, was fwelled to fuch a degree, that he was as stiff as a log of wood, and could only be turned about in sheets.

" I have tried experiments of every kind with the poison-tree on myself. I have spread its juice upon my hands, cut and broke its branches, peeled off its bark, and rubbed my hands with it, fmelt at it, carried pieces of it in my bare hands, and repeated all this frequently, without feeling the baneful effects to commonly annexed to it; but I, however, once experienced, that the poifon of the fumach was not entirely without effect upon me. On a hot day in fummer, as I was in some degree of perspiration, I cut a branch of the tree, and carried it in my hand for about half an hour together, and fmelt it now and then. I felt no effects from it in the evening. But next morning I awoke with a violent itching of my cyclids and the parts thereabouts; and this was fo painful, that I could hardly keep my hands from it. It ceased after I had washed my eyes for a while with very cold water. But my eyelids were very stiff all that day. At night the itching returned; and in the morning when I awoke, I felt it as ill as the morning before, and I used the same remedy against it. However, it continued almost for a whole week together; and my eyes were very red, and my eyelids were with difficulty moved during all that time. My pain ceased entirely afterwards. About the same time I had fpread the juice of the tree very thick upon my hand. Three days after, it occasioned blitters, which foon went off without affecting me much. I have not experienced any thing more of the effects of the plant, nor had I any defire to to do. However, I found that it could not exert its power upon me when I was

not perfpiring,

"I have never heard that the poison of this sumach has been mertal, but the pain ceales after a tew days duration. The natives formerly made their flutes of this tree, because is has a great deal of pith. Some people affored me, that a person suffering from its noifome exhalations, would cafily recover by foreading a mixture of the wood burnt to charcoal, and hog's lard, upon the swelled parts. Some afforted, that they had really tried this remedy. In some places this tree is rooted out, on purpose that i.s poilon may not affect the

The natives are faid to diffinguish this tree in the dark by its extreme coldness to the touch. The juice of some kinds of fumach, when exposed to the heat of the fun, becomes so thick and clammy, that it is used for birdlime, and the inspillated juice of the polion-ath is faid to be the fine varnith of Japan. A cataplasm made with the fresh juice of the poilon-ash, applied to the feet, is faid by Hughes, in his Natural History of Barbadoes, to kill the vermin called by the West Indians chigers. Very good vinegar is made from an infusion of the fruit of an American lumach, which from that reason is called the vinegar-tree. The refin called gum copal is from the rhus copallinum.

RHYME, RHIME, Ryme or Rime, in Poetry, the fimilar found or cadence and termination of two words which end two verfes, &c. Or rhyme is a fimilitude of found between the last fyllable or fyllables of a verse, fucceeding either immediately or at a diffance of two or three lines. See POETRY, No 177, &c.

RHYMER, THOMAS THE, a poet of Scotland, who lived in the 13th century, and whof, real name was Sir Thomas Lermont. The life and writings of this poet are involved in much obfcurity; but his fame. both as a prophet and poet, has always flood high among his countrymen. Elslement was the chief family of his name, from which, it is faid, he derived his origin; but his family title appears to have been taken from Ercildon, or, as it has been corrupted in modern times, from Earlstoun, in the county of Berwick, where the remains of his house are still pointed out, and known by the name of Rhymer's Tower. The period of the union with England was the critis of his fame as an infpired poet; for Robert Birrel informs us, that " at this tyme all the hail commons of Scotland that had red or underslanding, wer daylie speiking and exponeing of Thomas Rymer hes prophefies, and of other prophefies quhilk wer prophefied in auld tymes." It is obvious that he diftinguished himself by his poetical works, as we learn from the testimony of early writers. He is commemorated by Robert of Brunne, who lived in the beginning of the 14th century, as the author of Sir Trifirem," a romance lately published by Mr Walter Scot. On a stone still preserved in the front wall of the church of Earlitoun we meet with this infcription :

" Auld Rhymer's race lies in this place."

RHYTHM, in Music, the variety in the movement, as to the quickness or slowness, length or shortness, of

Rial Ricaut. proportion which the parts of the motion have to each

RIAL, or RYAL, a Spanish coin. See MONEY-

Table.

RIAL, or Royal, is also the name of a piece of gold anciently current among us for 10s.

RIBAN, or RIBBAN, in Heraldry, the eighth part of

a bend. See HERALDRY.

RIBAND, or RIBBON, a narrow fort of filk, chiefly used for head-ornaments, badges of shivalry, &cc. See WEAVING.

Ribbons of all forts are prohibited from being im-

ported.

RIBANDS (from rib and bend), in paval architecture, long narrow flexible pieces of timber, nailed upon the outfide of the ribs, from the stem to the sternpost, so as to envelope the ship lengthwife, and appear on her fide and bottom like the meridians on the furface of the globe. The ribands being judiciously arranged with regard to their height and distance from each other, and forming regular fweeps about the ship's body, will compose a kind of frame, whose interior furface will determine the curve of all the intermediate or filling-timbers which are flationed between the principal ones. As the figure of the ship's bottom approaches to that of a conoid, and the ribands have a limited breadth, it is apparent that they cannot be applied to this convex furface without forming a double curve, which will be partly vertical and partly horizontal; fo that the vertical curve will increase by approaching the stem, and still more by drawing near the tlern-post. It is also evident, that by deviating from the middle line of the ship's length, as they approach the extreme breadth at the midship-frame, the ribands will also form an horizontal curve. The lowest of these, which is termined upon the flem and flern-post, at the height of the rifing line of the floor, and answers to the upper part of the floor-timber upon the midship-frame, is called the floor-riband. That which coincides with the wing-tranfom, at the height of the lower deck upon the midshipframe, is termed the breadth-riband; all the rest, which are placed between these two, are called intermediateribands. See SHIP-BUILDING.

RIBES, the CURRANT and GOOSEBERRY-BUSH, a genus of plants belonging to the pentandria class, and in the natural method ranking under the 36th order, Pomaceæ. See BOTANY Index; and for the method of cul-

tivating these fruits, see GARDENING.

RICAUT, or RYCAUT, SIR PAUL, an eminent English traveller, of the time of whose birth we find no account; but in 1661, he was appointed fecretary to the earl of Winchelfea, who was fent ambaffador extraordinary to the Ottoman Porte. During his continuance in that flation, he wrote, "The present State of the Ottoman empire, in three-books, containing the maxims of the Turkish policy, their religion, and military difcipline," London, folio, 1670. He afterwards refided II years as conful at Smyrna, where, at the command of Charles II. he composed " The present state of the Greek and Armenian Churches, anno Christi 1678." On his return, Lord Clarendon being appointed lordlicutenant of Ireland, made him his principal fecretary for Leinster and Connaught; King James II. knighted him; and made him one of the privy council in Ire-

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the notes. Or it may be defined more generally, the land, and judge of the court of admiralty; all which Ricant he held to the Revolution. He was employed by King William as resident at the Hanse-towns in Lower Saxony, where he continued for ten years; but being worn out with age and infirmities, he obtained leave to return in 1700, and died the fame year. Ricaut continued " Knolles's Hittory of the Turks," and " Platina's Lives of the Popes;" besides which, there are some other productions under his name.

RICCIA, a genus of plants of the natural order of alga, and belonging to the cryptogamia class. See Bo-

TANY Index.

RICE. See ORYZA. " Rice bras (fays Mr Marf- Hillory of den) whilst in the husk, is in Indian called paddee, and Sumatra, affumes a different name in each of its other various p. 60% states. We observe no distinction of this kind in Europe, where our grain retains through all its flages, till it becomes flour, its original name of barley, wheat, or oats. The following, belide many others, are names applied to rice, in its different stages of growth and preparation; paddee, original name of the feed: coffay, grain of last feafon : bunnee, the plants before removed to the fawoors: bras, or bray, rice, the hufk of the paddee, being taken off: charroop, rice cleaned for boiling: naffce, boiled rice: peerang, yellow rice: jambar,

a fervice of rice, &c.

Among people whose general objects of contemplation are few, those which do of necessity engage their attention, are often more nicely discriminated than the fame objects among more enlightened people, whose ideas ranging over the extensive field of art and science. difdain to fix long on obvious and common matters. Paddee, in Sumatra and the Malay islands, is diffinguished into two forts; Laddang or upland paddee, and Sawoor or low-land, which are always kept feparate, and will not grow reciprocally. Of these the former bears the higher price, being a whiter, heartier, and better flavoured grain, and having the advantage in point of keeping. The latter is much more prolific from the feed, and liable to lefs rifk in the culture, but is of a watery fubstance, produces less increase in boiling, and is subject to a swifter decay. It is, however, in more common use than the former. Befide this general diffinction, the paddee of each fort, particularly the Laddang, prefents a variety of species, which, as far as my information extends, I shall enumerate, and endeavour to defcribe. The common kind of dry ground paddee: colour, light brown: the fize rather large, and very little crooked at the extremity. Paddee undaliong: dry ground: short round grain: grows in whorles or bunches round the flock. Paddee ebbass: dry ground: large grain : common. Paddee galloo : dry ground : light coloured : fearce. Paddee fennee : dry ground : deep coloured : fmall grain : fcarce. Paddee eioo : dry ground: light coloured. Paddee kooning: dry ground: deep yellow: fine rice: crooked and pointed. Paddee coocoor ballum : dry ground : much effcemed : light coloured: fmall, and very much crooked, refembling a dove's nail, from whence its name. Paddee pelang: dry ground : outer coat light brown ; inner red : longer, smaller, and less crooked than the coocoor ballum. Paddee fantong: the finest fort that is planted in wet ground: small, straight, and light coloured. In general it may be observed that the larger grained rice is the least efficiened, and the imaller and whiter the most

Rice "

Richardfon.

Rice. prized. In the Lampoon country they make a diffinetion of paddee crawang and paddee jerroo; the former of which is a month earlier in growth than the latter."

The following is the Chinese method of cultivating

rice, as it is given by Sir George Staunton

" Much of the low grounds in the middle and fouthern provinces of the empire are appropriated to the culture of that grain. It constitutes, in fact, the principal part of the food of all those inhabitants, who are not so indigent as to be forced to sublift on other and cheaper kinds of grain. A great proportion of the furface of the country is well adapted for the production of rice, which, from the time the feed is committed to the foil till the plant approaches to maturity, requires to be immerfed in a theet of water. Many and great rivers run through the principal provinces of China, the low grounds bordering on those rivers are annually inundated, by which means is brought upon their furface a rich mud or mucilage that fertilizes the foil, in the fame manner as Egypt receives its fecundative quality from the overflowing of the Nile. The periodical rains which fall near the fources of the Yellow and the Kiang rivers, not very far diffant from those of the Ganges and the Burumpooter, among the mountains bounding India to the north, and China to the west, often swell those should have fallen on the plains through which they afterwards flow.

" After the mud has lain some days upon the plains in China, preparations are made for planting them with rice. For this purpose, a finall piece of ground is inclosed by a bank of clay; the earth is ploughed up; and an upright harrow, with a row of wooden pins in the lower end, is drawn lightly over it by a buffalo. The grain, which had previously been steeped in dung diluted with animal water, is then fown very thickly upon it. A thin sheet of water is immediately brought over it, either by channels leading to the spot from a fource above it, or when below it by means of a chain pump, of which the use is as familiar as that of a hoe to every Chinese husbandman. In a few days the remainder of the ground intended for cultivation, if fliff, is ploughed, the lumps broken by hoes, and the furface levelled by the harrow. As foon as the shoots have attained the height of fix or feven inches, they are plucked up by the roots, the tops of the blades cut off, and each root is planted separately, sometimes in small furrows turned with the plough, and fometimes in holes made in rows by a drilling flick for that purpofe. The roots are about half a foot afunder. Water is brought over them a fecond time. For the convenience of irrigation, and to regulate its proper ion, the rice fields are fubdivided by narrow ridges of clay, into fmall inclosures. Through a channel, in each ridge, the water is conveyed at will to every subdivision of the field. As the rice approaches to maturity, the water, by evaporation and abforption, difappears entirely; and the crop, when ripe, covers dry ground. The first crop or harvest, in the fouthern provinces particularly, happens towards the end of May or beginning of June. The instrument for reaping is a finall fickle, dentated like a faw, and crooked. Neither carts nor cattle are used to carry the fleaves off from the foot where they were reaped; but they are placed regularly in frames, two of which, suspended at the extremities of a bambuo

pole, are carried across the shoulders of a man, to the place intended for difengaging the grain from the items which had supported it. This operation is performed, not only by a flail, as is customary in Europe, or by cattle treading the corn in the manner of other Orientalifts, but fometimes also by Rriking it against a plank fet upon its edge, or beating it against the fide of a large tub feolloped for that purpofe; the back and fides being much higher than the front, to prevent the grain from being disperfed. After being winnowed, it is carried to the granary.

" To remove the fkin or hufk of rice, a large flrong earthen vessel, or hollow stone, in form fomewhat like that which is used elsewhere for filtering water, is fixed firmly in the ground; and the grain, placed in it, is struck with a conical stone fixed to the extremity of a lever, and cleared, fometimes indeed imperfectly, from the hufk. The flone is worked frequently by a perion treading upon the end of the lever. The fame object is attained also by passing the grain between two flat flones of a circular form, the upper of which turns round upon the other, but at fuch a diffance from it as not to break the intermediate grain. The operation is performed on a large scale in mills turned by water; the axis of the wheel carrying feveral arms, which, by firiking upon the ends of levers, raife them in the fame manner as is done by treading on them. Sometimes twenty of these levers are worked at once. The thraw from which the grain has been dilengaged is cut chiefly into chaff, to ferve as provender for the very few cattle employed in the Chinete husbandry.

"The labour of the first crop being finished, the ground is immediately prepared for the reception of fresh seeds. The first operation undertaken is that of pulling up the stubble, collecting it into fmall heaps, which are burnt, and the after feattered upon the field. The former processes are afterwards renewed. The fecond crop is generally ripe late in Oscher or early in November. The grain is treated as before; but the flubble is no longer burnt. It is turned under with the plough, and left to putrify in the earth, This, with the ilime brought upon the ground by inundation, are the only manures usually employed in the culture of

rice."

Rice is recommended as the best corrective of forit flour, of which there is a great quantity in Scotland every year, and of course a great deal of unpleasant and unwholesome bread. The writer of the paper alluded to directs ten pounds of flour and one pound of ground rice, with the usual quantity of yest, to be placed for about two hours before a fire, and then formed into bread in the common way. This addition of rice, befides correcting the bad qualities of the damaged flour, adds, he favs, much to its nutriment: and he is undoubtedly right; for the flour of rice, though very nutritious, is fo day, that it is difficult to make bread of it by it-

RICE-Bird. See ORYZIVORA, CRNITHOLOGY RICE Bunting. See EMBERIZA, Index. RICHARD I. II. and III. kings of England. See

RICHARDIA, a genus of plants belonging to the hexandria clais, and in the natural method ranking under the 47th order, Stellata. See BOTAN's Index.

RICHARDSON, SAMULI, a celebrated English

ionimental

K Andia fewimental poycl-writer, born in 1688, was bied to the business of a printer, which he exercised all his life with eminence. Though he is said to have understood no language but his own, yet he acquired great reputation by his three epittolary novels, entitled Pamela, Clariffa, and Sir Charles Grandison; which show an uncommon knowledge of human nature. His purpofe being to promote virtue, his pictures of moral excellence are by much too highly coloured; and he has deferibed his favourite characters fuch rather as we might with them to be, than as they are to be found in reality. It is also objected by some, that his writings have not always the good effect intended : for that, inflead of improving natural characters, they have fafbioned many artificial ones; and have taught delicate and refined ladies and gentlemen to despile every one but their own felf-exalted persons. But after all that can be urged of the ill effects of Mr Richardson's novels on weak minds, eager to adopt characters they can only burlefque; a fenfible reader will improve more by fludying fuch models of perfection, than of those nearer to the natural flandard of human frailty, and where those frailties are artfully exaggerated so as to fix and misemploy the attention on them. A stroke of the pally carried off Mr Richardson, after a few days illthese, upon the 4th of July 1761. He was a man of fine parts, and a lover of virtue; which, for aught we have ever heard to the contrary, he showed in his life and convertation as well as in his writings. Befides the works above mentioned, he is the author of an Afop's Faples, a Tour through Britain, 4 vols, and a volume of Familiar Letters upon business and other fubiects. He is faid from his childhood to have delighted in letter writing; and therefore was the more eafily led to throw his romances into that form; which, if it enlivens the history in some respects, yet lengthens it with uninteresting prate, and formalities that mean nothing, and on that account is fometimes found a little

The most eminent writers of our own country, and even of foreign parts, have paid their tribute to the transcendant talents of Mr Richardson, whose works have been published in almost every language and country of Europe. They have been greatly admired, notwithstanding every diffimilitude of manners, or every disadvantage of translation. The celebrated M. Diderot, speaking of the means employed to move the passions, in his Essay on Dramatic Poetry, mentions Bichardson as a perfect master of that art: " How firiking (fays he), how pathetic, are his descriptions! His personages, though filent, are alive before me; and of those who speak, the actions are still more affecting than the words,"-The femous John-James Rousseau, fpeaking, in his letter to M. d'Alembert, of the novels of Richardson, afferts, " that nothing was ever written equal to, or even approaching them, in any language," -Mr Aaron Hill calls his Pamela a " delightful nursery of virtue."-Dr Warton speaks thus of Clementina: " Of all reprefentations of madnels, that of Clementina, in the Hiftory of Sir Charles Grandison, is the most deeply interesting. I know not whether even the madness of Lear is wrought up, and expressed, by so many little strokes of nature and passion. It is absolute pedantry to prefer and compare the madness of Orestes in Luripides to this of Clementina."-Dr Johnfon, in his Introduction to the 97th number of the Richards Rambler, which was written by Mr Richardion, obferves, that the reader was indebted for that day's entertainment to an author, " from whom the age has received greater favours, who has enlarged the knowledge of human nature, and taught the passions to move at the command of virtue;" and, in his Life of Rowe, he favs. " The character of Lothario feems to have been expanded by Richardton into that of Lovelace; but he has excelled his original in the moral effect of the fiction. Lothario, with gaiety which cannot be hated, and bravery which cannot be despised, retains too much of the foectator's kindness. It was in the power of Richardson alone to teach us at once effects and detellation; to make virtuous refentment overpower all the benevolence which wit, and elegance, and courage, naturally excite; and to lose at last the hero in the villain."-Dr Young very pertinently observed, that Mr Richardson, with the mere advantages of nature, improved by a very moderate progress in education, flruck out at once, and of his own accord, into a new province of writing, in which he fucceeded to admiration. And what is more remarkable, that he not only began, but finished, the plan on which he set out, leaving no room for any one after him to render it more complete: and that not one of the various writers that have ever fince attempted to imitate him, have in any respect equalled, or at all approached near him. This kind of romance is peculiarly his own; and " I consider him (continues the doctor) as a truly great natural genius; as great and supereminent in his way as Shakefpeare and Milton were in theirs."

RICHARDSON, Jonathan, a celebrated painter of heads, Walhale's was born about the year 166 c, and against his inclination Anecastes was placed by his father-in-law apprentice to a scrivener, 'f Painting with whom he lived fix years; when obtaining his free- in England. dom by the death of his mafter, he followed the bent of his disposition, and at 20 years old became the disciple of Riley; with whom he lived four years, whose

niece he married, and of whose manner he acquired enough to maintain a folid and lafting reputation, even during the lives of Kneller and Dahl; and to remain at the head of the profession when they went off the

There is strength, roundness, and boldness in his colouring; but his men want dignity, and his women grace. The good fense of the nation is characterised in his portraits. You fee he lived in an age when neither enthusiasm nor servility were predominant. Yet with a pencil fo firm, possessed of a numerous and excellent collection of drawings, full of the theory, and profound in reflections on his art, he drew nothing well below the head, and was void of imagination. His attitudes, draperies, and back-grounds, are totally infipid and unmeaning; fo ill did he apply to his own practice the fagacious rules and hints he bestowed on others. Though he wrote with fire and judgement, his paintings owed little to either. No man dived deeper into the inexhaustible stores of Raphael, or was more smitten with the native luftre of Vandyek. Yet though capable of tafting the elevation of the one and the elegance of the other, he could never contrive to fee with their eyes, when he was to copy nature himfelf. One wonders that he could comment their works fo well, and imitate them fo little.

Richardson. He quitted business, himself some years before his death; but his temperance and virtue contributed toprotract his life to a great length in the full enjoyment of his understanding, and in the felicity of domestic friendthip. He had had a paralytic stroke that affected his arm, yet never disabled him from his customary walks and exercise. He had been in St James's Park, and died fuddenly at his house in Queen's fourre on his return home, May 28. 1745, when he had paffed the 85th year of his age. He left a fon and four daughters, one of whom was married to kis disciple Mr Hudfon, and another to Mr Grigfon an attorney. The tafte and learning of the fon, and the harmony in which he lived with his father, are visible in the joint works they composed. The father in 1719 published two discourles: 1. An Etlay on the whole Art of Criticism as it relates to Painting; 2. An Argument in behalf of the Science of a Connoisseur; bound in one volume octavo. In 1722 came forth An Account of fome of the statues, bas-reliefs, drawings, and pictures, in Italy, &c. with Remarks by Mr Richardson, senior and juni-or. The son made the journey; and from his notes, letters, and observations, they both at his return compiled this valuable work. As the father was a formal man, with a flow, but loud and fonorous voice, and, in truth, with some affectation in his manner; and as there is much fingularity in his flyle and expression, these peculiarities (for they were fcarcely foibles) ftruck fuperficial readers, and between the laughers and the envious the book was much ridiculed. Yet both this and the former are full of matter, good fense, and instruction: and the very quaintness of some expressions, and their laboured novelty, show the difficulty the author had to convey mere visible ideas through the medium of language. Those works remind one of Cibber's inimitable treatife on the stage: when an author writes on his own profession, feels it profoundly, and is sensible his readers do not, he is not only excufable, but meritorious, for illuminating the fubject by new metaphors or bolder figures than ordinary. He is the coxcomb

that fneers, not he that instructs, in appropriated dic-

If these authors were censured when conversant within their own circle, it was not to be expected that they would be treated with milder indulgence when they ventured into a filler region. In 1734, they publithed a very thick oftavo, containing explanatory notes and remarks on Milton's Paradife Lott, with the life of the author, and a discourse on the poem. Again were the good fenfe, the judicious criticisms, and the fentiments that broke forth in this work, forgotten in the fingularities that diftinguish it. The father having faid in apology for being little converfant in classic literature, that he bad looked into them through his fon, Hogarth, whom a quibble could furnish with wit, drew the father peeping through the nether end of a telefcope, with which his fon was perforated, at a Virgil aloft on a shelf. Yet how forcibly Richardson entered into the spirit of his author, appears from his comprehensive expression, that Milton was an ancient, born two thousand years after his time. Richardson, however, was as incapable of reaching the fublime or harmonious in poetry, as he was in painting, though so capable of illustrating both. Some specimens of verse that he has given us here and there in his works, excite no curiofi-

ty for more, though he informs us in his Milton, that Richardson if painting was his wife, poetry had been his fecret concubine. It is remarkable, that another commentator Rich of Milton has made the fame confession.

- Sunt et milii carmina, me quoque dicunt Vatem paftores-

favs Dr Bentley. Neither the doctor nor the painter add fed non ego credulus illis, though all their readers are ready to supply it for both. Besides his pictures and commentaries, we have a few etchings by his hand, particularly two or three of Milton, and his own head. The fale of his collection of drawings, in February 1747, lasted 18 days, and produced about 2060l. his pictures about 7001. Hudfon his fon-in-law bought many of the drawings.

RICHELET, CESAR PETER, a French writer, born in 1631 at Chemin in Champagne. He was the friend of Patru and Ablancourt; and like them applied himfelf to the study of the French language with fuccefs. He compiled a dictionary of that language, full of new and useful remarks; but exceptionable, as containing many fatirical reflections and obscenities. The best edition, is that of Lyons, 3 vols folio, 1728. He also collected a fmall dictionary of rhymes, and composed fome other pieces in the grammatical and critical way.

He died in 1608.

RICHES, a word used always in the plural number, means wealth, money, possession, or a splendid sumptuous appearance. When used to express the fortune of private persons, whether patrimonial or acquired, it fignifies opulence; a term which expresses not the enjoyment, but the possession, of numerous superfluities .-The riches of a state or kingdom expresses the produce of industry, of commerce, of different incorporated bodies, of the internal and external administration of the principal members of which the fociety is composed, &c.

Our Saviour fays, that it is more easy for a camel to go through the eye of a needle, than for a rich man to enter the kingdom of heaven; and we find, in fact, that riches frequently bring along with them a degree of inattention, lukewarmness, and irreligion, such as sufficiently confirms the divine affertion; which is merely a general truth, and which by no means offerts the absolute impossibility of being virtuous and rich at the same time. For as the ancient philosophers wisely taught, riches, confidered in themselves, and abstractedly from the bad purpofes to which they may be applied, are not necessarily incompatible with virtue and wisdom. They are indeed absolutely indifferent; in good hands they will be useful, and promote the cause of truth, virtue, and humanity; and in bad hands they are the fource of much mischief; on the one hand they confer the power of doing much good, and on the other they are equally powerful in doing ill.

To men, however, whose principles of virtue are not fufficiently founded, riches are unquestionably a dangerous and feducing bait; and as the ancients rightly taught, they are to the greatest number of men, in an infinite variety of circumstances, a powerful obstacle to the practice of moral virtues, to the progress of truth, and a weight which prevents them from rifing to that degree of knowledge and perfection of which human na-ture is capable. They multiply without ceafing the occasions of vice, by the facility which they give to far.

Riches, tisfy a multitude of irregular passions, and to turn at Richlieu length those who are attached to them from the road of virtue, and from the defire of inquiring after truth.

It is this which Seneca means to express, when he fays, " that riches in a vast number of cases have been a great obstacle to philosophy; and that, to enjoy freedom of mind necessary for study, a man must live in poverty, or as if he were poor. Every man (adds he) who withes to lead a pleafant, tranquil, and fecure life, must avoid, as much as possible, the deceitfulness of riches, which are a bait with which we allow ourselves to be taken as in a fnare, without afterwards having the power to extricate ourselves, being so much the more unhappy, that we believe we possels them, while, on the contrary, they tyrannize over us." Senec. Epifl.

17. and Epift. 8.

The wife man (fays the same author in another place) does not love riches to excess, but he would not choose wholly to diveit himself of them; he does not receive them into his foul, but into his house; he is careful of them, and employs them for the purpose of opening a wide field for virtue, and of making it appear in all its fplendor. Who can doubt that a wife man has not more occasions of displaying the elevation and greatness of his mind when he is possessed of riches than when he labours under indigence, fince, in the last condition, he can exercise only one virtue, namely, refignation; whereas, riches give him an opportunity of displaying, in their greatest lustre, the virtues of temperance, liberality, diligence, regularity, and magnifi-cence. There is no occasion, then, to prohibit philofophers from the use of wealth, or to condemn wildom to poverty. The philosopher may possess the greatest riches, provided he has not employed force or shed blood in acquiring them; provided he has not gained them by unjust or illegal means; in a word, provided the use which he makes of them be as pure as the fource from which they were derived, and no person (the envious excepted) regretting his poffession; he will not refuse the kindness of fortune, and will enjoy, without shame or pride, the wealth acquired by honest meants; he will have more reason to glory, if, after exposing his riches to the view of the whole world, he can defire any person to carry away the reward of treachery or the fruits of oppression. If, after these words, his riches continue undiminished, this man is truly great, and worthy to be rich. If he has not allowed to enter into his poffession the smallest piece of money gained by unwarrantable means, neither will he refuse the greatest riches, which are the blessings of fortune, and the fruit of virtue : if he can be rich, he will choose to be so, and he shall have riches; but he will regard them as bleffings of uncertain poffession, and of which he may be every moment deprived; he will not permit them to be a load to himself or to others; he will give them to the good, or to those whom he would make good; but he will give them with the nicest wifdom, taking care always to distribute them to the most worthy, and to those who remember that they must give an account, as well of the wealth which they receive from heaven, as of the purpoles to which it is applied." Senec. de Vita Beata, cap. 21, 22, & 23.

RICHLIEU, JOHN ARMAND DU PLESSIS DE, cardinal of Richlieu and Fronsac, bithop of Lucon, &c. was born at Paris in 1585. He was of excellent parts;

and at the age of 22 had the address to obtain a dispen- RI-blieu, fation to enjoy the bishopric of Lucon in 1607. Re- Ricinus turning into France, he applied himself in a particular manner to the function of preaching; and his reputation this way procured him the office of almoner to the queen Mary de Medicis. His abilities in the management of affairs advanced him to be secretary of state in 1616; and the king foon gave him the preference to all his other secretaries. The death of the marquis d'Ancre having produced a revolution in frate affairs, Richlieu retired to Avignon; where he employed himfelf in composing books of controverly and piety. The king having recalled him to court, he was made a cardinal in 1622; and, two years after, first minister of state, and grand master of the navigation. In 1626, the isle of Rhée was preserved by his care, and Rochelle taken, having stopped up the haven by that famous dyke which he ordered to be made there. He accompanied the king to the fiege of Cazal, and contributed not a little to the railing of it in 1629. He also obliged the Hugue nots to the peace at Alets, which proved the ruin of that party; he took Pamerol, and fuccoured Cazal befieged by Spinola. In the mean time the nobles found fault with his conduct, and perfuaded the king to difcard him. The cardinal, for his part was unmoved with it; and by his reasonings overthrew what wasthought to be determined against him; fo that, instead of being difgraced, he from that moment became more powerful than ever. He punished all his enemies in the fame manner as they would have had him fuffer; and the day which produced this event, fo glorious to Cardinal Richlieu, was called the day of dupes. This ableminister had from thenceforwards an ascendancy over the king's mind; and he now refolved to humble the exceffive pride of the house of Austria. For that purpose he concluded a treaty with Gustavus Adolphus king of Sweden, for carrying the war into the heart of Germany. He also entered into a league with the duke of Bavaria; secured Lorrain; raised a part of the princes of the empire against the emperor; treated with the Dutch to continue the war against Spain; favoured the Catalans and Portuguese till they shook off the Spanish yoke; and, in thort, took fo many different measures, that he accomplished his defign; and after having carried on the war with fuccess, was thinking of concluding it by a peace, when he died at Paris on the 4th of December 1642, aged 58. He was interred in the Sorbonne, where a magnificent maufoleum is erected to his memory. This great politician made the arts and sciences flourish; formed the botanical garden at Paris, called the king's garden; founded the French academy; eilablished the royal printing house; erected the palace afterwards called Le Palais Royal, which he prefented to the king; and rebuilt the Sorbonne with a magnificence that ap pears truly royal. Befides his books of controverly and piety, there go under the name of this minister, A Journal, in 2 vols 1 2mo; and a Political Testament, in 1 2mo; all treating of politics and state affairs. Cardinal Mazarine purfued Richlieu's plan, and completed many of the schemes which he had begun, but left unfi-

RICINUS, or PALMA CHRISTI, a genus of plants belonging to the monoccia class, and in the natural method ranking under the 38th order, Tricoccie. See Bo-TANY and MATERIA MEDICA todev.

RICKETS.

RICKETS, in Medicine. See there, N° 347. RICOCHET, in Gunnery, is when guns, howit-zers, or mortars, are loaded with finall charges, and elevated from 5 to 12 degrees, fo as to fire over the parapet, and the shot or shell rolls along the opposite rampart: it is called ricochet-firing, and the batteries are likewise called ricochet-batteries. This method of firing was first invented by M. Belidor, and first used at the fiege of Ath in 1697. This mode of firing out of mortars was first tried in 1723 at the military school at Strasbourg, and with fucceis. At the battle of Rofbach, in 1757, the king of Pruffia had feveral 6-inch mortars made with trunnions, and mounted on travelling-carriages, which fired obliquely on the enemy's lines, and amongst their horse, loaded with 8 ounces of powder, and at an elevation of one degree 1; minutes, which did great execution; for the shells rolling along the lines, with burning fules, made the stoutest of the enemy not wait for their burfting.

RICOTIA, a genus of plants, belonging to the tetradynamia class; and in the natural method ranking

under the 30th order Siliquofa. See BOTANY Index. RIDEAU, in Fortification, a finall elevation of earth, extending itself lengthwise on a plain; serving to cover

a camp or give an advantage in a post.

RIDEAU is fometimes also used for a trench, the earth of which is thrown up on its fide, to ferve as a pa-

rapet for covering the men. RIDGE, in Agriculture, a long piece of rifing land

between two furrows. See AGRICULTURE. RIDGLING, or RIDGEL, among farriers, &c. the

the male of any beast that has been but half gelt. RIDICULE, in matters of literature, is that species

of writing which excites contempt with laughter. The ridiculous, however, differs from the rifible, (fee RISIBLE). A rifible object produceth an emotion of laughter merely; a ridiculous object is improper as well as rifible; and produceth a mixed emotion, which is

vented by a laugh of derision or scorn.

Burlesque, though a great engine of ridicule, is not confined to that subject; for it is clearly distinguishable into burlefque that excites laughter merely, and burlesque that provokes derision or ridicule. A grave fabject in which there is no impropriety, may be brought down by a certain colouring so as to be rifible; which is the case of Virgil Travestie, and also the case of the Secchia Rapita; the authors laugh first, in order to make their readers laugh. The Lutrin is a bulefque poem of the other fort, laying hold of a low criticism, and triffing incident, to expose the luxury, indolence, and contentious spirit of a fet of monks. Boileau, the author, gives a ridiculous air to the fubject, by dreffing it in the heroic ftyle, and affecting to confider it as of the utmest dignity and importance. In a composition of this kind, no image profesfedly ludicrous ought to find quarter, because such images destroy the contrast; and accordingly the author shows always the grave face, and never once betrays a imile.

Though the burlefque that aims at ridicule produces its effects by elevating the ftyle far above the fubject, yet it has limits beyond which the elevation ought not to be carried: the poet, confulting the imagination of his readers, ought to confine himself to such images as are lively and readily apprehended : a ftrained elevation, foaring above an ordinary reach of fancy, makes

not a pleafant impression: the reader, satigued with Ridical's being always upon the firetch, is foon diffruited; and, if he persevere, becomes thoughtlets and indifferent .-Further, a fiction gives no pleafure unless it be painted in colours fo lively as to produce fome perception of reality; which never can be done effectually where the images are formed with labour or difficulty. For thefe reatons, we cannot avoid condemning the Batrachomusmachia, faid to be the composition of Homer: it is beyond the power of imagination to form a clear and lively image of frogs and mice acting with the dignity of the highest of our species; nor can we form a conception of the reality of fuch an action, in any manner fo dittinct as to interest our affections even in the slighteil degree.

The Rape of the Lock is of a character clearly diffin-

guifhable from those now mentioned; it is not properly

a burleique performance, but what may rather be term-

ed an heroi-comical poem: it treats a gay and familiar fubject with pleafantry, and with a moderate degree of dignity : the author puts not on a mask like Boileau, nor professes to make us laugh like Tassoni. The Rape of the Lock is a genteel species of writing, less strained than those mentioned; and is pleasant or ludicrous without having ridicule for its chief aim; giving way, however, to ridicule, where it naturally arises from a particular character, fuch as that of Sir Plume. Addifon's Spectator \*, upon the exercise of the fan, is extremely gay and ludicrous, refembling in its subject the \* No 102. Rape of the Lock.

There remains to show, by examples, the manner of treating subjects so as to give them a ridiculous appear-

Il ne dit jamais, je vous donne, mais, je vous prete le Moliere. bon jour.

Orleans. I know him to be valiant.

Conflable. I was told that by one that knows him better than you.

Orleans. What's be ?

Constable. Marry, he told me fo himself; and he faid, Herry V. Shake beare. he car'd not who knew it. He never broke any man's head but his own, and that was against a post when he was drunk.

Millamont. Sententious Mirabel! prithee don't look with that violent and inflexible wife face, like Solomon at the dividing of the child in an old tapetlry-hanging.

A true critic, in the perufal of a book, is like a dog at a feast, whose thoughts and stomach are wholly set upon what the guests fling away, and consequently is apt to fnarl most when there are the fewest bones.

Tale of a Tub.

In the following instances, the ridicule arises from abfurd conceptions in the persons introduced.

Mascarille. Te souvient-il, vicomte, de cette demilune, que nous emportames sur les enemis au siege d'A-

Jodelet. Que veux-tu dire avec ta demi-lune? c'etoit bien une lune toute entiere.

Moliere, les Precieuses Ridicules, sc. 11.

Slander. I came yonder at Eaton to marry Mrs Anne Page; and she's a great lubberly boy.

Rillionle.

Page. Upon my life then you took the wrong-Stander. What need you tell me that? I think fo when I took a boy for a girl: if I had been married to him, for all he was in woman's apparel, I would not Merry Wives of Windfor. have had him.

Valentine. Your bleffing. Sir.

Sir Sampson. You've had it already, Sir; I think I fent it you to-day in a bill for four thouland pounds; a great deal of money, brother Forefight.

Fresight. Ay, indeed, Sir Sampson, a great deal of money for a young man; I wonder what he can do with

Love for Love, act ii, fc. 7. Millament. I paufeate walking: 'tis a country diverfion; I lothe the country, and every thing that relates

to it. Sir Wifull. Indeed, hah! look ye, look ye, you do? nay, 'tis like you may --- here are choice of paf-

times here in town, as plays and the like; that must be confest'd, indeed. Millament. Ah l'etourdie! I hate the town too.

Sir Wufull. Dear heart, that's much—hah! that you should hate 'em both! hah! 'tis like you may; there are some cannot relish the town, and others can't away with the country—'is like you may be one of Way of the World, act iv. fc. 4. thefe, Coufin.

Lord Froth. I affure you, Sir Paul, I laugh at nobody's jeits but my own, or a lady's: I affure you, Sir

Brilk. How? how, my Lord? what, affront my wit? Let me perish, do I never say any thing worthy to be

laugh'd at ?

Lord Froth. O foy, do'nt misapprehend me, I don't fay fo, for I often smile at your conceptions. But there is nothing more unbecoming a man of quality than to laugh; 'tis fuch a vulgar expression of the passions! every body can laugh. Then especially to laugh at the jest of an inferior person, or when any body elie of the fame quality does not laugh with one; ridiculous! To be pleas'd with what pleases the crowd! Now, when I haugh I always laugh alone.

Double Dealer, act i. fc. 4.

So fharp-fighted is pride in blemishes, and so willing to be gratified, that it takes up with the very flighteft improprieties: fuch as a blunder by a foreigner in speaking our language, especially if the blunder can bear a sense that reflects on the speaker :

Quickly. The young man is an honest man. Caius. What shall de honest man do in my closet? dere is no honest man dat shall come in my closet. Merry Wives of Windfor.

Love speeches are finely ridiculed in the following paffage:

Quoth he, My faith as adamantine, As chains of deftiny, I'll maintain; True as Apollo ever fpoke, Or oracle from heart of oak; And if you'll give my flame but vent, Now in close hugger-mugger pent, And thine upon me but benignly, With that one and that other pigfney, The fun and day shall sooner part Than love, or you, shake off my heart; The fun, that shall no more dispense His own, but your bright influence : I'll carve your name on barks of trees. With true love knots and flourishes; That shall infuse eternal spring, And everlasting flourishing: Drink every letter on't in flum, And make it brifk champaigne become. Where'er you tread, your foot shall fet The primrofe and the violet; All fpices, perfumes, and fweet powders Shall borrow from your breath their odours ; Nature her charter shall renew And take all lives of things from you; The world depend upon your eye, And, when you frown upon it, die, Only our loves shall still furvive. New worlds and natures to outlive ; And, like to herald moons, remain

Hudibras, part 2. canto 1.

Those who have a talent for ridicule, which is feldom united with a taffe for delicate and refined beauties, are quick fighted in improprieties; and these they eagerly grasp, in order to gratify their favourite propenfity. Persons galled are provoked to maintain that ridicule is improper for grave subjects. Subjects really grave are by no means fit for ridicule; but then it is urged against them, that, when called in question whether a certain subject be really grave, ridicule is the only means of determining the controverly. Hence a celebrated question. Whether ridicule be or be not a test of truth ?

On one fide, it is observed, that the objects of ridicule are falsehood, incongruity, impropriety, or turpitude of certain kinds: but as the object of every excited passion must be examined by reason, before we can determine whether it be proper or improper; fo ridicule must, apparently at least, establish the truth of the improprieties designed to excite the passion of contempt. Hence it comes in to the aid of argument and reason. when its impressions on the imagination are confistent with the nature of things; but when it strikes the fancy and affections with fictitious images, it becomes the instrument of deceit. But however ridicule may impress the idea of apparent turpitude or falfehood in the imagination, yet fill reason remains the supreme judge; and thus ridicule can never be the final test or touchstone of truth and falsehood.

On the other fide, it is contended that ridicule is not a subject of reasoning, but of sense or taste; (see and compare the articles RISIBLE and CONGRUITY. Stating the question, then, in more accurate terms, Whether the fense of ridicule be the proper test for diffinguishing ridiculous objects from what are not fo? they proceed thus: No person doubts that our sense of beauty is the true test of what is beautiful; and our sense of grandeur, of what is great or fublime. Is it more doubtful whether our fense of ridicule be the true test of what is ridiculous? It is not only the true test, but indeed the only test; for this subject comes not, more than beauty or grandeur, under the province of reason. If any subject, by the influence of fashion or custom, have acquired a degree of veneration to which naturally

Ridicule, it is not entitled, what are the proper means for wiping Riding. off the artificial colouring, and displaying the subject in its true light? A man of true tafte fees the subject without difguise; but if he hesitate, let him apply the test of ridicule, which feparates it from its artificial connections, and exposes it naked with all its native improprieties .- But it is urged, that the gravest and most ferious matters may be let in a ridiculous light. Hardly fo; for where an object is neither rifible nor improper, it lies not open in any quarter to an attack from ridicule.

> RIDING, in general, fignifies the being carried along on any vehicle.

RIDING on horseback. See Horsemanship.

RIDING, in Medicine. During this exercise all the viscera are shaken, and pressed against each other; at the fame time the pure air acts with a greater force on the lungs. Weakly perfons, or those whose stomachs are infirm, should, however, be cautious of riding before their meals are fomewhat digested.

RIDING, in naval affairs, is the state of a ship's being setained in a particular station, by means of one or more "cables with their anchors, which are for this purpose funk into the bottom of the fea, &c. in order to prevent the veffel from being driven at the mercy of the wind or current .- A rope is faid to ride, when one of the turns by which it is wound about the capstern or windlass lies over another, so as to interrupt the operation of

RIDING Athwart, the position of a ship which lies across the direction of the wind and tide, when the former is fo strong as to prevent her from falling into the

current of the latter.

RIDING between the Wind and Tide, the fituation of a veiled at anchor, when the wind and tide act upon her in direct opposition, in such a manner as to destroy the effort of each other upon her hull; fo that she is in a manner balanced between their reciprocal force, and rides without the least strain on her cables. When a ship does not labour heavily, or feel a great strain when anchored in an open road or bay, she is said to ride easy. On the contrary, when the pitches violently into the fea, fo as to itrain her cables, masts, or hull, it is called riding hard, and the veffel is termed a bad roader. A fhip is rarely faid to ride when the is fastened at both the ends, as in a harbour or river; that fituation being comprehended in the article Mooring.

RIDING, a district visited by an officer .- Yorkshire is divided into three ridings, viz. the east, west, and north ridings. In all indictments in that county, both the

town and riding must be expressed. RIDING, as connected with gardening, and susceptible

of embellishment. See GARDENING.

Obferva-Modern Gardening, p. 227, &cc.

A riding, though in extent differing fo widely from a garden, yet agrees with it in many particulars: for, exclusive of that community of character which results Decorations from their being both improvements, and both deftined of a riding. to pleasure, a closer relation arises from the property of a riding, to extend the idea of a feat, and appropriate a whole country to the mansion; for which purpose it must be distinguished from common roads, and the marks of diffinction must be borrowed from a garden. Those which a farm or a park can fupply are faint and few; but whenever circumstances belonging to a garden occur, they are immediately received as evidence of the domain. The species of the trees will often be deci- Riding. five: plantations of firs, whether placed on the fides of the way, or in clumps or woods in the view, denote the neighbourhood of a feat : even limes and horse-chesnuts are not indifferent; for they have always been frequent in improvements, and rare in the ordinary scenes of cultivated nature. If the riding be carried through a wood, the shrubs, which for their beauty or their fragrance have been transplanted from the country into gardens, such as the fweet-briar, the viburnum, the euonymus, and the woodbine, should be encouraged in the underwood; and to these may be added several which are still peculiar to fhrubberies, but which might cafily be transferred to the wildest coverts, and would require no further

Where the species are not, the disposition may be particular, and any appearance of defign is a mark of improvement. A few trees standing out from a hedgerow, raife it to an elegance above common rufticity: and still more may be done by clumps in a field; they give it the air of a park. A close lane may be decorated with plantations in all the little vacant spaces: and even the groups originally on the fpot (whether it be a wood, a field, or a lane), if properly selected, and those only left which are elegant, will have an effect ; though every beauty of this kind may be found in nature, yet many of them are feldom feen together, and never unmixed. The number and the choice are fymptoms of defign.

Another fymptom is variety. If the appendages of the riding be different in different fields, if in a lane, or a wood, fome diffinguishing circumstance be provided for every bend; or when, carried over an open expofure, it winds to feveral points of view; if this be the conduct throughout, the intention is evident, to amuse the length of the way : variety of ground is also a characteristic of a riding, when it seems to have proceeded from choice; and pleafure being the pursuit, the changes of the fcene both compensate and account for the circuity.

But a part undistinguished from a common road, fucceeding to others more adorned, will by the contrast alone be fometimes agreeable; and there are beauties frequent in the high-way, and almost peculiar to it, which may be very acceptable in a riding: a green lane is always delightful; a paffage winding between thickets of brambles and briars, fometimes with, and fometimes without a little fpring-wood rifing amongst them, or a cut in a continued fweep through the furze of a down or the fern of a heath, is generally pleasant. Nor will the character be absolutely lost in the interruption, it will soon be refumed, and never forgotten; when it has been once ftrongly impressed, very slight means will preserve the

Simplicity may prevail the whole length of the way when the way is all naturally pleafant, but especially if it be a communication between feveral spots, which in character are raifed above the rest of the country : A fine open grove is unufual, except in a park or a garden; it has an elegance in the disposition which cannot be attributed to accident, and it feems to require a degree of preservation beyond the care of mere husbandry. A neat railing on the edge of a steep which commands a prospect, alone diftinguishes that from other points of view. A building is still more

Of a vil-

it may be accommodated to the reception of company; for though a place to alight at interrupts the range of a riding, yet, as the object of an airing, it may often be acceptable. A fmall fpot which may be kept by the labour of one man, inclosed from the fields, and converted into a shrubbery or any other scene of a garden, will fometimes be a pleasing end to a short excusion from home : nothing fo effectually extends the idea of a feat to a diffance; and not being constantly vifited, it will always retain the charms of novelty and variety.

When a riding is carried along a high road, a kind of property may in appearance be claimed even there, by planting on both fides trees equidifiant from each other, to give it the air of an approach : regularity intimates the neighbourhood of a mansion. A village therefore feems to be within the domain, if any of the inlets to it are avenues: other formal plantations about it, and still more trivial circumstances, when they are evidently ornamental, fometimes produce and always corroborate fuch an effect; but even without raifing this idea, if the village be remarkable for its beauty, or only for its fingularity, a passage through it may be an

agreeable incident in a riding.

The same ground which in the fields is no more than rough, often feems to be romantic when it is the fite of a village; the buildings and other circumstances mark and aggravate the irregularity. To strengthen this appearance, one cottage may be placed on the edge of a fleep, and fome winding fleps of unhewn ftone lead up to the door; another in a hollow, with all its little ap-purtenances hanging above it. The polition of a few trees will fometimes answer the same purpose; a footbridge here and there for a communication between the fides of a narrow dip, will add to the character; and if there be any rills, they may be conducted fo as greatly to improve it.

A village which has not these advantages of ground, may, however, be beautiful; it is diftinguished by its elegance, when the larger intervals between the houses are filled with open groves, and little clumps are introduced upon other occasions. The church often is, it generally may be, made a picturesque object. Even the cottages may be neat and fometimes grouped with thickets. If the place be watered by a ffream, the croffings may be in a variety of pleafing defigns; and if a spring rise, or only a well for common use be funk by the fide of the way, a little covering over it may be contrived which shall at the same time be simple and pretty;

There are few villages which may not eafily be rendered agreeable. A finall alteration in a house will fometimes occasion a great difference in the appearance. By the help of a few triffing plantations, the objects which have a good effect may be shown to advantage, those which have not may be concealed, and fuch as are fimilar be difguifed. And any form which offends the eye, whether of ground, of trees, or of buildings, may fometimes be broken by the flightest circum lances, by an advanced paling, or only by a bench. Variety and beauty, in such a subject, are rather the effects of attention than expence.

But if the passage through the village cannot be pleafant; if the buildings are all alike, or fland in un-Vol. XVIII. Part I.

"Riding. firongly characteristic: it may be only ornamental, or meaning rows and fimilar fituations; if the place fur-Riding. nishes no opportunities to contrast the forms of dwellings with those of out-houses; to introduce trees and of the thickets; to interpose fields and meadows; to mix farms buildings with cottages; and to place the feveral objects in dif-defigned ferent politions: yet on the outlide even of fuch a vil-for objects lage there certainly is room for wood; and by that in a rida.g alone the whole may be grouped into a mass, which shall be agreeable when skirted by a riding; and still more so when seen from a distance. The separate farms in the fields, also, by planting some trees about them, or perhaps only by managing those already on the spot, may be made very interesting objects; or if a new one is to be built, beauty may be confulted in the form of the house, and the disposition of its appurtenances. Sometimes a character not their own, as the femblance of a castle or an abbey, may be given to them; they will thereby acquire a degree of confideration, which they cannot otherwise be entitled to: and objects to improve the views are fo important to a riding, that buildings must fometimes be erected for that purpose only: but they should be such as by an actual effect adorn or dignify the scene; not those little slight deceptions which are too well known to fucceed, and have no merit if they fail: for though a fallacy tometimes contributes to support a character, or suggests ideas to the imagination, yet in itself it may be no improvement of a scene; and a bit of turret, the tip of a fpire, and the other ordinary subjects of these frivo-lous attempts, are so insignificant as objects, that whether they are real or fictitious is almost a matter of indifference.

The fame means by which the prospects from a Of a garden riding are improved, may be applied to those from fimilar in a garden; though they are not effential to its charac-character ter, they are important to its beauty; and wherever to a ridingthey abound, the extent only of the range which commands them, determines whether they shall be seen from a riding or a garden. If they belong to the latter, that assumes in some degree the predominant properties of the former, and the two characters approach very near to each other : but still each has its peculiarities. Progress is a prevailing idea in a riding; and the pleafantness of the way is, therefore, a principal confideration; but particular fpots are more attended to in a garden; and to them the communications ought to be subordinate; their direction must be generally accommodated, their beauties sometimes facrificed, to the fituation and the character of the scenes they lead to; an advantageous approach to these must be preferred to an agreeable line for the walk; and the circumstances which might otherwise become it are misplaced, if they anticipate the openings: it should f metimes be contraffed to them; be retired and dark if they are fplendid or gry, and simple if they are richly adorned. At other times it may burst unexperhedly out upon them; not on account of the surprise, which can have its effect only once; but the impressions : e stronger by being sudden;

In a riding, the feeters are only the amufements of the way, through which it proceeds with at Popping: in a garden they are principal; and the subordination of the walk railes their importance. Every art, therefore, should be exerted to make them frem parts of the

Riding. place. Diffant prospects cannot be fo; and the alienation does not offend us; we are familiarized to it; the extent foroids every thought of a cloter connection; and if a continuation as preferred between them and the points which command them, we are fatisfied. But in our reach: they are not only beautiful in prospect, and we can perceive that the foots are delightful; but we with to examine, to inhabit, and to enjoy them. Every apparent impediment to that gratification is a disappointment; and when the fcenes begin beyond the opening, the confequence of the place is lowered: nothing within it engages our notice; it is an exhibition only of beauties, the property of which does not belong to it; and that idea, though indifferent in a riding, which is but a passage, is very disadvantageous to tuch a refidence as a garden. To obviate fuch an idea, the points of view should be made important; the objects within be appendages to those without; the epziations be removed or concealed; and large portions of the garden be annexed to the foots which are contiguous to it. The ideal boundary of the place is then carried beyond the scenes which are thus appropriated to it; and the wide circuit in which they lie, and the different politions in which they may be thown. afford a greater variety than can generally be found in any garden, the fcenery of which is confined to the in-

Deferment of Persfield

Persheld (A) is not a large place; the park contains about 300 acres; and the house stands in the midst of it. On the fide of the approach, the inequalities of the ground are gentle, and the plantations pretty; but nothing there is great. On the other fide, a beautiful lawn falls precipitately every way into a deep vale which shelves down the middle; the declivities are diversified with clumps and with groves; and a number of large trees straggle along the bottom. This lawn is encompaffed with wood; and through the wood are walks. which open beyond it upon those romantic scenes which farround the park, and which are the glory of Persfield. The Wve runs immediately below the wood: the river is of a dirty colour; but the shape of its course is very various, winding first in the form of a horfe-flue, then proceeding in a large fweep to the town of Chepflowe, and afterwards to the Severn. The banks are high hills; in different places fleep, bulging out, or hollow on the fides; rounded, flattened, or irregular at top; and covered with wood, or broken by rocks. They are fometimes feen in front; fometimes in perfpective; falling back for the paffage, or clofing behind the bend of the river; appearing to meet, rifing above, or shooting out beyond one another. The wood which incloses the lawn crowns an extensive range of these hills, which overlook all those on the opposite shore, with the country which appears above or between them; and winding themselves as the river winds, their fides, all rich and beautiful, are alternately exhibited; and the point of view in one foot becomes an object to the next.

In many places the principal feature is a continued rock, in length a quarter of a mile, perpendicular, high, and placed upon a height. To refemble ruins is common to rock ; but no ruin of any fingle fina fure was Riding. ever equal to thus enormous pile; it feems to be the ! remains of a city; and other tmailer heaps feattered about it appear to be fainter traces of the former extest, and itreagmen the fimilitude. It itretches along the brow which terminates the forest of Dean; the face of it is composed of immerse blocks or stone, but not ru, sed; the lop is pare and uneven, out not craggy; and from the fast of it, a declivity, covered with tincket, flopes gently dwards the Wye, but in one part is acruptly broken off by a ledge or rocks, of a different bue, and in a different direction. From the grouto it feems to rije immediately over a thick wood, which extends down a hill below the point of view, across the valley through which the Wye flows, and up the oppolite banks, hides the river, and continues without interruption to the bottom of the rock : from another leat it is feen by itfelf without even its bafe; it faces another. with all its appendages about it; and fometimes the fight of it is partially intercepted by trees, beyond which, at a distance, its long line continues on through all the openings between them.

Another capital object is the castle of Chepstone, a noble ruin of great extent; advanced to the very edge of a perpendicular rock, and to immediately rivetted into it, that from the top of the battlements down to the river feems but one precipice: the fame ivy which overforeads the face of the one, twincs and clusters among the fragments of the other; many towers, much of the walls, and large remains of the chapel, are flanding. Cluse to it is a most romantic wooden bridge, very ancient, very grotesque, at an extraordinary height above the river, and feeming to abut against the ruins at one end, and fome rocky hills at the other. The castle is so near to the alcove at Persheld, that little circumstances in it may be discerned; from other spots more distant, even from the lawn, and from a shrubbery on the fide of the lawn, it is distinctly visible, and always beautiful, whether it is feen alone, or with the bridge, with the town, with more or with less of the rich meadows which lie along the banks of the Wye, to its junction three miles off with the Severn. A long fweep of that river also, its red cliffs, and the fine rising country in the counties of Somerfet and Gloucester, generally terminate the prospect.

Vioft of the hills about Persfield are full of rocks; fome are intermixed with hanging woods, and either advance a little before them, or retire within them, and are backed, or overhung, or separated by trees. In the walk to the cave, a long fuccession of them is frequently feen in perspective, all of a dark colour, and with wood in the intervals between them. In other parts the rocks are more wild and uncouth; and fometimes they itand on the tops of the highest hills; at other times down as low as the river; they are homeobjects in one spot, and appear only in the back-ground of another.

The woods concur with the rocks to render the fcenes of Persheld romantic; the place everywhere abounds with them; they cover the tops of the hills; they hang on the steeps; or they fill the depths of the Riding vineys. In one place they front, in another they rife 'above, in another they fink below the point of view; Radley they are seen sometimes retiring beyond each other, and darkening as they recede; and fometimes an opening between two is closed by a third at a distance beyond them. A point, called the Lover's Leap, commands a continued furface of the thickest foliage, which overfpreads a vail hollow immediately underneath. Below the Chinese feat the course of the Wye is in the flape of a horfe-floe : it is on one fide included by a femicircular hanging wood; the direct fleeps of a table-hill thut it in on the other; and the great rock fills the interval between them : in the midtle of this rude scene lies the peninfula formed by the river, a mile at the least in length, and in the highest state of cultivation : near the ithimus the ground rics confiderably, and thence defeends in a broken furface, till it flattens to the water's edge at the other extremity. The whole is divided into corn fields and pattures; they are feparated by hedgerows, coppices, and thickets; open clumps and fingle trees stand out in the meadows; and houses and other buildings, which belong to the farms, are scattered amongst them; nature fo cultivated, farrounded by nature lo wild, compose a most lovely landicape toge-

> The communications between these several points are generally by close walks; but the covert ends near the Chinese seat; and a path is afterwards conducted through the upper park to a ruftic temple, which overlooks on one fide fome of the romantic views which have been described, and on the other the cultivated hills and vallevs of Monmouthshire. To the rude and magnificent feenes of nature now fucreeds a pleafant, fertile, and and beautiful country, divided into inclotures, not covered with woods, nor broken by rocks and precipices, but only varied by eafy fwells and gentle declivities. Yet the prospect is not tame; the hills in it are high; and it is bounded by a vast sweep of the Severn, which is here visible for many miles together, and receives in

its course the Wye and the Avon.

From the temple a road leads to the Windcliff, an eminence much above the reft, and commanding the whole in one view. The Wye runs at the foot of the hill; the peninfula lies just below; the deep bosom of the semicircular hanging wood is full in fight; over part of it the great rock appears; all its bale, all its accompaniments, are feen; the country immediately beyond it is full of lovely hillocks; and the higher grounds in the counties of Somerfet and Gloucester rife in the horizon. The Severn feems to be, as it really is, above Chepitowe, three or four miles wide; below the town it spreads almost to a fea; the county of Monmouth is there the hither shore, and between its beautiful hills appear at a great diffance the mountains of Brecknock and Glamorganshire. In extent, in variety, and grandeur, few prospects are equal to this. It comprehends all the noble scenes of Persheld, encompaffed by fome of the finest country in Britain. See

RIDLEY, NICHOLAS, bishop of London, and a martyr to the Reformation, was descended of an ancient family, and born in the beginning of the 16th century, at Wilmontswick in Northumberland. From the grammar-school at Newcastle upon Tyne, he was sent to Pembroke-hall in Cambridge, in the year 1518, where

he was supported by his uncle Dr Robert Ridley, fellow of Queen's college. In 1;22 he took his first degree in arts; two years after, was elected fellow; and, in 1525, he commenced mailer of arts. In 1527, having taken orders, he was fent by his nucle, for further improvement, to the Sorbonne at Paris; from thence he went to Louvain, and continued abroad till the year 1523. On his return to Cambridge, he was chosen under treasurer of the university; and, in 1533, was elected fenior proctor. He afterwards proceeded bachelor of divinity, and was chosen chaplain of the university, orator, and magister glomeriae. At this time he was much admired as a preacher and disputant. He lott his kind uncle in 1536; but was foon after patronifed by Dr Cranmer, archbithop of Canterbury, who made him his domestic chaplain, and presented him to the vicarage of Horne in East Kent; where, we are told, he preached the doctrine of the Reformation. In 1540, having commenced doctor of divinity, he was made king's chaplain; and in the fame year, was elected mafter of his college in Cambridge. Soon after, Ridley was collated to a prebend in the church of Canterbury; and it was not long before he was accused in the bishop's court, at the intligation of Bishop Gardiner, of preaching against the doctrine of the Six Articles. The matter being referred to Cranmer, Ridley was acquitted. In 1545, he was made a prebendary of Weitminster abbey; in 1547 was prefented, by the fellows of Pembroke-hail, to the living of Soham, to the diocele of Norwich; and the fame year was confecrated bishop of Rochester. In 15;0 he was translated to the see of London; in which year he was one of the commissioners for examining Bishop Gardiner, and concurred in his deprivation. In the year 1552, our prelate returning from Cambridge, unfortunately for himfelf, paid a visit to the Princels, afterward Queen Mary; to whom, prompted by his zeal for reformation, he expressed himself with too much freedom: for the was fearcely feated on the throne when Ridley was doomed a victim to her revenge. With Cranmer and Latimer he was burnt alive at Oxford, on the 16th of October 1555. He wrote, 1. A treatile concerning images in churches. 2. Brief declaration of the Lord's Supper. 3. Certain godly and comfortable conferences between Bishop Ridley and Mr Hugh Latimer, during their imprisonment. 4. A comparison between the comfortable doctrine of the Gospel and the traditions of the Popish religion; and other works.

RIDLEY, Dr Glofter, was of the fame family with the preceding. He was born at fea, in the year 1702, on board the Gloucester East Indiaman, from which circumitance he obtained his Christian name. He was educated at Winchester school, and afterwards obtained a fellowship at New College, Oxford. He paid his court to the muses at an early period, and laid the foundation of those folid and elegant acquisitions which afterwards diftinguished him fo eminently as a divine. historian, and poet. During a vacation in 1728, he joined with four friends in composing a tragedy called "The Fruitless Redress," each undertaking an act agreeably to a plan which they had previously concerted. It was offered to Mr Wilkes, but never acted, and is still in manuscript. Dr Ridley in his youth was extremely attached to theatrical performances. The Redrefs, and another called Jugurtha, were exhibited at Midhurst in Sussex, and the actors were chiefly the gentlemen who affifted him in their composition. We are informed that he played. Mark Anthony, Jaffier, Horatio, and Moneles, with very great applaule, which may be readily inferred from his graceful manner of speaking

in the pulpit.

During a great part of his life he had only the finall college hiving of Weftow in Norfolk, and that of Poplar in Middlefex, which was the place of his refidence. His college added to their forms years after, the donative of Romford in Effex, which left him little or no time for what he confidered as the necessary Rudies of his profession. Yet in this fituation he remained in the possession of the profession of and fatisfied with domestic felicity, and enjoyed the intimate friendship of some who were equally

diftinguished for worth and learning.

The eight fermons which he preached at Lady Moyer's Lecture in 1740 and 1741, were given to the public in 1742. In the year 1756 he was invited to go to Ireland as first chaplain to the duke of Bedford, but declined to accept of it. In the year 1763 he published the life of Bilhop Ridley, in 4to, by subscription, from the profits of which he was enabled to purchase 8001. in the public funds. In the concluding part of his life he lost both his fons, who were young men of confiderable abilities. The elder, called James, was author of Tales of the Genii, and some other literary performances; and his brother Thomas was fent as a writer to Madras by the East India Company, where he suddenly died of the small pox. In the year 1765 Dr Ridley published his review of Philips's Life of Cardinal Pole; and as a reward for his labours in this controversy, he was prefented, in 1768, by Archbishop Secker with a a rich prebend in the cathedral church of Salisbury; the only reward he received from the great during a long and useful life. He was at last worn out with infirmities, and died in 1774, leaving behind him a wife and four daughters. By his elegant epitaph, written by Bishop Lowth, we are informed that the university of Oxford, for his merits, conferred upon him the degree of D. D. the highest literary honour which that learned body has to bettow.

RIENZI, NICHOLAS GABRINI DE, one of the most fingular characters of the 14th century, was born at Rome, but it is not certainly known in what year. His father, as some affirm, was a vintner, but a miller according to others, and his mother was a laundress, yet they found means to give their fon a liberal education; and to a fine natural understanding he added uncommon application. He was well acquainted with the laws and enflows of nations; and had a vaft memory, which enabled him to retain much of Cicero, Valerius Maximus, Livy, the two Senecas, and in particular Cæfar's Commentaries, which he constantly perused. This extensive erudition proved the foundation of his future rife. He acquired the reputation of a great antiquarian, from the time he fpent among the infcriptions which are to be found at Rome, and these inspired him with exalted ideas of the liberty, the grandeur, and justice of the old Romans. He even perfuaded himfelf, and found means to perfuade others, that he should one day be the restorer of the Roman republic. The credulity of the people was powerfully encouraged and fivengthened by his advantageous stature, by the attractions of his countenance, and by that air of confequence which he could assume at pleasure. The joint energy of all these prepossessing

qualities made a deep and almost indelible impression Rienzi.

Nor was his fame merely confined to the vulgar, for he even ingratiated himself into the good opinion of many diffinguished personages belonging to the administration. The Romans chose him one of their deputies to Pope Clement VI. then at Avignon, the purport of whose mission was to persuade his holiness, that his abfence from the capital was inimical to its interest. His commanding eloquence and gay conversation charmed the court of Avignon, from which Rienzi was encouraged to tell the Pope, that the great men of Rome were public thieves, robbers, adulterers, and profligates, by whose example the most horrid crimes were functioned. This ill-timed freedom of speech made Cardinal Colonna his enemy, though the friend of genuine merit, because he thought that some of his family were abused by fuch a thundering philippic, in confequence of which Rienzi was difgraced, and fell into extreme mifery, vexation, and fickness, which, by being united with indigence, brought him to an hospital. But as the cardinal was compassionate, the offender was again brought before the Pope, who being informed that Rienzi was a good man, and the strenuous advocate of equity and justice, gave him higher proofs of his efteem and confidence than before, He was appointed apostolic notary, and fent back to Rome loaded with the effects of papal munificence.

The functions of this office he executed in fuch a manner as to become the idol of the people, whose affections he laboured to fecure by exclaiming against the vices of the great, rendering them as odious as possible, for which imprudent liberties he was dismissed from office. In this fituation of his affairs he endeavoured to kindle and keep alive in the minds of the people a zeal for their ancient liberties, displaying emblems of the ancient grandeur and present decline of the city, accompanied with harangues and many expressive predictions. Such an intrepid, and at the fame time extraordinary conduct, made fome regard him as a lunatic, while others hailed him as their guardian and deliverer. When he supposed that the numbers attached to his interest were fufficiently firong, he called them together, and gave them a dismal picture of the state of the city, overrun with debaucheries, which their governors had no capacity either to correct or amend. He declared that the Pope could, even at the rate of fourpence, raife 100,000 florins by firing, an equal fum by falt, and as much more by the customs and other duties, infinuating that he did not seize on the revenues without the confent of his Holinefs.

This artful lie fo powerfully animated his learers, that they fignified their determination to fecure these treasures for whatever purposes might be most convenient, and that to his will they would chearfully devote themselves. This resolution he caused them consism by an oath, and it is said that he had the address to procure from the Pope's viear the fanction of his authority. On the 20th of May he pretended that he did nothing but in consequence of the particular inspiration of the Holy Ghost, and about nine o'clock he came out of the church with his head bare, attended by the Pope's viear, and about 100 men in armour. Having proceeded directly to the capital, and declared from the roftrum, with even more than his wonted boldness and energy, that the hour

Rienzi. of their emancipation was at length arrived; that he himself was to be their glorious deliverer, and that he poured contempt on the dangers to which he might be exposed in the lervice of his Holiness, and for the happy deliverance of the people. The laws of the " good establishment" were next ordered to be read; and he refled affured that the Romans would refolve to observe these laws, in consequence of which he pledged himself to re-establish them in a short time in their ancient grandeur and magnificence.

Plenty and fecurity were the bleffings promifed by the good establishment, and the humbling of the nobles, who were regarded as common oppressors. Such ideas filled the people with transport, and they became zealoufly attached to the fanaticitm of Rienzi. The multitude declared him to be fovereign of Rome, to whom they granted the power of life and death, of rewards and punishments, of making and repealing laws, of treating with foreign powers, and a full and absolute authority

over all the Roman territories.

Having thus arrived at the zenith of his ambition, he concealed his artifice as much as possible, and pretended to be extremely averie to accept of their proffered honours, unless they would make choice of the Pope's vicar to be his copartner, and find means to procure the fanction of the Pope himself. His wish to have the vicar (bishop of Orvieto) as his copartner was readily complied with, while all the honours were paid to Rienzi, the duped bishop enjoying but a mere nominal authority. Rienzi was leated in his triumphal chariot, and the people were dismissed, overwhelmed with joy and expectation. This strange election was ratified by the Pope, although it was impossible that he could inwardly approve of it; and to procure a title exclusive of the prerogative of his Holiness, was the next object of Rienzi's ambition. He fought, therefore, and readily obtained the title of magistrate, which was conferred on him and his coadjutor, with the additional epithet of deliverers of their country. The conduct of Rienzi immediately subsequent to this elevation justly procured him esteem and respect, as well from the Romans as from neighbouring states; but as his beginning was mean and obscure, he foon became intoxicated with his fudden, his extraordinary elevation, and the incenfed nobles having confoired against him, and successfully drove him from an authority which he had the prudence or address to retain not more than fix months. At this critical period his life was only preferved by flight, and disguises to which he had afterwards recourse.

Having made an ineffectual effort at Rome to regain his authority, he went afterwards to Prague, to Charles king of the Romans, in confequence of which rash step he was thrown into prison at Avignon, where he continued for three years. When he procured his enlargement, Pope Innocent IV, who fucceeded Clement, well knew that many of the Romans were still attached to Rienzi, and therefore he made choice of him as a fit object for affifting him in his defion of humbling the other petty tyrants of Italy. In short, he was set at liberty. and appointed governor and fenator of Rome. It was hoped that his chastifement would teach him more moderation in future, and that gratitude would induce him to preferve an inviolable attachment to the holy fee during the remainder of his life. He met with confiderable opposition in assuming his new authority, but cunning and refolution enabled him to dvercome it. But Rienzi gratifying his paffions, which were violent in the extreme, and differening his office and character by acts of c cruelty; he was murdered on the 8th of Octuber 1354.

Thus died Nicolas Kienzi, one of the most extraordinary characters of the age in which he lived; who, having formed a conspiracy big with extravagance, and carried it into execution nearly in the face of the whole world, with fuch remarkable fuccels as to become fovereign of Rome; having bleffed the Romans with plenty, liberty, and justice; having afforded protection to fome princes, and proved a terror to others; having become the arbiter of crowned heads, established the ancient maielly and power of the Roman republic, and filled all Europe with his fame; finally, having procured their fanction whose authority he had usurped in oppofition to their interefts; he fell at last a facrifice to the nobles whose ruin he had vowed, and to those vast projects, the execution of which was only prevented by his death.

RIFLE, in Gunnery. See GUNNERY, no 36, et feq. RIGA, a large, strong, populous, and rich town of the Ruffian empire, and capital of Livonia. It is a large trading place, and has a very confiderable fortrels; the trade is chiefly in corn, fkins, leather, and naval ftores. It was taken by the Ruffians in 1710, after they had

blocked it up a long while, during which the inhabitants were afflicted with the plague. The castle is square, and defended by four towers and fix bastions; besides which, it has a fine arfenal. The protestants have still a handfome college here. The population is computed at 27,000. It is feated on a large plain on the river Dwi-

na. E. Long. 24, 25. N. Lat. 57. 0.

RIGADOON, a gay and brifk dance, borrowed originally from Provence in France, and performed in fi-

gure by a man and woman.

RIGGING of a SHIP, a general name given to allthe ropes employed to support the masts, and to extend or reduce the fails, or arrange them to the disposition of the wind. The former, which are used to fustain the masts, remain usually in a fixed position, and are called flanding rigging; fuch are the shrouds, stays, and backstays. The latter, whose office is to manage the fails, by communicating with various blocks or pulleys, fituated in different parts of the masts, yards, shrouds, &c. are comprehended in the general term of running rigging; fuch are the braces, facets, haliards, clue-lines, brails, &c.

In rigging a maft, the first thing usually fixed upon its head is a circular wreath or rope, called the gramet, or collar, which is firmly beat down upon the top of the hounds. The intent of this is to prevent the shrouds from being fretted or worn by the treftle-trees, or shoulders of the mast; after this are laid on the two pendants, from whose lower ends the main or fore tackles are suspended; and next, the shrouds of the starboard and larboard fide, in pairs, alternately. The whole is covered by the flays, which are the largest ropes of the rigging .- When a yard is to be rigged, a gromet is also driven first on each of its extremities; next to this are fitted on the hories, the braces, and laftly the lifts or top-fail sheet-blocks.

The principal objects to be confidered in rigging a thip, appear to be firength, convenience, and fimplicity: or, the properties of affording fufficient lecurity to the mafts, yards, and fails; of arranging the whole muchiRight pery in the most advantageous manner, to fustain the mails, and facilitate the management of the fails; and of avoiding perplexity, and rejecting whatever is superfluous or unnecessary. The perfection of this art, then, confifts in retaining all those qualities, and in preserving a judicious medium between them. See SHIP BUILDING. RIGHT, in Geometry, fignifies the fame with ftraight;

thus, a straight line is called a right one.

RIGHT is a title conferred, 1. Together with Re-verend, upon all bishops. 2. Together with Honourable, upon earls, viscounts, and barons. 3. By courtefy, together with Honourable, upon the fons of dukes, marquiles, and the eldert fons of earls. 4. Together with Honourable, to the speaker of the house of commons; but to no other commoner excepting those who are members of his majetty's most honourable privy-council; and the three load mayors of London, York, and Dublin, and the lord proveft of Edinburgh, during their office. See HONOUR BLE and PROVOST.

Hereditary RIGHT. See HEREDITARY.

The term plained.

titude.

RIGHT is a word which, in the propriety of the English language, is used sometimes as an adjective and fometimes as a fubiliaritive. As an adjective it is nearly of the same import with fit, fuitable, becoming, proper; \* See Ree- and whilft it expresses a quality, it indicates a relation \*. Thus, when we say that an action is right, we must not only know the nature of the action, but if we fpeak intelligibly, must also perceive its relation to the end for which it was performed; for an action may be right with one end in view which would be wrong with another. The conduct of that general would be right, who, to fave an army that could not be otherwise faved, should place a fmall detachment in a flation where he knew they would all be inevitably cut off; but his conduct would be very wrong were he to throw away the life of a fingle individual for any purpose, however important, which he knew how to accomplish without such a facri-

Many philosophers have talked of actions being right and wrong in the abstract without regard to their natural confequences; and converting the word into a fubstantive, they have fancied an eternal rule of right, by which the morality of human conduct is in every particular case to be tried. But in these phrases we can discover no meaning. Whatever is right must be so on some account or other; and whatever is fit, must be fit for some purpose. When he who rests the foundation of virtue on the moral fense, speaks of an action being right, he must mean that it is fuch as, through the medium of that fense, will excite complacency in the mind of the agent, and gain to him the general approbation of mankind. When he who rests moral obligation on the will of God, speaks of some actions as right and of others as wrong, he must mean that the former are agreeable to the divine will, however made known to men, and the latter difagreeable to it; and the man who deduces the laws of virtue from what he calls the fitness of things, must have some end in view, for which things are fit, and denominate actions right or surong as they tend to promote or counteract that end.

But the word right, used as a substantive, has in common as well as in philosophical language a fignification which at first view appears to be very different from this. It denotes a just claim or an honest possession. Thus we say, a father has a right to reverence from his children, a husband to the love and fidelity of his wife, and a king Right. to the allegiance or his fubjects. But if we trace thele rights to their fource, we thall find that they are all laws of moral obligation, and that they are called rights only because it is agreeable to the will of God, to the infiinclive dictates of the moral fense, or to the fitnels of things, if fuch a phrase has any meaning, that children reverence their parents, that wives love their husbands. and that fubjects pay allegiance to their fovereign. This will be apparent to any man who shall put to himself fuch queilions as thele: " Why have parents a right to reverence from their children, husbands to the love of their wives, and fovereigns to the allegiance of their fubjects?" As these queilions contain in them nothing abfurd, it is obvious that they are each capable of a precise answer; but it is impetible to give to any of them an answer which shall have any meaning, and not imply that right and obligation are reciprocal, or, in other words, that wherever there is a right in one person. there is a corresponding obligation upon others. Thus to the question, " Why have parents a right to reverence from their children?" it may be answered, " because, under God, they were the authors of their children's being, and protected them from danger, and furnished them with necessaries, when they were in a state fo helpless that they could do nothing for themselves." This answer conveys no other meaning than that there is an obligation upon children, in return for benefits received, to reverence their parents. But what is the fource of this obligation? It can only be the will of God, the moral fenfe, or the fitness of things.

This view of the nature of right will enable us to form a proper judgement of the affertion of a late writer, "that man has no rights." The arguments by which Goodwin's this apparent paradox is maintained, are not merely in-Political genious and plaufible; they are abfolutely conclusive. Justice. But then our philosopher, who never chooses to travel in the beaten track, takes the word right in a fense very different from that in which it has been used by all other men, and considers it as equivalent to discretionary power. "By the word right (lays he) is understood a Rights of full and complete power of either doing a thing or man, omitting it, without the person's becoming liable to animadversion or censure from another; that is, in other words, without his incurring any degree of turpitude or guilt." In this fense of the word he affirms, and affirms truly, that a man has no rights, no diferetionary power whatever, except in things of fuch total indiffe-

left fide of his fire, or dine on beef to-day or to-morrow."

A proposition so evidently true as this stood not in need of argument to support it; but as his arguments are clearly expressed, and afford a complete confutation of fome popular errors fanctioned by the respectable phrase rights of man, we shall give our readers an opportunity of studying them in his own words.

rence as, whether " he shall fit on the right or on the

" Political fociety is founded on the principles of morality and justice. It is impossible for intellectual beings to be brought into coalition and intercourse without a certain mode of conduct, adapted to their nature and connection, immediately becoming a duty incumbent on the parties concerned. Men would never have affociated if they had not imagined that, in consequence of that affociation, they would mutually

Right conduce to the advantage and happiness of each other. This is the real purpole, the genuine bans, of their intercourle; and, as far as this purpose is answered, so far does fociety answer the end of its institution. There is only one postulate more that is necessary to bring us to a conclusive mode of reasoning upon this subject. Whatever is meant by the term right, there can neither be opposite rights; nor rights and duties hostile to each other. The rights of one man cannot clash with or be de tructive of the rights of another: for this, inflead of rendering the sucject an important branch of truth and morality, as the advocates of the rights of man certainly understand it to be, would be to reduce it to a heap of unintelligi le jargon and inconfiitency. If one man have a right to be free, another man cannot have a right to make him a flave; if one man have a right to inflict chastifement upon me, I cannot have a right to withdraw myfelt from chattifement; if my neighbour have a right to a fum of money in my possession, I cannot have a right to retain it in my pocket. It cannot be less incontroversible, that I have no right to omit what my duty prescribes. From hence it inevitably follows that men have no rights.

" It is commonly faid, 'that a man has a right to the disposal of his fortune, a right to the employment of his time, a right to the uncontrolled choice of his profession or pursuits.' But this can never be confistently affirmed till it can be shown that he has no duties, prefcribing and limiting his mode of proceeding in all

these respects.

" In reality, nothing can appear more wonderful to a careful inquirer, than that two ideas fo incompatible as man and rights should ever have been affocia ed together. Certain it is, that one of them must be utterly exclufive and annihilatory of the other. Before we atcribe rights to man, we must conceive of him as a being endowed with intellect, and capable of difcerning the differences and tendencies of things. But a being endowed with intellect, and capable of differenting the differences and tendencies of things, inflantly becomes a moral being, and has duties incumbent on him to discharge : and duties and rights, as has already been shown, are abso-

" It has been affirmed by the zealous advocates of liberty, ' that princes and magitirates bave no rights;' and no position can be more incontrovertible. There is no fituation of their lives that has not its correspondent duties. There is no power intrufted to them that they are not bound to evercife exclusively for the public good. It is strange, that persons adopting this principle did not go a flep farther, and perceive that the fame reflrictions were applicable to subjects and citi-

This reasoning is unanswerable; but it militates not against the rights of man in the usual acceptation of the words, which are never employed to denote discretionary power, but a just claim on the one hand, implying a corresponding obligation on the other. Whether the phrase be absolutely proper is not worth the debating : it is authorifed by cuflom-the jus et norma loquendiand is univerfally understood except by such as the deemons of faction, in the form of paradoxical writers on political inflice, have been able to miflead by fophiffical

Rights, in the common acceptation of the word,

are of various kinds: they are natural or adv. nti..ous, Rigid. alienable or unalienable, perfect or imperfect, particular or general. See the article LIBERTY.

Autural rights are those which a man has to his Natural lite, limbs, and liberty; to the produce of his perfonal rights. labour; to the use, in common with others, of air, light, and water, occ. That every man has a natural right or just claim to thefe things, is evident from their being ablolutely neccilary to enable him to answer that purpole, whatever it may be, for which he was made a living and a rational being. This thows undeniably, that the Author of his nature defigned that he should have the use of them, and that the man who should wantonly deprive him of any one of them, would be guilty of a breach of the divine law, as well as act inconfiftently with the fitness of things in every fense in which that

phrase can possibly be understood. Adventitious rights are those which a king has over Adventihis subjects, a general over his soldiers, a husband to the rious person and affections of his wife, and which every man rights. has to the greater part of his property. That the rights of the king and the general are adventitious, is univerfally admitted. The rights of property have been confidered eilewhere (fee PROPERTY); and though the human conflictution shows fusiciently that men and women have a natural right to the use of each other, yet it is evident that the exclusive right of any one man to any one woman, and vice ver/a, must be an adventitious right: But the important question is, How are adven-

titious rights acquired?

In aniwer to this question, the moralist who deduces How accuse the laws of virtue from the will of God, observes, that redas God appears from his works to be a benevolent Being, who wills the happiness of all his creatures (see METAPHYSICS, Nº 312.), he must of course will every thing which naturally tends to promote that happiness. But the existence of civil society evidently contributes in a great degree to promote the fum of human happineis (fee Society); and therefore whatever is neceffary for the support of civil society in general, or for the conduct of particular locieties already established, must be agreeable to the will of God : But the allegiance of fubieds to their fovereign, the obedience of foldiers to their leader, the protection of private property, and the fulfilling of contracts, are all abfolutely necessary to the support of society: and hence the rights of kings, generals, hutbands, and wives, &c. though adventitious, and immediately derived from human appointments, are not less facred than natural rights, fince they may all be ultimately traced to the lame fource. The same conclusion may easily be drawn by the philosopher, who rests moral obligation on the fitnels of things or on a moral fenie; only it must in each of these cales partake of the instability of its founda-

To the facredness of the rights of marriage, an au-Objections thor already quoted has lately urged fome declamatory to tome of: objections. " It is abfurd (fays he) to expect, that there the inclinations and wishes of two human beings should rights coincide through any long period of time. To oblige them to act and to live together, is to fubject them to fome inevitable portion of thwarting, bickering, and unhappinels. This cannot be otherwise, so long as man has failed to reach the standard of absolute perfection. The supposition that I must have a companions

Real and

Right. for life, is the refult of a complication of vices. It is the dictate of cowardice, and not of fortitude. It flows from the defire of being loved and effeemed for fome-

thing that is not defect. " But the evil of marriage, as it is practifed in European countries, lies deeper than this. The habit is, for a thoughtless and romantic youth of each fex to come together, to see each other for a few times, and under circumstances full of delusion, and then to vow to each other eternal attachment. What is the confequence of this? In almost every instance they find themfelves deceived. They are reduced to make the best of an irretrievable mistake. They are presented with the ffrongest imaginable temptation to become the dupes of falschood. They are led to conceive it their wisest policy to thut their eyes upon realities; happy if by any perversion of intellect they can persuade themselves that they were right in their first crude opinion of their com-

"So long as two human beings are forbidden by positive institution to follow the dictates of their own mind, prejudice is alive and vigorous. So long as I feek to engros one woman to myself, and to prohibit my neighbour from proving his superior desert and reaping the fruits of it, I am guilty of the most odious of all monopolies. Over this imaginary prize men watch with perpetual jealoufy; and one man will find his defires and his capacity to circumvent as much excited, as the other is excited to traverse his projects and frustrate his hopes. As long as this state of society continues, philanthropy will be croffed and checked in a thousand ways, and the ftill augmenting stream of abuse will con-

tinue to flaw.

" The abolition of marriage will be attended with no evils. The intercourse of the sexes will fall under the fame system as any other species of friendship. Exclufively of all groundless and obstinate attachments, it will be impossible for me to live in the world without finding one man of a worth superior to that of any other whom I have an opportunity of observing. To this man I shall feel a kindness in exact proportion to my apprehension of his worth. The case will be precifely the fame with respect to the female fex; I shall affiduously cultivate the intercourse of that woman whose accomplishments shall strike me in the most powerful manner. 'But it may happen that other men will feel for her the same preference that I do.' This will create no difficulty. We may all enjoy her converfation; and we shall all be wife enough to consider the sensual intercourse as a very trivial object. This, like every other affair in which two persons are concerned, must be regulated in each successive instance by the unforced confent of either party. It is a mark of the extreme depravity of our present habits, that we are inclined to suppose the sensual intercourse anywise material to the advantages arising from the purest affection. Reasonable men now eat and drink, not from the love of pleafore, but because eating and drinking are effential to our healthful existence. Reasonable men then will propagate their species, not because a certain sensible pleasure is annexed to this action, but because it is right the species should be propagated; and the manner in which they exercise this function will be regulated by the dictates of reason and duty."

It is right then, according to this political innovator,

that the species should be propagated, and reasonable Rightmen in his Utopian commonwealth would be incited by reason and duty to propagate them: but the way to fulfil this duty, experience, which is feldom at one with fpeculative reformation, has already demonstrated, not to confift in the promifcuous intercourse of several men with one woman, but in the fidelity of individuals of the two fexes to each other. Common proftitutes among us feldom prove with child; and the fociety of Arreous in Otaheite, who have completely divested themselves of what our author calls prejudice, and are by no means guilty of his most odious of all monopolies, are for the most part childless (fee OTAHEITE). He feems to think that a state of equal property would necessarily destroy our relith for luxury, decrease our inordinate appetites of every kind, and lead us univerfally to prefer the pleafures of intellect to the pleasures of fense. But here again experience is against him. The Arreoys, who have a property in their women perfectly equal, are the most luxurious and fenfual wretches on the face of the earth; fenfual indeed to a degree of which the most libidinous European can hardly form a conception.

By admitting it to be a duty to propagate the species, our author must necessarily grant that every thing is right which is requisite to the fulfilling of that duty, and the contrary wrong. If so, promiscuous concubinage is wrong, fince we have feen, that by a law of nature it is incompatible with the duty; whence it follows on his own principles, that the fexual union by pairs must be right. The only question therefore to be decided between him and his opponents is, "Whether should that union be temporary or permanent ?" And we think the following observations by Mr Paley sufficient to decide it to the conviction of every person not blinded by the rage of in-

" A lawgiver, whose counsels were directed by views of general utility, and obstructed by no local impediments, would make the marriage-contract indiffoluble during the joint lives of the parties, for the fake of the following advantages: Such an union tends to preferve peace and concord between married perfons, by perpetuating their common interest, and by inducing a necessity of mutual compliance. An earlier termination of it would produce a separate interest. The wife would naturally look forward to the diffolution of the partnership, and endeavour to draw to herfelf a fund against the time when she was no longer to have access to the same resources. This would beget peculation on one fide, and mistrust on the other; evils which at prefent very little disturb the confidence of married life. The fecond effect of making the union determinable only by death, is not less beneficial. It necessarily happens, that adverse tempers, habits, and taftes, oftentimes meet in marriage. In which cafe, each party must take pains to give up what offends, and practice what may gratify, the other. A man and woman in love with each other do this infentibly: but love is neither general nor durable; and where that is wanting, no lessons of duty, no delicacy of fentiment, will go half fo far with the generality of mankind and womankind as this one intelligible reflection, that they must each make the belt of their bargain; and that feeing they mult either both be miserable or both share in the same happinels, neither can find their own comfort but in promoting the pleafure of the other. These compliances, though at first extorted by necessity, become in time easy and mutual;

Rights alienable

and unali-

enable:

Right. mutual; and though less endearing than assiduities which take their rife from affection, generally procure to the married pair a repose and satisfaction sufficient for their

So differently from our author does this judicious writer reason concerning the effects of a permanent union on the tempers of the married pair. Instead of subjecting them to some inevitable portion of thwarting, bickering, and unhappiness, it lays them, in his opinion, under the neceffity of curbing their unruly passions, and acquiring habits of gentleness, forbearance, and peace. To this we may add, that both believing the children propagated during their marriage to be their own (a belief unattainable by the father in a state of promiscuous concubinage), they come by a natural process of the human paffions (fee PASSION) to love each other through the medium of their offspring. But if it be the duty of man to acquire a spirit first pure, then peaceable, gentle, and eafy to be intreated, it must be agreeable to the will of God, and a branch of the fitness of things, that the fexual union last during the joint lives of the parties; and therefore the exclusive right of marriage, though adventitious, must be equally facred with those which are natural.

But to return from this digression, into which the importance of the subject led us, rights, besides being natural or adventitious, are likewise alienable or unalienable. Every man, when he becomes the member of a civil community, alienates a part of his natural rights. In a state of nature, no man has a superior on earth, and each has a right to defend his life, liberty, and property by all the means which nature has put in his power. In civil fociety, however, these rights are all transferred to the laws and the magistrate, except in eases of such extreme urgency as leave not time for legal interpolition. This fingle confideration is fufficient to show, that the right to civil liberty is alienable; though, in the vehemence of men's zeal for it, and in the language of some political remonstrances, it has often been pronounced to be an unalienable right. "The true reason (says Mr Paley) why mankind hold in detestation the memory of those who have fold their liberty to a tyrant is, that, together with their own, they fold commonly or endangered the liberty of others; of which they had certainly no right to dispose." The rights of a prince over his people, and of a husband over his wife, are generally and naturally unalienable.

perfect and

Another division of rights is into those which are perimperfect. fect and those which are imperfect. Perfect rights are fueh as may be precifely afcertained and afferted by force or in civil fociety by the course of law. To imperfect rights neither force nor law is applicable. A man's rights to his life, person, and property, are all persect; for if any of these be attacked, he may repel the attack by instant violence, punish the aggressor by the course of law, or compel the author of the injury to make restitution or fatisfaction. A woman's right to her honour is likewife perfect; for if the cannot otherwife escape, the may kill the ravifler. Every poor man has undoubted right to relief from the rich: but his right is imperfect, for if the relief be not voluntarily given, he cannot compel it either by law or by violence. There is no duty upon which the Christian religion puts a greater value than alms-giving; and every preacher of the gospel has an undoubted right to inculcate the practice of it upon

his audience: but even this right is imperfect, for he Right. cannot refuse the communion to a man merely on account of his illiberality to the poor, as he can to another for the neglect of any duty comprehended under the term justice. In elections or appointments to offices, where the qualifications are prescribed, the best qualified candidate has unquestionably a right to success; yet if he be rejected, he can neither leize the office by force. nor obtain redress at law. His right, therefore, is impersect.

Here a quellion naturally offers itself to our consideration: " How comes a person to have a right-to a thing, and yet have no right to use the means necessary to obtain it ?" The answer is, That in such cases the object or the circumstances of the right are so indeterminate, that the permission of force, even where the right is real and certain, would lead to force in other cases where there exists no right at all. Thus, though the poor man has a right to relief, who shall ascertain the mode, season, and quantum of it, or the perfon by whom it shall be administered? These things must be ascertained before the right to relief can be enforced by law; but to allow them to be afcertained by the poor themselves, would be to expose property to endle's claims. In like manner, the comparative qualifications of the candidate must be ascertained, before he can enforce his right to the office; but to allow him to afcertain his qualifications himfelf, would be to make him judge in his own cause between himfelf and his neighbour.

Wherever the right is imperfect on one fide, the cor-Imperfect responding obligation on the other must be imperfect like-rights ewife. The violation of it, however, is often not less qually sacriminal in a moral and religious view than of a perfect those which obligation. It is well observed by Mr Paley, that greater are perfect. guilt is incurred by disappointing a worthy candidate of a place upon which perhaps his livelihood depends, and in which he could eminently ferve the public, than by filching a book out of a library, or picking a pocket of a handkerchief. The same sentiment has been expressed by Mr Godwin, but in terms by much too strong, and fuch as show that he was not at the time complete master of his subject. " My neighbour (says he) has just as much right to put an end to my existence with dagger or poison, as to deny me that pecuniary affistance without which I must starve, or as to deny me that affistance without which my intellectual attainments, or my moral exertions, will be materially injured. He has just as much right to amuse himself with burning my house, or torturing my children upon the rack, as to thut himfelf up in a cell, careless about his fellow men, and to hide

' his talent in a napkin.' It is certainly true, that the man who should suffer another to starve for want of that relief which he knew that he alone could afford him, would be guilty of murder, and murder of the cruellest kind; but there is an immense difference between depriving society of one of its members, and with-holding from that member what might be necessary to enable him to make the greatest possible intellectual attainments. Newton might have been useful and happy though he had never been acquainted with the elements of mathematics; and the late celebrated Mr Fergusson might have been a valuable member of fociety, though he had never emerged from his original condition of a shepherd. The remainder of the paragraph is too abfurd to require a formal confutation.

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of at, Had our wher, burying his talent in a napkin, that himher up feven years a via a cell, carelefs about his fellow net men and printed fulfire, he would have deprived the public of what he doubtlets believes to be much useful with barries his neighbour's house, and torturing on the rack two or three inidren, he would have cut off, for any thing he could know, two or three future Newof his country. Now, without fur pointing the value of ten New ons to be equal to that of one Godwin, we are warranted to fay, that however great his merits may be, they are not infinite, and that the addition of those of one Newton to them would undoubtedly increase

their fam. Rights are particular or general. Particular rights I and are such as belong to certain individuals or orders of men, and not to others. The rights of kings, of mathers, of hufbands, of wives, and, in thort, all the rights which originate in fociety, are particular. General rights are those which belong to the species collectively. Such are our rights to the vegetable produce of the earth, and to the flesh of animals for food, though about the origin of this latter right there has been much diverfay of opinion, which we have noticed in another place. produce of the earth be included under the general rights of mankind, it is plain that he is guilty of wrong who leaves any confiderable portion of land wafte merely for his own amusement: he is leffening the common flock of provision which Providence intended to distribute among the species. On this principle it would not be easy to vindicate certain regulations respecting game, as well as some other monopolies which are protected by the municipal laws of most countries. Mr Palev, by jost reasoning, has established this conclusion, " that nothing ought to be made exclusive property which can be corner lently enjoyed in common." An equal divifion of land, however, the dream of some visionary reformers, would be injurious to the general rights of mankind, as it may be demonstrated, that it would leffen the common stock of provisions, by laying every man under the necessity of being his own weaver, tailor, shoemaker, smith, and carpenter, as well as ploughmar, miller, and baker. Among the general rights of man-kind is the right of necessity; by which a man may use or destroy his neighbour's property when it is absolutely necessary for his own preservation. It is on this principle that goods are thrown overboard to fave the ship, and houses pulled down to stop the progress of a fire. In fuch cases, however, at least in the last, restitution ought to be made when it is in our power; but this reflitution will not extend to the original value of the property destroyed, but only to what it was worth at the time of destroying it, which, confidering its danger, might be very little.

RIGHTEOUSNESS, means justice, honesty, virtue, goodness, and amongst Christians is of exactly the fame import with holiness, without which, we are told, no man shall fee the Lord. The doctrine of the fall. and of redemption through Jesus Christ, has occasioned much disputation, and given rife to many fingular notions in the world. The haughty philosopher, diffatisfied with mysteries, and with the humiliating doctrine of atonement by a crucified Saviour, has made a religion for himself, which he calls rational Christianity; and Rightsons the enthufialt, by extracting doctrines from Seripture which are not contained in it, and which are repugnant to its spirit, has given too much countenance to this prefumption. The doctrine of imputed righteoufness, by which the merit of Christ is faid to be imputed to us. appears to be of this number; and though it has been held by many good, and by fome learned men, it iscertainly in general unfriendly to virtue, as will be readily allowed by all who have converted with the more ignorant fort of Methoditts in England or Seceders in Scotland. That it does not follow from the doctrine of the atonement, and confequencly that it has no foundation in Scripture, will appear elfewhere. See

Bill of RIGHTS, in Law, is a declaration delivered by the lords and commons to the prince and princess of Orange, 13th February 1688; and afterwards enacted in parliament, when they became king and queen. It fets forth, that King James did, by the affillance of diliberties of this kingdom, by exerciting a power of ailpenfing with and tulpending of taws; by levying money cut confent of parliament; by protecuting those who petitioned the king, and diffcouraging petitions; by rain parliament; by violent profecutions in the court of king's bench; and causing partial and corrupt jurors to be returned on trials, excellive bail to be taken, exceled; all which were declared to be illegal. And the they do claim, demand, and inful upon, all and fingu-And the act of parliament itself (1 W. and M. itat. 2. cap. 2.) recognizes " all and fingular the rights and libe the true, ancient, indubitable rights of the people of

this kingdom." See LIBERTY.
RIGIDITY, in Physics, denotes a brittle hardness. It is opposed to ductility, malleability, and loft-

RIGOLL, or REGALS, a kind of mufical inftrument, confifting of feveral flicks bound together, only feparated by beads. It is tolerably harmonious, being well ftruck with a ball at the end of a slick. Such is the account which Graffineau gives of this inflrument. Skinner, upon the authority of an old English dictionary, reprefents it as a clavichord, or claricord; possibly founding his opinion on the nature of the othice of the tuner of the regals, who still subfists in the establishment of the king's charel at St James's, and whole buliness is to keep the organ of the chapel royal in tame; and not knowing that such wind instruments as the organ need frequent tuning, as well as the clavichord and other ftringed instruments. Sir Henry Spelman derives the word rigoll from the Italian rigabello, a mulical inflrument, anciently uled in churches inflered of the organ-Walther, in his defeription of the regal, makes it to be a reed-work in an organ, with metal and also wooden pires and bellows adapted to it. And he adds, that the name of it is supposed to be owing to its having been presented by the inventor to some king .- From an ac-

H its of net: Mry.

count of this regal 'méd' in Germany, and other parts of Europe, it appeare to confib of pipes and keys on one fide, and the bellows and wind-cheel on the other. We may add, that Lord Bacon (Nat. Hift. cent. in. § 102.) diffinguithes between the regal and 'organ, in a manner which fhows them to be infirmments of the fame class. Upon the whole, three is realton to conclude, that the regal or rigoll was a pneomatic, and not a firinged infirment.

Merfeunus relates, that the Flemings invented an inflrument, ket reguler de bois, confliting of 1r cylindrical
pieces of wood, decreating gradually in length, fo as to
produce a fucceffion of tones and femitiones in the diatonic feries, which had keys, and was played on as a fpinet; the hint of which, he fays, was taken from an inflrument, in uie among the Turks, confliting of 12
wooden cylinders, of different lengths, firing together,
which being fuipended and flruck with a flick, having
a ball at the end, produced mufic. Hawkins's Hitt.
Muf. vol. ii. p. 440.

RIGOR, in Medicine, a convultive shuddering from

fevere cold, an ague fit, or other diforder.

RIMINI, an ancient, populous, and handfome town of Italy, in Romagna, which is part of the territory of the church, with a bithop's fee, an old caitle, and a flrong tower; as also many remains of antiquity, and very fine buildings. It is famous for a council in 1359, confitting of 400 bithops, who were all Arians except 20. It is feated in a fertile plain, at the mouth of the river Marccchia, on the gulf of Venice. E. Long. 12, 39. N. Lat. 44, 6.

RIND, the skin of any fruit that may be cut off or pared. Rind is also used for the inner bark of trees, or that which soft substance which adheres immediately

to the wood. See PLANT.

RING, an ornament of gold and filver, of a circular

figure, and ufually worn on the finger.

The epifcopal ring (which makes a part of the pontifical apparatus, and is efteemed a pledge of the fipritual marriage between the bifnop and his church) is of very ancient flanding. The fourth council of Toledo, held in 633, appoints, that a bifnop condemned by one council, and found afterwards innocent by a fecond, flall be restored, by giving him the ring, flaff, Sec. From bifnops, the custom of the ring has passed to cardinals, who are to pay a very great sum pro jure annuli cardimalitii.

RING, in Nowigation and Afronoum, an inftrument made we of for taking an altitude of the fun, &c. It is commonly of brafs, about nine inches in diameter, fufpended by a finall fivivel, at the distance of 45°, from the point of which there is a perforation, being the centre of a quadrant of 90° divided in the inner concave furface. It is to be held up by the fuvirel when ufed, and turned round to the fun, till his rays, falling through the hole, form a 'spot among the degrees, by which the required altitude is pointed out. This influment is deemed preferable to the aftrolabe, because the divisions are larger than on that infrument.

RINGS. The antiquity of rings is known from Scripture and profane authors. Judah left his ring or fignet with Famar (Gen. xxviii. 18.). When Phataoh committed the government of all Egypt to Joseph, he took his ring from his finger, and gave it to Joseph (Gen. xli. 42.). After the victory that the Ifractites

obtained over the Midianites, they officed to the Lo d From the rings, the bracelets, and the golden nexthaces, and global taken from the enemy (Numb. xxxi. 50.). The Haelitifia women wore rings ont only on their fingers, but also in their notifies and their ears. St James didinguithes a man of wealth and dignity by the ring of gold that he wore on his finger (James ii. 2.). At the return of the prodigal fon, his father orders him to be dreffed in a new fult of clothes, and to have a ring put upon his finger (Luke xv. 22. When the Lord threatened King Jeconish with the utmott effects of his anger, he tells him, that though he wore the fignet or ring upon his finger, yet he flould be torn off (Jer. xxii. 24.).

The ring was used chiefly to feal with; and the Scripture generally puts it in the hands of princes and great persons; as the king of Egypt, Joseph, Ahnz, Jezebel, King Ahasherus, his favoartie Haman, Mordecai, who facceeded Haman in his dignity, King Darius (t Kings xxi. 8.; Eithersii: 10, &c.; Dan vi. 17.). The patents and orders of these princes were sealed with their rings or fignets; and it was this that secured to them their authexity, and respect. See the article Sex.L.

RING-Bone. See FARRIERY Index.

RING-Oufel, a species of Turbus. See Ornithology Index.

RIO-GRANDE, a river of Africa, which runs from east to weit through Negroland, and falls into the Atlantic ocean, in 11 degrees of latitude. Some take it to be a branch of the Niger, of which there is not the least proof.

RIO DE JANEIRO, the name of one of the provinces into which Brazil, the Portuguese portion of South America, is divided, and by far the most important, in confequence of the discovery and improvement of the gold and diamond mines about 300 miles to the northwest. The diamond mines are the exclusive property of the crown, as well as a fifth part of the gold. The people have of late begun to manufacture many necessary articles for their own confumption. The foil is luxuriant, producing fpontaneously most kinds of fruit; and the ground is covered with one continued forcit of trees of perpetual verdure, which, from the exuberance of the foil, are fo entangled with briars, thorns, and underwood, as to form a thicket absolutely impenetrable, except by fome narrow foot paths, which the inhabitants have made for their own convenience. The woods are extremely fragrant, frum the many aromatic trees and flirubs with which they abound; and the fruits and vegetables of every climate thrive here almost without culture, and are to be procured in great abundance. The water is excellent; and among the ordinary productions of this richest province of Brazil may be ranked cotton, fugar, coffee, cocoa, wheat, rice, pepper, and abundance of tobacco. Vines are here met with in great perfection, but the grapes are not pressed for the purpose of obtaining wine. Gold, filver, and precious stones, are annually exported by the Portuguese, whose indolence, especially with respect to investigation and research, has prevented them from giving to the world any fatisfactory accounts concerning those remote regions which are subject to their authority.

R10 de Janeiro, or St Sebafian, an extensive city, the metropolis of the foregoing province of Brazil, and the fee of a bishop. It has a very extensive and commodi-

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Rie de Ja- ous-harbour, which is defended by a number of forts. The city is built upon ground which is rather low, and was at one period of la Iwampy nature; it is environed by hills which exclude in a great measure the advantages of fresh air, both from the land and the fea, on which account the summers are inimical to health, the heat being almost suffocating. The different mechanics carry on their respective branches in distinct parts of the town, particular trades having particular streets assigned to them. The viceroy's palace is erected on the fide of an extensive square; and there are sonntains in different other fquares, to which an aqueduct of confiderable length conveys water over valleys by a double row of arches. On the extreme point are a fort called Santa Cruz, built on a prodigious rock of granite, and a Benedictine convent, jutting into the harbour, opposite to which is Serpent ifland, where there are houses for magazines and naval flores, together with a dock-yard. The warehouses for the reception and preparation of tlaves from Africa for fale, are in another part of the harbour, known by the name of Val Longo. The city of Rio Janeiro is fituated near the mouth of a river of the fame name in the Atlantic ocean. The streets of this city are in general well paved and straight. The houses in general are two stories high, covered with tiles, and have balconies of wood extending in front of the upper stories; but the best of them have that dull and heavy appearance which must necessarily be the case when latticed windows supply the want of glass. The rocks in its vicinity are granite, of a red, white, or deep blue colour, the last being of a compact and hard tex-

> Females of rank and diffinction are faid to have fine dark eyes, countenances full of animation, and their heads only ornamented with their treffes, which are bound up with ribbons and flowers. There are numerous convents and monasteries, and labour is in general performed by flaves, 20,000 of which are faid to be annually imported. Rio de Janeiro is a city of very confiderable extent, and the population, including flaves, has been estimated at 60,000; but according to Dr Morse, at no fewer than 200,000, as we find in his American Gazetteer, published in 1798; yet it appears extraordinary, that in such a city there is neither inn, nor hotel, mor any fort of accommodation for the reception of flrangers. Such accommodation, however, is fcarcely necessary, the weak and jealous government being so inhospitable, as to prohibit strangers from remaining on shore after the going down of the sun, and from walking the streets during the day without military spies.

> When Mr Barrow vifited this place, he found only two bookfellers shops in it, after a long fearch, and many inquiries; but they contained nothing uleful or interesting to a native of Britain. A number of old volumes on the subjects of alchemy and medicine, many more on church history and theological controverfy, with a few on the mighty deeds of the house of Braganza, were all their catalogues contained.

> It is faid that the inhabitants fometimes go in small parties to the Public Garden, where they take supper, walk, and enjoy themselves with music and fireworks to

a very late hour of the night.

Rio de Janeiro may justly be regarded as the grand central point on the coast of the Brazils, from which every other part of it may be at any time overawed. Its regular force is faid to confiit of two fquedrons of Rio de Jacavalry, two regiments of artillery, fix regiments of infantry, two battalions of disciplined militia, and 200 disciplined free negroes, making a sum total of mere than 10,000 men; but Mr Barrow is of opinion that this estimate is much exaggerated, fince during his stay in that city he could discover nothing to warrant such a conclution; and he is inclined to think that the whole force of the Brazils united cannot exceed the number of 10,000 men. This place, which has for a time at least become the refidence of the royal family and government of Portugal, will, no doubt, acquire additional importance, and may perhaps at fome future period be the feat of a mighty empire.

RIO Janeiro, a river which rifes in the western mountains of Brazil, and running east through that country,

falls into the Atlantic ocean at St Sebattian.

RIOM, an ancient town of France, in the department of Puy de Dome; feated on a hill, in so agreeable a country, that it is called the garden of Auvergne.

E. Long. 3. 12. N. Lat. 45. 51.

RIOT, in Law. The riotous affembling of 12 perfons, or more, and not dispersing upon proclamation, was first made high treason by statute 3 and 4 Edw. VI. c. 5. when the king was a minor, and a change of religion to be effected: but that statute was repealed by ilatute 1 Mar. c. 1. among the other treasons created fince the 25 Edw. III.; though the prohibition was in subtlance re-enacted, with an inferior degree of punishment, by statute 1 Mar. st. 2. c. 12. which made the same offence a fingle felony. These statutes specified and particularized the nature of the riots they were meant to suppress; as, for example, such as were set on foot with intention to offer violence to the privy-council, or to change the laws of the kingdom, or for certain other specific purposes; in which cases, if the perfons were commanded by proclamation to disperse, and they did not, it was by the statute of Mary made felony, but within the benefit of clergy; and also the act indemnified the peace-officers and their affiftants, if they killed any of the mob in endeavouring to suppress fuch riot. This was thought a necessary fecurity in that fanguinary reign, when popery was intended to be reestablished, which was like to produce great discontents: but at first it was made only for a year, and was afterwards continued for that queen's life. And, by flatute 1 Eliz. c. 16. when a reformation in religion was to be once more attempted, it was revived and continued during her life also; and then expired. From the acceffion of James I. to the death of Queen Anne, it was never once thought expedient to revive it; but, in the first year of George I. it was judged necessary, in order to support the execution of the act of fettlement, to renew it, and at one stroke to make it perpetual, with large additions. For, whereas the former acts expressly defined and specified what should be accounted a riot, the statute 1 Geo. I. c. 5. enacts, generally, that if any 12 persons are unlawfully assembled to the disturbance of the peace, and any one justice of the peace, sheriff, under-theriff, or mayor of a town, shall think proper to command them by proclamation to disperse, if they contemn his orders and continue together for one hour afterwards, fuch contempt shall be felony without benefit of clergy. And farther, if the reading of the proclamation be by force oppoled, or the reader be in any manner manner wilfully hindered from the reading of it, fuch oppofers and hindered are felons without benefit of clery; and all perfois to whom fuch proclamation ought to have been made, and knowing of fuch hindrance, and not diliperfing, after felons without benefit of clergy. There is the like indemnifying claufe, in cale any of the mob be unfortunately killed in the endeavour to disperfem; being copied from the act of Queen Mary. And by a fublequent claufe of the new act, if any perfon, for intotuly affembled, begin even before proclamation to pull down any church, chapel, meeting-houle, dwelling-houle, or out-houles, they thall be felons without benefit of clery.

Riots, routs, and unlawful affemblies, must have three persons at least to constitute them. An unlawful assembly is, when three, or more, do affemble themselves together to do an unlawful act, as to pull down inclofures, to defiroy a warren or the game therein; and part without doing it, or making any motion towards it. A rout is where three or more meet to do an unlawful act upon a common quarrel, as forcibly breaking down fences upon a right claimed of common, or of way, and make fome advances towards it. A riot is where three or more actually do an unlawful act of violence, either with or without a common cause or quarrel; as if they beat a man; or hunt and kill game in another's park, chase, warren, or liberty; or do any other unlawful act with force and violence; or even do a lawful act, as removing a nuifance, in a violent and tumultuous manner. The punishment of unlawful asfemblies, if to the number of 12, we have just now feen, may be capital, according to the circumstances that attend it; but, from the number of three to eleven, is by fine and imprisonment only. The same is the case in riots and routs by the common law; to which the pillory in very enormous cases has been sometimes superadded. And by the statute 13 Hen. IV. c. 7. any two juffices, together with the sheriff or under-sheriff of the county, may come with the posse comitatus, if need be, and fuppress any fuch riot, affembly, or rout, arrest the rioters, and record upon the fpot the nature and circumflances of the whole transaction; which record alone shall be a sufficient conviction of the offenders. In the interpretation of which statute it hath been holden, that all persons, noblemen and others, except women, clergymen, persons decrepit, and infants under 15, are bound to attend the justices in suppressing a riot, upon pain of fine and imprisonment; and that any battery, wounding, or killing the rioters, that may happen in suppressing the riot, is justifiable. So that our ancient law, previous to the modern riot-act, feems pretty well to have guarded against any violent breach of the public peace; especially as any riotous affembly on a public or general account, as to redrefs grievances or pull down all inclosures, and also resisting the king's forces if sent to keep the peace, may amount to overt acts of high treafon, by levving war-against the king.

RIPEN, a fea-port town of Denmark, in North Jutland, and capital of a diocele of the fame name, with a bifliop's fee, a good harbour, a caffle, two colleges, and a public library. The tombs of feveral of the kings of Denmark are in the cathedral church, which is a very handfome fructure. The harbour, which has contributed greatly to the prosperity of this place, is at a finall distance, being feated at the mouth of the river Nipfaa, in a country which fupplies the best beeves in Ripena Denmark. It is 45 miles north-west of Slewick and Ripena 25 fouth-by-welt of Wiburg. & Long.-8: 94. N. Lat. of Graft 55-25. The dioceles is bounded on the north by those of Wiburg and Athuys, on the south by the duchy of Slewick, and on the cast and west by-the sca.

RIPENING of Grain, means sit arriving to maturity. The following paper, which appeared in the first volume of the Transactions of the Royal Society of E. dinburgh, may be worthy the attention of farmers in this country; where it frequently happens, from continued rains, that the corn is quite green when the frost fets in; in consequence of which, the farmers cut it down, without thinking it can possibly arrive at further

maturity.

"Summer 1782 having been remarkably cold and unfavourable, the harvest was very late, and much of the grain, especially oats, was green even in October. In the beginning of October the cold was fo great, that, in one night, there was produced on ponds near Kinneil, in the neighbourhood of Borrowttounness, ice three quarters of an inch thick. It was apprehended by many farmers, that fuch a degree of cold would effectually prevent the further filling and ripening of their corn. In order to afcertain this point, Dr Roebuck felected feveral stalks of oats, of nearly equal fulness, and immediately cut those which, on the most attentive comparifon, appeared the beit, and marked the others, but allowed them to remain in the field 14 days longer; at the end of which time they, too, were cut, and kept in a dry room for 10 days. The grains of each parcel were then weighed; when 11 of the grains which had been left standing in the field were found to be equal in weight to 30 of the grains which had been cut a fortnight fooner, though even the best of the grains were far from being ripe. During that fortnight (viz. from October 7th to October 21ft) the average heat, according to Fahrenheit's thermometer, which was observed every day at eight o'clock in the morning and fix in the evening, was a little above 43. Dr Roebuck observes, that this ripening and filling of corn in fo low a temperature should be the less surprising to us, when we reflect, that feed-corn will vegetate in the same degree of heat; and he draws an important inference from his observations, viz. That farmers should be cautious of cutting down their unripe corn, on the supposition that in a cold autumn it could fill no more."

A writer in the Scots Magazine for June 1792, under the fignature of Agricola, when fpeaking on this subject, adds the following piece of information, viz. "That grain cut down before it is quite ripe will grow or fpring equally well as ripe and plump grain, provided it is properly preferved. I relate this from a fact, and also on the authority of one of the most judicious and experienced farmers in this island, William Craik of Arbigland, Elq. near Dumfries, who was taught by fuch a fealon as this threatens to prove. This being the cafe, every wife economical farmer will preferve his ripe and plump grain for bread, and fow the green and feemingly shrivelled grain, with a perfect conviction that the plants proceeding from such seed will yield as strong and thriving corn as what grows from plump feed. By this means the farmer will enjoy the double advantage of having the corn most productive in flour for bread, and his light fluivelled grain will go much farther in feed

Riphoeta than the plump grain would do. I faw the experiment made on wheat which was fo shrivelled that it was thought fearcely worth giving to fowls, and yet produ-

> RIPHOEAN MOUNTAINS, are a chain of high mountains in Ruffia, to the north-east of the river Oby, where there are faid to be the finest fables of the whole

> RIPHATH, or RIPHAT, second fon of Gomer, and grandfon of Japhet (Cen. x. 3. 737 Riphat). In most copies he is called Diphath in the Chronicles (1 Chr. i. 6. 737 Diphat). The resemblance of the two Hebrew letters - Re/b and - Daleth is fo much, that they are very often confounded. But, to the credit of the translators of our English version be it said, that in this instance, as well as in many others, they have restored the original reading, and rendered it Riphath. The learned are not agreed about the country that was peopled by the descendants of Riphath. The Chaldee and Arabic take it for France; Eusebius for the country of the Sauromatæ; the Chronicon Alexandrinum for that of the Garamantæ; Josephus for Paphlagonia. Mela affures us, that anciently the people of this province were called Riphatæi, or Riphaces; and in Bithynia, bordering upon Paphlagonia, may be found the river Rhebeus, a people called Rhebantes, and a canton of the same name. These reasons have prevailed with Bochart to believe, that Riphath peopled Paphlagonia. Others think he peopled the Montes Riphei; and this opinion feems the most reasonable to us, because the other fons of Gomer peopled the northern countries towards Scythia, and beyond the Euxine

> RISIBLE, any thing capable of exciting laughter. Ludicrous is a general term, fignifying, as may appear from its derivation, what is playsome, sportive, or jocular. Ludierous therefore feems the genus, of which rifible is a fpecies, limited as above to what makes us

> However eafy it may be, concerning any particular object, to say whether it be risible or not, it seems difficult, if at all practicable, to establish any general character, by which objects of that kind may be diffinguished from others. Nor is that a fingular case; for, upon a review, we find the fame difficulty in most of the articles already handled. There is nothing more eafy, viewing a particular object, than to pronounce that it is beautiful or ugly, grand or little: but were we to attempt general rules for ranging objects under different clailes according to these qualities, we should be much gravelled. A feparate cause increases the difficulty of diftinguishing rifible objects by a general character: all men are not equally affected by rifible objects, nor the fame man at all times; for in high foirits a thing will make him laugh outright, which will fcarcely provoke a finile in a grave mood. Rifible objects, however, are circumferibed within certain limits. No object is rifible but what appears flight, little, or trivial; for we laugh at nothing that is of importance to our own interest or to that of others. A real distress raises pity, and therefore cannot be rifible; but a flight or imaginary diffres, which moves not pity, is rifible. The adventure of the fulling-mills in Don Quixote, is extremely rifitle; fo is the frene where Sancho, in a dark night, tumbling into a pit, and attaching himfelf

to the fide by hand and foot, hangs there in terrible dif. Riffet. may till the morning, when he discovers himfelf to be within a foot of the bottom. A note remerkably long or fhort, is rifible; but to want it altogether, to far from provoking laughter, raises horror in the spectator. With respect to works both of nature and art, none of them are rifible but what are out of rule; some remarkable defect or excess, a very tong vilage, for example, or a very fhort one. Hence nothing just, proper, decent, beautiful, proportioned, or grand, is rifible.

Even from this flight sketch it will be readily conjectured, that the emotion raised by a rifible object is of a nature fo fingular, as fearcely to find place while the mind is occupied with any other passion or emotion; and the conjecture is verified by experience; for we scarce ever find that emotion blended with any other. One emotion we must except; and that is, contempt raised by certain improprieties: every improper act inspires us with fome degree of contempt for the author; and if an improper act be at the fame time rifible to provoke laughter, of which blunders and abfurdities are noted instances, the two emotions of contempt and of laughter unite intimately in the mind, and produce externally what is termed a laugh of derision or of scorn. Hence objects that cause laughter may be diffinguished into two kinds: they are either rifible or ridiculous. A rifible object is mirthful only; a ridiculous object is both mirthful and contemptible. The first raises an emotion of laughter that is altogether plcafant : the pleafant emotion of laughter raifed by the other, is blended with the painful emotion of contempt; and the mixed emotion is termed the emotion of ridicule. The pain a ridiculous object gives me, is refented and punished by a laugh of derision. A risible object, on the other hand, gives me no pain: it is altogether pleafant by a certain fort of titillation, which is expressed externally by mirthful laughter. See RIDICULE.

Rifible objects are to common, and fo well underflood, that it is unnecessary to consume paper or time upon them. Take the few following examples:

Falflaff. I do remember him at Clement's inn, like a man made after supper of a cheefe-paring. When he was naked, he was for all the world like a forked radifly. with a head fantaffically carved upon it with a knife. Second Part, Henry IV. act iii. fc. 5.

The foregoing is of disproportion. The following examples are of flight or imaginary misfortunes.

Fallaff. Go fetch me a quart of fack, put a toast in't. Have I liv'd to be carried in a basket, like a barrow of butcher's offal, and to be thrown into t'e Thames! Well, if I be ferved fuch another trick, 1'il have my brains ta'en out and butter'd, and give them to a dog for a new-year's gift. The rogues flighted me into the river with as little remorfe as they would have drown'd a bitch's blind puppies, fifteen i'th'litter; and you may know by my fize that I have a kind of alacrity in finking; if the bottom were as deep as hell. I should down, I had been drown'd, but that the there was thelvy and thallow: a death that I abbor: for the water fwells a man; and what a thing should I have been when I had been swell'd? I should have been a mountain of mummy.

Merry Wives of Windfor, act iii. fc. 1 c.

Fallaff.

R fibl., Rite.

Fall. May, you shall hear, Master Brook, what I have fuffer'd to bring this woman to evil for your ord. Boing thus cramm'd in the balket, a couple of Ford's knaves, his hinds, were call'd forth by their militers, to carry me in the name of foul clothes to Datchet-lane. They took me on their shoulders, met the jealous knave their mafter in the door, who ask'd them once or twice what they had in their bafket. I quak'd for fear, left the lunatic knave would have fearch'd it; but Fate, ordaining he should be a cuckold, held his hand. Well, on went he for a fearch, and away went I for foul clothes. But mark the fequel, Matter Brook. I fuffer'd the pungs of three egregious deaths: first, an intolerable fright, to be detected by a jealous rotten bell-weather; next, to be compais'd like a good bilbo, in the circumference of a peck, hill to point, heel to head; and then to be floot in, like a flrong divillation, with flinking clothes that fretted in their own greafe. Think of that, a man of my kidney; think of that, that am as subject to heat as butter; a man of continual diffolution and thaw; it was a mirable to licane fulfocation. And in the height of this bath, when I was more than half flew'd in greafe, like a Duch dish, to be thrown into the Thames, and cool'd glowing hot, in that furge, like a horse shoe; think of that; hissing hot; think of that,

Merry Wives of Windfor, act iii. fc. 17.
RITE, among divines, denotes the particular man-

ner of celebrating divine fervice in this or that coun-Ritorallo

RITORNELLO, or REFEAT, in Messe, the burden of a long, or the repetition of the field or other verses of a sone at the end of each complet.

RITTERHUSIUS, CONRAD, a learned German civilian, born at Brunlwick in 1565. He was professor of civil haw at Altdorf, and published a variety of works, particularly as a civilian; together with an elition of Oppian in Greek and Latin: he was moreover an excellent critic; his notes upon many eminent authors having been inferted in the best editions of them. He died in 1613.

RITUAL, a book directing the order and manner to be observed in performing divine service in a particular church, dionese, or the like. The ancient heathens had also their rituals, which contained their rites and ceremonies to be observed in building a city, conserving a temple or altar, in factificing, and deispire, in dividing the curies, tibes, centuries, and, in gaseral, in all their religious ceremonies. There are several passages in Cato's books, De re Russian, which may give us some idea of the rituals of the an cients.

RIVAL, a term applied to two or more persons who have the same pretentions; and which is properly applied to a competitor in love, and figuratively to an antagonist in any other pursuit.

# RIVER,

Definition.

. IS a current of fresh water, slowing in a BED or CHAN-

NEL from its fource to the fea.

The term is appropriated to a confiderable collection of waters, furmed by the conflux of two or more Broots, which deliver into its channel the united literams of leveral RIVULETS, which have collected the fupplies of many RILLS trickling down from numberless fprings, and the torrents which carry off from the floping grounds

the furplus of every thower.
Utility of Rivers form one of the c

Rivers form one of the chief features of the furface of this globe, ferving as voiders of all that is immediately redundant in our rains and forings, and alfo as boundaries and barriers, and even as highways, and in many coura-ies as plentiful florehouses. They alfo fertilize our foil by laying upon our warm fields the richest mould, brought from the high mountains, where it would have remained useless for want of genial

Origin of their names.

rivers.

Being fuch interesting objects of attention, every branch acquires a proper name, and the whole acquires a fort of personal identity, of which it is frequently difficult to find the principle; for the name of the great body of waters which discharge itself into the fea is traced backwards to one of the fources, while all the contributing streams are lost, although their waters form the chief part of the collection. And sometimes the feeder in which the name is preserved is smaller than others which are united to the current, and which like a rich but ignoble alliance lost their name in that of the more illustrious family. Some rivers in-

deed are refpectable even at their birth, coming at once in force from fome great lake. Such is the Rio de la Plata, the river St Laurence, and the mighty itreams which iffue in all directions from the Baical lake. But, like the fons of Adam, they are all of equal defcent, and should take their name from one of the feeders of thefe lakes. This is indeed the cafe with a few, fuch as the Rhone, the Rhine, the Nile. Thefe, after having mixed their waters with those of the lake, retime their appearance and their name at its outfet.

But in general their origin and progress, and even Origin and

the features of their character, bear fome refemblance in the S-(as has been prettily observed by Pliny) to the life of man. The river fprings from the earth; but its origin is in heaven. Its beginnings are infignificant, and its infancy is frivolous; it plays among the flowers of a meadow; it waters a garden, or turns a little mill. Gathering strength in its youth, it becomes wild and impetuous. Impatient of the restraints which it still meets with in the hollows among the mountains, it is reftlefs and fretful; quick in its turnings, and unfleady in its course. Now it is a roaring cataract, tearing up and overturning whatever oppoles its progrels, and it floots headlong down from a rock; then it becomesa fullen and gloomy pool, baried in the bottom of a glia. Recovering breath by repofe, it again dashes along, till tired of the uprost and mischief, it quits all that it has fwept along, and leaves the opening of the valley fixewed with the rejected wafte. Now, quitting its retirement, it comes abroad into the world, jourHistory. neving with more prudence and discretion, through cultivated fields, yielding to circumstances, and winding round what would trouble it to overwhelm or remove. It passes through the populous cities and all the busy haunts of man, tendering its services on every fide, and becomes the support and ornament of the country. Now increased by numerous alliances, and advanced in its course of existence, it becomes grave and stately in its motions, loves peace and quiet; and in majestic filence rolls on its mighty waters, till it is laid to rest in the vaft abyfs.

The religious rezivers.

The philosopher, the real lover of wisdom, sees much to admire in the economy and mechanism of running waters; and there are few operations of nature which give him more opportunities of remarking the nice adjustment of the most simple means for attaining many purpoles of most extensive beneficence. All mankind feems to have felt this. The heart of man is ever open (unless perverted by the habits of fellish indulgence and arrogant felf-conceit) to impressions of gratitude and love. He who afcribes the religious principle (debased though it be by the humbling abuses of superstition) to the workings of fear alone, may betray the flavish meanness of his own mind, but gives a very unfair and a false picture of the hearts of his neighbours. Lucretius was but half a philosopher when he penned his often quoted apophthegm. Indeed his own invocation shows how much the animal was blended with

The effect affection.

We apprehend, that whoever will read with an honest and candid mind, unbiasfied by licentious wishes, the accounts of the ancient fuperstitions, will acknowledge that the amiable emotions of the human foul have had their share in creating the numerous divinities whose worship filled up their kalendars. The fun and the host of heaven have in all ages and nations been the objects of a fincere worship. Next to them, the rivers feem to have attracted the grateful acknowledgments of the inhabitants of the adjacent coun-They have everywhere been confidered as a fort of tutelar divinities; and each little district, every retired valley, had its river god, who was preferred to all others with a partial fondness. The expostulation of Naaman the Syrian, who was offended with the prophet for enjoining him to wash in the river Jordan, was the natural effusion of this attachment. " What! (faid he), are not Abana and Pharpar, rivers of Damafcus, more excellent than all the waters of Judæa? Might I not wash in them and be clean? So he went away wroth."

In those countries particularly, where the rural labours, and the hopes of the shepherd and the husbandman, were not so immediately connected with the approach and recess of the fun, and depended rather on what happened in a far distant country by the falls of periodical rains or the melting of collected fnows, the Nile, the Ganges, the Indus, the river of Pegu, were the fensible agents of nature in procuring to the inhabitants of their fertile banks all their abundance, and they became the objects of grateful veneration. Their fources were fought out with anxious care even by conquering princes; and when found, were univerfally worshipped with the most affectionate devotion. These remarkable rivers, fo eminently and fo palpably beneficent, preserve to this day, amidst every change of ha-

bit, and every increase of civilization and improvement. History. the fond adoration of the inhabitants of those fruitful countries through which they hold their stately course, and their waters are still held facred. No progress of artificial refinement, not all the corruption of luxurious fenfuality, has been able to eradicate this plant of native growth from the heart of man. The fentiment is congenial to his nature, and therefore it is univerfal: and we could almost appeal to the feelings of every reader, whether he does not perceive it in his own breaft. Perhaps we may be mistaken in our opinion in the case of the corrupted inhabitants of the populous and bufy cities, who are habituated to the fond contemplation of their own individual exertions as the fources of all their hopes. Give the thoemaker but leather and a few tools, and he defies the powers of nature to disappoint him; but the fimpler inhabitants of the country, the most worthy and the most respectable part of every nation. after equal, perhaps greater exertion both of skill and of industry, are more accustomed to refign themselves to the great ministers of Providence, and to look up to heaven for the " early and the latter rains," without which all their labours are fruitless.

extrema per illos Numenque excedens terris vestigia fecit.

And among the husbandmen and the shepherds of all nations and ages, we find the fame fond attachment to their fprings and rivulets.

Fortunate fenex, hic inter flumina nota Et fontes sacros frigus captabis opacum,

was the mournful ejaculation of poor Melibœus. We hardly know a river of any note in our own country whole fource is not looked on with fome respect.

We repeat our affertion, that this worship was the offspring of affection and gratitude, and that it is giving a very unfair and false picture of the human mind to ascribe these superstitions to the working of fear alone. These would have represented the river gods as seated on ruins, brandishing rooted-up trees, with angry looks, pouring out their fweeping torrents. But no fuch thing. The lively imagination of the Greeks felt, and expressed with an energy unknown to all other nations, every emotion of the human foul. They figured the Naiads as beautiful nymphs, patterns of gentlenefs and of elegance. These are represented as partially attached to the children of men; and their interference in human affairs is always in acts of kind, affutance and protection. They refemble, in this respect, the rural deities of the northern nations, the fairies, but without their caprices and refentments. And if we attend to the descriptions and representations of their RIVER-Gops, beings armed with power, an attribute which flavish fear never fails to couple with crucity and vengeance, we shall find the same expression of affectionate trust and confidence in their kind dispositions. They are generally called by the respectable but endearing name of father. " Da Tyberi pater," fays Virgil. Mr Bruce fays that the Nile at its fource is called the aboy or "father." We observe this word, or its radix, blended with many names of rivers of the cast; and think it probable that when our traveller got this name from the inhabitants of the neighbourhood, they applied to the fiream what is meant to express the tutelar or

History. presiding spirit. The river gods are always represented as venerable old men, to indicate their being coeval with the world. But it is always a cruda viridifine feneclus, and they are never represented as oppressed with age and decrepitude. Their beards are long and flowing, their looks placid, their attitude eafy, reclined on a bank, covered, as they are crowned, with never fading fedges and bulrushes, and leaning on their urns, from which they pour out their plentiful and fertilizing freams. -Mr Bruce's description of the sources of the Nile, and of the respect paid to the facred waters, has not a frowning feature; and the hospitable old man, with his fair daughter Irepone, and the gentle priesthood which peopled the little village of Geesh, form a contrast with the neighbouring Galla (among whom a military leader was called the lamb, because he did not murder pregnant women), which very clearly paints the inspiring principle of this superstition. Pliny says (lib. viii. 8.) that at the fource of the Clitumnus there is an ancient temple highly respected. The presence and the power of the divinity are expressed by the faces which stand in the vestibule .- Around this temple are feveral little chapels, each of which covers a facred fountain; for the Clitumnus is the father of feveral little rivers which unite their streams with him. At some distance below the temple is a bridge which divides the facred waters from those which are open to common use. No one must presume to set his foot in the freams above this bridge; and to step over any of them is an indignity which renders a person infamous. They can only be visited in a consecrated boat. Below the bridge we are permitted to bathe, and the place is incessantly occupied by the neighbouring villagers. (See also Vibius Sequestr. Orbelini, p. 101-103. and 221-223. also Sueton. Caligula, c. 43. Virg. Georg. ii. 146.

What is the cause of all this? The Clitumous flows (near its fource) through the richest pastures, through which it was carefully distributed by numberless drains; and these nourished cattle of such spotless whiteness and extraordinary beauty, that they were fought for with eagerness over all Italy, as the most acceptable victims in their facrifices. Is not this superstition then an effusion

of gratitude?

Such are the dictates of kind-hearted nature in our breads, before it has been vitiated by vanity and felfconceit, and we should not be assumed of feeling the impression. We hardly think of making any apology for dwelling a little on this incidental circumstance of the faper litious veneration said to rivers. We cannot think that our readers will be displeased at having agreeable ideas excited in their minds, being always of opinion that the torch of true philosophy will not only enlighten the understanding, but also warm and cherish the affestims of the heart.

V. ith respect to the origin of rivers, we have very little to offer in this place. It is obvious to every perfon, that be des the torre is which carry down into the rivers what part of the rains end me icd mows is not absorbed by the soil or taken up by t e plants which cover the earth, they are fed either immediately or remotely by the fprings. A few remarkable wearns ruth at once out of the earth in force, and must be confidered as the continuation of fubterraneous rivers, whole brigin we are therefore to feek out; and we no not Vol. XVIII. Part I.

know any circumstance in which their first beginnings. History, differ from those of other rivers, which are formed by the union of little streams and rills, each of which has its own fource in a spring or fountain. This question, therefore, What is the process of nature, and what are the supplies which fill our springs? will be treated of under the word SPRING.

Whatever be the fource of rivers, it is to be met with in almost every part of the globe. The crust of earth with which the rocky framing of this globe is covered is generally stratified. Some of these strata are extremely pervious to water, having but fmall attraction for its particles, and being very porous. Such is the quality of gravelly strata in an eminent degree. Other Itrata are much more firm, or attract water more frong-ly, and refuse it passage. This is the case with firm rock and with clay. When a stratum of the first kind has one of the other immediately under it, the water remains in the upper stratum, and bursts out wherever the floping fides of the hills cut off the strata, and this will be the form of a trickling spring, because the water in the porous ftratum is greatly obstructed in its passage towards the outlet. As this irregular formation of the earth is very general, we must have springs, and of course rivers or rivulets, in every corner where there are high grounds.

Rivers flow from the higher to the low grounds. It They flow is the arrangement of this elevation which distributes from the them over the furface of the earth. And this appears the lower to be accomplished with considerable regularity; and, grounds. except the great defert of Kobi on the confines of Chinese Tartary, we do not remember any very extensive tract of ground that is deprived of those channels for

voiding the superfluous waters; and even there they are

far from being redundant.

The courses of rivers give us the best general method Course of for judging of the elevation of a country. Thus it the rivers of appears that Savoy and Suitzerland are the biological Europe, appears that Savoy and Switzerland are the highest grounds of Europe, from whence the ground flopes in every direction. From the Alps proceed the Danube and the Rhine, whose courses mark the two great valleys, into which many lateral streams descend. The Po also and the Rhone come from the same head, and with a freeper and shorter course and their way to the fea through valleys of less breadth and length. On the west side of the valleys of the Rhine and the Rhone the ground rifes pretty fast, so that few tributary streams come into them from that side; and from this gentle elevation France flopes to the westward. If a line, nearly firaight, but bending a little to the northward be drawn from the head of Savoy and Switzerland all the way to Solikamikoy in Siberia, it will nearly pass through the most elevated part of Europe; for in this tract most of the rivers have their rife. On the left go off the various feeders of the Elbe, the Oder, the Wefel, the Niemen, the Duna, the Neva, the Dwina, the Petzora. On the right, after p fling the feeders of the Danube, we fee the fources of the Sereth and Pruth, the Discourt, the Bog, the Dnieper, the Den, and the mighty Vol a. The elevation, however, is extremel, moderate; and it appears from the levels taken with the barometer by the Abbé Chappe d'Auteroche, that the head of the Volga is not more than 470 feet above the surface of the ocean. And we may obtene here by the bye, that its mouth, where

Trigin of

History. it delcharges its waters into the Caspian sea, is undoubtedly lower by many feet, than the furface of the occun. See PNEUMATICS, No 277. Spain and Finland, with Lapland, Norway, and Sweden, form two detiched parts, which have little fymmetry with the reft

of Afia.

A chain of mountains begins in Nova Zembla, and firetches due fouth to near the Cafpian fea, dividing Europe from A.la. About three or four degrees north of the Caspian sea it bends to the fouth-east, traverses western Tartary, and passing between the Tengis and Zaizan lakes, it then branches to the east and fouth. The eattern branch runs to the thores of Korea and Kamtfchatka. The fouthern branch traverfes Turkeitan and Thibet, separating them from India, and at the head of the kingdom of Ava joins an arm stretching from the great eastern branch, and here forms the centre of a very fingular radiation. Chains of mountains iffue from it in every direction. Three or four of them keep very close together, dividing the continent into narrow thips, which have each a great river flowing in the middle, and reaching to the extreme points of Malacca, Cambodia, and Cochin-china. From the same central point proceeds another great ridge due east, and passes a little north of Canton in China. We called this a fingular centre; for though it fends off fo many branches, it is by no means the most elevated part of the continent. In the triangle which is included between the first fouthern ridge (which comes from between the lakes Tanges and Zaizan), the great eaftern ridge, and its branch which almost unites with the fouthern ridge, lies the Boutan, and part of Thibet, and the many little rivers which occupy its furface flow fouthward and eastward, uniting a little to the north of the centre often mentioned, and then pass through a gorge enstward into China. And it is farther to be observed, that these great ridges do not appear to be feated on the highest parts of the country; for the rivers which correspond to them are at no great distance from them, and receive their chief supplies from the other fides. This is remarkably the case with the great Oby, which runs almost parallel to the ridge from the lakes to Nova Zembla. It receives its supplies from the east, and indeed it has its fource far eaft. The highest grounds (if we except the ridges of mountains which are boundaries) of the continent feem to be in the country of the Calmucs, about 95° cast from London, and latitude 43° or 450 north. It is represented as a fine though landy country, having many little rivers which lofe themfelves in the fand, or end in little falt lakes. This elevation firetches north-east to a great distance; and in this tract we find the heads of the Irtish, Selenga, and Tunguskaia (the great feeders of the Oby), the Olenitz, the Lera, the Yana, and some other rivers, which all go off to the north. On the other fide we have the great river Amur, and many smaller rivers, whose names are not familiar. The Hoangho, the great river of China, rifes on the fouth fide of the great eastern ridge we have to often mentioned. This elevation, which is a continuation of the former, is fomewhat of the fame complexion, being very fandy, and at prefent is a defert of prodigious extent. It is described, however, as interspersed with vast tracts of rich pasture; and we know that it was formerly the refidence of a great nation, who came fouth, by the name of Turks, and possessed

themselves of most of the richest kingdoms of Asia. In History. the fouth-western extremity of this country are found remains not only of barbaric magnificence, but even of cultivation and elegance. It was a profitable privilege granted by Peter the Great to some adventurers to tearch these sandy deserts for remains of sormer opulence, and many pieces of delicate workmanship (though not in a flyle which we would admire) in gold and filver were found. Vaults were found buried in the fand filled with written papers, in a character wholly unknown; and a wall was discovered extending several miles, built with hewn stone, and ornamented with corniche and battlements. But we are forgetting ourselves, and return to the confideration of the distribution of the rivers on the furface of the earth. A great ridge of mountains begins at the fouth-east corner of the Euxine fea, and proceeds eastward, ranging along the fouth fide of the Caspian, and still advancing unites with the mountains first mentioned in Thibet, sending off some branches to the south, which divide Persa, India and Thibet. From the fouth fide of this ridge flow the Euphrates, Tigris, Indus, Ganges, &c. and from the north the ancient Oxus and many unknown fireams.

There is a remarkable circumstance in this quarter of the globe. Although it feems to be nearest to the greatest elevations, it seems also to have places of the greatest depression. We have already said that the Caspian sea is lower than the ocean. There is in its neigh. bourhood another great bason of falt water, the lake Aral, which receives the waters of the Oxus or Gihon, which were faid to have formerly run into the Caspian fea. There cannot, therefore, be a great difference in the level of these two basons; neither have they any outlet, though they receive great rivers. There is another great lake in the very middle of Perfia, the Zare or Zara, which receives the river Hindemend, of near 250 miles length, besides other streams. I here is another such in Afia Minor. The fea of Sodom and Gomorrah is another instance. And in the high countries we mentioned, there are many small falt lakes, which receive little rivers, and have no outlet. The lake Zara in Persia, however, is the only one which indicates a confiderable hollow of the country. It is now afcertained, by actual furvey, that the sea of Sodom is considerably higher than the Mediterranean. This feature is not, however, peculiar to Afia. It obtains also in Africa, whose rivers we now proceed to mention.

Of them, however, we know very little. The Nile of Africa. indeed is perhaps better known than any river out of Europe; and of its fource and progress we have given a full account in a separate article. See NILE.

By the register of the weather kept by Mr Bruce at Gondar in 1770 and 1771, it appears that the greatest rains are about the beginning of July. He fays that at an average each month after June it doubles its rains. The calish or canal is opened at Cairo about the oth of August, when the river has rifen 14 peeks (each 21 inches), and the waters begin to decrease about the 15th of September. Hence we may form a conjecture concerning the time which the latter employs in coming from Abysfinia. Mr Bruce supposes it o days, which suppoles a velocity not less than 14 teet in a second; a thing past belief, and inconsistent with all our notions. The general flope of the river is greatly diminished by feveral great cataracts; and Mr Bruce expressly says, that

Hatory. He might have come down from Sennaar to the cataracts of ovene in a boat, and that it is navigable for boats for above Sennaar. He came from Svene to Cairo by water. We apprehend that no boat would venture down a fiream muving even fix feet in a fecond, and none could row up if the velocity was three feet. As the waters begin to decrease about the 10th of September, we must conclude that the water then slowing past Cairo had left. Abytimia when the rains had greatly abated. Judging in this way, we must still allow the stream a velocity of more than fix feet. Had the first fivell at Cairo been noticed in 1770 or 1771, we might have gueffed better. The year that Theyenot was in Egypt, the first swell of eight peeks was observed Jan. 28. The calish was opened for 14 peeks on August 14th, and the waters began to decrease on September 23d, having rifen to 214 peeks. We may suppose a similar progress at Cairo corresponding to Mr Bruce's observations at Gondar, and date every thing five days earlier

> We understand that some of our gentlemen stationed far up the Ganges have had the curiofity to take notes of the fwellings of that river, and compare them with the overflowings at Calcutta, and that their observations are about to be made public. Such accounts are valuable additions to our practical knowledge, and we shall not neglect to infert the information in some kindred ar-

ticle of this work.

The fame mountains which attract the tropical vapours, and produce the fertilizing inundations of the Nile, perform the fame office to the famous Niger, whose existence has often been accounted fabulous, and with whose course we have very little acquaintance. The refearches of the gentlemen of the African affociation render its existence no longer doubtful, and have greatly excited the public curiofity. For a farther account of its track, fee NIGER.

From the great number, and the very moderate fize, of the rivers which fall into the Atlantic ocean all the way fouth of the Gambia, we conclude that the wellern shore is the most elevated, and that the mountains are at no great distance inland. On the other hand, the rivers at Melinda and Sofala are of a magnitude which indicate a much longer course. But of all this we speak

with much uncertainty.

The frame-work (so to call it) of America is better

known, and is fingular,

A chain of mountains begins, or at least is found, in longitude 1100 west of London, and latitude 400 north, on the northern confines of the kingdom of Mexico, and firetching fouthward through that kingdom, forms the ridge of the neck of land which separates North from South America, and keeping almost close to the shore, ranges along the whole western coast of South America, terminating at Cape Horn. In its course it sends off branches, which after separating from it for a few leagues, rejoin it again, inclofing valleys of great extent from north to fouth, and of prodigious elevation. In one of thefe, under the equatorial fun, stands the city of Quito, in the midst of extensive fields of barley, oats, wheat, and gardens, containing apples, pears, and goofeberries, and in short all the grains and fruits of the cooler parts of Europe; and although the vine is also there in perfection, the olive is wanting. Not a dozen miles from it, in the low countries, the fugar-cane, the s indigo, and all the fruits of the torrid zone, find their congenial heat, and the inhabitants swelter under a History. burning fun. At a small dulance on the other hand tower aloft the pinnacles of Pichincha, Corambourou, and Chimboracao, crowned with never-melting fnows.

The individual mountains of this flupendous range not only exceed in height all others in the world (if we except the Peak of Teneriffe, Mount Ætna, and Mont Blanc); but they are fet down on a base incomparably more elevated than any other country. They cut off therefore all communication between the Pacific ocean and the inland continent; and no rivers are to any confiderable length of courfe or body of waters. The country is drained, like Africa, in the oppoint direc-Not 100 miles from the city of Lima, the capital of Peru, which lies almost on the sea thore, and just at the foot of the high Cordill ras, arises out of a imail ning northward for about 100 miles, takes an eater's direction, and croffes nearly the broade t part of South America, and falls into the great western one n at Para, after a course of not less than 3500 miles. In the first from the north, and from the fouth it receives the great river Combos, firinging from another little lake not 50 miles dillant from the head of the Man gnon, and inclofing between them a wide extent of country. Then it receives the Yuta, the Yuerva, the Cuchivara, and Parana Mire, each of which is equal to the Rhine; and then the Madeira, which has flowed above 1300 miles. At their junction the breadth is fo great, that neither thore can be feen by a person standing up in a canoe : so that the united ffream must be about fix miles broad. In this majestic form it rolls along at a prodigious rate through a flat country, covered with impenetrable foreits, and most of it as yet untrodden by human feet. Mr Condamine, who came down the ftream, fays, that all is filent as the defert, and the wild beafts and numberless birds crowd round the boat, eyeing it as some animal of which they did not feem afraid. The bed was cut deep through an equal and vielding foil, which feemed rich in every part, if he could judge by the vegetation, which was rank in the extreme. What an addition this to the possible population of this globe ! A narrow slip along each bank of this mighty river would equal in furface the whole of Europe, and would probably exceed it in general fertility: and although the velocity in the main stream was great, he observed that it was extremely moderate, nay almost still, at the fides; fo that in those parts where the country was inhabited by men, the Indians paddled up the river with perfect case. Boats could go from Para to near the mouth of the Madeira in 38 days, which is near 1200 miles.

Mr Condamine made an observation during his pasfage down the Maragnon, which is extremely curious and instructive, although it puzzled him very much. He observed that the tide was sensible at a vast distance from the mouth: It was very confiderable at the junction of the Mad ira; and he supposes that it might have been observed much farther up. This appeared to him very furprifing, because there could be no doubt but that the furface of the water there was higher by a great many feet than the furface of the flood of the Atlantic ocean at the mouth of the river. It was here-

and of A-

merica.

History. fore very natural for hun to ascribe the tide in the Maragnon to the immediate action of the moon on its waters; and this explanation was the more reasonable, becaule the river extends in the direction of terrestrial longitude, which by the Newtonian theory is most favourable to the production of a tide. Journeying as he did in an Indian canoe, we cannot suppose that he had much leifure or conveniency for calculations, and therefore are not jurprifed that he did not fee that even this circum' ance was of little avail in fo fmall or shallow a body of water. He carefully noted, however, the times of high and low water as he passed along. When arrived at Para, he found not only that the high water was later and later as we are farther from the mouth, but he found that at one and the fame inflant there were feveral points of high water between Para and the confluence of the Madeira, with points of low water intervening. This conclusion was easily drawn from his own observations, although he could not see at one instant the high waters in different places. He had only to compute the time of high water at a particular fpot, on the day he observed it at another; allowing, as usual, for the moon's change of position. The result of his observations therefore was, that the surface of the river was not an inclined plane whose slope was leffened by the tide of flood at the mouth of the river, but that it was a waving line, and that the propagation of the tide up the river was nothing different from the pro-pagation of any other wave. We may conceive it clearly, though imperfectly, in this way. Let the place be noted where the tide happens 12 hours later than at the mouth of the river. It is evident that there is also a tide at the very mouth at the fame instant; and, fince the ocean tide had withdrawn itself during the time that the former tide had proceeded fo far up the river. and the tide of ebb is fuccessively felt above as well as the tide of flood, there must be a low water between thefe two high waters.

Newton had pointed out this curious fact, and obferved that the tide at London-Bridge, which is 43 feet above the fea, is not the fame with that at Gravefend, but the preceding tide (See Phil. Tranf. 67.). This will be more particularly infilted on in another place.

Not far from the head of the Maragnon, the Cordilteras fend off a branch to the north-east, which reaches and ranges along the shore of the Mexican gulf, and the Rio Grande de Sta Martha occupies the angle be-

tween the ridges.

Another ridge ranges with interruption along the ead coaft of Terra Firma, fo that the whole waters of this country are collected into the Oroonoko. In like manner the north and east of Brafil are bemmed in by mountainous ridges, through which there is no confiderable paffage; and the ground floping backwards, all the waters of this immense tract are collected from both fides by many confiderable rivers into the great river Paraguay, or Rio de la Plata, which runs down the middle of this country for more than 1400 miles, and falls into the fea through a vast mouth in latitude

35°.
Thus the whole of South America feems as if it had been formerly furrounded by a mound, and been a great bason. The ground in the middle, where the Parama, the Madeira, and the Plata, take their rife, is an im-

mense marsh, uninhabitable for its exhalations, and quite History, impervious in its present state.

The manner in which the continent of North Amenica is watered, or rather drained, has also some peculiarities. By looking at the map, one will observe first of all a general division of the whole of the best known part into two, by the valleys in which the beds of the rivers St Laurence and Milliffippi are fitmated. The head of this is occupied by a fingular feries of fresh water feas or lakes, viz. the lakes Superior and Michigan, which empty themselves into lake Huron by two cataracts. This again runs into lake Erie by the river Detroit, and the Erie pours its waters into the Ontario by the famous fall of Niagara, and from the Ontario proceeds the great river St Laurence.

The ground to the fouth-west of the lakes Superior and Erie is somewhat lower, and the middle of the valley is occupied by the Miffiffippi and the Miffouri, which receive on both fides a number of fmaller streams, and having joined proceed to the fouth, under the name Miffiffippi. In latitude 37, this river receives into its bed the Ohio, a river of equal magnitude, and the Cherokee river, which drains all the country lying at the back of the United States, separated from them by the ranges of the Apalachian mountains. The Miffiffippi is now one of the chief rivers on the globe, and proceeds due fouth, till it falls into the Mexican bay through feveral shifting mouths, which greatly resemble those of the Danube and the Nile, having run above 1200

The elevated country between this bed of the Miffiffippi and St Laurence and the Atlantic ocean is drained on the east fide by a great number of rivers, some of which are very confiderable, and of long course; because instead of being nearly at right angles to the coast, as in other countries, they are in a great measure parallel to it. This is more remarkably the case with Hudson's river, the Delaware, Patomack, Rapahanoc, &c. Indeed the whole of North America feems to confift of ribs or beams laid nearly parallel to each other from north to fouth, and the rivers occupy the interffices. All those which empty themselves into the bay of Mexico are parallel and almost perfectly straight, unlike what are feen in other parts of the world. The westermost of them all, the North River, as it is named

by the Spaniards, is nearly as long as the Miffiffippi, We are very little informed as yet of the diffribution of rivers on the north-west coast of America, or the course of those which run into Hudson's or Bassin's

The Maragnon is undoubtedly the greatest river in Of the the world, both as to length of run and the vaft body great riof water which it rolls along. The other great rivers vers fucceed nearly in the following order.

Maragnon, Amur, Senegal, ., Oroonoko. Nile, Ganges, St Laurence, Euphrates, Hoangho, Danube, Rio de la Plata, Don, Yenifey, Indus, Missifippi, Dnieper, Volga, Duina, Oby, Sic.

Theory.

We have been much affilled in this account of the course of rivers, and their distribution over the globe, by a beautiful planifphere or map of the world published by Wr Bode altronomer royal at Berlin. The ranges of mountains are there laid down with philosophical difcernment and precision; and we recommend it to the notice of our geographers. We cannot divine what has canfed Mr Buffon to fav that the course of most rivers is from east to west or from west to east. No physical point of his faftem feems to require it, and it needs only

that we look at his own map to fee its falfity. We Theory should naturally expect to find the general course of rivers nearly perpendicular to the line of fea-coalt; and we find it fo; and the chief exceptions are in opposition to Mr Buffon's affertion. The ftrusture of America is fo particular, that very few of its rivers have their ceneral course in this direction. We proceed now to confider the motion of rivers; a fubject which naturally refolves itself into two parts, theoretical and practi-

### PART I. THEORY OF THE MOTION OF RIVERS AND CANALS.

rivers and

THE importance of this subject needs no commenof the doc- tary. Every nation, every country, every city is intrine of the terefted in it. Neither our wants, our comforts, nor our pleafures, can dispense with an ignorance of it. We must conduct their waters to the centre of our dwellings; we must secure ourselves against their ravages; we must employ them to drive those machines which, by compensating for our personal weakness, make a few able to perform the work of thousands; we employ them to water and fertilize our fields, to decorate our manfions, to cleanle and embellish our cities, to preserve or extend our demelnes, to transport from county to county every thing which necessity, convenience, or luxury, has rendered precious to man: for these purpofes we must confine and govern the mighty rivers, we must preferve or change the beds of the smaller streams, draw off from them what shall water our fields, drive our machines, or fupply our houses. We must keep up their waters for the purpofes of navigation, or fupp'y their places by canals; we must drain our fens, and defend them when drained; we must understand their motions, and their mode of fecret, flow, but unceasing action, that our bridges, our wharfs, our dikes, may not become heaps of ruins. Ignorant how to proceed in these daily recurring cases, how often do we see projects of high expectation and heavy expence fail of their object, leaving the state burdened with works not only useless but frequently hurtful?

This has long been a most interesting subject of study in Italy, where the fertility of their fields is not more indebted to their rich foil and happy climate, than to their numerous derivations from the rivers which traverse them: and in Holland and Flanders, where their very existence requires unceasing attention to the waters, which are every moment ready to swallow up the inhabitants; and where the inhabitants, having once fubdued this formidable enemy, have made those very waters their indefatigable drudges, transporting through every corner of the country the materials of the most ex-

tenfive commerce on the face of this globe.

Such having been our inceffant occupations with moving waters, we flould expect that while the operative artifts are continually furnishing facts and experiments, the man of freculative and scientific curiosity, excited by the importance of the fubject, would ere now have made confiderable progress in the science; and that the professional engineer would be daily acting from established principle, and be seldom disappointed in his expeclations. Unfortunately the reverse of this is nearly'the true state of the case; each engineer is obliged

to collect the greatest part of his knowledge from his own experience, and by many dear-bought lessons, to direct his future operations, in which he still proceeds with anxiety and hesitation: for we have not yet acquired principles of theory, and experiments have not yet been collected and published by which an empirical practice might be fafely formed. Many experiments of inestimable value are daily made; but they remain with their authors, who feldom have either leifure, ability, or

generotity, to add them to the public flock.

The motion of waters has been really fo little invef- This fcience tigated as yet, that hydraulics may still be called a new as yet in study. We have merely skimmed over a few common notions concerning the motions of water; and the mathematicians of the first order feem to have contented themselves with such views as allowed them to entertain themselves with elegant applications of calculus. This, however, has not been their fault. They rarely had any opportunity of doing more, for want of a knowledge of facts. They have made excellent use of the few which have been given them; but it required much labour, great variety of opportunity, and great expence, to learn the multiplicity of things which are combined even in the simplest cases of water in motion, These are seldom the lot of the mathematician; and he is without blame when he enjoys the pleafures within his reach, and cultivates the fcience of geometry in its most abstracted form. Here he makes a progress which is the boast of human reason, being almost insured from error by the intellectual simplicity of his subject. But when we turn our attention to material objects, and, without knowing either the fize and shape of the elementary particles, or the laws which nature has preferibed for their action, prefime to forese their effects, calculate their exertions, direct their actions, what must be the consequence? Nature shows her independence with respect to our notions, and, always faithful to the laws which are enjoined, and of which we are ignorant, the never fails to thwart our views, to disconcert our projects, and render ufeless all our efforts.

To wish to know the nature of the elements is vairi, Proper and our profs organs are infufficient for the fludy To mode of insuppose what we do not know, and to fancy shapes and vestigation. fizes at will; this is to raife phantoms, and will produce a fyftem, but will not prove a foundation for any science. But to interrogate Nature herself, study the laws which the fo faithfully observes, catch her, as we fay, in the fact, and thus wrest from her the fecret; this is the only way to become her mafter, and it is the only procedure confishent with good sense. And we see,

The !!! that from after Kepler detected the laws of the planetary motions, when Galileo discovered the uniform acceleration of gravity, when Paschal discovered the preffure of the atmosphere, and Newton discovered the laws of attraction and the track of a ray of light; ailronomy, mechanics, hydrostatics, chemistry, optics, quickly became bodies of found doctrine; and the deductions from their respective theories were found fair representations of the phenomena of nature. Whenever a man has discovered a law of nature, he has laid the foundation of a science, and he has given us a new mean of fubjecting to our fervice fome element hitherto independent: and fo long as groups of natural operations follow a route which appears to us whimfical, and will not admit our calculations, we may be affured that we are ignorant of the principle which connects them all,

motion,

This is remarkably the cafe with feveral phenomena Our igno- in the motions of fluids, and particularly in the motion rance of the of water in a bed or conduit of any kind. Although general laws of this the first geniuses of Europe have for this century past turned much of their attention to this subject, we are almost ignorant of the general laws which may be obferved in their motions. We have been able to felect very few points of refemblance, and every cafe remains nearly an individual. About 150 years ago we discovered, by experience only, the quantity and velocity of water issuing from a small orifice, and, after much labour, have extended this to any orifice; and this is almost the whole of our confidential knowledge. But as to the uniform course of the streams which water the face of the earth, and the maxims which will certainly regulate this agreeably to our wishes, we are in a manner totally ignorant. Who can pretend to fay what is the velocity of a river of which you tell him the breadth. the depth, and the declivity? Who can fav what swell will be produced in different parts of its course, if a dam or weir of given dimensions be made in it, or a bridge be thrown acrois it? or how much its waters will be raifed by turning another stream into it, or funk by taking off a branch to drive a mill? Who can fay with confidence what must be the dimensions or slope of this branch, in order to furnish the water that is wanted, or the dimensions and slope of a canal which shall effectually drain a fenny diffrict? Who can fay what form will cause or will prevent the undermining of banks, the forming of elbows, the pooling of the bed, or the de-position of fands? Yet these are the most important

and the causes of it.

The causes of this ignorance are the want or uncertainty of our principles; the falfity of our only theory, which is helied by experience; and the fmall number of proper observations or experiments, and difficulty of ma-king such as shall be serviceable. We have, it is true, made a few experiments on the efflux of water from small orifices, and from them we have deduced a fort of theory, dependant on the fall of heavy bodies and the laws of hydroftatic preffure. Hydroftatics is indeed founded on very fimple principles, which give a very good account of the laws of the quiescent equilibrium of fluids, in consequence of gravity and perfect fluidity. But by what train of reasoning can we connect these with the phenomena of the uniform motion of the waters of a river or open stream, which can derive its motion only from the flope of its furface, and the modifi-Theory. cations of this motion or its velocity only from the width and depth of the itream? These are the only circumstances which can distinguish a portion of a river from a veffel of the same size and shape, in which, however, the water is at rest. In both, gravity is the fole cause of pressure and motion; but there must be some circumstance peculiar to running waters which modifies the exertions of this active principle, and which, when discovered, must be the basis of hydraulics, and must oblige us to reject every theory founded on fancied hypothefes, and which can only lead to abfurd conclufions; and furely abfurd confequences, when legitimately drawn, are complete evidence of improper principles.

When it was discovered experimentally, that the ve-Principle locities of water iffuing from orifices at various depths on which under the furface were as the fquare roots of those the system depths, and the fact was verified by repeated experi-lies depend, ments, this principle was immediately and without modification applied to every motion of water. Mariotte, Varignon, Guglielmini, made it the basis of complete fystems of hydraulics, which prevail to this day, after having received various amendments and modifications. The same reasoning obtains through them all, though frequently obscured by other circumstances, which are more perspicuously expressed by Guglielmini in his Fun-

damental Theorems.

He confiders every point P (fig. 1.) in a mass of fluid as an orifice in the fide of a veffel, and conceives CCCCLXII the particle as having a tendency to move with the fame velocity with which it would iffue from the orifice. Therefore, if a vertical line APC be drawn through that point, and if this be made the axis of a parabolic ADE, of which A at the furface of the fluid is the vertex, and AB (four times the height through which a heavy body would fall in a fecond) is the parameter, the velocity of this particle will be represented by the ordinate PD of this parabola; that is, PD is the space

which it would uniformly describe in a second. From this principle is derived the following theory Theory derived from of running waters.

Let DC (fig. 2.) be the horizontal bottom of a re-itfervoir, to which is joined a floping channel CK of uniform breadth, and let AB be the furface of the standing water in the refervoir. Suppose the vertical plane BC pierced with an infinity of holes, through each of which the water iffues. The velocity of each filament will be that which is acquired by falling from the fur-face AB\*. The filament C, iffuing with this ve-\*See Gulocity, will then glide down the inclined plane like glielmini's any other heavy body; and (by the common doctrine of Hydraulies, the motion down an inclined plane) when it has arrived 21. at F, it will have the fame velocity which it would have acquired by falling through the height OF, the point O being in the horizontal plane AB produced. The fame may be faid of its velocity when it arrives at H or K. The filament immediately above C will also iffue with a velocity which is in the fubduplicate ratio of its depth, and will then glide down above the first filament. The same may be affirmed of all the filaments; and of the fuperficial filament, which will occupy the furface of the descending stream.

From this account of the genefis of a running fream quences of water, we may fairly draw the following confequences, drawn from

I. The this theory.

1. The velocity of any particle R, in any part of ments of immediate ruin and devastation. If the wa-Theory. the stream, is that acquired by falling from the horizontal plane AN.

2. The velocity at the bottom of the stream is everywhere greater than anywhere above it, and is least of all at the furface.

. 3. The velocity of the stream increases continually as

the ffream recedes from its fource. 4. The depths EF, GH, &c. in different parts of the thream, will be nearly in the inverse subduplicate ratio of the depths under the furface AN: for fince the fame quantity of water is running through every fection EF and GH, and the channel is supposed of uniform breadth, the depth of each fection must be inverfely as the velocity of the water passing through it. This velocity is indeed different in different filaments of the fection; but the mean velocity in each fection is in the subduplicate ratio of the depth of the filament under the furface AB. Therefore the ftream becomes more shallow as it recedes from the fource; and in confequence of this the difference between LH and MG continually diminithes, and the velocities at the bottom and furface of the stream continually approach to equality, and at a great diltance from the fource they differ infenfibly.

5. If the breadth of the stream be contracted in any part, the depth of the running water will be increased in that part, because the same quantity must still pass through; but the velocity at the bottom will remain the fame, and that at the furface will be less than it was before; and the area of the fection will be increased on

the whole.

are all con

perience.

6. Should a fluice be put across the stream, dipping a little into the water, the water must immediately rise on the upper fide of the fluice till it rifes above the level of the refervoir, and the smallest immersion of the sluice will produce this effect. For by lowering the fluice, the area of the fection is diminished, and the velocity cannot be increased till the water heap up to a greater height than the furface of the refervoir, and this acquires a preffure which will produce a greater velocity of efflux through the orifice left below the fluice.

7. An additional quantity of water coming into this channel will increase the depth of the stream, and the quantity of water which it conveys; but it will not increase the velocity of the bottom filaments, unless it

comes from a higher fource.

All these consequences are contrary to experience, trary to ex. and show the imperfection, at least, of the explanation.

The third confequence is of all the most contrary to experience. If any one will but take the trouble of following a fingle brook from its fource to the fea, he will find it most rapid in its beginnings among the mountains, gradually flackening its pace as it winds among the hills and gentler declivities, and at last creeping flowly along through the flat grounds, till it is checked and brought to rest by the tides of the ocean.

Nor is the fecond confequence more agreeable to obfervation. It is univerfally found, that the velocity of the furface in the middle of the stream is the greatest of all, and that it gradually diminishes from thence to the bottom and fides.

And the first consequence, if true, would render the running waters on the furface of this earth the inftruters of our rivers, in the cultivated parts of a country. which are two, three, and four hundred feet lower than their fources, ran with the velocity due to that height. they would in a few minutes lay the earth bare to the very bones.

The velocities of our rivers, brooks, and rills, being fo greatly inferior to what this theory affigns to them, the other confequences are equally contrary to experience. When a stream has its section diminished by parrowing the channel, the current increases in depth, and this is always accompanied by an increase of velocity through the whole of the fection, and most of all at the furface; and the area of the fection does not increase, but diminishes, all the phenomena, thus contradicting in every circumstance the deduction from the theory; and when the fection has been diminished by a fluice let down into the stream, the water gradually heaps up on the upper fide of the fluice, and, by its pressure, produces an acceleration of the stream below the sluice, in the same way as if it were the beginning of a stream, as explained in the theory. The velocity now is composed of the velocity preserved from the source and the velocity produced by this subordinate accumulation; and this accumulation and velocity continually increase, till they become fuch that the whole fupply is again discharged through this contracted section : any additional water not only increases the quantity carried along the stream, but also increases the velocity, and therefore the fection does not increase in the proportion of the quantity.

It is furprifing that a theory really founded on a con- The theory ceit, and which in every the most familiar and obvious however. circumstances is contradicted by facts, should have methas been with fo much attention. That Varignon should imme-generally diately catch at this notion of Guglielmini, and make it the writer the subject of many elaborate analytical memoirs, is not on the subto be wondered at. This author only wanted donner ject, prise au calcul; and it was a usual joke among the academicians of Paris, when any new theorem was invented, donnons le à Varignon à generaliser. But his numerous theorems and corollaries were adopted by all, and fill make the fubstance of the present systems of hydraulies. Gravefande, Muschenbrock, and all the elementary treatifes of natural philosophy, deliver no other doctrines; and Belidor, who has been confidered as the first of all the scientific engineers, details the same theory in his

great work the Architecture Hydraulique.

Guglielmini was, however, not altogether the dupe though of his own ingenuity. He was not only a pretty good some of the mathematician, but an affiduous and fagacious observer. more inge-He had applied his theory to some important cases its defects, which occurred in the course of his profession as in- and atspector of the rivers and canals in the Milanese, and to tempted to the course of the Danube; and could not but perceive apply that great corrections were necessary for making the them. theory quadrate in some tolerable manner with observation; and he immediately faw that the motion was greatly obstructed by inequalities of the canal, which gave to the contiguous filaments of the stream transverse motions, which thwarted and confused the regular progress of the rest of the stream, and thus checked its general progress. These obstructions, he observed, were most effectual in the beginning of its course, while yet a small rill, running among stones, and in a very

Theory unequal bed. The whole fiream being fmall, the ineneral effect was great. He also saw that the same caufes (thefe transverse motions produced by the unequal bottom) chiefly affected the contiguous filaments, and were the reasons why the velocity at the sides and bottom was fo much diminished as to be less than the fuperficial velocity, and that even this might come to be diminished by the same cause. For he observed, that the general stream of a river is frequently composed of a fort of boiling or tumbling motion, by which maffes of water are brought up to the furface and again defeend. Every person must recollect such appearances in the freshes of a muddy river; and in this way Guglielmini was enabled to account in fome measure for the difagreement of his theory with observation.

Mariotte had observed the same obstruction even in the smoothest glass pipes. Here it could not be ascribed to the checks occasioned by transverse motions. He therefore ascribed it to friction, which he supposed to diminish the motion of fluid bodies in the same manner as of folids: and he thence concludes, that the filaments which immediately rub on the fides of the tube have their velocity gradually diminished; and that the filaments immediately adjoining to thefe, being thus obliged to pass over them or outsirip them, rub upon them, and have their own velocity diminished in like manner, but in a finaller degree; and that the fucceeding filaments towards the axis of the tube fuffer fimilar but Smaller diminutions. By this means the whole fream may come to have a fmaller velocity; and at any rate the medium velocity by which the quantity difcharged is determined, is finaller than it would have

been independent of friction.

Guglielmini adopted this opinion of Mariotte, and in his next work on the Motion of Rivers, confidered this s the chief cause of the retardation; and he added a a third circumstance, which he confidered as of no less confequence, the viscidity or tenacity of water. He obrves that fyrup, oil, and other fluids, where this vifcidity is more remarkable, have their motions prodigi-oufly retarded by it, and supposes that water differs from them only in the degree in which it possesses this quality : and he fays, that by this means not only the particles which are moving more rapidly have their motions diminished by those in their neighbourhood which move flower, but that the filaments also which would have moved more flowly are accelerated by their more active neighbours; and that in this manner the fuperficial and inferior velocities are brought nearer to an equality. But this will never account for the universal fact, that the fuperficial particles are the fwiftest of all. The fisperficial particles, fays he, acquire by this means a greater velocity than the parabolic law allows them; he medium velocity is often in the middle of the depth; the numerous obfacles continually multiplied and repeated, cause the current to lose the velocity acquired by the fall; the flope of the bottom then diminishes, and often becomes very small, so that the force remaining is hardly able to overcome the obfracles which are fill repeated, and the river is reduced almost to a state of flamition. He observes, that the Rheno, a river of the Milanese, has near its mouth a slope of no more than 5", which he conf ers as quite in dequate to the 4

task; and here he introduces another principle, which Theory he considers as an essential part of the theory of open currents. This is, that there arites from the very depth of the stream a propelling force which restores a part of the lost velocity: He offers nothing in proof of this principle, but uses it to account for and explain the motion of waters in horizontal canals. The principle has been adopted by the numerous Italian writers on hydraulics, and, by various contrivances; interwoven with the parabolic theory, as it is called, of Guglielmini. Our readers may fee it in various modifications in the Idroflatica e Idraulica of P. Lecchi, and in the Sperienze Idrauliche of Michelotti. It is by no means distinct either in its origin or in the manner of its application to the explanation of phenomena, and feems only to ferve for giving fomething like confiftency to the vague and obscure discussions which have been published on this subject in Italy. We have already remarked, that in that country the subject is particularly interesting, and has been much commented upon. But the writers of England, France, and Germany, have not paid fo much attention to it, and have more generally occupied themselves with the motion of water in close conduits, which feem to admit of a more precise application of mathematical rea-

Some of those have considered with more attention Sir Isaac the effects of friction and viscidity. Sir Isaac Newton, Newton's with his usual penetration, had feen diffinely the man-observations ner in which it behoved these circumstances to operate. on this sub-He had occasion, in his refearches into the mechanism ject, of the celestial motions, to examine the famous hypothesis of Descartes, that the planets were carried round the fun by fluid vortices, and faw that there would be no end to uncertainty and dispute till the modus operandi of these vortices were mechanically considered. He therefore employed himfelf in the investigation of the manner in which the acknowledged powers of natural bodies, acting according to the received laws of mechanics, could produce and preferve these vortices, and reflore that motion which was expended in carrying the planets round the fun. He therefore, in the fecond book of the Principles of Natural Philosophy, gives a feries of beautiful propositions, viz, 51, 52, &c. with their corollaries, flowing how the rotation of a cylinder or Sphere round its axis in the midst of a fluid will excite a vortical motion in this fluid; and he ascertains with mathematical precision the motion of every filament of this vortex.

He fets out from the supposition that this motion is excited in the furrounding firatum of fluid in confequence of a want of perfect lubricity, and affirmes as an hypothesis, that the initial resistance (or diminution of the motion of the cylinder) which arises from this want of lubricity, is proportional to the velocity with which the furface of the cylinder is separated from the contiguous furface of the furrounding fluid, and that the whole refiftance is proportional to the velocity with which the parts of the fluid are mutually feparated from each other. From this, and the equality of action and re-action, it evidently follows, that the velocity of any ftratum of the vortex is the arithmetical medium between the velocities of the firsts immediately within and without it. For the intermediate fratum cannot be in equilibrio, unless it is as much pressed forward by

Theory. the superior motion of the flratum within it, as it is kept back by the flower motion of the fratum with-

This beautiful investigation applies in the most perfeet manner to every change produced in the motion of a fluid filament, in consequence of the viscidity and friction of the adjoining filaments; and a filament proceeding along a tube at fome fmall distance from the sides has, in like manner, a velocity which is the medium between those of the filaments immediately surrounding it. It is therefore a problem of no very difficult folution to affign the law by which the velocity will gradually diminish as the filament recedes from the axis of a cylindrical tube. It is fomewhat furprifing that fo neat a problem has never occupied the attention of the mainematicians during the time that these subjects were fo assistantly studied; but so it is, that nothing precise has been published on the subject. The only approach to a discussion of this kind, is a Memoir of Mr Pitot. read to the academy of Paris in 1726, where he confiders the velocity of efflux through a pipe. Here, by attending to the comparative superiority of the quantity of motion in large pipes, he affirms, that the total diminutions arising from friction will be (cateris paribus) in the inverse ratio of the diameters. This was thankfully received by other writers, and is now a part of our hydraulic theories. It has not, however, been attended to by those who write on the motion of rivers, though it is evident that it is applicable to these with equal propriety; and had it been introduced, it would at once have folved all their difficulties, and particularly would have shown how an almost imperceptible declivity would produce the gentle motion of a great ri-ver, without having recourse to the unintelligible principle of Guglielmini.

Mr Couplet made fome experiments on the motion of the water in the great main pipes of Versailles, in order to obtain fome notions of the retardations occasioned by friction. They were found predigious; but were so irregular, and un'usceptible of reduction to any general principle, (and the experiments were indeed fo few that they were unfit for this reduction), that he could establish no theory .- What Mr Belidor ettablished on them, and makes a fort of fystem to direct future engineers, is

quite unworthy of attention.

Upon the whole, this branch of hydraulics, although of much greater practical importance than the conduct of water in pipes, has never yet obtained more than a vague, and, we may call it, flovenly attention from the mathematicians; and we ascribe it to their not having taken the pains to fettle its first principles with the fame precision as had been done in the other branch. They were, from the beginning, fatisfied with a fort of applicability of mathematical principles, without ever making the application. Were it not that fome would accuse us of national partiality, we would ascribe it to this, that Newton had not pointed out the way in this as in the other branch. For any intelligent reader of the performances on the motions of fluids in close vef fels, will fee that there has not a principle, nay hardly a flep of investigation, been added to those which were used or pointed out by Sir Isaac Newton. He has nowhere touched this question, the motion of water in an open canal. In his theories of the tides, and of the propagation of waves, he had an excellent opportunity Vol. XVII. Part II.

for giving at once the fundamental principles of motion Theory. in a free stuid whose surface was not horizontal. But. by means of some of those happy and shrewd guesses, in which, as Daniel Bernoulli favs, he excelled all men, he faw the undoubted confequences of some palpable phenomenon which would answer all his present purpoles, and therefore entered no farther into the investigation.

The original theory of Guglielmini, or the principle adopted by him, that each particle of the vertical fection of a running fream has a tendency to move as if it were isluing from an orifice at that depth under the furface, is falfe; and that it really does fo in the face of a dam when the floed gate is taken away, is no less so; and if it did, the fubfequent motions would hardly have any refemblance to those which he affigns them. Were this the case, the exterior form of the cascade would be fomething like what is fketched in fig. 3. with an Fig. 3. abrupt angle at B, and a concave furface BEG. This will be evident to every one who combines the greater velocity of the lower filaments with the flower motion of those which must slide down above them. But this greater advance of the lower filaments cannot take place without an expenditure of the water under the furface AB. The furface therefore finks, and B instantly ceases to retain its place in the horizontal plane. The water does not fucceffively flow forward from A to B, and then tumble over the precipice; but immediately upon opening the flood-gate, the water waltes from the space immediately behind it, and the whole puts on the form represented in fig. 4. confifting of the curve Fig. 4. A a P c EG, convex from A to c, and concave from thence forward. The superficial water begins to accelerate all the way from A; and the particles may be supposed (for the present) to have acquired the velocity corresponding to their depth under the horizontal furface. This must be understood as nothing more than a vague sketch of the motions. It requires a very critical and intricate investigation to determine either the form of the upper curve or the motions of the different filaments. The place A, where the curvature begins, is of equally difficult determination, and is various according to the differences of depth and of inclination of the fucceeding canal.

We have given this fort of hittory of the progress uncerwhich had been made in this part of hydraulics, that tainty of our readers might form fome opinion of the many differ-the theories tations which have been written on the motion of rivers, when ap and of the state of the arts depending on it. Much of practice ex the business of the civil engineer is intimately connected en pushed. with it : and we may therefore believe, that fince there was fo little principle in the theories, there could be but very little certainty in the practical operations. The fast has been, that no engineer could pretend to fay, with any precision, what would be the effect of his operations. One whole bufinels had given him many opportunities, and who kept accurate and judicious registers of his own works, could pronounce, with fome probabi lity, how much water would be brought off by a drain of certain dimensions and a given slope, when the circum-stances of the case happened to tally with some former work in which he had fucceeded or failed; but out of the pale of his own experience he could only make a f. gacious guess. A remarkable inflance of this occurred not long ago. A small aqueduct was lately carried into

Scarce at all improhis time.

Theory. Paris. It had been conducted on a plan presented to the academy, who had corrected it, and gave a report of what its performance would be. When executed in the most accurate manner, it was deficient in the proportion bringing in the water for the lupply of the city, hig ve which he promited, and about one enventh of the quantity which the no less celebrated M Laurin calculated

Neceflity

from the same plan. Such being the state of our theoretical knowledge (if o: multiply-it can be called by this name), naturalists began to be is experi- perfuaded that it was but losing time to make any use of a theory fo incongruous with observation, and that the only fale method or proceeding was to multiply experiments in every variety of circumilances, and to make a feries of experiments in every important cale, which should comprehend all the practical modifications of that cafe. Perwould evable us to connect many of them together, and at last discover the principles which occasioned this connection; by which means a theory founded on science might be of tained. And if this point should not be gained, we might perhaps find a few general tacts, which are modified in all these particular cases, in such a manner that we can still trace the general facts, and see the part of the particular case which depends on it. This would be the acquiti ion of what may be called an empirical in fo far as the explanation of a phenomenon is nothing more than the painting out the general fact or law under which it is comprehended; and this theory would anfiver every practical purpole, because we should confiand fuch premites; or if we thould fail even in this, we should fill have a feries of experiments to comprehenfive, that we could tell what place in the feries would correspond to any particular case which might be pro-

There are two gentlemen, whose labours in this re-Mi hele to fpect deferve very particular notice, Professor Michelotti at Turin, and Abbé Boffut at Paris. The first made a this way, prodigious number of experiments both on the motion of water through pipes and in open canals. They were performed at the expence of the fovereign, and no expence was spared. A tower was built of the finest mafonry, to serve as a vessel from which the water was to iffue through holes of various fizes, under preffures from 5 to 22 feet. The water was received into basons constructed of masonry and nicely lined with stucco, from whence it was conveyed in canals of brick-work lined with flucco, and of various forms and declivities. The experiments on the expence of water through pipes are of all that have yet been made the most numerous and exact, and may be appealed to on every occasion. Those made in open canals are fill more numerous. and are no doubt equally accurate; but they have not been so contrived as to be so generally useful, being in general very unlike the important cases which will occur in practice, and they feem to have been contrived chiefly with the view of eftablishing or overturng certain points of hydraulic doctrine which were pro-

hably prevalent at the time among the practical hydrau- Theory.

The experiments of Boffut are also of both kinds; and though on a much smaller scale than thole of Princhelotti, deem to delerve equal confidence. As far as they tellow the fame track, they pertectly coincide in their results, which thould procure confidence in the other; and they are made in fituations much more analogous to the world ractical cases. This makes them doubly valuable. They are to be found in his two volumes inticled Hyarodynamique. He has opened this path of procedure in a manner to new and to judicious, that he has in tome me dure the merit of fuch as that, follow him in the fame

This has been most candidly and liberally allowed him and the by the chevalier de Buat, who has taken up this matterprogressive where the abbe Boffut left it, and has protecuted his experiexperiments with great affiduity; and we must now ado De Buat. with fingular fucceis. By a very judicious confideration of the jubject, he hit on a particular view of it, which faved him the trouble of a minute confideration of the fmall internal motions, and enabled him to proceed from a very general and evident proposition, which may be received as the key to a complete lytlem of practical hydraulics. We that tollow this ingenious author in what we have farther to tay on the fubject; and we doubt not but that our readers will think we do a fervice to the public by making these discussions of the chevatter de Buat more generally known in this country. It must not however be expected that we shall give more than a lynoptical view of them, connected by fuch familiar reasoning as thall be entier comprehended or confided in by persons not deeply verted in mathemacical

## SECT. I. Theory of Rivers.

IT is certain that the motion of open threams muft, in Hisleading fome respects, resemble that of bodies sliding down in proposition. clined planes perfectly polithed; and that they would accelerate continually, were they not obstructed : but they are obilructed, and frequently move unitornly, This can only arise from an equilibrium between the torces which promote their descent and those which oppose it. Mr Buat, therefore, assumes the leading proposition,

When water flows uniformly on any channel or bed, the accelerating force which obliges it to move is equal to the fum of all the refillances which it meets with, whether arifing from its own viscidity, or from the friction of its bed.

This law is as old as the formation of rivers, and should be the key of hydraulic science. Its evidence is clear; and it is, at any rate, the basis of all uniform motion. And fince it is to, there must be some confiderable analogy between the motion in pipes and in open channels. Both owe their origin to an inequality of pressure, both would accelerate continually, it nothing hindered; and both are reduced to uniformity by the vilcidity of the fluid and the faiction of the channel.

It will therefore be convenient to examine the pheno-The national mena of water moving in pipes by the action of its weight lowing disonly along the floping channel. But previous to this, cuffict proof water into a channel of any kind, arising from the

deflection of the many different filament, which prefs into the channel from the refervoir from every fide. Then we shall be able to separate this diminution of motion from the fum total that is observed, and ascertain what part remains as produced by the subsequent obstruc-

We then shall consider the principle of uniform motion, the equilibrium between the power and the refistance. The power is the relative he ght of the column of fluid which tends to move along the inclined plane of its bed; the refittance is the friction of the bed, the vifcidity of the fluid, and its adhesion to the sides. Here must be gradually detached that we may see the effect of each, viz. the extent of the bed, its perimeter, and its flope. By examining the effects produced by variations of each of their feparately, we discover what share each has in the general effect; and having thus analyfed the complicated phenomenon, we fliall be able to combine those its elements, and frame a formula which shall comprehend every circumstance, from the greatest velocity to the extinction of all metion, and from the extent of a river to the narrow dimensions of a quill. We shall compare this formula with a feries of experiments in all this variety of circumstances, partly made by Mr Buat, and partly collected from other authors; and we shall leave the reader to judge of the agreement.

Confident that this agreement will be found most fatisfactory, we shall then proceed to consider very curforily the chief varieties which nature or art may introduce into these beds, the different velocities of the same fiream, the intenfity of the refiftance produced by the inertia of the materials of the channel, and the force of the current by which it continually acts on this channel, tending to change either its dimensions or its form. We shall endeavour to trace the origin of these great rivers which fpread like the branches of a vigorous tree, and occupy the furface even of a vast continent. We shall follow them in their course, unfold all their windings, study their train and regimen, and point out the law of its stability; and we shall investigate the causes of their

The fludy of these natural laws pleases the mind; but it answers a still greater purpose; it enables us to assist nature, and to haften her operations, which our wants and our impatience often find too flow. It enables us to command the elements, and to force them to administer to our wants and our pleafures.

We shall therefore, in the next place, apply the knowledge which we may acquire to the felution of the most important hydraulic questions which occur in the practice of the civil engineer.

We shall confider the effects produced by a permanent addition to any river or stream by the union of another, and the opposite effect produced by any draught or offlet, flowing the elevation or depression produced up the stream, and the change made in the depth and velocity below the

We shall pay a similar attention to the temporary awells produced by freshes.

We fliall afcertain the effects of flraightening the course of a ftream, which, by increasing its flope, must increase its velocity, and therefore fink the waters above the place where the curvature was removed, and diminish the tendency to overflow, while the fame immediate Por confequence must expose the places farther down to the rifk of floods from which they would otherwife have been

The effects of dame or weirs, and of bars, must then be confidered; the gorge or fwell which they produce up the stream mult be determined for every distance from the weir or bar. This will furnith us with rules for rendering navigable or floatable fuch waters as have too little depth or too great flope. And it will appear that immense advantages may be thus derived, with a moderate expence, even from trifling brook, it we will relinquish all prejudices, and not imagine that such conveyance is impossible, because it cannot be carried on by fuch boats and imall craft as we have been accusioned

The effects of canals of derivation, the rules or maxims of draining, and the general maxims of embankment, come in the next place; and our discussions will conclude with remarks on the most proper forms for the entry to canals, locks, docks, harbours, and mouths of rivers, the beit shape for the starlings of bridges and of boats for inland navigations, and fuch like subordinate but interesting particulars, which will be suggested by the general thread of discussion.

It is confidered, as physically demonstrated (see Hy-Natural ve-DRODYNAMICS), that water issuing from a small orifice beity, exin the bottom or fide of a very large vellel, almost in- lenge and flantly acquires and maintains the velocity which a hea-dicharge
ty body would acquire by falling to the orifice from the inall erihorizontal furface of the stagnant water. This we shall hers. call its NATURAL VELOCITY. Therefore, if we multiply the area of the orifice by this velocity, the product will be the bulk or quantity of the water which is difcharged. This we may call the NATURAL EXPENCE of

water, or the NATURAL DISCHARGE. Let O represent the area or section of the orifice expreffed in some known measure, and hits depth under the furface. Let g express the velocity acquired by a heavy body during a fecond by falling. Let V be the medium velocity of the water's motion, Q the quantity of water discharged during a second, and N the natural

We know that V is equal to \28 x 1/h. Therefore N=0. V28 Vh.

If these dimensions be all taken in English feet, we have v 2g very nearly equal to 8; and therefore V= 84/ h, and N=O. 8 / h.

But in our present business it is much more convenient to measure every thing by inches. Therefore fince a body acquires the velocity of 32 feet 2 inches in a fecond, we have 2g=64 feet 4 inches or 772 inches, and  $\sqrt{2g} = 27.78$  inches, nearly 271 inches.

Therefore  $V = \sqrt{772} \sqrt{h}$ , = 27.78  $\sqrt{h}$ , and N=0. √772√ h, =0.27.78 v h.

But it is also well known, that if we were to calcu-

late the expence or discharge for every orifice by this fimple rule, we should in every instance find it much greater than nature really gives us.

When water iffues through a hole in a thin plate, the lateral columns, pretfing into the hole from all fides, cause the issuing filaments to converge to the axis of the jet, and contract its dimensions at a little diffance from the hole. And it is in this place of greatest con53

34 Contrac-

Theory, traction that the water acquires that velocity which been 1000. This piece was formed by the revolution of Theory. we observe in our experiments, and which we assume as equal to that acquired by falling from the furface. were as follow: Therefore, that our computed discharge may best agree

with observation, it must be calculated on the suppofition that the orifice is diminished to the fize of this imallest section. But the contraction is subject to variations, and the dimensions of this smallest section are at all times difficult to afcertain with precision. It is therefore much more convenient to compute from the real dimensions of the orifice, and to correct this computed discharge, by means of an actual comparison of the computed and effective discharges in a series of experiments made in fituations refembling those cases which most frequently occur in practice. This correction or its cause, in the mechanism of those internal mo-

tions, is generally called Contraction by the writers on hydraulics; and it is not confined to a hole in a thin plate: it happens in some degree in all cases where fluids are made to pass through narrow places. It happens in the entry into all pipes, canals, and fluices; nay even in the pullage of water over the edge of a board, fuch as is utually fet up on the head of a dam or weir, and even when this is im-merfed in water on both fides, as in a bar or keep, frequently employed for raifing the waters of the level streams in Flanders, in order to render them navigable. We mentioned an observation \* of Mr Buat to this effect, when he faw a goofberry rife up from the

bottom of the canal along the face of the bar, and then rapidly fly over its top. We have attempted to repre-Motion of fent this motion of the filaments in these different fituafilaments in various

\* See Re-

fift nee of Fluids,

particular

F1g. 5.

nº 67.

Fig. 5. A shows the motion through a thin plate.

B shows the motion when a tube of about two diameters long is added, and when the water flows with a full mouth. This does not always happen in fo short a pipe (and never in one that is shorter), but the water frequently detaches itself from the fides of the pipe, and flows with a contracted jet.

C shows the motion when the pipe projects into the infide of the veffel. In this case it is difficult to make it

D represents a mouth-piece fitted to the hole, and formed agreeably to that shape which a jet would aftume of itself. In this case all contraction is avoided, because the mouth of this pipe may be considered as the real orifice, and nothing now diminishes the discharge but a triffing friction of the fides.

E shows the motion of water over a dam or weir. where the fall is free or unobstructed; the surface of the lower fiream being lower than the edge or fole of the

F is a fimilar representation of the motion of water over what we would call a bar or keep.

and the effects of determin-

It was one great aim of the experiments of Michelotti and Boffut to determine the effects of contraction in these cases. Michelotti, after carefully observing the form and dimensions of the natural jet, made various mouth-pieces refembling it, till be obtained one which produced the smallest diminution of the computed discharge, or till the discharge computed for the area of its smaller end approached the nearest to the effective difcharge. And he at last obtained one which gave a difcharge of 983, when the natural discharge would have a trochoid round the axis of the jet, and the dimensions

Diameter of the outer orifice = 36 inner orifice = 46 Length of the axis

The refults of the experiments of the Abbé Boffut and of Michelotti scarcely differ, and they are expresfed in the following table :

N or the natural expence 10000=0.27.78 1/2 Q for the thin plate fig. A 6526 0.18.13Vh almost at the surface O for ditto at the depth of 8 feet 6105 0.17.21A/h O for ditto at the depth of 16 feet 6173 0.17.15 Vh Q for a tube 2 diameters long, 8125 0.22.57 Vh fig. B. O for ditto projecting inwards 6814 0.18.93 VA and flowing full O for ditto with a contracted 5137 0.14.27Vh jet, fig. C. O for the mouth piece, fig. D. 0.27.31V h Q for a weir, fig. E. 9536 0.26.49 1/4 O for a bar, fig. F. 0.27.03 VA 9730

The numbers in the last column of this little table are the cubical inches of water discharged in a second when

the height h is one inch.

It must be observed that the discharges assigned here for the weir and bar relate only to the contractions occasioned by the passage over the edge of the board. The weir may also suffer a diminution by the contractions at its two ends, if it should be narrower than the stream, which is generally the cafe, because the two ends are commonly of fquare masonry or wood-work. The contraction there is nearly the same with that at the edge of a thin plate. But this could not be introduced into this table, because its effect on the expence is the same in quantity whatever is the length of the waste-board of the weir.

In like manner, the diminution of discharge through Diminution a fluice could not be expressed here. When a fluice is of discharge drawn up, but its lower edge ftill remains under water, through a the discharge is contracted both above and at the sides, suce, &c. and the diminution of discharge by each is in proportion to its extent. It is not easy to reduce either of these contractions to computation, but they may be very eafily observed. We frequently can observe the water, at coming out of a fluice into a mill course, quit the edge of the aperture, and show a part of the bottom quite dry. This is always the case when the velocity of efflux is confiderable. When it is very moderate, this place is occupied by an eddy water almost stagnant. When the head of water is 8 or 10 inches, and runs off freely, the space left between it and the sides is about 1+ inches. If the fides of the entry have a flope, this void space can never appear; but there is always this tendency to convergence, which diminishes the quantity of the discharge.

It will frequently abridge computation very much to confider the water discharged in these different fituations as moving with a common velocity, which we conceive as produced not by a fall from the surface of the fluid (which is exact only when the expence is equal to the natural expence), but by a fall haccommodated to the dif-

charge

Theory. charges or it is convenient to know the height which would produce that very velocity which the water issues with in these situations.

And alfo, when the water is observed to be actually moving with a velocity V, and we know whether it is coming through a thin plate, through a tube, over a dam, &c. it is necessary to know the pressure of HEAD OF WATER & which has actually produced this velocity. It is convenient therefore to have the following numbers in readmest.

# for the natural expence 
$$= \frac{V^3}{772}$$

# for a thin plate  $= \frac{V^3}{296}$ 

# for a tube 2 diam. long  $= \frac{V^3}{505}$ 

# for a dam or weir  $= \frac{V^3}{726}$ 

# for a bar  $= \frac{V^3}{206}$ 

It was necessary to premise these facts in hydraulies, that we may be able in every case to distinguish between the force expended in the entry of the water into the conduit or canal, and the force employed in overcoming the resistances along the canal, and in preserving or

accelerating its motion in it.

The motion of running water is produced by two causes: 1. The action of gravity; and, 2. The mobility of the particles, which makes them affume a level in confined veffels, or determines them to move to that fide where there is a defect of pressure. When the furface is level, every particle is at reft, being equally preffed in all directions; but if the furface is not level, not only does a particle on the very furface tend by its own weight towards the lower fide, as a body would flide along an inclined plane, but there is a force, external to itself, arising from a superiority of pressure on the upper end of the furface, which pushes this superficial particle towards the lower end; and this is not peculiar to the superficial particles, but affects every particle within the mass of water. In the vessel ACDE (fig. 6.), containing water with an inclined furface AE, if we fuppose all frozen but the extreme columns AKHB, FGLE, and a connecting portion HKCDLG, it is evident, from hydrostatical laws, that the water on this connecting part will be pushed in the direction CD; and if the frozen mass BHGF were moveable, it would also be pushed along. Giving it sluidity will make no change in this respect; and it is indifferent what is the fituation and shape of the connecting column or columns. The propelling force (MNF being horizontal) is the weight of the column AMNB. The same thing will obtain wherever we felest the vertical columns. There will always be a force tending to push every particle of water in the direction of the declivity. confequence will be, that the water will fink at one end and rife at the other, and its furface will rest in the horizontal position a () e, cutting the former in its middle O. This cannot be unless there be not only a motion of perpendicular defeent and afcent of the vertical columns, but also a real motion of translation from K towards L. It perhaps exceeds our mathematical skill to tail what will be the motion of each particle. Newton

waves, por is it at all necessary here. We may, however, acquire a very diffinet notion of its general effect. Let OPQ be a vertical plane pulling through the middle point O. It is evident that every particle in PQ, fuch as P, is prefled in the direction OD, with a force equal to the weight of a fingle row of particles, whole length is the difference between the columns BH and FG. The force acting on the particle Q is, in like manner, the weight of a row of particles = AC-ED. Now if OQ, OA, OE, be divided in the same ratio, so that all the figures ACDE, BHGF, &c. may be fimilar, we fee that the force arifing folely from the declivity, and acting on each particle on the plane OQ, is proportional to its depth under the furface, and that the row of particles ACQDE, BHPGF, &c. which is to be moved by it, is in the fame proportion. Hence it unquestionably follows, that the accelerating force on each particle of the row is the same in all. Therefore the whole plane OQ tends to advance forward together with the same velocity; and in the instant immediately fucceeding, all these particles would be found again in a vertical plane indefinitely near to OQ; and if we fum up the forces, we thall find them the tame as if OQ were the opening of a fluice, having the water on the fide of D flanding level with O, and the water on the other fide flanding at the height AC. This refult is extremely different from that of the halty theory of Guglielmini. He confiders each particle in OQ as urged by an accelerating force proportional to its depth, it is true; but he makes it equal to the weight of the row OP, and never recollects that the greatest part of it is balanced by an opposite pressure, nor perceives that the force which is not balanced must be distributed among a row of particles which varies in the fame proportion with itself. When these two circumstances are neglected, the refult must be incompatible with observation. When the balanced forces are taken into the account of pressure, it is evident that the surface may be supposed horizontal, and that motion should obtain in this case as well as in the case of a sloping surface : and indeed this is Guglielmini's professed theory, and what he highly values himself on. He announces this discovery of a new principle, which he calls the energy of deep waters, as an important addition to hydraulies, It is owing to this, favs he, that the great rivers are not stagnant at their mouths, where they have no perceptible declivity of surface, but, on the contrary, have greater energy and velocity than farther up, where they are shallower. This principle is the basis of his improved theory of rivers, and is infifted on at great length by all the fubfequent writers. Buffon, in his theory of the earth, makes much use of it, We cannot but wonder that it has been allowed a place in the theory of rivers given in the great Encyclopedia of Paris, and in an article having the fignature (O) of D'Alembert. We have been very anxious to flow the fallity of this principle, because we consider it as a mere subterfuge of Guglielmini, by which he was able to patch up the mathematical theory which he had so hastily taken from Newton or Galileo; and we think that we have fecured our readers from being milled by it, when we show that this energy must be equally operative when the fur. I face is on a dead level. The absurdity of this is evist. dent. We shall see by and bye, that deep waters, when to

did not attempt, it in his investigation of the motion of . Theory.

38
The motion of rivers depends on
the flope
of the furface.

Fig. 6.

theory. in actual motion, have an energy not to be found in finallow running waters, by which they are enabled to

continue that motion : but this is not a moving principle; and it will be fully explained, as an immediate refult of principles, not vaguely conceived and indiflinctly expressed, like this of Guglielmini, but easily underlood, and appreciable with the greatest precision. It is an energy common to all great bodies. Although they lofe as much momentum in furmounting any obstacle as small ones, they lose but a small portion of their velocity. At prefent, employed only in confidering the progressive motion of an open stream, whose furface is not level, it is quite enough that we fee that fuch a motion must obtain, and that we fee that there are propelling forces; and that those forces arise folely from the want of a level surface, or from the flope of the furface; and that, with respect to any one particle, the force acting on it is proportional to the difference of level between each of the two columns (one on each fide of the particle) which produce it. Were the furface level, there would be no motion; if it is not level, there will be motion; and this motion will be proportional to the want of level or the declivity of the furface: it is of no confequence whether the bottom be level or not, or what is its fhape.

Hence we draw a fundamental principle, that the motion of rivers depends entirely on the flope of the fur-

30

The SLOPE or declivity of any inclined plane is not properly expressed by the difference of height alone of its extremities; we must also consider its length; and the measure of the slope must be such that it may be the same while the declivity is the same. It must therefore be the same over the whole of any one inclined plane. We shall answer these conditions exactly, if we take for the measure of a slope the fraction which expresses the elevation of one extremity above the other divided by the length of the plane. Thus  $\frac{AM}{AE}$  will

express the declivity of the plane AF.

If the water met with no relitance from the bed in is uniform which it runs, if it had no adhesion to its sides and botaccelerate its course continually, and the earth and its the arcele- inhabitants would be deprived of all the adva tiges rating force which they derive from its numberless ftreams. They would run off b quickly, that our fields, dried up as foon as watered, would be barren and ufelefs. No foil accelerating force would render them a defroying their rapidity. In this manner the friction on the fides, to the whole mais, and the very adhesion of the particles to each other, and to the fiecs of the channel, are the causes which make the relationces bear a relation to the velocity; fo that the refifances augmenting with the velocities, come at lot to bal nee the accelerating force. Then the velocity now equired is preferved, and the motion becomes a itorm, without being able to acquire new increase, unless some change succeeus either in the fope or in the copicity of the channel. Hence ar he the fecond maxim in the motion of rivers, that when a fiream moves uniformly, the reff ance is equal Tor. to the accelerating force.

As in the efflux of water through onfices, we pass over the very beginnings of the accelerated motion, which is a matter of speculative curiofity, and confider the motion in a state of permanency, depending on the head of water, the area of the cri ...e, the velocity, and the expence; fo, in the theory of the uniform motion of rivers, we confider the flope, the transverse section or area of the stream, the uniform velocity, and the expence. It will be convenient to affix precile meanings to the terms which we shall employ.

The SECTION of a fiream is the area of a plane per- Terms prependicular to the direction of the general motion. cifely ex-

The refiftances arife ultimately from the action of the plained. water on the internal furface of the channel, and muit be proportional (cateris paribus) to the extent of the action. Therefore if we unfold the whole edge of this fection, which is rubbed as it were by the paffing water, we shall have a measure of the excent of this action. In a pipe, circular or prifmatical, the whole circumference is acted on; but in a river or canal ACDQ fig. 6.) the horizontal line a O e, which makes the upper boundary of the fection a CD e, is free from all action. The action is confined to the three lines a C, CD, De. We shall call this line a CD e the BORDER of the fec-

The MEAN VELOCITY is that with which the whole fection, moving equally, would generate a folid equal to the expence of the stream. This velocity is to be found perhaps but in one filament of the fiream, and we do not know in which filament it is to be found.

Since we are attempting to establish an empirical theory of the motion of rivers, founded entirely on experiments and palpable deductions from them; and fince it is extremely difficult to make experiments on open streams which shall have a precision sufficient for such an important purpose-it would be a most desirable thing to demonstrate an exact analogy between the mutual balancing of the acceleration and refistance in pipes and in rivers; for in those we can not only make experiments with all the defired accuracy, and admitting precife measures, but we can make them in a number of cases that are almost impracticable in rivers. We can increase the slope of a pipe from nothing to the vertical polition, and we can employ every defired degree of preffure, fo as to afcertain its effect on the velocity in degrees which open ftreams will not admit. The Chevalier de Buat has most happily succeeded in this demonstration; and it is here that his good fortune and his penetration have done to much fervice to practi-

Let AB (fig. 7.) be a horizontal tube, through The accelewhich the water is impelled by the pressure or HEAD ration and DA. This head is the moving power; and it may be efficience of cenceived as confifting of two parts, performing two horizontal diffine offices. One of them is employed in impref, i.e. fing on the water that velocity with which it actually Fig. 7. moves in the tube. Were there no obstructions to this motion, no greater head would be wanted; but there tre obstructions arising from friction, adhesion, and viscidity. This requires force. Let this be the office of the rest of the head of water in the reservoir. I here is but one allotment, appropriation, or repartition, of the whole head which will answer. Suppose E to be

qual.

Theory. the point of partition, fo that DE is the head necesfary for impressing the actual velocity on the water (a head or preffure which has a relation to the form or circumstance of the entry, and the contraction which takes place there). The rest EA is whalve employed in overcoming the fimultaneous refiftances which take place along the whole tube AB, and is in equilibrio with this refiltance. Therefore if we apply at E a tube EC of the tame length and diameter with AB, and having the fame degree of polith or roughnets; and if this tube be inclined in such a manner that the axis of its extremity may coincide with the axis of AB ia the point C-we affirm that the velocity will be the fame in both pipes, and that they will have the fame expence; for the moving force in the floping pipe EC is composed of the whole weight of the column DE and the relative weight of the column EC; but this relative weight, by which alone it descends along the inclined pipe EC, is precifely equal to the weight of a vertical column EA of the fame diameter. Every thing the diam 'ers, he moving forces, and the retifiances; therefore the velocities and discharges will also be c-

This is not only the case on the whole, but also in every part of it. The relative weight of any part of it EK is precisely in equilibrio with the reinlances along that part of the pipe; for it has the same proprien to the whole realize weight that the resistance has to the whole resistance. Therefore (and this is the most important circumstance, and the logis of the whole theory) the pipe EC may be cut shorter, or may be lengthened to infinity, without making any change in the velocity or expence, so long as the propelling head DE remains the same.

Leaving the whole head DA, as it is, if we lengthen the horizontal pipe AB to G, it is evident that we increase the refishance without any addition of force to overcome it. The velocity muit therefore be diminished; and it will now be a velocity which is produced by a finaller head than DE: therefore if we were to put in a pipe of equal length at E, terminating in the horizontal line AG, the water will not run equally in both pipes. In order that it may, we must discover the diminished velocity with which the water now actually runs along AG, and we must make a head DI capable of imprefing this velocity at the entry of the pipe, and then infert at I a pipe IH of the same length with AG. The expence and velocity of both pipes will now be the same (A).

What has now been faid of a horizontal pipe AB, would have been equally true of any inclined pipe AB, A'B (fig. 8.). Drawing the horizontal line CB, we or it and fee that DC is the whole head or propelling profiltre sized for either pipe AB or A'B; and it DE is the head ne-nic effects for the act and velocity. FC is the head ne-nic effects for the act and velocity, and it is the head need any Fg so for balancing the refutaces; and the pipe LF of the fame length with AB, and terminating in the fame harizontal line, will have the same velocity; and its inclination being thus determined, it will have the fame velocity and expence whatever be its length.

Thus we fee that the motion in any pipe, horizontal Ara ay or floping, may be referred to or fubflituted for the between motion in another inclined pipe, whose head of water, and rivers above the place of entry, is that productive of the actual a monoravelocity of the water in the pipe. Now, in this cafe, thy De the accelerating force is equal to the refiftance : we Bust. may therefore confider this last pipe as a river, of which the bed and the flope are uniform or constant, and the c trent in a state of permanency; and we now may clearly draw this important conclusion, that piges and open flicams, when in a flate of permanency, perfectly refem le each other in the circumftances which are the immediate causes of this permanency. The equilibrium between the accelerating force obtains not only in general, but takes place through the whole length of the pipe or fiream, and is predicable of every individual transverse section of either. To make this more palpably evident if possible, let us consider a sloping cylindrical pipe, the current of which is in a ftate of per-manency. We can conceive it as confifting of two half cylinders, an upper and a lower. These are running together at an equal pace; and the filaments of each immediately contiguous to the separating plane and to each other, are not rubbing on each other, nor affecting each others motions in the fmallest degree. It is true that the upper half is prefling on the lower, but in a direction perpendicular to the motion, and therefore not affecting the velocity; and we shall see prefently, that although the lower fide of the pipe bears fomewhat more pressure than the other, the retifiances are not changed. (Indeed this odds of preffure is accompanied with a difference of motion, which need not be confidered at prefent; and we may suppose the pipe so small or so far below the surface, that this fhall be infenfible). Now let us suppose, that in an instant the upper half cylinder is annihilated: We then have an open stream; and every circumstance of accelerating force and of refultance remains precifely as it was. The motion must therefore continue as it

<sup>(</sup>A) We recommend it to the reader to make this diffribution or allotment of the different portions of the prefiure very familiar to his mind. It is of the most extensive influence in every question of hydraulics, and will on every occasion give him diffined conceptions of the internal procedure. Obvious as the thought seems to be, it has escaped the attention of all the writers on the subject. Leochi, in his Hydraulics published in 1766, as faribles fomenthing like it to Daniel Bernoulli; but Bernoulli, in the pullage quoted, only speaks of the partition of pressure in the instant of opening an orifice. Part of it, says he, is employed in accelerating the quiescent water, and producing the velocity of efflux, and the remainder produces the pressure of unmaisted) on the fides of the vessel. Bernoulli, Bossur, and all the good writers, make this distribution in express terms in their explanation of the motion of water through successive orifices; and it is surprising that no one before the Chevalier de Buat saw that the resistance arising from friction required a similar partition of the pressure; but though we should call this good furture, we must ascribe to his great sagacity and justness of conception the beautiful use that he has made of it: "furm cuique."

quence.

did; and in this flate the only accelerating force is the flope of the furface. The demonstration therefore is

From these observations and reasonings we draw a general and important conclusion, " That the same ill be susceptible of different velocities, which is The rive uniform to any distance, according as it has different inclinations; and each inclination of a pipe of given diameter has a certain velocity peculiar to itfelf, which will be maintained uniform to any distance whatever; and this velocity increases continually, according to some law, to he discovered by theory or experiment, as the polition of the pipe changes, from be-

ing horizontal till it becomes vertical; in which polition it has the greatest uniform velocity possible relative to its inclination, or depending on inclination alone. Let this velocity be called the TRAIN, or the RATE

of each pipe. Meature Meature

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rity.

It is evident that this principle is of the utmost confequence in the theory of hydraulics; for by experiment we can find the train of any pipe. It is in train the motion when an increase of length makes no change in the velocity. If lengthening the pipe increases the velocity, the flope of the pipe is too great, and vice verfa. And having discovered the train of a pipe, and observed its velocity, and computed the head productive of this velocity with the contraction at the entry, the remainder of the head, that is the flope (for this is equivalent to EA), is the measure of the refistance. Thus we obtain the measure of the resistance to the motion with a given velocity in a pipe of given diameter. If we change only the velocity, we get the measure of the new refistance relative to the velocity; and thus difcoyer the law of relation between the relistance and velocity. Then, changing only the diameter of the pipe, we get the measure of the resistance relative to the diameter. This is the aim of a prodigious number of experiments made and collected by Buat, and which we shall not repeat, but only give the results of the different parts of his investigation.

Remits of De Buat's investigaiubject.

We may express the slope of a pipe by the symbol , I being an inch for instance, and s being the slant length of a pipe which is one inch more elevated at one end than at the other. Thus a river which has a declivity of an inch and a half in 120 fathoms or 8640 inches, has its flope  $=\frac{1\frac{1}{3}}{8640}$ , or  $\frac{1}{5760}$ . But in order to obtain the hydraulic flope of a conduit pipe, the heights of the refervoir and place of discharge being given, we must subtract from the difference of elevation the height or head of water necessary for propelling the water into any pipe with the velocity V, which it is fupposed actually to have. This is  $\frac{V^3}{505}$ . The remainder d is to be confidered as the height of the declivity, which is to be distributed equally over the whole length of the pipe, and the flope is then  $\frac{d}{d} = \frac{1}{2}$ 

There is another important view to be taken of the flope, which the reader should make very familiar to his thoughts. It expresses the proportion between the weight of the whole column which is in motion and the weight which is employed in overcoming the refiftance; and

the refistance to the motion of any column of water is Theory. equal to the weight of that column multiplied by the Of the re-

fraction 1, which expresses its slope.

which WE come now to confider more particularly the re-bring the fittances which in this manner bring the motion to a a frate of ftate of uniformity. If we confider the reliftances uniformity, which arife from a cause analogous to friction, we see

that they must depend entirely on the inertia of the water. What we call the refiftance is the diminution of a motion which would have obtained but for these refiftances; and the best way we have of measuring them is by the force which we must employ in order to keep up or restore this motion. We estimate this motion by a progressive velocity, which we measure by the expence of water in a given time. We judge the velocity to diminish, when the quantity discharged diminishes; yet it may be otherwise, and probably is otherwise. The absolute velocity of many, if not all, of the particles, may even be increased; but many of the motions, being transverse to the general direction, the quantity of motion in this direction may be lefs, while the fum of the absolute motions of all the particles may be greater. When we increase the general velocity, it is not unreafonable to suppose that the impulses on all the inequalities are increased in this proportion; and the number of particles thus impelling and deflected at the same time will increase in the same proportion. The whole quantity therefore of these useless and lost motions will increase in the duplicate ratio of the velocities, and the force necessary for keeping up the motion will do fo alfo; that is, the refistances should increase as the squares of the velocities.

Or if we consider the resistances as arising merely from the curvature of the imperceptible internal motions occasioned by the inequalities of the sides of the pipe, and as measured by the forces necessary for producing these curvilineal motions; then, because the curves will be the fame whatever are the velocities, the deflecting forces will be as the squares of the velocities; but these deflecting forces are pressures, propagated from the parts urged on preffed by the external force, and are proportional to these external pressures by the principles of hydrostatics. Therefore the pressures or forces necessary for keeping up the velocities are as the squares of these velocities; and they are our only measures of the refistances which must be confidered as following the fame ratio. Whatever view therefore we take of the nature of these resistances, we are led to consider them as proportional to the squares of the velocities.

We may therefore express the relistances by the fymbol  $\frac{V^*}{m}$ , m being some number to be discovered by experiment. Thus, in a particular pipe, the diminution of the motion or the refifiance may be the 1000th part of the square of the velocity, and R = 1200

Now if g be the accelerating power of gravity on any particle, will be its accelerating power, by which

it would urge it flown the pipe whose slope is 1. There-

fore.

Theory.

Experi-

reafoning

fore, by the principle of uniform motion, the equality of the accelerating force, and the refiftance, we shall have

 $\frac{V^s}{m} = \frac{g}{s}$ , and  $V \sqrt{s} = \sqrt{mg}$ ; that is, the product of the velocity, and the reciprocal of the fquare root of the flope, or the quotient of the velocity divided by the flope, is a constant quantity \( \sqrt{mg} \) for any given pipe; and the primary formula for all the uniform velocities

of one pipe is  $V = \frac{\sqrt{mg}}{\sqrt{s}}$ .

Mr Buat therefore examined this by experiment, but ments and found, that even with respect to a pipe or channel which was uniform throughout, this was not true. We could of De Buat, give at once the final formula which he found to exthefe refitt. press the velocity in every case whatever; but this ances, &c. would be too empirical. The chief steps of his very sagacious investigation are instructive. We shall therefore mention them briefly, at least as far as they tend to give us any collateral information; and let it always be noted, that the instruction which they convey is not abstract speculation, but experimental truths, which must ever remain as an addition to our stock of knowledge, although Mr Buat's deductions from them should prove false.

He found, in the first place, that in the same channel the product of V and Vs increased as Vs increafed; that is, the velocities increased faster than the fquare roots of the flope, or the refiftances did not increase as fast as the squares of the velocities. We beg leave to refer our readers to what we faid on the refiftance of pipes to the motion of fluids through them, in the article PNEUMATICS, when fpeaking of bellows. They will there see very valid reasons (we apprehend) for thinking that the relistances must increase more flow-

ly than the squares of the velocities.

It being found, then, that V \square s is not equal to a constant quantity \( \sqrt{mg} \), it becomes necessary to investigate some quantity depending on s, or, as it is called, some function of \square, which shall render  $\sqrt{mg}$  a constant quantity. Let X be this function of  $\sqrt{s}$ , fo that we shall always have VX equal to the constant quantity  $\sqrt{mg}$ , or  $\frac{\sqrt{mg}}{X}$  equal to the ac-

tual velocity V of a pipe or channel which is in train.

Mr Buat, after many trials and reflections, the chief of which will be mentioned by and by, found a value of X which corresponded with a vast variety of slopes and velocities, from motions almost imperceptible, in a bed nearly horizontal, to the greatest velocities which could be produced by gravity alone in a vertical pine; and when he compared them together, he found a very difcernible relation between the refiltances and the magnitude of the section: that is, that in two channels which had the same slope, and the same propelling force, the velocity was greatest in the channel which had the greatest section relative to its border. This may reasonably be expected. The resistances arise from the mutual action of the water and this border. The water immediately contiguous to it is retarded, and this retards the next, and fo on. It is to be expeded, therefore that if the border, and the velocity, and the flore, he die fame, the diminution of this velo-VOL. XVIII. Part I.

city will be so much the less as it is to be shared among a greater number of particles; that is, as the area of the fection is greater in proportion to the extent of its border. The diminution of the general or medium velocity must be less in a cylindrical pipe than in a fquare one of the same area, because the border of its section

It appears evident, that the refiftance of each particle is in the direct proportion of the whole refiftance, and the inverse proportion of the number of particles which receive equal shares of it. It is therefore directly as the border, and inverfely as the fection. Therefore in the

expression Vs which we have given for the resistance,

the quantity m cannot be constant, except in the same channel; and in different channels it must vary along with the relation of the fection to its border, because the refiftances diminish in proportion as this relation in-

Without attempting to discover this relation by theoretical examination of the particular motions of the various filaments, Mr Buat endeavoured to discover it by a comparison of experiments. But this required some manner of stating this proportion between the augmentation of the section and the augmentation of its bor-

His statement is this: He reduces every fection to a rectangular parallelogram of the same area, and having its base equal to the border unfolded into a straight line. The product of this base by the height of the rectangle will be equal to the area of the fection. Therefore this height will be a representative of this variable ratio of the fection to its border (we do not mean that there is any ratio between a furface and a line; but the ratio of fection to fection is different from that of border to border; and it is the ratio of these ratios which is thus expressed by the height of this rectangle). If S be the fection, and B the border,

B is evidently a line equal to the height of this rectangle. Every fection being in this manner reduced to a rectangle, the perpendicular height of it may be called the HYDRAULIC MEAN DEPTH of the fection, and may be expressed by the symbol d. (Buat calls it the mean radius). If the channel be a cylindrical pipe, or an open balf cylinder, it is evident that d is balf the radius. If the fection is a rectangle, whose width is w, and height  $k_s$ , the mean depth is  $\frac{w \ h}{k+2 \ h}$ , &c. In general, if q represent the proportion of the breadth of a rectangular

canal to its depth, that is, if q be made  $=\frac{w}{\lambda}$ , we shall

have  $d = \frac{w}{a+2}$ , or  $d = \frac{qh}{a+3}$ .

Now, fince the refulances must augment as the proportion of the border to the fection augments, m in the formulas  $\frac{V^2}{m} = \frac{g}{s}$  and  $V \sqrt{s} = \sqrt{mg}$  must follow the proportions of d, and the quantity  $\sqrt{mg}$  must be proportional to  $\sqrt{d}$  for different channels, and  $\frac{\sqrt{mg}}{\sqrt{d}}$  (hould Le a constant quantity in every case.

Theory. A fpecious phiection

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swater in

Fig. 9.

(yphons.

Our author was gware, however, of a very specious objection to the close dependence of the refiffance on the extent of the border; and that it might be faid that a double border did not occasion a double resistance, unless the pressure on all the parts was the same. For it may be naturally (and it is generally) supposed, that the refilance will be greater when the pressure is greater. The friction or refistance analogous to friction may therefore be greater on an inch of the bottom than on an inch of the fides; but M. d'Alembert and many others have demonstrated, that the paths of the filaments will be the same whatever be the pressures. This might serve to justify our ingenious author; but he was determined to reft every thing on experiment. He therefore made an experiment on the ofcillation of water in fyphons, which we have repeated in the following cillation of form, which is affected by the same circumstances, and is fulceptible of much greater precision, and of more

extensive and important application.

The two veffels ABCD, a b c d (fig. 9.) were connected by the fyphon EFG gfc, which turned round in the short tubes E and e, without allowing any water to escape; the axes of these tubes being in one straight line. The veffels were about 10 inches deep, and the branches FG, fg of the fyphon were about five feet long. The veffels were fet on two tables of equal height, and (the hole e being stopped) the vessel ABCD, and the whole fyphon, were filled with water, and water was poured into the veffel abcd till it frood at a certain height LM. The fyphon was then turned into a horizontal position, and the plug drawn out of e, and the time carefully noted which the water employed in rifing to the level HK & h in both veffels. The whole apparatus was now inclined, so that the water ran back into ABCD. The fyphon was now put in a vertical position, and the experiment was repeated .- No sensible or regular difference was observed in the time. Yet in this experiment the preffure on the part Gg of the fyphon was more than fix times greater than before. As it was thought that the friction on this small part (only fix inches) was too fmall a portion of the whole obstruction, various additional obstructions were put into this part of the fyphon, and it was even lengthened to nine feet; but still no remarkable difference was observed. It was even thought that the times were less when the

fyphon was vertical. Thus M. De Buat's opinion is completely juffified; and he may be allowed to affert, that the refiffance depends chiefpends chiefly on the relation between the fection and

relation beits border; and that  $\frac{\sqrt{mg}}{\sqrt{d}}$  should be a constant quantween the

fection and its border. tity

The relift-

ance de-

ly on the

To ascertain this point was the object of the next feries of experiments: to fee whether this quantity was really constant, and, if not, to discover the law of its variation, and the physical circumstances which accompanied the variations, and may therefore be confidered as their causes. A careful comparison of a very great number of experiments, made with the fame flope, and with very different channels and velocities, showed that Img did not follow the proportion of Id, nor of any power of \( \sqrt{d} \). This quantity \( \sqrt{mg} \) increased by smaller degrees in proportion as \( \sqrt{d} \) was greater.

In very great beds mg was nearly proportional to Theory. Id, but in smaller channels, the velocities diminished. much more than \( \sqrt{d} \) did. Casting about for some way of accommodation, Mr Buat confidered, that some approximation at least would be had by taking off from I fome constant small quantity. This is evident : For fuch a diminution will have but a triffing effect when Id is great, and its effect will increase rapidly when Id is very small. He therefore tried various values for this fubtraction, and compared the refults with the former experiments; and he found, that if in every case \( \sqrt{d} \) be diminished by one-tenth of an inch, the calculated discharges would agree very exactly with the experiment. Therefore, instead of , d, he makes use of \( \sqrt{d}=0.1 \), and finds this quantity always pro-

portional to  $\sqrt{mg}$ , or finds that  $\frac{\sqrt{mg}}{\sqrt{d} - 0.1}$  is a conflant quantity, or very nearly fo. It varied from 297

to 287 in all sections from that of a very small pipe to that of a little canal. In the large fections of canals and rivers it diminished still more, but never was less

This refult is very agreeable to the most distinct no- The result

than 256.

tions that we can form of the mutual actions of the agreeable water and its bed. We fee, that when the motion of to our diwater is obstructed by a folid body, which deflects the tions of the paffing filaments, the diflurbance does not extend to action of any confiderable diffance on the two fides of the body, water and In like manner, the fmall disturbances, and imperceptits bed, tible curvilineal motions, which are occasioned by the infinitefimal inequalities of the channel, must extend to a very finall distance indeed from the sides and bottom of the channel. We know, too, that the mutual adhefion or attraction of water for the folid bodies which are moistened by it, extends to a very small distance; which is probably the fame, or nearly fo, in all cases. Mr Buat observed, that a surface of 23 square inches, applied to the surface of stagnant water, lifted 1601 grains; another of 5 fquare inches lifted 365: this was at the rate of 65 grains per inch nearly, making a column of about one-fixth of an inch high. Now this effect is very much analogous to a real contraction of the capacity of the channel. The water may be conceived as nearly flagmant to this fmall diffance from the border of the fection. Or, to fpeak more accurately, the diminution of the progressive velocity occasioned by the friction and adhesion of the fides, decreases very rapidly as we recede from the fides, and ceafes to be fenfible at a very fmall distance.

The writer of this article verified this by a very simple and conand instructive experiment. He was making experiments firmed by on the production of vortices, in the manner suggested by experi-Sir Isaac Newton, by whirling a very accurate and ment. fmoothly polified cylinder in water; and he found that the rapid motion of the furrounding water was confined to an exceeding fmall distance from the cylinder, and it was not till after many revolutions that it was fenfible even at the distance of half an inch. We may, by the way, fuggest this as the best form of experiments for examining the relistances of pipes. The motion excited by the whirling cylinder in the stagnant water is equal and opposite to the motion ios by water passing along a

iuriace

Theory.

furface equal to that of the cylinder with the fame velocity. Be this as it may, we are juitified in confidering, with Mr Buat, the fection of the thream as thus diminihed by cutting off a narrow border all round the touching parts, and fuppoing that the motion and difcharge is the fame as if the root of the mean depth of the fection were diminifiled by a fmall quantity, nearly contant. We fee, too, that the effect of this mud be infenfible in great canals and rivers; fo that, fortunateby, its quantity is beth afectained by experiments made with fmall pipes. This is attended with another conreniency, in the opinion of Mr Buat, namely, that the effect of vitedity is most fenfible in great malles of water in flow motion, and is almost infenfible in finall pipes, fo as not to dilurb these experiments. We may therefore allume 297 as the general value of

Since we have 
$$\frac{\sqrt{mg}}{\sqrt{d}-0.1} = 297$$
, we have also  $m = \frac{297^3}{g}\sqrt{d}(-0.1)^2$ ,  $= \frac{88200}{362}(\sqrt{d}-0.1)^3$ ,  $= \frac{88200}{362}(\sqrt{d}-0.1)^3$ .

243.7  $(\sqrt{d}-0.1)^3$ . This we may express by  $n (\sqrt{d}-0.1)^3$ . And thus, when we have expressed the effect of friction by  $\frac{V^3}{m}$ , the quantity m is vari-

able, and its general value is 
$$\frac{V^2}{n(\sqrt{d}-0.1)^2}$$
, in which  $\pi$  is an invariable abitract number equal to 24.3.7, given

by the nature of the resistance which water sustains from its bed, and which indicates its intensity.

And, laftly, fince  $m = n (\sqrt{d} - 0.1)^2$ , we have  $\sqrt{m_S} = \sqrt{n_S} (\sqrt{d} - 0.1)$ , and the expression of the velocity V, which water acquires and maintains along any channel whatever, now becomes  $V = \frac{\sqrt{n_S} (\sqrt{d} - 0.1)}{X}$ , or  $\frac{297}{X} (\sqrt{d} - 0.1)$ , in which X is also a variable quantity depending on the specific or  $\frac{1}{X} = \frac{1}{X} (\sqrt{d} - 0.1)$ .

X is also a variable quantity, depending on the slope of the surface or channel, and expressing the accelerating force which, in the case of water in train, is in equilibrio with the resistances expressed by the numerator of

the fraction.

Law of ac-

celeration investiga-

ted.

Having fo happily fucceeded in aftertaining the variations of refiftance, let us accompany M. Boat in his investigation of the law of acceleration, expressed by the value of X.

Experience, in perfect agreement with any diffined opinions that we can form on this subject, had already showed him, that the resistances increased in a flower ratio than that of the squares of the velocities, or that the velocities increased flower than  $\sqrt{s}$ . Therefore,

in the formula 
$$V = \frac{\sqrt{n_g}(\sqrt{d-0.1})}{X}$$
 which, for one

channel, we may express thus,  $V = \frac{A}{X}$ , we must admit

that X is fenfibly equal to  $\sqrt{s}$  when the flope is very finall or s very great. But, that we may accurately express the velocity in proportion as the flope augments, we must have X greater than  $\sqrt{s}$ ; and moreover.

 $\frac{\sqrt{s}}{X}$  must increase as  $\sqrt{s}$  diminishes. These conditions are necessary, that our values of V, deduced from the formula  $V = \frac{\Lambda}{X}$ , may agree with the experiment.

In order to comprehend every degree of flope, we must particularly attend to the notion through pipes, because open canals will not furnish us with instances of exact TRAINS with great flopes and velocities. We

can make pipes vertical. In this case  $\frac{1}{2}$  is  $\frac{1}{2}$ , and the

velocity is the greatest possible for a train by the action of gravity: But we can give greater velocities than this by increasing the head of water beyond what produces the velocity of the train.

Let AB (fig. 15.) be a vertical tube, and let CA Fig. 15. be the head competent to the velocity in the tube, which we suppose to be in train. The slope is 1, and the full weight of the column in motion is the precise

measure of the reliftance. The value of t, considered

as a flope, is now a maximum; but, confidered as experience the proportion of the weight of the column in motion to the weight which is in equilibrio with the refiltance, it may not be a maximum; it may furpass unity, and s may be left that 1. For if the veffel be filled to E, the head of water is increased, and will produce a greater velocity, and this will produce a greater refiltance. The velocity being now greater, the head EF which imparts it mult be greater than CA. But it will not be equal to EA, because the uniform velocities are found to increase faster than the square roots of the preflures. This is the general fast. Therefore F is above A, and the weight of the column FB, now employed to overcome the refistance, is greater than the weight of the column AB in motion. In such cases,

therefore,  $\frac{1}{3}$ , greater than unity, is a fort of fictitious flope, and only represents the proportion of the resistance

to the weight of the moving column. This proportion

But it cannot be infinite: For fuppoling the head of water infinite; if this produce a finite velocity, and we deduct from the whole height the height correlponding to this finite velocity, there will remain an infinite head, the measure of an infinite refuliance produced by a finite velocity. This does not accord with the observed law of the velocities, where the reilfances actually do not increase as fait as the squares of the velocities. Therefore an infinite head would have produced an infinite velocity, in opposition to the resistances: taking off the head of the tube, competent to this velocity, at the entry of the tube, which head would also be infinite, the remainder would in all probability be finite, balancing a finite refishance.

Therefore the value of s may remain finite, although the velocity be infinite; and this is agreeable to all our

clearest notions of the relistances.

Adopting this principle, we must find a value of X which will answer all these conditions. 2. It must be fensibly proportional to  $\sqrt{s}$ , while s is great. It must always be less than  $\sqrt{s}$ . 3. It must deviate from the proportion of  $\sqrt{s}$ , so much the more as  $\sqrt{s}$  is smaller.

Theory. 4. It must not vanish when the velocity is infinite. 5. It must agree with a range of experiments with every variety of channel and of flope.

We shall understand the nature of this quantity X better by reprefenting by lines the quantities concerned in

forming it.

If the velocities were exactly as the figure roots of Fig. 11. the flopes, the equilateral hyperbola NKS (fig. 11.) between its allymptotes MA, AB, would represent the equation  $V = \frac{A}{\sqrt{s}}$ . The values of  $\sqrt{s}$  would be represented by the abscisse, and the velocities by the ordinates, and V  $\sqrt{s} = A$  would be the power of the hyperbola. But since these velocities are not sensibly equal to A except when \square is very great, and devi-

ate the more from this quantity as \square s is fmaller; we may represent the velocities by the ordinates of another curve PGT, which approaches very near to the hyperbola, at a great diftance from A along AB; but separates from it when the abscissae are smaller: fo that if AQ represents that value of \sqrt{s} (which we have seen may become less than unity), which corresponds to an infinite velocity, the line QO may be the affymptote of

the new curve. Its ordinates are equal to A while

those of the hyperbola are equal to  $\frac{A}{\sqrt{s}}$ . Therefore the ratio of these ordinates or Vs should be such that

it shall be so much nearer to unity as Vs is greater, and shall surpass it so much the more as \s is smal-

To express X, therefore, as some function of Vs so as to answer these conditions, we see in general that X must be less than  $\sqrt{s}$ . And it must not be equal to any power of  $\sqrt{s}$  whose index is less than unity, be-

cause then  $\frac{\sqrt{s}}{X}$  would differ so much the more from uni-

ty as \sqrt{s} is greater. Nor must it be any multiple of If we make X= \(\sigma s - K\), K being a constant quantity, we may answer the first condition pretty well. But K must be very fmall, that X may not become equal to nothing, except in some exceedingly small value of \square. Now the experiments will not admit of this, because the ra-

tio Vs does not increase sufficiently to correspond

with the velocities which we observe in certain slopes, unless we make K greater than unity, which again is inconfiftent with other experiments. We learn from fuch canvaffing that it will not do to make K a conftant quantity. If we should make it any fractionary power of vs, it would make X=0, that is, nothing, when s is = 1, which is also contrary to experience. It would feem, therefore, that nothing will answer for K but some power of Vs which has a variable index. The logarithm of Js has this property. We may therefore try to make X= /s-log. Vs. Accordingly if we try

the equation  $V = \frac{A}{\sqrt{s-hyp. \log s}}$ , we shall find a

very great agreement with the experiments till the de-clivity becomes confiderable, or about 1'6, which is much greater than any river. But it will not agree with the velocities observed in some mill courses, and in pipes of a fill greater declivity, and gives a velocity that is too inall; and in vertical pipes the velocity is not above one half of the true one. We shall get rid of most of these incongruities if we make K consist of the hyperbolic logarithm of Js augmented by a fmall constant quantity, and by trying various values for this constant quantity, and comparing the results with experiment, we may hit on one fufficiently exact for all practical purpofes.

M. de Buat, after repeated trials, found that he would have a very great conformity with experiment by making K=log. \square s+1.6, and that the velocities exhibited in his experiments would be very well repre-

fented by the formula  $V = \frac{297(\sqrt{d} - 0.1)}{\sqrt{s - L}\sqrt{s + 1.6}}$ .

There is a circumstance which our author seems to Mutual adhave overlooked on this occasion, and which is undoubt hesion of edly of great effect in these motions, viz. the mutual ad-ticles of hesion of the particles of water. This causes the water water which is descending (in a vertical pipe for example) to drag more water after it, and thus greatly increases its velocity. We have feen an experiment in which the water issued from the bottom of a refervoir through a long vertical pipe having a very gentle taper. It was 15 feet long, one inch diameter at the upper end, and two inches at the lower. The depth of the water in the refervoir was exactly one foot; in a minute there were discharged 2% cubic feet of water. It must therefore have iffued through the hole in the bottom of the refervoir with the velocity of 8.85 feet per fecond. And yet we know that this head of water could not make it pass through the hole with a velocity greater than 6.56 feet per second. This increase must therefore have arisen from the cause we have mentioned, and is a proof of the great intenfity of this force. We doubt not but that the discharge might have been much more increafed by proper contrivances; and we know many instances in water pipes where this effect is produced in a very great degree.

The following case is very distinct : Water is brought An actual into the town of Dunbar in the county of East Lothian case from a fpring at the distance of about 2200 yards. It is conveyed along the first 1100 yards in a pipe of two inches diameter, and the declivity is 12 feet 9 inches; from thence the water flows in a pipe of 1 diameter. with a declivity of 44 feet three inches, making in all 57 feet. When the work was carried as far as the twoinch pipe reached, the discharge was found to be 27 Scotch pints, of 103 cubic inches each in a minute. When it was brought into the town, the discharge was 28. Here it is plain that the descent along the second firetch of the pipe could derive no impulsion from the first. This was only able to supply 27 pints, and to deliver it into a pipe of equal bore. It was not equivalent to the forcing it into a smaller pipe, and almost doubling its velocity. It must therefore have been dragged into this smaller pipe by the weight of what was descending along it, and this water was exerting a force equivalent to a head of 16 inches, increasing the velocity from 14 to about 28.

It

58 A constant

part of the

accelerating force

employed

in over-

viscidity,

Scc.

It must be observed, that if this formula be just, there can be no declivity fo small that a current of waproves that ter will not take place in it. And accordingly none proceeding for the continuous proceeding to the factor of a firear when this declosity did not happen. But it allo flould happen with remaining the continuous produce a cur-water will hang on the floping furface of a board without proceeding further. The cause of this seems to be the adhelm of the water combined with its visit. dity. The viscidity of a fluid presents a certain force which must be overcome before any current can take

> place. A feries of important experiments were made by our author in order to afcertain the relation between the velocity at the furface of any stream and that at the bottom. These are curious and valuable on many accounts. One circumstance deserves our notice here, viz. that the difference between the Superficial and bottom velocities of any fiream are proportional to the square roots of the superficial velocities. From what has been already faid on the gradual diminution of the velocities among the adjoining filaments, we must conclude that the same rule holds good with respect to the velocity of separation of two filaments immediately adjoining. Hence we learn that this velocity of separation is in all cases indefinitely small, and that we may, without danger of any fentible error, suppose it a constant quantity in all cases.

We think, with our ingenious author, that on a review of these circumstances, there is a constant or invariable portion of the accelerating force employed in overcoming this viscidity and producing this mutual se-

paration of the adjoining filaments. We may express coming the this part of the accelerating force by a part - of that

flope which constitutes the whole of it. If it were not employed in overcoming this refutance, it would produce a velocity which (on account of this refistance)

is not produced, or is loft. This would be A

This must therefore be taken from the velocity exhibited by our general formula. When thus corrected, it

would become 
$$V = (\sqrt{d} - 0.1) \left( \frac{\sqrt{mg}}{\sqrt{i} - L\sqrt{i} + 1.6} - \frac{\sqrt{ng}}{\sqrt{S} - L\sqrt{S}} \right)$$
. But as the term  $\frac{\sqrt{ng}}{\sqrt{S} - L\sqrt{S}}$ 

is compounded only of constant quantities, we may express it by a single number. This has been collected from a scrupulous attention to the experiments (especially in canals and great bodies of water moving with very small velocities; in which case the effects of viscidity must become more remarkable), and it appears

that it may be valued at 
$$\sqrt{\frac{\text{inch}}{0.09}}$$
 or 0.3 inches very nearly.

From the whole of the foregoing confiderations, drawn from nature, supported by such reasoning as our most distinct notions of the internal motions will admit, and authorised by a very extensive comparison with experiment, we are now in a condition to conclude Theory. a complete formula, expressive of the uniform motion of water, and involving every circumstance which appears to have any share in the operation.

Therefore, let V represent the mean velocity, in inches per second, Formula of any current of water, running uniformly, or which expreding is IN TRAIN, in a pipe or open channel, whose fectmotion of tion, figure, and flope, are constant, but its length in-water, definite.

d the hydraulic mean depth, that is, the quotient arifing from dividing the fection of the channel, in fquare inches, by its border, expressed in linear inches.

s The flope of the pipe, or of the furface of the current. It is the denominator of the fraction expreffing this flope, the numerator being always unity; and is had by dividing the expanded length of the pipe or channel by the difference of height of its two extre-

g The velocity (in inches per fecond) which a heavy body acquires by falling during one fecond.

n An abstract constant number, determined by expe-

riment to be 243.7.

L The hyperbolic logarithm of the quantity to which it is prefixed, and is had by multiplying the common logarithm of that quantity by 2.3026. We shall have in every instance

 $V = \frac{\sqrt{ng}(\sqrt{d-0.1})}{\sqrt{s-1}\sqrt{s-1.6}} = 0.3(\sqrt{d-0.1})$ 

This, in numbers, and English measure, is

$$V = \frac{3 \circ 7(\sqrt{d} - 0.1)}{\sqrt{s} - L\sqrt{s + 1.6}} - 0.3 (\sqrt{d} - 0.1)$$

And in French measure

$$V = \frac{297 (\sqrt{d} - 0.1)}{\sqrt{s - 1} \sqrt{s + 1.6}} - 0.3 (\sqrt{d} - 0.1).$$

The following table contains the real experiments from which this formula was deduced, and the comparison of the real velocities with the velocities computed by the formula. It confilts of two principal fets of experiments. The first are those made on the motion of water in pipes. The fecond are experiments made on open canals and rivers. In the first fet, column 1st contains the number of the experiment; 2d, the length of the tube; 3d, the height of the refervoir; 4th, the values of S, deduced from column second and third; 5th gives the observed velocities; and 6th the velocities calculated by the formula.

In the second set, column 2d gives the area of the section of the channel; 3d, the border of the canal or circumference of the fection, deducting the horizontal width, which fustains no friction; 4th, the fquare root Vd of the hydraulic mean depth; 5th, the denominator S of the flope; 6th, the observed mean velocities; and 7th, the mean velocities by the formula. In the last ten experiments on large canals and a natural river: the 6th column gives the observed velocities at the:

Vr 1, see th

Theory.

60
Table containing the experiments from which the formula is

### SET I. Experiments on Pipes.

### Experiments by Chevalier DE BUAT.

	T	,	One runer .		
No	Length of Pipe.	Height of Refervoir.	Values of s.	Velocities observed.	Veloci- ties cal- culated-

# Vertical Tube $\frac{1}{7}$ of a Line in Diameter and $\sqrt{a}$ =0.117851.

1	Inch. 1	Inch.	Inch.	Inch.	Inch.
I	1.2	16.166	0.75636	11.794	12.000
2	1.2	13.125	Inch. 0.75636 0.9307	9.753	10.576

### Vertical Pipe 11 Lines Diameter, and Na=0.176776 Inch.

3 34.166			45.468	
4 Do. 5 Do.	36.666		43.156	43.721
6 Do.	35.333	1.0781	41.614	41.714

### The fame Pipe Horizontal.

7	34.166	14.583	2.5838	26.202	25.525
8	Do.	9.292	4.0367	21.064	19.88
9	Do.	5.292	7.036	14.642	14.447
10	Do.	2.083	17.6378	7.320	2.351

# Vertical Pipe 2 Lines Diameter, and $\sqrt{a}$ $\pm$ 0.204124.

I	36.25	51.250	0.85451	67.373	64.915
2	Do.	45.250	0.96338	59.605	60.428
3	Do.	41.916	1.03808	57.220	57.838
4	Do.	38.750	1.12047	54.186	55.321

# Same Pipe with a flope of 1.3024.

### Same Pipe horizontal.

	36.25 Do.	15.292	2.7901 4.76076	33-378	
17	Do.	5.292	7.89587	19.940	18.31
19	Do.	2.042	20.01637		

# Vertical Pipe $2\frac{9}{10}$ Lines Diameter, and $\sqrt{d} = 0.245798$ .

20	36.25	53.250	0.95235	85.769	85.201
21	Do.	50.250	1.00642	82.471	82.461
22	Do.	48.333	1.0444	81.6467	80.698
23	Do.	48.333	1.0444	79.948	00.090
24	Do.	47.916	1,0529	81.027	80.318
25	Do.	44.750	1.1241	76.079	77.318
26	Do.	41.250	1.2157	73.811	73.904

27   36.25   37.5	1.3323	70.822	70.138
-------------------	--------	--------	--------

### The fame Pipe Horizontal.

Nº	Length of Pipe.	Height of Refervoir.	Values of t.	Velocities observed.	Veloci- ties cal- culated.
	Inch.	Inch.	Inch.	Inch.	Inch.
28	36.25	20.166	2.4303	51.956	50.140
29	Do.	9.083	5.2686	33.577	32.442
30	Do.	7.361	6.4504	28.658	28.801
31	Do.	5.	9-3573	23.401	23.195
32	Do.	4.916	9.5097	22.989	22.974
33	Do.	4.833	9.6652	22.679	22.754
34	Do.	3.708	1 2.4624	19.587	19.550
35	Do.	2.713	16.3135	16.631	16.324
36	Do.	2.083	21.6639	14.295	14.003
37	Do.	1.625	27.5102	12.680	12.115
38	Do.	0.833	52.3427	7.577	8.215

# Pipes sensibly Horizontal Vi=0.5, or I Inch Diameter

Pipes	jenjiblij	riorizoniai	√3±0.5, 0	er 1 Inch D	iameter.
39	117	36 26.666	5.6503 7.48	84.945	85.524
41	138.5	20.950	10.3215	58.808	60.034
42	117	18	10.7880	58.310	58.472
43	138.5	6	33.1962	29.341	29.663
44	737	23.7	33.6658	28.669	29.412
4.5	Do.	14.6	54.2634	21.856	22.056
46	Do.	13.7	57.7772	20.970	21.240
47	Do.	12.32	64.1573	19.991	19.950
48	Do.	8.967	87.8679	16.6257	16.543
49	Do.	8.96 €	' ''	16.284 \$	
50	Do.	7.780	101.0309	15.112	15.232
51	Do.	5.93	132.1617	13.315	13.005
52	Do.	4.2	186.0037	10.671 }	10.656
53	Do.	4.2		10.441	
54	138.5	0.7	257.8863	8.689	8.824
55	737	0.5	1540.75	3.623	3.218
56	737	0.15	5113.42	1.589	1.647

# Experiments by the Abbe Bossur.

### Harizontal Pine t Inch Diameter Na=0.

	23011201	nai Lipe	1 Litera Diamete	v 4 = 013.	
57 58	600	12	54.5966	22.282   21.975 12.223   11.756	

## Horizontal Pipe 11 Inch Diameter Va=0.5774.

59	360	2.4	19.0781	48.534	49.515
60	720	24	33.6166	- 34 473	35.130
61	350	12	37.0828	33.160	33.106
62	1080	24	48.3542	28.075	28.211
63	1440	24	64.1856	24.004	24.023
64	720	12	66.3020	23.360	23.345
65	1800	24	78.0532	21.032	21.182
66	2160	24	92-9474	18.896	19.096
67	1080	12	95.8756	18.943	18.749
68	1440	12	125.6007	16128	15.991
69	1800	12	155.4015	14.066	14119
70	2160	12	185.2487	12.560	12.750

### Harizontal Pipe 2.01 Inch Diameter Va=0.708916.

No	Length of Pipe.	Height of Refervoir.	Va'ues of s.	Velocities observed.	Ve'oei- ties cal- culated.			
71 72 73 74 75 75 77 78 79 80 81 82	360 720 360 1080 1440 729 1830 2160 1080 1140 1800 2160	24 24 12 24 21 12 24 24 21 12 12 12	21.4709 35.8882 41.2759 50.4119 65.1448 70.1426 79.8487 94.7901 99.4979 129.0727 158.7512	58.903 43- 40.322 35.765 30.896 29.215 27.470 27.731 23.806 20.707 18.304 16.377	58.803 43.136 39.587 35.096 30.096 28.795 26.639 24.079 23.400 20.076 17.788 16.097			

### MR Couplet's Experiments at Verfailles.

### Pipe 5 Inches Diameter Va=1.11803.

83	84240	25	3378.26	5-323	1 5.287
84	Do.	24	3518.98	5.213	5.168
85	Do.	21.083	4005.66	4.806	4.887
.86	Do.	16.750	5041.61	4-127	4.225
87	Do.	11.333	7450.42	3-154	3.388
53	Do.	5.583	15110.06	2.011	2.251

# Pipe 18 Inches Diameter Va=2.12132.

# 89 | 43200 | 145.083 | 304.973 | 39.159 | 40.510

### SET II. Experiments with a Wooden Canal.

V.o	Section of Canal	Border of Canal	Values of $\sqrt{d}$ .	Values of 4.	Mean Velocity observed	Mean Veloc.
	Canai	Canal.	01 4 4.		obterved	CZiC.

### Trapezium Canal.

1	Inch.	Inch.	Irch.	Inch.	Inch.	Inch.
90	1884	13.06	1.20107	212	27.51	27.19
91	50.60	29.50	1.3096	212	28.92	29.88
92	83.43	26.	1.7913	412	27.14	28.55
03	27.20	15.31	1.3329	427	18.28	20.39
94	39.36	18.13	1.4734	427	20:30	22.71
95	50.44	20.37	1.5736	427	22.37	24.37
96	56.43	21.50	1.6201	427	23.54	25.14
97	98.74	28.25	1.8696	432	28.29	29.06
98	100.74	28.53	1:8791	432	28.52	29.23
99	119.58	31.06	1.9622	432	30.16	30.60
CCI	126.20	31.91	1.9887	432	31.58	31.03
IOI	130.71	32.47	1.0064	432	31.89	31.32
102	135.32	33.03	1.0241	432	32.32	31.61
103	20.83	13.62	1.2367	1728	8.9.1	8.58
104	34-37	17.	1.4210	1728	9.71	9.98
	36.77	17.56	1.4471	1728	11.45	10.17
136	42.01	18.69	1.4992	1728	12.34	10.53
						-

### Rectangular Canal.

F.o	Section of Canal.	Eurder ot Canal.	Values of $\sqrt{d}$	Value-	Mean Velocity biervid	Mean Veloci cal
107	34.50	21.25	1.27418	458	20.24	18.66
108	86.25	27.25	1.77908	4.58	28.29	26.69
109	34-50	21.25	1.27418	929	13.56	11.53
110	35.22	21.33	1.28499	1412	9.20	10.01
111	51.75	23.25	1.49191	1412	12.10	11.76
II2	76.19	26.08	1.70921	1412	14.17	13.59
113	105.78	29.17	1.90427	1412	15.55	15.24
114		25.25	1.65308	9288	4.59	4.56
115	155.25	135.25	2.09868	9288	5.70	5.86

#### SET III. Experiments on the Canal of JARD.

К°	Section 4.1 Caral.	B order of Canal.	Values of $\sqrt{d}$	Values ol s.	Velgaity ohf. at Surface	Velocity calcula- ted.
116 117 118 119 120	16252 11905 10475 7858 7376 6125	402 366 360 340 337 324	6.3583 5.70320 5.3942 4.8074 4.6784 4.3475	11520	7.79	18.77 14.52 11.61 8.38 7.07 6.55

#### Experiments on the River Haine.

N°	Scction of River,	Border of River	Values of $\sqrt{d}$ .		Velocity at Surface.	(mean)
122	31498	569	7-43974	6048	35.11	27.62
123	38838		8.03879	6413	31.77	28.76
124	30905	568		32951		10.08
125	39639	604	8.10108	35723	15.96	10.53

The comparison must be acknowledged to be most fatisfactory, and flows the great penetration and address of the author, in so successfully fifting and appreciating the share which each co-operating circumstance has had in producing the very intricate and complicated effect. It adds fome weight to the principles on which he has proceeded in this analysis of the mechanism of hydraulic motion, and must give us great confidence in a theory fo fairly established on a very copious induction. The author offers it only as a ratio- a well nal and well-founded probability. To this character it founded is certainly entitled; for the suppositions made in it probability, are agreeable to the most distinct notions we can form and of these internal motions. And it must always be remembered that the investigation of the formula, although it be rendered fomewhat more perspicuous by thus having recourse to those notions, has no dependence on the truth of the principles. For it is, in fact, nothing but a claffification of experiments, which are grouped together by fome one circumstance of slope, velocity, form of fection, &c. in order to discover the law of the changes which are induced by a variation of

Theory, the circumstances which do not resemble. The procedure was precifely fimilar to that of the aftronomer when he deduces the elements of an orbit from a multitude of observations. This was the task of M. de Buat; and he candidly and modeftly informs us, that the finding out analytical forms of expression which would exhibit these changes was the work of Mr Benezech de St Honoré, a young officer of engineers, and his colleague in the experimental course. It does honour to his skill and address; and we think the whole both a pretty and instructive specimen of the method of discovering the laws of nature in the midft of complicated phenomena. Daniel Bernoulli first gave the rules of this method, and they have been greatly improved by Lambert, Condorcet, and De la Grange. Mr Coulomb has given some excellent examples of their application to the discovery of the laws of friction, of magnetical and electrical attraction, &c. But this prefent work is the most perspicuous and familiar of them all. It is the empirical method of generalising natural phenomena, and of deducing general rules, of which we can give no other demonstration but that they are faithful representations of matters of fact. We hope that others, encouraged by the fuccess of M. de Buat, will follow this example, where public utility is preferred to a difplay of mathematical knowledge.

Although the author may not have hit upon the precife modus operandi, we agree with him in thinking that nature feems to act in a way not unlike what is here supposed. At any rate, the range of experiments is so extensive, and so multifarious, that few cases can occur which are not included among them. The experiments will always retain their value (as we prefume that they are faithfully narrated), whatever may become of the theory; and we are confident that the formula will give an answer to any question to which it may be applicable infinitely preferable to the vague guess of the most fa-

gacieus and experienced engineer.

We must however observe, that as the experiments on pipes were all made with forupulous eare in the contrivance and execution of the apparatus, excepting only those of Mr Couplet on the main pipes at Verfailles, the veloci- we may prefume that the formula gives the greatest given by velocities which can be expected. In ordinary works, he formula where joints are rough or leaky, where drops of folder hang in the infide, where cocks intervene with defior ordinacient water-ways, where pipes have aukward bendings, "v works. contractions, or enlargements, and where they may contain fand or air, we should reckon on a smaller velocity than what refults from our calculation; and we presume that an undertaker may with confidence promife 4 of this quantity without any rifk of disappointing his employer. We imagine that the actual performance of cauals will be much nearer to the formula.

We have made inquiry after works of this kind executed in Britain, that we might compare them with the formula. But all our canals are locked and without motion; and we have only learned by an accidental inornation from Mr Watt, that a canal in his neighbourhood, which is 18 feet wide at the furface, and feven feet at the bottom, and four feet deep, and has a lope of one inch in a quarter of a mile, runs with the elocity of 17 inches per second at the surface, 10 at he bottom, and sa in the middle. It we compute the motion of this canal by our formula, we shall find Theory.

the mean velocity to be 13%.
No river in the world has had its motions fo much forutinized as the Po about the end of the last century. It had been a fubject of 100 years continual litigation between the inhabitants of the Bolognese and the Ferrarefe, whether the waters of the Rheno should be thrown into the Tronco de Venezia or Po Grande. This occasioned very numerous measures to be taken of its fections and declivity, and the quantities of water which it contained in its different states of fullness. But, unfortunately, the long established methods of meafuring waters, which were in force in Lombardy, made no account of the velocity, and not all the intreaties of Castelli, Grandi, and other moderns, could prevail on the vifitors in this process to deviate from the established methods. We have therefore no minute accounts of its velocity, though there are many rough estimates to be met with in that valuable collection published at Florence in 1723, of the writings on the motion of rivers. From them we have extracted the only precise observations which are to be found in the whole work.

The Po Grande receives no river from Stellata to Obfervathe fea, and its flope in that interval is found most fur-tions on prifingly uniform, namely fix inches in the mile (redu-the veloced to English measure). The breadth in its great city of the freshes is 759 feet at Lago Scure, with a very uniform depth of 31 feet. In its lowest state (in which it is called Po Magra), its breadth is not less than 700, and

its depth about 101.

The Rheno has a uniform declivity from the Ponte Emilio to Vigarano of 15 inches per mile. Its breadth in its greatest freshes is 180 feet, and its depth o.

Signor Corrade in his report fays, that in the state of the great freshes the velocity of the Rheno is most ex-

actly 4 of that of the Po.

Grandi fays that a great fresh in the Rheno employs 12 hours (by many observations of his own) to come from Ponte Emilio to Vigarano, which is 30 miles. This is a velocity of 44 inches per fecond. And, by Corrade's proportion, the velocity of the Po Grande must be 55 inches per second.

Montanari's observation gives the Po Magra a velo-

city of 31 inches per fecond.

Let us compare these velocities with the velocities calculated by Buat's formula.

The hydraulic mean depths d and D of the Rheno and Po in the great freshes deduced from the above measures, are 98,6 and 344 inches; and their slopes s and S are 4214 and 10560. This will give -

$$\frac{307(\sqrt{\overline{D}}-0.1)}{\sqrt{\overline{S}-L}\sqrt{\overline{S}+1.6}} - 0.3(\sqrt{\overline{D}}-0.1) = 52.176 \text{ inches}$$

and 
$$\frac{307(\sqrt{d}-0.1)}{\sqrt{s-1.\sqrt{s+1.6}}}$$
 -0.3  $(\sqrt{d}-0.1)$  = 46.727

These results differ very little from the velocities above mentioned. And if the velocity corresponding to a depth of 31 feet be deduced from that observed by Montanari in the Po Magra 10 feet deep, on the supposition that they are in the proportion of vd, it will be found to be about 52 inches per fecond.

This comparison is therefore highly to the credit of

Highly to the credit

Theory, the theory, and would have been very agreeable to M. de Buat, had he known it, as we hope it is to our

readers. We have collected many accounts of water pipes, and of the the- made the comparisons, and we flatter ourselves that these have enabled us to improve the theory. They shall appear in their proper place; and we may just observe here, that the two-inch pipe, which we formerly spoke of as conveying the water to Dunbar, should have yielded only 252 Scotch pints per minute by the formula,

initead of 27; a fmall error. We have, therefore, no hefitation in faying that this fingle formula of the uniform motion of water is one of the most valuable presents which natural science and the arts have received during the course of this cen-

tury. We hoped to have made this fortunate investigation of the chevalier de Buat still more acceptable to our readers by another table, which should contain the va-

lues of  $\frac{3^{\circ}7}{\sqrt{s}-L\sqrt{s+1.6}}$  ready calculated for every de-

elivity that can occur in water pipes, canals, or rivers. Aided by this, which superfedes the only difficult part of the computation, a person could calculate the velocity for any proposed case in less than two minutes. But we have not been able to get it ready for its appearance in this article, but we shall not fail to give it when we refume the fubject in the article WATER-Works; and we hope even to give its refults on a fcale which may be carried in the pocket, and will enable the unlearned practitioner to folve any question with accuracy in half a minute.

WE have now established in some measure a THEORY OF HYDRAULICS, by exhibiting a general theorem which expresses the relation of the chief circumstances of all fuch motions as have attained a ftate of permanency, in fo far as this depends on the magnitude, form, and slope of the channel. This permanency we have expressed by the term TRAIN, faying that the stream is in train.

We proceed to confider the fabordinate circumflances contained in this theorem; fuch as, 1st, The forms which nature or art may give to the bed of a running stream, and the manner of expressing this form in our theorem. 2d, The gradations of the velocity, by which it decreases in the different filaments, from the axis or most rapid filament to the border; and the connection of this with the mean velocity, which is expressed by our formula. 3d, Having acquired fome diffinct notions of this, we shall be able to see the manner in which undisturbed nature works in forming the beds of our rivers, the forms which the affects, and which we must imitate in all their local modifications, if we would fecure that permanency which is the evident aim of all her operations. We shall here learn the mutual action of the current and its bed, and the circumstances which ensure the stallility of both. These we may call the regimen or the confervation of the stream, and may say that it is in regimen, or in conservation. This has a relation, not to the dimensions and the slope alone, or to the accelerating force and the refistance arising from mere inertia; it respects immediately the toracity of the bed, and is different from the train.

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4th, These pieces of information will explain the de- Theory. viation of rivers from the rectilineal course; the refishance occasioned by these deviations; and the circumstances on which the regimen of a winding stream depends,

### \$ 1. Of the Forms of the Channel.

THE numerator of the fraction which expresses the The sem. velocity of a river in train has  $\sqrt{d}$  for one of its fac-circular form most tors. That form, therefore, is most favourable to the favourable motion which gives the greatest value to what we have to motion, called the hydraulic mean depth d. This is the prerogative of the femicircle, and here d is equal to half the radius; and all other figures of the same area are the more favourable, as they approach nearer to a femicircle. This is the form, therefore, of all conduit pipes, and should be taken for aqueducts which are built of mafonry. Ease and accuracy of execution, however, have made engineers prefer a rectangular form; but neither of these will do for a channel formed out of the ground. We shall foon see that the semicircle is incompatible but incomwith a regimen; and, if we proceed through the regu-patible lar polygons, we shall find that the half hexagon is the with regionly one which has any pretensions to a regimen; yet med. experience shows us, that even its banks are too steep for almost any foil. A dry earthen bank, not bound together by grass roots, will hardly stand with a slope of 45 degrees; and a canal which conveys running waters will not stand with this slope. Banks whose base Banks that is to their height as four to three will fland very well in fland beft. moist foils, and this is a slope very usually given. This form is even affected in the spontaneous operations of nature, in the channels which the digs for the rills and rivulets in the higher and steeper grounds. This form has fome mathematical and mechanical

properties which intitle it to some further notice. Let ABEC (fig. 12.) be fuch a trapezium, and AHGCFig. 12. the rectangle of equal width and depth. Bifect HB and EG by the verticals FD and KI, and draw the verticals b B, e E. Because AH: HB= 3: 4, we have AB=5, and BD=2, and FD=3, and BD+DF= BA. From these premisses it follows, that the trapezium ABEC has the same area with the rectangle; for HB being bisected in D, the triangles ACF, BCD are equal. Also the border ABEC, which is touched by the passing stream, is equal to FDIK. Therefore the mean depth, which is the quotient of the area divided by the border, is the fame in both; and this is the case, whatever is the width BE at the bottom, or even though there be no rectangle fuch as b BE e interpoted

between the flant fides. Of all rectangles, that whose breadth is twice the Bott form height, or which is half of a fquare, gives the greatest of a chanmean depth. If, therefore, FK be double of FD, the nel. trapezium ABEC, which has the same area, will have the largest mean depth of any such trapezium, and will be the best form of a channel for conveying running waters. In this case, we have AC=10, AH= 3, and BE= 2. Or we may fay that the best form is a trapezium, whose bottom width is ? of the depth, and whose extreme width is 32. This form approaches very ne r to that which the torrents in the hills naturally dig for themselves in uniform ground, where their action is not checked by stones which they lay bare, or which they depolit in their courfe. This thows us, and it will be fully confirmed by and by, that the channel of a river

Regimen of fireams what.

Fftimate

of the ex-

Theory, is not a fortuitous thing, but has a relation to the confillency of the foil and velocity of the fiream.

A rectangle, whose breadth is + of the depth of water, will therefore have the same mean death with a triangle whose surface width is \$ of its vertical der h; for this is the dimensions when the rectangle b BEe is

Let A le the area of the fection of any channel, w its width (when rectangular), and hits depth of water. Then what we have called its mean depth, or d, will be

 $\frac{A}{w+2h} = \frac{wh}{w+2h}.$  Or if q expresses the ratio of the width to the depth of a rectangular bed; that is, if  $q=\frac{w}{L}$ , we have a very simple and ready expression for the mean depth, either from the width or depth. For  $d=\frac{\varphi}{q+2}$ , or  $d=\frac{gh}{q+2}$ . Therefore, if the depth were infinite, and the width

finite, we should have  $d = \frac{av}{2}$ ; or if the width be infi-

nite, and the depth finite, we have d = h. And these are the limits of the values of d; and therefore in rivers whose width is always great in comparison of the depth, we may without much error take their real depth for their hydraulic mean depth. Hence we derive a rule of easy recollection, and which will at all pence of a times give us a very near estimate of the velocity and expence of a running stream, viz. that the velocities are nearly as the fquare roots of the depths. We find this

Alfo, when we are allowed to suppose this ratio of the velocities and depths, that is, in a rectangular canal of great breadth and small depth, we shall have the quantitles discharged nearly in the proportion of the cubes of the velocities. For the quantity discharged d is as the ve'ocity and area jointly, that is, as the height and velocity jointly, because when the width is the same the area is as the height. Therefore, we have d = hv. \_ But, by the above remark, h = v3. Therefore, d = v3; and this is confirmed by the experiments of Boffut, vol. ii. 236. Alfo, because d is as v h, when w is constant, and by the above remark (allowable when w is very great in proportion to h) w is as 1/h, we have d as h / h, or h1, or the squares of the discharges proportional to the cubes of the heights in rectangular beds, and in their corresponding trapeziums.

72 Rules for I Knowing the mean depth and the proportion of findi the the width and real depth, we can determine the dimendimensions, sions of the bed, and we have w = q d + 2d, and h = d

> 2. If we know the area and mean depth, we can in like manner find the dimensions, that is, we and h; for A = wh, and  $d = \frac{wh}{w + 2h}$ ; therefore  $w = \pm \frac{\sqrt{\Lambda^2 - 2A}}{\Delta d^2 - 2A}$

3. If d be known, and one of the dimensions be given, we can find the other; for  $d = \frac{wh}{w+2h}$  gives

$$w = \frac{2hd}{h-d}$$
, and  $h = \frac{wd}{w-2d}$ 

4. If the velocity V and the flope S for a river in Theory, train be given, we can find the mean depth; for V= 

Va= to this quantity + 0.1.

5. We can deduce the flope which will put in train Cope. a river whose channel has given dimensions. We make

 $\frac{297 (\sqrt[4]{d} - 0.1)}{V + 0.3 (\sqrt[4]{d} - 0.1)} = \sqrt{S}.$  This should be  $= \sqrt{S}$ 

\_L VS+1.6, which we correct by trials, which will be exemplified when we apply these doctrines to prac- .

Having thus established the relation between the different circumilances of the form of the channel to our general formula, we proceed to confider,

§ 2. The Gradations of Velocity from the middle of the

THE knowledge of this is necessary for understanding ments in contact with the bed which produces any change in it, and occasions any preference of one to another, in respect of regimen or stability. Did these circumstances not operate, the water, true to the laws of hydraulies, and confined within the bounds whi h have been affigued there, would neither enlarge nor diminish the area of the channel. But this is all that we can promife of waters perfectly clear, running in pipes or hewn channels. But rivers, brooks, and fmaller fireams, carry along waters loaded with mud or fand, which they deposit wherever their velocity is checked; and they tear up, on the other hand, the materials of the channel wherever their velocity is fufficiently great. Nature, indeed, aims continually at an equilibrium, and works without ceating to perpetuate her own perfermances, by establishing an equality of action and reaction, and proportioning the forms and direction of the motions to her agents, and to local circumstances. Her work is flow but unceafing; and what the cannot accomplith in a year she will do in a century. The beds of our rivers have acquired fome Rability, because they are the labour of ages; and it is to time that we owe those deep and wide valleys which receive and confine our rivers in channels, which are now confolidated, and with flopes which have been gradually moderated, fo that they no longer either ravage our habitations or

confound our boundaries. Art may imitate nature, and Nature to by directing her operations (which flie fill carries on acide minated cording to her own imprescriptible law-) according to in making our views, we car haften her progress, and accomplish arine rat our purpose, during the short period of human life.

But we can do this only by fludying the malteral le lans ous nature. Frequently we remain ignorant of their foundation : but it is not necessary for the prosperity of the ful ich that he leve the elents of the fenator; he can profit by the fl tote without a derilandhave not as yet been able to infer the law of retardation

Theory. read we did not me to the me to the me from any read mechanical principle. The problem however, Sir Itaac Newton, that the velocity of any particular Flaments imm ciately adjoining. We may be affored, tule, of which the current is in train, moves the failest, and that all these in the same circumference to and it are those which glide along the pipe. We may affirm the fame thing of the motions in a femi-cylindrical inclined channel conveying an open fiream. But even in these we have not yet demonstrated the ratio between the extreme velocities, nor in the different circles. This must

> And here we are under great obligations to Mr de Buat. He has compared the velocity in the axis of a prodigious number and variety of streams, differing in fize, form, flope, and velocity, and has computed in them all the mean velocity, by measuring the quantities of water discharged in a given time. His method of meafuring the bottom ve'ocity was fimple and just. He threw in a gool-berry, as nearly as possible of the same specific gravity with the water. It was carried along the bottom almost without touching it. See RESIST-

ANCE of Finids, nº 6-.

He discovered the following laws : I. In small velocities the velocity in the axis is to that at the bottom in a ratio of confiderable inequality. 2. This ratio diti no of the minishes as the velocity increases, and in very great velocities approaches to the ratio of equality. 3. What was most remarkable was, that neither the magnitude of the channel, nor its flope, had any influence in changing this proportion, while the mean velocity remained the fame. Nay, though the fiream ran on a channel covered with pebbles or coarfe fand, no difference worth minding was to be observed from the velocity over a polished channel. 4. And if the velocity in the axis is is not affected by the depth of water or magnitude of the fiream. In some experiments the depth was thrice This changed the proportion of the magnitude of the fection to the magnitude of the rubbing part, but made

Another most important fact was also the result of his observation, viz. that the mean velocity in any pipe or open Aream is the arithmetical mean between the velocity in the axis and the velocity at the sides of a pipe or hottom of an open fream. We have alre dy observed, that the ratio of the velocity in the axis to the velocity at the bott m diminihed as the mean velocity increased. This variation he was enabled to express in a very simple to tell any one of them by observing another.

If we take uning from the square root of the superficial velocity, expressed in inches, the square of the remainder

is t' relative to Lamm; and the none half from of the tree. Thus, if the velocity in the midale of the fiream be 25 inches per fecond, . . square root is five; from which if we take unity, there remains four. The fquare of this, or 16, is the velocity at the

bottom, and  $\frac{25+16}{2}$ , or  $20\frac{t}{2}$ , is the mean velocity.

This is a very cur'nes and m ift ufeful piece of information. The velocity in the mitdle of the ffream is the eafieft measured of all, by an light a all body floatand all the must important confequences.

We may expect this by a femala of most easy re-

have  $u = \sqrt{\overline{v} - 1}$ , and  $V = \frac{v + u}{2}$ .

Also 
$$v = (\sqrt{v} - \frac{1}{4} + \frac{1}{4})^{3}$$
, and  $v = (\sqrt{u} + 1)^{3}$ .  
 $V = (\sqrt{v} - \frac{1}{4})^{2} + \frac{1}{4}$ , and  $V = (\sqrt{u} + \frac{1}{4})^{3} + \frac{1}{4}$ .  
 $v = (\sqrt{v} - 1)^{3}$  and  $u = (\sqrt{v} - \frac{1}{4} - \frac{1}{4})^{3}$ .

Also v-u=2  $\sqrt{V-\frac{1}{4}}$  and v-V, =V-u, =V-1: that is, the difference between these velocities increases in the ratio of the square roots of the mean velocities diminished by a final constant quan-

tity.

This may perhaps give the mathematic ans fome help

Subgradation from the axis to in afcertaining the law of degradation from the axis to the fides. Thus, in a cylindrical pipe, we may c uceive the current as confifting of an infinite number of cy indrical shells sliding within each other like the draw tubes of a fpy-glass. Each of these is in equilibrio, or as much accelerated by the one within it as it is returded by the one without; therefore as the momentum of each diminishes in the proportion of its diameter (the thickness being supposed the same in all), the velocity of se aration must increase by a certain law from the sides to the axis. The magnitude of the small constant quantity here spoken of seems to fix this law.

The place of the mean velocity could not be difco- Place f vered with any precision. In moderate velocities it to mean was not more than one fourth or one-fifth of the depth vooi v distant from the bottom. In very great velocities it was vered, fenfibly higher, but never in the middle of the de th.

The knowledge of these three velocities is of great importance. The fuperficial velocity is eafily observed; hence the mean velocity is easily computed. This multiplied by the fection gives the expence; and if we also meafure the expanded border, and then obtain the mean depth (or vd), we can, by the formula of uniform motion, deduce the flope, or, knowing the flope, we can deduce any of the other circumstances.

The following table of thele three velocities will fave the trouble of calculation in one of the most frequent

queflions of hydraulics.

in les lying den

Theory

Table of the three principal velocities.

Velocity an Inches			Velocity in Inches.			Veloquyon Itches III			
	Sur tace.	Bottom.	Mean.	Sur- face	Bottom.	Mean.	Sur- face.	Bottom.	Mean.
1	1	0.000	0.5	34	23-339	28.660	67	51.639	59.379
١	2 .	0.172	1.081	35	24.167	29.583	68	52.505	60.252
Ì	- 3	0.537	1.768	36.	25.	30.5	69	53.392	61.196
ł	4	I.	2.5	37	25.827	31.413	70	54.273	62.136
Į	5	1.526	3.263	38	26.667	32.338	71	55.145	63.072
1		2.Y	4.050	39	27.51	33-255	. 72	56.025	64.012
1	7	2.709	4.854	40	28.345	34.172	73	56.862	64.932
1	8	3.342	5.67	41	29.192	35.096	74	57.790	65.895
1	-9	4.	6.5	42	30.030	36.015	75	58.687	66.843
1	10	4.67 4	7.337	43	30.880	36,940	76	59.568	67.784
1	11	5.369	8.184	44	31.742	37.871	77	60.451	68.725
1	12	6.071	9.036	45	32.581	38.790	78	61.340	69.670
1	13	6.786	9.893	46	33.432	39.716	79	62.209	70.605
1	14	7.553	10.756	47	34-293	40.646	80	63.107	71.553
1	15	8.254	11.622	48	35.151	41.570	81	64. 64.883	72.5
1		9.	12.5	49	36.857	42.5		65.780	73.441
١	17	9.753	13.376	50	37.712	43.428	83	66.651	74.390
1	19	11.283	15.141	52	38.564	45.282	85	67.568	75.325
1	20	12.055	16.027	53	397438	46.210	86	68.459	77.229
1	2 [	12.674	16.837	54	40.284	47.142	87	69.339	78.169
1	22	13.616	17.808	55	41.165	48.082	88	70.224	79.112
1	23	14.402	18.701	56	42.016	49.008	89	71.132	80.066
1	24	15.194	19.597	57	42.968	49.984	90	72.012	81.006
	25	16.	20.5	58	43.771	50.886	91	72.915	1.957
1	26	16.802	21.401	59	44.636	51.818	92	73.788	2.894
-	27	17.606	22.303	60	45.509	52.754	93	74.719	83.859
1	28	18.421	23.210	61	36.376	53.688	94	75.603	84.801
-	29	19.228	24.114	62	47.259	54.629	95	76.51	85.755
1	30	20.044	25.022	63	48.136	55.568	96	77.370	86.685
1	31	20.857	25.924	64	49.	56.5	97	78.305	87.652
1	32	21.678	26.839	65	49.872	57.436	98	79.192	88.596
1	33	22.506	27.753	66	50.751	58.376	99	80.120	89.56
1			. , , ,		15	1	100	81.	90.5

The knowledge of the velocity at the bottom is of the greateft use for enabling us to judge of the action of the fiream on its bed; and we shall now make some observations on this particular.

Every kind of foil has a certain velocity confident with the flability of the channel. A greater velocity would enable the waters to tear it up, and a fmaller velocity would permit the deposition of more moveable materials from above. It is not enough, then, for the itability of a river, that the accelerating forces are fo adjusted to the fize and figure of its channel that the current may be in train: it must also be in equilibrio with the tenacity of the channel.

We learn from observation, that a velocity of three inches per fecond at the bottom will just begin to work upon fine clay fit for pottery, and however firm and compart it may be, it will tear it up. Yet no beds are more table than clay when the velocities do not exceed this: for the water from tekes away the impalpable particles of the furperficial clay, leaving the particles of fand flicking by their lower half in the reft of the clay, which they now protect, making a very permanent bottom, if the fiream does not bring down gravel or coarie tand, which will rub off this very thin cruft, and allow,

another layer to be worn off; a velocity of fix inches will lift fine fand; eight inches will lift fand as coarfe as linfeed; 12 inches will fweep along fine gravel; 24 inches will roll along rounded pebbles an inch diameter; and it requires three feet per fecond at the bottom to fweep along flavery angular flones of the fize of

The manner in which unwearied nature carries on how carrifome of these operations is curious, and deserves to be ed on. noticed a little. All must recollect the narrow ridges or wrinkles which are left on the fand by a temporary fresh or stream. They are observed to lie across the stream, and each ridge consists of a steep face AD, BF (fig. 13.) which looks down the fiream, and a gentler Fig. 13. flope DB, FC, which connects this with the next ridge. As the stream comes over the first steep AD, it is directed almost perpendicularly against the point E immediately below. D, and thus it gets hold of a particle of coarse sand; which it could not have detached from the rest had it been moving parallel to the surface of it. It eafily rolls it up the gentle flope EB; arrived there, the particle tumbles over the ridge, and lies close at the bottom of it at F, where it is protected by the little eddy, which is formed in the very angle; other par-

Operation of the Rream on sts bed,

Theory, ticles lying about E are treated in the same way, and, tumbling over the ridge B, cover the first particle, and now protect it effectually from any further diffurbance. The same operation is going on at the bottom of cach ridge. The brow or steep of the ridge gradually advances down the steam, and the whole set change their places, as represented by the dutted line adbf; and after a certain time the particle which was deposited at F is found in an unprotected situation, as it was in E, and it now makes another step down

the ffream. The Abbé Bossut found, that when the velocity of the stream was just fusficient for lifting the fand (and a fmall excess hindered the operation altogether) a ridge

advanced about 20 feet in a day.

Since the current carries off the most moveable matters of the channel, it leaves the bottom covered with the remaining coarse sand, gravel, pebbles, and larger stones. To these are added many which come down the stream while it is more rapid, and also many which roll in from the fides as the banks wear away. All thefe form a bottom much more folid and immoveable than a bottom of the medium foil would have been. But this does not always maintain the channel in a permanent form; but frequently occasions great changes, by obliging the current, in the event of any fudden fresh or swell, to enlarge its bed, and even to change it altogether, by working to the right and to the left, fince it cannot work downwards. It is generally from such accumulation of gravel and pebbles in the bottom of the bed that rivers change their channels.

It remains to afcertain, in abfolute measures, the force which a current really exerts in attempting to drag along with it the materials of its channel; and which will produce this effect unless resisted by the inertia of these materials. It is therefore of practical importance to

know this force.

Nor is it abstruse or difficult. For when a current is in train, the accelerating force is in equilibrio with the resistance, and is therefore its immediate measure. Now this accelerating force is precifely equal to the weight of the body of water in motion multiplied by the fraction which expresses the slope. The mean depth being equal to the quotient of the section divided by the border, the section is equal to the product of the mean depth multiplied by the border. Therefore, callthe border b, and the mean depth d, we have the fection = db. The body of water in motion is therefore dbs (because s was the flant length of a part whole difference of elevation is 1), and the accelerating

forces is  $db \times \times \frac{1}{2}$ , or db. But if we would only confider this refistance as corresponding to an unit of the length of the channel, we must divide the quantity db by s, and the refiftance is then  $\frac{db}{s}$ . And if we would

consider the resistance only for an unit of the border, we must divide this expression by b; and thus this refiftance (taking an inch for the unit) will be expressed for one fquare inch of the bed by the weight of a bulk of water which has a fourre inch for its bafe, and

d for its height. And landy, if E be taken for any given superficial extent of the chilinnel or bed, and F the

obstruction, which we consider as a fort of friction, we Theory

Thus, let it be required to determine in pounds the refiltance or friction on a square yard of a channel whose current is in train, which is 10 feet wide, four feet deep, and has a flope of one foot in a mile. Here E is nine feet. Ten feet width and four feet depth give a fection of 40 feet. The border is 18 feet. Therefore  $d = \frac{40}{18} = 2.1111$ , and s is 5280. Therefore the friction is the weight of a column of water whose base is nine feet, and height  $\frac{2.1111}{52.80}$ , or nearly 3.6 ounces

avoirdupois. § 3. Settlement of the Beds of Rivers.

HE who looks with a carcless eye at a map of the Simplicity world, is apt to confider the rivers which ramble over and wifdom its surface as a chance-medley disposition of the drainers displayed in which carry off the waters. But it will afford a most invers. agreeable object to a confiderate and contemplative mind, to take it up in this very simple light; and having confidered the many ways in which the drenched furface might have been cleared of the superfluous waters, to attend particularly to the very way which nature has followed. In following the troubled waters of a mountain torrent, or the pure streams which trickle from their bases, till he sees them swallowed up in the ocean. and in attending to the many varieties in their motions, he will be delighted with observing how the simple laws of mechanism are made so fruitful in good consequences, both by modifying the motions of the waters themfelves, and also by inducing new forms on the furface of the earth, fitted for re-acting on the waters, and producing those very modifications of their motions which render them so beneficial. The permanent beds of rivers are by no means fortuitous gutters hastily scooped out by dashing torrents; but both they and the valleys through which they flow are the patient but unceafing labours of nature, prompted by goodness and directed by wildom.

Whether we trace a river from the torrents which collect the superfluous waters of heaven, or from the fprings which discharge what would otherwise be condemned to perpetual inactivity, each feeder is but a little rill which could not ramble far from its fcauty fource among growing plants and absorbent earth, without being sucked up and evaporated, did it not meet with other rills in its course. When united they form a body of water ftill inconfiderable, but much more able, by its bulk, to overcome the little obffacles to its motion; and the rivulet then moves with greater speed, as we have now learned. At the same time, the furface expoled to evaporation and absorption is diminished by the union of the rills. Four equal rills have, only the surface of two when united. Thus the pertion which escapes arrestment, and travels downward, to continually increasing. This is a happy adjustment to the other operations of nature. Were it otherwise the lower and more valuable countries would be found. with the palling waters in addition to their own har-plus rains, and, the immediate neighbourhood of the fra-would be almost covered by the drains of the interior

me+ a

countries.

Their of-

The ty. countries. But, formandely, those passing waters occupy lefs room as they advance, and by this wife employfluous waters drained our firm our fertile fields, but the drains themselves become an useful part of the country by their magnitude. They become the habitation of a prodigious number of fithes, which flure the Creator's bounty; and they become the me as of mutual communication of all the bleffings of cultivated fociety. face of the country, and bring them to every door. It flrength to cut out deep beds for themselves. By this means they cut open many fprings. Without this, the produce of a heavy shower would make a swamp which would not dry up in many days. And it must be obferved, that the same heat which is necessary for the vigorous growth of uleful plants will produce a very copious evaporation. This must return in showers much too copious for immediate vegetation, and the overplus would be destructive. Is it not pleafant to contemplate this adjustment of the great operations of nature, so different from each other, that if chance alone directed the detail, it was almost an infinite odds that the earth would be uninhabitable?

But let us follow the waters in their operations, and note the face of the countries through which they flow: attending to the breadth, the depth, and the flope of thich they the valleys, we shall be convinced that their present situation is extremely different from what it was in ancient days; and that the valleys themselves are the works of the rivers, or at least of waters which have descended from the heights, loaded with all the lighter matters which they were able to bring away with them. The rivers flow now in beds which have a confiderable permarency; but this has been the work of ages. This has given fibility, both by filling up and smoothing the valhardening the bods themselves, which are now covered with aquatic plants, and lined with the stones, gravel, and coarfer fand, out of which all the lighter matters

mo an ellors. The flowers from heaven carry down rent c. rry this feil into the brooks, and these deliver Thus the hillocks lofe of their height, the valleys are of this the. The low countries, raifed and nourished will go in their turn to be buried in the ocean; and the a he e rth, reduced to a dreary flat, will become tie I kee to; ; and the united labours of the human in a wolld and long protract the term.

But, in the man time, we can trace a beneficent

purpole, and a nice adju. ment of feminally remote circumstances. The grounds near the bornes of all our rivers are indeed gradually stripped of their most fertile Bereficines ingredients. But had they retrined them for ages, the dip aged fentient inh bitants of the earth, or at least the nobler in the animals, with man at their head, would not have derived charges much advantage from it. The general laws of rature they pra-produce changes in our atmosphere which must ever duce. render these great elevations unfruitful. That genial warmth, which is equally necessary for the usual plant as for the animal which lives on it, is confined to the lower grounds. The earth, which on the top of Mount Hæmus could only bring forth mofs and dittany, when brought into the gardens of Spalatro, produced pot-herbs fo luxuriant, that Dioclefian told his colleague Maximian that he had more pleasure in their cultivation than the Roman empire could confer. Thus nature not only provides us manure, but conveys it to our fields. She even keeps it fafe in flore for us till it shall be wanted. The tracks of country which are but newly inhabited by man, such as great part of America; and the newly discovered regions of Terra Australia, are still almost occupied by marshes and lakes, or covered with impenetrable forests; and they would remain long enough in this flate, if population, continually increafing, did not increase industry, and multiply the hands of cultivators along with their necessities. The Author of Nature was alone able to form the huge ridges of the mountains, to model the hillocks and the valleys, to mark out the couries of the great rivers, and give the first trace to every rivulet; but has left to man the task of draining his own habitation and the fields which are to support him, because this is a task not beyond his powers. It was therefore of immense advantage to him that those parts of the globe into which he has not yet penetrated fhould remain covered with lakes marshes, and forests, which keep in store the juice of the earth, which the influence of the air and the vivifying warmth of the fun would have expended long ere now in uscless vegetation, and which the rains of heaven would have fivept into the fea, had they not It is therefore the business of man to open up these

The earth had not in the remote ages, as in our day, to drain off the rain waters (of which only part is abdid not then exift, or were only torrents, whole waters, confined by the gullies and glens, are fearching for a place to eleape. Hence arise those numerous lakes in remarkable relicks in North America, which in procels of time will difappear, and become champaign contain its waters, finds an iffue through fome gorge of lower bason, which, in its turn, discharges its contents into another, and the last of the chain delivers its waters by a river into the ocean. The communication was originally begun by a fimple overflowing at the lowest part of the margin. This made a terrent, which

mines of hoarded wealth, and to thank the Author of

left them as a rightful heritage for those of after days.

Theory, quickly deepened its bed, and this circumflance increafing its velocity, as we have feen, would extend this deepening backward to the lake, and draw off more of its waters. The work w uld go on rapidly at first, while each and fmall stones only relied the lib on of na-ture; but there being walked away, and the charnel undermine what it cannot break out, and then a new ditcharge will commence, and a quarti y of flat ground will emerge all round the lake. The torrent, in the mean time, makes its way down the country, and digs a canal, which may be called the first sketch of a river, which will deepen and witten its bed continually. The water of feveral balows united, and running together in edablified) have a much greater velocity, with the the balon next the fee, after having broken through its natural me and, will make a prodicious torrent, which will dig for i felf a bed fo much the deeper as it has more flope and a greater body of waters.

The formation of the first valleys, by cutting open many springs which were formerly concealed under ground, will add to the mass of running waters, and contribute to drain off the waters of these basons. In course of time many of them will disppear, and flat valleys among the mountains and hills are the traces of their

former exillence.

Beds of 11-

vers not

one incli-

ned plane.

Fig. 14.

When nature thus traces out the courses of future tivers, it is to be expected that those streams will most deepen their channels which in their approach to the fea receive into their bed the greatest quantities of rain and spring waters, and that towards the middle of the continent they will deepen their channels less. In these last situations the natural slope of the fields causes the rain-water, rills, and the little rivulets from the fprings, to feek their ways to the rivers. The ground can fink only by the flattening of the hills and high grounds; and this must proceed with extreme slowness, because it is only the gentle, though incessant, work of the rains and springs. But the rivers, increasing in bulk and strength, and of necessity slowing over every thing, form to themselves capacious bods in a more yielding foil, and dig them even to the level of the ocean.

The beds of rivers by no means form themselves in one inclined plane. If we should suppose a canal AB (fig. 14.) perfectly itraight and horizontal at B, where it joins with the fea, this canal would really be an inclined channel of greater and greater flope as it is farther from B. This is evident; because gravity is directed towards the centre of the earth, and the angle CAB contained between the channel and the plumbline at A is smaller than the similar angle CDB; and A than in D. Such a canal therefore would make the bed of a river; and some have thought that this was the real form of nature's work; but the supposition is a whim, and it is falle. No river has a flope at all approaching to this. It would be eight inches declivity in the mile next the ocean, 24 inches in the fecond mile, 40 inches in the third, and fo on in the duplicate ratio (for the whole dev. tion) of the dilances from the fea. Such a river would quickly tear up its bed in the mountains (were there any grounds high enough to receive it), and, except its first enfeade, would foon acquire a more, gentle slope. But the fact is, and it is the result of the impreciptible laws of nature, that the contract that of the impreciptible laws of nature, that the contract that detrack of a river is a sucception of high 4 taken make, whole slope diminishes by they as the river appear he to the fact. It is not enough to fay 0 to 1 he refut is from the intural if post the contract in declivity as we go to the interior ports of the continent. Were it otherwise, the equilibrium at which nature tors in all her operation, would full produce the guidal diminution of the flags of rivers. Without it they could not be in a group of trein.

That we my more cafily form a notion of the r m-1 87 ner in which the permanent comb of a river is offerblithed, let us suppole a stream or rivalet s a (fig. 15) one a far up the country, make its vay through a fill personal as test, as ifer a to the fea, take of the can be rabe def, thend, and receiving the perman reaching to the dry m. g.a., hl, ic, hd, c, and that its velocity and flow in . It its parts are fo fuited to the tencity of the foll and magnitude of its fection, that neither do its waters d :ring the annual freshes tear up its banks or deepen it bed, nor do they bring down from the high lands materials which they deposit in the channel in times of fmaller velocity. Such a river may be faid to be in a permanent flate, to be in confervation, or to have flability. Let us call this state of a river its REGIMEN, denoting by the word the proper adjustment of the velocity of the stream to the tenacity of the channel. The velocity of its regimen must be the same throughout, because it is this which regulates its action on the bottom, which is the same from its head to the sea. That its bed may have flability, the mean velocity of the current must be constant, notwithstanding the inequality of difcharge through its different fections by the brooks which it receives in its course, and notwithstanding the augmentation of its fection as it approaches the fin.

On the other hand, it behoved this exact regimen to commence at the mouth of the river, by the working of the whole body of the river, in concert with the waters of the ocean, which always keep within the fame limits, and make the ultimate level invariable. This working will begin to dig the bed, giving it as little breadth as possible : for this working confirts chi Av in the efforts of falls and rapid threams, which are of themselves in every channel which has too much slope. The bottom deepens, and the fides remain ve.y steep, till they are undermined and crumble down; and being then diluted in the water, they are carried down the ftream, and deposited where the ocean checks its speed. The banks crumble down anew, the valley or hollow forms; but the fection, always confined to its bottom, cannot acquire a great breadth, and it retains a good deal of the form of the trapezium formedy mentioned. In this manner does the regimen begin to be established

With refpect to the next part de, the discharge or produce is diminished by the want of the broak /c. It must take a similar form, but its area will be diminished, in order that its velocity may be the same; and its mean depth d being less than in the portion of felow, the strength of the same of the same of the same of the dual not that the same of the same of the same of the could not have the uniform velocity, which the sume

permanency

This pro-

cd, bc, ab, sa, we see that the regimen will be succesfively established in them, and that the slope necessary for this purpose will be greater as we approach the river head. The vertical fection or profile of the course of the river sabcdef will therefore resemble the line SABCDEF which is sketched below, having its different parts variously inclined to the horizontal line HF. Such is the process of nature to be observed in every cefs of nariver on the furface of the globe. It long appeared a ture

Theory, permanency in an uniform foil necessarily supposes,

Reafoning after the fame manner for all the portions

kind of puzzle to the theorists; and it was this observation of the increasing, or at least this continued velocity with smaller slope, as the rivers increased by the addition of their tributary streams, which caused Gugliclmini to have recourse to his new principle, the energy of deep waters. We have now feen in what this energy confifts. It is only a greater quantity of moconfirmed by example, tion remaining in the middle of a great stream of water after a quantity has been retarded by the fides and bottom; and we see clearly, that since the addition of a new and perhaps an equal stream does not occupy a bed of double furface, the proportion of the retardations to the remaining motion must continually diminish as a river increases by the addition of new streams. If therefore the flope were not diminished, the regimen would be destroyed, and the river would dig up its channel. We have a full confirmation of this in the many works which have been executed on the Po, which runs with rapidity through a rich and yielding foil. About the year 1600, the waters of the Panaro, a very confiderable river, were added to the Po Grande; and although it brings along with it in its freshes a vast quantity of fand and mud, it has greatly deepened the whole Tronco di Venezia from the confluence to the fea. This point was clearly ascertained by Manfredi about the 1720, when the inhabitants of the valleys adjacent were alarmed by the project of bringing in the waters of the Rheno, which then ran through the Ferrarefe. Their fears were overcome, and the Po Grande continues to deepen its channel every day with a prodigious advantage to the navigations; and there are feveral extensive marshes which now drain off by it, after having been for ages under water: and it is to be particularly remarked, that the Rheno is the foulest river in its freshes of any in that country. We infert this remark, because it may be of great practical utility, as pointing out a method of preferving and even improving the depth of rivers or drains in flat countries, which is not obvious, and rather appears improper: but it is strictly conformable to a true theory, and to the operations of nature, which never fails to adjust every thing so as to bring about an equilibrium. Whatever the declivity of the country may have been originally, the regimen begins to be fettled at the mouths of the rivers, and the flopes are diminished in succession as we recede from the coast. The original slopes inland may have been much greater; but they will (when bufy nature has completed her work) be left formewhat, and only fo much greater, that the velocity may be the same notwith-flanding the diminution of the section and mean depth.

Freshes will disturb this methodical progress relative only to the fuccessive permanent additions; but their effects chiefly accelerate the deepening of the bed, and the diminution of the flope, by augmenting the velocity during their continuance. But when the regimen Theory. of the permanent additions is once established, the freshes tend chiefly to widen the bed, without greatly deepening it : for the aquatic plants, which have been growing and thriving during the peaceable flate of the river, are now laid along, but not fwept away, by the freshes and protect the bottom from their attacks; and the flones and gravel, which must have been left bare in a course of years, working on the foil, will also collect in the bottom, and greatly augment its power of refiftance; and even if the floods flould have deepened the bottom fome finall matter, fome mud will be denofited as the velocity of the freshes diminishes, and this will remain till the next flood.

We have supposed the foil uniform through the whole courfe: This feldom happens; therefore the circumflances which infure permanency, or the regimen of a river, may be very different in its different parts and in different rivers. We may fay in general, that the farther that the regimen has advanced up the ffream in any river, the more flowly will it convey its waters to the fea.

There are forme general circumstances in the motion of rivers which it will be proper to take notice of just now, that they may not interrupt our more minute examination of their mechanism, and their explanations will then occur of themselves as corollaries of the pro-

positions which we shall endeavour to demonstrate. In a valley of fmall width the river always occupies in narrow the lowest part of it; and it is observed, that this is valleys rifoldom in the middle of the valley, and is nearest to that versadhere fide on which the flope from the higher grounds is to the fleepest, and this without regard to the line of its course, hills, The river generally adheres to the fleepeft hills, whether they advance into the plain or retire from it. This general feature may be observed over the whole globe. It is divided into compartments by great ranges of mountains; and it may be observed, that the great rivers hold their course not very far from them, and that their chief feeders come from the other fide. In every compartment there is a fwell of the low country at a diflance from the bounding ridge of mountains; and on the fummit of this swell the principal feeders of the great river have their fources.

The name valley is given with less propriety to these immense regions, and is more applicable to tracts of champaign land which the eye can take in at one view. Even here we may observe a resemblance. It is not always in the very lowest part of this valley that the river has its bed; although the waters of the river how in a channel below its immediate banks, these banks are frequently higher than the grounds at the foot of the hills. This is very diffinctly feen in Lower Egypt, by means of the canals which are carried backward from the Nile for acolerating its fertilizing inundations. When the califhes are opened to admit the waters, it is always observed that the districts most remote are the first covered, and it is several days before the immediately adjoining fields partake of the bleffing. This is a confequence of that general opinion of nature by which the valleys are formed. The river in its floods is loaded with mud, which it retains as long as it rolls rapidly along its limited bed, tumbling its waters over and over, and taking up in every fpot as much as it deposits; but as soon as it overflows its banks, the

Effects of Isothes.

River. very enlargement of its fection diminishes the velocity of the water; and it may be observed still running in the track of its bed with great velocity, while the waters on each fide are fragmant at a very finall diffance: Therefore the water, on getting over the banks, must deposit the heaviest, the firmest, and even the greatest part of its burden, and must become gradually clearer as it approaches the hills. Thus a gentle flope is given to the valley in a direction which is the reverse of what one would expect. It is, however, almost always the case in wide valleys, especially if the great river comes through a foft country. The banks of the brooks and ditches are observed to be deeper as they approach the river, and the merely superficial drains run backwards from it.

We have already observed, that the enlargement of the bed of a river, in its approach to the fea, is not in is enlarged proportion to the increase of its waters. This would be the case even if the velocity continued the same: and therefore, fince the velocity increases, in confequence of the greater energy of a large body of water, which we now understand distinctly, a still smaller bed is fufficient for conveying all the water to the fea.

This general law is broken, however, in the immebeing diate neighbourhood of the tea; became of the passing checked by tion the velocity of the water is checked by the passing flood-tides of the ocean. As the whole waters must still be discharged, they require a larger bed, and the enlargement will be chiefly in width. The fand and mud are deposited when the motion is retarded. The depth of the mouth of the channel is therefore diminished. It must therefore become wider. If this be done on a coast exposed to the force of a regular tide. which carries the waters of the ocean across the mouth of the river, this regular enlargement of the mouth will be the only consequence, and it will generally widen till it washes the foot of the adjoining hills; but if there be no tide in the fea, or a tide which does not fet across the mouth of the river, the fands must be deposited at the sides of the opening, and become additions to the (hore, lengthening the mouth of the channel. In this sheltered situation, every trivial circumstance will cause the river to work more on particular parts of the bottom, and deepen the channel there. This keeps the mud suspended in such parts of the channel, and it is not deposited till the ifream has shot faither out into the fea. It is deposited on the fides of those deeper parts of the channel, and increases the velocity in them, and thus fill farther protracts the deposition. Rivers so situated will not only lengthen their channels, but will divide them, and produce islands at their mouths. A bush, a tree torn up by the roots by a mountain torrent, and floated down the fiream, will thus inevitably produce an island; and rivers in which this is common will be continually thifting their mouths. The Miffiffippi is a most remarkable instance of this, It has a long course through a rich soil, and disem-bogues itself into the bay of Mexico, in a place where there is no passing tide, as may be seen by comparing the hours of high water in different places. No river that we know carries down its ffream fuch numbers of rooted-up trees; they frequently interrupt the navigation. and render it always dangerous in the night-time. This river is fo befet with tlats and shifting fands at its mouth, that the most experienced pilots are puzzled; Vol. XVIII. Part I.

and it has protruded its channel above 50 miles in the River. thort period that we have known it. The discharge of the Danube is very fimilar : fo is that of the Nile ; for it is discharged into a still corner of the Mediterranean. It may now be faid to have acquired confiderable permanency; but much of this is owing to human industry. which strips it as much as possible of its subsideable matter. The Ganges too is in a fituation pretty fimilar. and exhibits fimilar phenomena. The Maragnon might be noticed as an exception; but it is not an exception. It has flowed very far in a level bed, and its waters come pretty clear to Para; but besides, there is a strong transverie tide, or rather current, at its mouth, setting to the fouth-east both during flood and ebb. The mouth of the Po is perhaps the most remarkable of any on the furface of this globe, and exhibits appearances extremely fingular. Its discharge is into a sequestered corner of the Adriatic, Though there be a more remarkable tide in this gulf than in any part of the Mediterranean, it is ftill but trifling, and it either fets directly in upon the mouth of the river, or retires straight away from it. The river has many mouths, and they shift prodigiously. There has been a general increase of the land very remarkable. The marshes where Venice now flands were, in the Augustan age, everywhere penetrable by the fishing boars, and in the 5th century could only bear a few miferable buts; now they are covered with crowds of stately buildings. Ravenna, fituated on the fouthernmost mouth of the Po, was, in the Augustan age, at the extremity of a swamp, and the road to it was along the top of an artificial mound, made by Augustus at immense expence. It was, however, a fine city, containing extensive docks, arfenals, and other maffy buildings, being the great military port of the empire, where Augustus laid up his great ships of war. In the Gothic times it became almost the capital of the Western empire, and was the seat of government and of luxury. It must, therefore, be suppofed to have every accommodation of opulence, and we cannot doubt of its having paved fireets, wharfs, &cc.; fo that its wealthy inhabitants were at least walking dryfooted from house to house. But now it is an Italian mile from the fea, and furrounded with vineyards and cultivated fields, and is accessible in every direction. All this must have been formed by depositions from the Po, flowing through Lombardy loaded with the spoils of the Alps, which were here arrested by the reeds and bulrushes of the marsh. These things are in common course; but when wells are dug, we come to the pavements of the ancient city, and these pavements are all on one exact level, and they are eight feet below the furface of the fea as low water. This cannot be afcribed to the subsiding of the ancient city. This would be irregular, and greatest among the heavy buildings. The tomb of Theodoric remains, and the pavement round it is on a level with all the others. The lower story is always full of water; fo is the lower flory of the cathedral to the depth of three feet. The ornaments of both these buildings leave no room to doubt that they were formerly dry; and fuch a building as the cathedral could not fink without crumbling into pieces. It is by no means easy to account for all this. The

depositions of the Po and other rivers must raise the ground; and yet the rivers must still flow over all. We must conclude that the surface of the Adriatic is by no

the water of the o-

cean.

The bed of rivers

near the

fea.

means level, and the it flopes like a river from the Lagroun of Venice to the eastward. In all probability it even flopes confiderably outwards from the flore. This will not hinder the elternations of cob and flow tide, as will be frown in its proper place. The whole thores of this gulf exhibit most uncommon appearances.

River ore CORN X S cfit.

rivers, how

lormed.

The lat general observation which we shall make in this place is, that the furface of a river is not flat, confidered stowart the fiream, but convex: this is awing to its motion. Suppose a canal of stagmant water; its furface would be a perfect level. But suppose it possible by any means to give the middle waters a motion in the direction of its length, they must drag along with them the waters immediately contiguous. These will move less swiftly, and will in like manner drag the waters without them; and thus the water at the fides being abstracted, the depth must be lefs, and the general furface must be convex across. The fact in a running thream is fimilar to this; the fide waters are withheld by the fides, and every filament is moving more flowly than the one next it towards the middle of the river, but fatter than the adjoining filament on the land fide. This alone must produce a convexity of surface, But besides this, it is demonstrable that the pressure of a running Fream is diminished by its motion, and the diminution is proportional to the height which would produce the velocity with which it is gliding past the adjoining filament. This convexity must in all cases be very fmall. Few rivers have the velocity nearly equal to eight feet per second, and this requires a height of one foot only. An author quoted by M. Buffon fays, that he has observed on the river Aveiron an elevation of three feet in the middle during floods; but we suspect fome error in the observation.

# & A. Of the Windings of Rivers.

RIVERS are feldom straight in their course. Formed by the hand of nature, they are accommodated to every change of circumstance. They wind around what they cannot get over, and work their way to either fide according as the refistance of the opposite bank makes a flyight course more difficult; and this seemingly fortuitous rambling distributes them more uniformly over the furface of a country, and makes them every where more at hand, to receive the numberless rills and rivulets which collect the waters of our fprings and the fuperfluities of our showers, and to comfort our habitations with the many advantages which cultivation and fociety can derive from their presence. In their feeble beginnings the smallest inequality of slope or consistency is enough to turn them afide and make them ramble through every field, giving drink to our herds and fertifity to our foil. The more we follow nature into the minutiæ of her operations, the more must we admire the inexhaustible fertility of her resources, and the simplicity of the means by which the produces the most important and beneficial effects. By thus twifting the course of our rivers into 10,000 shapes, she keeps them long amidst our fields, and thus compensates for the declivity of the furface, which would otherwise tumble them with great rapidity into the ocean, loaded with the best and richest of our foil. Without this, the showers of heaven would have little influence in fupplying the waste of incessant evaporation. But as things are, the rains are kept flowly trickling along the floping fides of our hills

and steeps, winding round every clod, may every plant, River. which lengthens their course, diminishes their slope, checks their speed, and thus prevents them from quickly brushing off from every part of the surface the light-est and best of the soil. The fattest of our bolm lands would be too fleep, and the rivers would shoot along through our finest meadows, hurrying every thing away with them, and would be unfit for the purpoles of inland conveyance, if the inequalities of foil did not make them change this headlong course for the more beautiful meanders which we observe in the course of the small rivers winding through our meadows. Those rivers are in general the straightest in their course which are the most rapid, and which roll along the greatest bodies of water; fuch are the Rhone, the Po, the Danube. The imaller rivers continue more devicus in their progress, till they approach the fea, and have gathered strength from all their tributary ffreams.

Every thing aims at an equilibrium, and this directs What neeven the rambling of rivers. It is of importance to ture left understand the relation between the force of a river and for man to the refulance which the foil opposes to those deviations perform, from a rectilineal course; for it may frequently happen that the general procedure of nature may be inconfillent with our local purposes. Man was set down on this globe, and the task of cultivating it was given him by nature, and his chief enjoyment feems to be to firuggle with the elements. He must not find things to his mind, but he must mould them to his own fancy. Yet even this seeming anomaly is one of nature's most beneficent laws; and his exertions must still be made in conformity with the general train of the operations of mechanical nature: and when we have any work to undertake relative to the course of rivers, we must be careful not to thwart their general rules, otherwise we shall be sooner or later punished for their infraction. Things will be brought back to their former state, if our operations are inconsistent with that equilibrium which is conftantly aimed at, or fome new state of things which is equivalent will be foon induced. If a well regulated river has been improperly deepened in fome place, to answer some particular purpose of our own, or if its breadth has been improperly augmented, we shall soon see a deposition of mud or fand choak up our fancied improvements; because, as we have enlarged the fection without increasing the flope or the supply, the velocity must diminish, and floating matters must be deposited.

It is true, we frequently fee permanent channels where the forms are extremely different from that which the waters would dig for themselves in an uniform foil, and which approaches a good deal to the trapezium described formerly. We see a greater breadth frequently compensate for a want of depth; but all such deviations are a fort of constraint, or rather are indications of inequality of foil. Such irregular forms are the works of nature; and if they are permanent, the equilibrium is obtained. Commonly the bottom is harder than the fides, confifting of the coarfest of the fand and of gravel; and therefore the necessary section can be obtained only by increasing the width. We are accustomed to attend chiefly to the appearances which prognofficate mischief, and we interpret the appearances of a permanent bed in the fame way, and frequently form very false judgments. When we see

Theory, one bank low and flat, and the other high and abrupt, we suppose that the waters are passing along the first in peace, and with a gentle stream, but that they are rapid on the other side, and are tearing away the bank; but it is just the contrary. The bed being permanent, things are in equilibrio, and each bank is of a form just competent to that equilibrium. If the foil on both fides be uniform, the stream is most rapid on that fide where the bank is low and tlat, for in no other form would it withitland the action of the stream; and it has been worn away till its flatness compensates for the greater force of the stream. The ftream on the other fide must be more gentle, otherwise the bank could not remain abrupt. In fhort, in a ftate of permanency, the velocity of the stream and form of the bank are just fuited to each other. It is quite otherwise before the river has acquired its proper regi-

No ethty A careful confideration therefore of the general features of rivers which have fettled their regimen, is of ufe ing to nafor informing us concerning their internal motions, and directing us to the most effectual methods of regulating

their courfe.

gulating

the course

of nvers.

Fig. 16.

We have already faid that perpendicular brims are inconfistent with stability. A semicircular section is the form which would produce the quickest train of a river whose expence and slope are given; but the banks at B and D (fig. 16.) would erumble in, and lie at the bottom, where their horizontal furface would fecure them from farther change. The bed will acquire the form G c F, of equal section, but greater width, and with brims less shelving. The proportion of the velocities at A and c may be the same with that of the velocities at A and C; but the velocity at G and F will be lefs than it was formerly at B, C, or D; and the velocity in any intermediate point E, being somewhat between those at F and c, must be less than it was in any intermediate point of the femicircular bed. The velocities will therefore decrease along the border from c towards G and F, and the steepness of the border will augment at the fame time, till, in every point of the new border G c F, these two circumstances will be so adjusted that the necessary equilibrium is established.

The same thing must happen in our trapezium. The flope of the brims may be exact, and will be retained; it will, however, be too great anywhere below, where the velocity is greater, and the fides will be worn away till the banks are undermined and crumble down, and the river will maintain its fection by increasing its width. In fhort, no border made up of straight lines is confiftent with that gradation of velocity which will take place whenever we depart from a femicircular form. And we accordingly fee, that in all natural channels the fection has a curvilineal border, with the flope increasing

gradually from the bottom to the brim.

These observations will enable us to understand bow nature operates when the inequality of furface or of tenacity obliges the current to change its direction, and

the river forms an elbow.

Supposing always that the discharge continues the fame, and that the mean velocity is either preserved or reftored, the following conditions are necessary for a permanent regimen.

manent re- I. The depth of water must be greater in the elbow than anywhere elfe.

2. The main fiream, after having fruck the concave bank, must be reflected in an equal angle, and must then be in the direction of the next reach of the river.

3. The angle of incidence must be proportioned to the tenacity of the foil.

4. There must be in the elbow an increase of slope, or of head of water, capable of overcoming the refutance occasioned by the elbow.

The reasonableness, at least, of these conditions will

appear from the following confiderations

1. It is certain that force is expended in producing 99 this change of direction in a channel which by suppose Reasonation diminishes the current. The domination arising from their contents of any cause which can be compared with friction must be actions greater when the stream is directed against one of the banks. It may be very difficult to flate the proportion. and it would occupy too much of our time to attempt it; but it is sufficient that we be convinced that the retaidation is greater in this case. We see no cause to increase the mean velocity in the elbow, and we must therefore conclude that it is diminifled. But we are supposing that the discharge continues the same; the section must therefore augment, or the channel increase its transverse dimensions. The only question is, In what manner it does this, and what change of form does it affect, and what form is competent to the final equilibrium and the confequent permanency of the bed ? Here there is much room for conjecture. Mr Buat reasons as follows, If we suppose that the points B and C (fig. 17.) continue Fig. 17. on a level, and that the points H and I at the beginning of the next reach are also on a level, it is an inevitable confiquence that the flope along CMI must be greater than along BEH, because the depression of H below B is equal to that of I below C, and BEH is longer than CMI. Therefore the velocity along the convex bank CMI must be greater than along BEH. There may even be a flagnation and an eddy in the contrary direction along the concave bank. Therefore, if the form of the fection were the fame as up the fiream, the fides could not fiand on the convex bank. When therefore the fection has attained a permanent form, and the banks are again in equilibrio with the action of the current, the convex bank must be much flatter than the concave. If the water is really still on the concave bank, that bank will be abfolutely perpendicular; nay, may overhang .--Accordingly, this state of things is matter of daily observation, and justifies our reasoning, and entitles us to say, that this is the nature of the internal motion of the filaments which we cannot diffinctly observe. The water moves most rapidly along the convex bank, and the thread of the stream is nearest to this side. Reasoning in this way the fection, which we may suppose to have been originally of the form Mba E (fig. 18.) assumes the shape Fig. 13 MBAE

2. Without prefuming to know the mechanism of the internal motions of fluids, we know that inverficial waves are reflected precifely as if they were elastic bodies, making the angles of incidence and reflection equal. In as far therefore as the superficial wave is concerned in the operation. Mr Buat's fecond polition is just. The permanency of the next reach requires that its axis shall be in the direction of the line EP which makes the angle GEP =FEN. If the next reach has the direction EQ, MR, the wave reflected in the line ES will work on the bank at S, and will be reflected in the line ST, and work

Theory, again on the opposite bank at T. We know that the cified of the supericial motion is great, and that it is the principal agent in destroying the banks of canals. So far therefore Mr Buat is right. We cannot say with any precision or confidence how the actions of the under filaments are modified; but we know no reason for not extending to the under filaments what appears so probable with respect to the surface water.

3. The third position is no less evident. We do not know the mode of action of the water on the bank; but our general notions on this subject, confirmed by common experience, teil us that the more obliquely a stream of water beats on any bank, the less it tends to undermine it or wash it away. A stiff and cohesive soil therefore will suffer no more from being almost perpendicularly buffetted by a stream than a friable sand would suffer from water gliding along its face. Mr Buat thinks, from experience, that a clay bank is not sensible suffected

till the angle FEB is about 36 degrees.

4. Since there are causes of retardation, and we still suppose that the discharge is kept up, and that the mean velocity, which had been diminished by the enlargement of the fection, is again reftored, we must grant that there is provided, in the mechanism of these motions, an accelerating force adequate to this effect. There can be no accelerating force in an open fiream but the superficial flope. In the prefent case it is undoubtedly so; because by the deepening of the bottom where there is an elbow in the stream, we have of necessity a counter flope. Now. all this head of water, which must produce the augmentation of velocity in that part of the stream which ranges round the convex bank, will arise from the check which the water gets from the concave bank. This occasions a gorge or swell up the stream, enlarges a little the fection at BVC; and this, by the principle of uniform motion, will augment all the velocities, deepen the channel, and put every thing again into its train as foon as the water gets into the next reach. The water at the bottom of this bason has very little motion, but it defends the bottom by this very circumstance.

Such are the notions which Mr de Buat entertains of this part of the mechanism of running waters. We cannot fay that they are very fatisfactory, and they are very opposite to the opinions commonly entertained on the fubject. Most persons think that the motion is most rapid and turbulent on the fide of the concave bank, and that it is owing to this that the bank is worn away till it become perpendicular, and that the opposite bank is flat, because it has not been gnawed away in this manner. With respect to this general view of the matter, these persons may be in the right; and when a fiream is turned into a crooked and yielding channel for the first time, this is its manner of action. But Mr Buat's aim is to investigate the circumstances which obtain in the case of a regimen; and in this view he is undoubtedly right as to the facts, though his mode of accounting for these facts may be erroncous. And as this is the only useful view to be taken of the subject, it ought chiefly to be attended to in all our attempts to procure stability to the bed of a river, without the expensive helps of masonry, &c. If we attempt to secure permanency by deepening on the infide of the el-bow, our bank will undoubtedly crumble down, diminish the passage, and occasion a more violent action on the hollow bank. The most effectual mean of security to enlarge the fedien : and if we do this on the in-

fide bank, we must do it by widening the stream very Theory. much, that we may give a very floping bank. Our attention is commonly drawn to it when the hollow bank is giving way, and with a view to stop the ravages of the stream. Things are not now in a state of permanency, but nature is working in her own way to bring it about. This may not fuit our purpose, and we must thwart her. The phenomena which we then observe are frequently very unlike to those described in the preceding paragraphs. We fee a violent tumbling motion in the stream towards the hollow bank. We see an evident accumulation of water on that fide, and the point B is frequently higher than C. This regorging of the water extends to some distance, and is of itself a cause of greater velocity, and contributes, like a head of flagnant water, to force the fiream through the bend, and to deepen the bottom. This is clearly the cafe when the velocity is excessive, and the hollow bank able to abide the shock. In this situation the water thus heaped up escapes where it best can; and as the water, obstructed by an obstacle put in its way, escapes by the fides, and there has its velocity increased, so here the water gorged up against the hollow bank swells over towards the opposite fide, and passes round the convex bank with an increased velocity. It depends much on the adjustment between the velocity and confequent accumulation, and the breadth of the ftream and the angle of the elbow, whether this augmentation of velocity shall reach the convex bank; and we fometimes fee the motion very languid in that place, and even depositions of mud and fand are made there. The whole phenomena are too complicated to be accurately described in general terms, even in the case of perfect regimen : for this regimen is relative to the confistence of the channel; and when this is very great, the motions may be most violent in every quarter. But the preceding obfervations are of importance, because they relate to ordinary cases and to ordinary channels.

It is evident, from Mr Buat's fecond position, that the proper form of an elbow depends on the breadth of the ftream as well as on the radius of curvature, and that every angle of elbow will require a certain proportion between the width of the river and the radius of the fweep. Mr Buat gives rules and formulæ for all these purposes, and shows that in one sweep there may be more than one reflection or rebound. It is needless to enlarge on this matter of mere geometrical discussion. It is with the view of enabling the engineer to trace the windings of a river in fuch a manner that there shall be no rebounds which shall direct the stream against the fides, but preferve it always in the axis of every reach. This is of confequence, even when the bends of the river are to be fecured by masonry or piling; for we have feen the necessity of increasing the section, and the tendency which the waters have to deepen the channel on that fide where the rebound is made. This tonds to undermine our defences, and obliges us to give them deeper and more folid foundations in fuch places. But any person accustomed to the use of the scale and compasses will form to himself rules of practice equally sure and more expeditious than Mr de Buat's formulæ.

We proceed, therefore, to what is more to our pur R (fifance pofe, the confideration of the teffiance caufed by an aufed by elbow, and the methods of providing a force capable an above, and mode of overcoming it. We have already taken notice of a overthe falutary configurates artifug from the rambling coming it.

on these conditions, and the realons of them.

Theory. course of rivers, inafinuch as it more effectually spreads them over the face of a country. It is no less benefi-cial by diminishing their velocity. This it does both by lengthening their course, which diminishes the declivity, and by the very reliftance which they meet with at every bend. We derive the chief advantages from our rivers, when they no longer shoot their way from precipice to precipice, loaded with mud and fand, but peaceably roll along their clear waters, purified during their gentler course, and offer themselves for all the purpoles of pasturage, agriculture, and navigation. The more a river winds its way round the foot of the hills, the more is the relistance of its bed multiplied; the more obstacles it meets with in its way from its source to the fea, the more moderate is its velocity; and instead of tearing up the very bowels of the earth, and digging for itself a deep trough, along which it sweeps rocks and rooted-up trees, it flows with majestic pace even with the furface of our cultivated grounds, which it embellishes and fertilizes.

> We may with fafety proceed on the supposition, that the force necessary for overcoming the resistance arising from a rebound is as the square of the velocity; and it is reasonable to suppose it proportional to the square of the fine of the angle of incidence, and this for the reafons given for adopting this measure of the general RE-SISTANCE of Fluids. It cannot, however, claim a greater confidence here than in that application; and it has been fhown in that article with what uncertainty and limitations it must be received. We leave it to our readers to adopt either this or the simple ratio of the sines, and shall abide by the duplicate ratio with Mr Buat, because it appears by his experiments that this law is very exactly observed in tubes in inclinations not exceeding 40°; whereas it is in these small angles that the application to the general refutance of fluids is most in fault. But the correction is very fimple, if this value shall be found erroneous. There can be little doubt that the force necessary for overcoming the resistance will increase as the number of rebounds .- Therefore we may express the

as the number of repounds.— I detector  $\frac{\nabla^2 \sqrt{2}n}{m}$ ; where r is the relistance, V the mean velocity of the stream, s the fine of the angle of incidence, n the number of equal rebounds (that is, having equal angles of incidence), and m is a number to be determined by experiment. Mr de Buat made many experiments on the refiftance occasioned by the bendings of pipes, none of which differed from the refult of the above formula above one part in twelve; and he concludes, that

the refistance to one bend may be estimated at 3000 The experiment was in this form: A pipe of one inch diameter, and 10 feet long, was formed with 10 rebounds of 36° each. A head of water was applied to it, which gave the water a velocity of fix feet per fecond. Another pipe of the same diameter and length, but without any bendings, was subjected to a preffure of a head of water, which was increased till the velocity of efflux was also fix feet per second. The additional head of water was 54% inches. Another of the fame diameter and length, having one bend of 24° 34, and running 85 inches per fecond, was compared with a firaight pipe having the same velocity, and the diffe-

rence of the heads of water was 177 of an inch. A Theory. computation from these two experiments will give the

above refult, or in English measure,  $r = \frac{\sqrt{3}}{3200}$  very nearly. It is probable that this measure of the refulance is no great for the distance of the refulance.

ance is too great; for the pipe was of uniform diameter even in the bends: whereas in a river properly formed, where the regimen is exact, the capacity of the fection

of the bend is increased. The application of this theory to inclined tubes and Theory apto open streams is very obvious, and very legitimate and plied to infafe. Let AB (fig. 19.) be the whole height of the dined tubes refervoir ABIK, and BC the horizontal length of a fream pipe, containing any number of rebounds, equal or un- Fig. 19equal, but all regular, that is, constructed according to the conditions formerly mentioned. The whole head of water should be conceived as performing, or as divided into portions which perform, three different offices .-

One portion,  $AD = \frac{V^3}{505}$ , impels the water into the entry of the pipe with the velocity with which it really moves in it; another portion EB is in equilibrio with the resistances arising from the mere length of the pipe expanded into a straight line; and the third portion DE ferves to overcome the refistance of the bends. If, therefore, we draw the horizontal line BC, and, taking the pipe BC out of its place, put it in the posi-tion DH, with its mouth C in H, so that DH is equal to BC, the water will have the same velocity in it that it had before. N. B. For greater simplicity of argument, we may suppose that when the pipe was inserted at B, its bends lay all in a horizontal plane, and that when it is inferted at D, the plane in which all its bends lie flopes only in the direction DH, and is perpendicular to the plane of the figure. We repeat it, the water will have the fame velocity in the pipes BC and DH, and the refiftances will be overcome. If we now prolong the pipe DH towards L to any distance, repeating continually the same bendings in a series of lengths, each equal to DH, the motion will be continued with the velocity corresponding to the pressure of the column AD; because the declivity of the pipe is augmented in each length equal to DH, by a quantity precifely sufficient for overcoming all the resistances in that length; and the true flope in these cases is BE + ED, divided by the expanded length of the pipe BC

The analogy which we were enabled to establish between the uniform motion or the train of pipes and of open freams, intitles us now to fav, that when a river has bendings, which are regularly repeated at equal intervals, its flope is compounded of the flope which is necessary for overcoming the resistance of a straight channel of its whole expanded length, agreeably to the formula for uniform motion, and of the flope which is necessary for overcoming the resistance arising from

Thus, let there be a river which, in the expanded course of 6000 fathoms, has to elbows, each of which has 30° of rebound; and let its mean velocity be 20 inches in a fecond. If we should learn its whole slope in this 6000 fathoms, we must first find (by the formula of uniform motion) the flope's which will produce the velocity of 20 inches in a firaight river of this length, Theory fection, and mean depth. Suppose this to be TYGOT, or 20 inches in this whole length. We must then find (by the formula \frac{1}{3200}) the slope recessary for overcoming the resultance of 10 rebounds of 30° each. This

we shall find to be  $6\frac{\pi}{7}$  inches in the 6000 fathoms. Therefore the river must have a slope of  $26\frac{\pi}{7}$  inches in 6000 fathoms, or  $\frac{\pi}{7}\frac{\pi}{7}\pi\pi$ ; and this slope will produce the same velocity which 20 inches, or  $\frac{\pi}{7}\frac{\pi}{7}\pi\pi$ , would do in a straight running river of the same length.

## PART II. PRACTICAL INFERENCES.

HAVING thus established a theory of a most important part of hydraulics, which may be confided in as a just representation of nature's procedure. we shall apply it to the examination of the chief results of every thing which art has contrived for limiting the operations of nature, or modifying them lo as to fuit our particular views. Trufting to the detail which we have given of the connecting principles, and the chief circumflances which co-operate in producing the oftenfible effect; and supposing that such of our readers as are interested in this subject will not think it too much trouble to make the applications in the same detail; we shall content ourselves with merely pointing out the fleps of the process, and showing their foundation in the theory itself : and frequently, in place of the direct analyfis which the theory enables us to employ for the folution of the problems, we shall recommend a process of approximation by trial and correction, fufficiently accurate, and more within the reach of practical engineers. We are naturally led to confider in order the following

 The effects of permanent additions of every kind to the waters of a river, and the most effectual methods of preventing or removing inundations.

2. The effects of weirs, bars, fluices, and keeps of every kind, for rating the furface of a river; and the fimilar effects of bridges, pict, and every thing which contracts the fection of the fream.

3. The nature of canals; how they differ from rivers in refpect of origin, discharge, and regimen, and what conditions are necessary for their most perfect construc-

4. Canals for draining land, and drafts or canals of derivation from the main stream. The principles of their construction, so that they may fait their intended purposes, and the change which they produce on the main stream, both above and below the point of derivation.

Of the Effects of Permanent Additions to the Waters of a River.

Problems and exam. every kind of foil or bed there corresponds a certain veples on the locity of current, too small to hurt it by digging it up, officeds of permanent additions to the war. any particular situation, and the quantity of water which terms of an. the chained must of needing discharge, we may wish to term the situation, and the quantity of water which term of an. that the waters may run with the required velocity. This singgest,

PROB. I. Given the discharge D of a river, and V its

velocity of regimen: required the smallest slope s, and the dimensions of its bed?

Since the flope mult be the smallest possible, the bed must have the form which will give the greatest mean depth d, and should therefore be the trapezium formerly deteribed; and its area and perimeter are the same with those of a rectangle whose breadth is twice its height

 $\hbar$ . These circumflances gives us the equation  $\frac{D}{V} = 2\hbar^{3}$ . For the area of the section is twice the square of the height, and the discharge is the product of this area

and the velocity. Therefore  $\sqrt{\frac{D}{2V}} = h$  and  $\sqrt{\frac{2D}{V}}$  = the brendth b.

The formula of uniform notion gives  $\sqrt{J}$ —L $\sqrt{J}$ +1.6  $= \frac{29 \left( \sqrt{J} - 0.1 \right)}{\sqrt{1 + 0.3} \left( \sqrt{J} - 0.1 \right)}.$  Instead of  $\sqrt{J}$  —0.1, put its

equal  $\sqrt{\frac{h}{a}}$  =0.1, and every thing being known in the fecond member of this equation, we eafily get the value of s by a few trials after the following manner: Suppose that the fecond member is equal to any number, fuch as 9. First suppose that v s is = 9. Then the hyperbolic logarithm of 9+1.6 cr or of 10.6 is 2.36. Therefore we have 1/5-LV 5+1.6=9-2.36,=664; whereas it thould have been =9. Therefore fay 6.64:9=9:11.2 nearly. Now suppose that vs is = 12.2. Then L 12.2+1.6 = L13.8, = 2.625 nearly, and 12.2-2625 is 9.575, whereas it fhould be 9. Now we find that changing the value of Vs from Q to 12.2 has changed the answer from 6.64 to 0.575, or a change of 3.2 in our affumption has made a change of 2.935 in the answer, and has left an error of 0.575. Therefore fay 2.935:0.575 = 3.2:0.628. Then, taking 0.628 from 12.2, we have (for our next affumption or value of \subseteq 5)11.572. Now 11.572 + 1.6 = 13.172, and L 13.172 is 2.58 nearly. Now try this last value 11.561-2.58 is 9.008, fufficiently exact. This may ferve as a specimen of the trials by which we may avoid an intricate analysis.

PROB. II. Given the discharge D, the slope s, and the velocity V, of permanent regimen, to find the dimensions of the bed.

Let s be the width, and y the depth of the channel and S the area of the section. This must be  $=\frac{D}{V}$ , which is therefore =sy. The denominator s being given, we may make  $\sqrt{s+1}$ ,  $\sqrt{s+1}$ ,  $6=\sqrt{s}$ , and the formula formula

Approximation by trial and correction tecommended to practical engineers. Practical Inferences formula of mean velocity will give  $V = \frac{207(\sqrt{d}-0.1)}{\sqrt{B}}$ 

-0.3 (
$$\sqrt{d}$$
-0.1), which we may express thus: V = ( $\sqrt{d}$ -0.1) ( $\frac{297}{\sqrt{B}}$ -0.3), which gives  $\frac{V}{297}$  = =  $\sqrt{d}$ -0.1); and finally,  $\frac{V}{\sqrt{B}}$ -0.5,  $\sqrt{d}$ -0.1  $\sqrt{d}$ -

Having thus obtained what we called the mean depth, we may suppose the section rectangular. This gives  $d = \frac{xy}{x+2y}$ . Thus we have two equations, S = xyand  $d = \frac{xy}{x + 2y}$ 

From which we obtain 
$$x = \sqrt{\left(\frac{S}{2d}\right)^2 - 2S} + \frac{S}{2d}$$
.

And having the breadth x and area S, we have  $y = \frac{5}{3}$ . And then we may change this for the trapczium often

These are the chief problems on this part of the fubject, and they enable us to adjust the slope and channel of a river which receives any number of successive permanent additions by the influx of other streams. This last informs us of the rife which a new fupply will produce, because the additional supply will require additional dimensions of the channel; and as this is not supposed to increase in breadth, the addition will be in depth. The question may be proposed in the following

PROB. III. Given the flope s, the depth and the base of a rectangular bed (or a trapezium), and confequently the discharge D, to find how much the section will rife, if the discharge be augmented by a given

Let h be the height after the augmentation, and w the width for the rectangular bed. We have in any uniform

current 
$$\sqrt{d} = \frac{V}{\frac{297}{4^{'}B}}$$
. Raising this to a square,

and putting for d and V their values  $\frac{wh}{m+2h}$  and  $\frac{D}{mh}$ , and

making  $\frac{297}{\sqrt{B}}$  = 0.3 = K, the equation becomes  $\frac{wh}{w+2h}$  $=\left(\frac{D}{whK}+0.1\right)^3$ . Raifing the fecond member to a square, and reducing, we obtain a cubic equation, to be folved in the ufual manner.

But the folution would be extremely complicated. We may obtain a very expeditious and exact approximation from this confideration, that a fmall change in one of the dimensions of the section will produce a much greater change in the fection and the discharge than in the mean depth d. Having therefore augmented the unknown dimension, which is here the height, make use of this to form a new mean depth, and then the new

equation 
$$\sqrt{d} = \frac{D}{wh} \left(\frac{297}{\sqrt{B}} - 0.3\right)$$
 will give us ano-

ther value of h, which will rarely exceed the truth by Practical This ferves (by the same process) for finding ano. Inferences ther, which will commonly be sufficiently exact. We shall illustrate this by an example.

Let there be a river whole channel is a rectangle 1 to feet wide and fix feet deep, and which discharges 1 500 cubic feet of water per fecond, having a velocity of 20 inches, and flope of TTO 500, or about TTO of an inch in 100 fathoms. How much will it rife if it receives an addition which triples its difcharge? and what will be its velocity?

If the velocity remained the fame, its depth would be tripled; but we know by the general formula that its velocity will be greatly increased, and therefore its depth will not be tripled. Suppose it to be doubled, and to become 12 feet. This will give d = 10.34483 or 124.138 inches; then the equation \( \sqrt{d} = 0.1 =

$$\frac{D}{wh} \left(\frac{297}{\sqrt{B}} - 0.3\right), \text{ or } h = \frac{D}{w(\sqrt{d} - 0.1)} \left(\frac{297}{\sqrt{B}} - 0.3\right), \text{ and in }$$

which we have  $\sqrt{B} = 107.8$ , D = 4500;  $\sqrt{d} = 0.1$ = 11.0417, will give h = 13.276; whereas it should have been 12. This shows that our calculated value of d was too small. Let us therefore increase the depth by 0.9, or make it 12.9, and repeat the calculation. This will give us \[ \sqrt{d}=0.1=11.3927, and \( h=12.867, \) instead of 13.276. Therefore augmenting our data 0.0 changes our answer 0.100. If we suppose these fmall changes to retain their proportions, we may conclude that if 12 be augmented by the quantity x x 0.0. the quantity 13.276 will diminish by the quantity  $\times \times 0.409$ . Therefore that the estimated value of h may agree with the one which refults from the calculation, we must have 12+x x 0.9=13.276-9 x 0.409. This

will give  $x = \frac{1.276}{1.309}$ , =0.9748, and  $x \times 0.9 = 0.8773$ ; and 4-12.8773. If we repeat the calculation with this value of h, we shall find no change.

This value of h gives d=131.8836 inches. If we now compute the new velocity by dividing the new discharge 4500 by the new area 150 x 12.8773, we shall find it to be 27.95 inches, in place of 20, the former velocity.

We might have made a pretty exact first assumption. by recollecting what was formerly observed, that when the breadth is very great in proportion to the depth, the mean depth differs infenfibly from the real depth, or rather follows nearly the fame proportions, and that the velocities are proportional to the square roots of the depths. Call the first discharge d, the height h, and velocity v, and let D, H, and V, express these things in their augmented state. We have v= and

 $V = \frac{D}{vvH}$ , and  $v : V = \frac{d}{h} : \frac{D}{H}$ , and  $v^a : V^a = \frac{d^a}{h^a} : \frac{D^a}{H^a}$ . But by this remark  $v^2: V^2 = h: H$ . Therefore  $h: H = \frac{d^3}{h^2}: \frac{D^3}{H^3}$  and  $\frac{hD^3}{H^4} = \frac{H d^3}{h^2}$ , and  $h^3D^3 = H^3d^3$ , and  $d^3:$ 

$$D^1 = h^3 : H^3$$
 (a uleful theorem) and  $H^1 = \frac{h^3 D^3}{d^3}$ , and

$$H = \sqrt[3]{\frac{h^3 D^3}{d^3}} = 12.48.$$

Practical

Or we might have made the fame affumption by the remark also formerly made on this case, that the squares of the discharges are nearly as the cubes of the height,

or 15002: 45002=63: L2.483. And in making these first guesses, we shall do it more exactly, by recollecting that a certain variation of the mean depth d requires a greater variation of the height, and the increment will be to the height nearly as half the height to the width, as may eafily be feen. There-

fore, if we add to 12.48 its  $\frac{6.24}{150}$ th part, or its 24th part,

viz. 0.52, we have 13 for our first assumption, exceeding the truth only an inch and a half. We mention these circumstances, that those who are disposed to apply these doctrines to the solution of practical cases may he at no loss when one occurs of which the regular folution requires an intricate analytis.

It is evident that the inverse of the foregoing problems will show the effects of enlarging the section of a river, that is, will show how much its surface will be funk by any proposed enlargement of its bed. It is therefore needless to propose such problems in this place. Common fense directs us to make these enlargements in those parts of the river where their effect will be greatest, that is, where it is shallowest when its breadth greatly exceeds its depth, or where it is narrowest (if its depth exceed the breadth, which is a very rare case), or in general, where the Cope is the smallest

for a short run.

The fame general principles direct us in the method of embankments, for the prevention of floods, by enabling us to ascertain the heights necessary to be given to our banks. This will evidently depend, not only on the additional quantity of water which experience tells us a river brings down during its freshes, but also on the distance at which we place the banks from the natural banks of the river. This is a point where mistaken economy frequently defeats its own purpole. If we raife our embankment at fome distance from the natural banks of the river, not only will a smaller height suffice, and confequently a fmaller bafe, which will make a faving in the duplicate proportion of the height; but our works will be fo much the more durable nearly, if not exactly, in the fame proportion. For by thus enlarging the additional bed which we give to the fwollen river, we diminish its velocity almost in the same proportion that we enlarge its channel, and thus diminish its power of ruining our works. Except, therefore, in the case of a river whole freshes are loaded with fine fand to destroy the turf, it is always proper to place the embankment at a confiderable diftance from the natural banks. Placing them at half the breadth of the stream from its natural banks, will nearly double its channel; and, except in the case now mentioned, the space thus detached from our fields will afford excellent pasture.

The limits of fuch a work as ours will not permit us to enter into any detail on the method of embankment. It would require a volume to give instructions as to the manner of founding, raising, and securing the dykes which must be raised, and a thousand circumstances which must be attended to. But a few general observations may be made, which naturally occur while we are confidering the manner in which a river works in fettling

It must be remarked, in the first place, that the river Practical will rife higher when embanked than it does while it Inferences. was allowed to fpread; and it is by no means eafy to conclude to what height it will rife from the greatest height to which it has been observed to rife in its floods. When at liberty to expand over a wide valley; then it could only rife till it overflowed with a thickness or depth of water fufficient to produce a motion backwards into the valley quick enough to take off the water as fait as it was supplied; and we imagine that a foot or two would fuffice in most cases. The best way for a prudent engineer will be to observe the utmost rife remembered by the neighbours in some gorge, where the river cannot fpread out. Measure the increased section in this place, and at the same time recollect, that the water increases in a much greater proportion than the fection; because an increase of the hydraulic mean depth produces an increase of velocity in the duplicate proportion of the depth nearly. But as this augmentation of velocity will obtain allo between the embankments, it will be fufficiently exact to suppose that the section must be increased here nearly in the same proportion as at the gorge already mentioned. Neglecting this method of information, and regulating the height of our embank-ment by the greatest swell that has been observed in the plain, will affuredly make them too low, and render them totally ufelefs.

A line of embankment should always be carried on by a first concert of the proprietors of both banks through its whole extent. A greedy proprietor, by advancing his own embankment beyond that of his neighbours, not only exposes himself to risk by the working of the waters on the angles which this will produce, but exposes his neighbours also to danger, by narrowing the fection, and thereby raising the surface and increasing the velocity, and by turning the stream athwart, and causing it to shoot against the opposite bank. The whole should be as much as possible in a line; and the general effect should be to make the course of the stream straighter than it was before. All bends should be made more gentle, by keeping the embankment further from the river in all convex lines of the natural bank. and bringing it nearer where the bank is concave. This will greatly diminish the action of the waters on the bankment, and infure their duration. The fame maxim must be followed in fencing any brook which discharges itself into the river. The bends given at its mouth to the two lines of embankment should be made less acute than those of the natural brook, although, by this means, two points of land are left out. And the opportunity should be embraced of making the direction of this transverse brook more sloping than before, that is,

less athwart the direction of the river.

It is of great consequence to cover the outside of the dyke with very compact turf closely united. If it admit water, the interior part of the wall, which is always more porous, becomes drenched in water, and this water acts with its flatical preffure, tending to burst the bank on the land-fide, and will quickly thift it from its feat. The utmost care should therefore be taken to make it and keep it perfectly tight. It should be a continued fine turf, and every bare spot should be carefully covered with fresh sod; and rat holes must be carefully closed up.

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Practical Inferences

Of Straighting or Changing the Course of Rivers.

Of the flope WE have feen, that every bending of a river requires required at an additional flope in order to continue its train, or enthe bend of able it to convey the same quantity of water without a river, and fivelling in its bed. Therefore the effect of taking the confeaway any of these bends must be to fink the waters of quences.

the river. It is proper, therefore, to have it in our power to estimate these effects. It may be definable to gain property, by taking away the fweeps of a very winding stream. But this may be prejudicial, by destroving the navigation on such a river. It may also hurt the proprietors below, by increasing the velocity of the stream, which will expose them to the risk of its overflowing, or of its destroying its bed, and taking a new course. Or this increase of velocity may be inconfiftent with the regimen of the new channel, or at least require larger dimensions than we should have given it if ignorant of this effect.

Our principles of uniform motion enable us to answer every question of this kind which can occur; and M. de Buat proposes several problems to this effect. The regular folutions of them are complicated and difficult; and we do not think them necessary in this place, because they may all be folved in a manner not indeed so elegant, because indirect, but abundantly accurate, and eafy to any person familiar with those which we have al-

ready confidered.

We can take the exact level across all these sweeps. and thus obtain the whole flope. We can measure with accuracy the velocity in fome part of the channel which is most remote from any bend, and where the channel itself has the greatest regularity of form. This will give us the expence or discharge of the river, and the mean depth connected with it. We can then examine whether this velocity is precifely fuch as is compatible with flability in the straight course. If it is, it is evident that if we cut off the bends, the greater flope which this will produce will communicate to the waters a velocity incompatible with the regimen fuited to this foil, unless we enlarge the width of the stream, that is, unless we make the new channel more capacious than the old one. We must now calculate the dimensions of the channel which, with this increased slope, will conduct the waters with the velocity that is necessary. All this may be done by the foregoing problems; and we may easiest accomplish this by steps. First, suppose the bed the fame with the old one, and calculate the velocity for the increased slope by the general formula. change one of the dimensions of the channel, so as to produce the velocity we want, which is a very fimple process. And in doing this, the object to be kept chiefly in view is not to make the new velocity fuch as will be incompatible with the stability of the new

Having accomplished this first purpose, we learn (in the very folution) how much shallower this channel with its greater flope will be than the former, while it difcharges all the waters. This diminution of depth must increase the flope and the velocity, and must diminish the depth of the river, above the place where the alteration is to be made. How far it produces these effects may be calculated by the general formula. We then the whether the navigation will be hurt, either in the

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old river up the fiream, or in the new channel. It is Practical plain that all these points cannot be reconciled. We I ferences, may make the new channel fuch, that it shall leave a velocity compatible with stability, and that it shall not diminish the depth of the river up the stream. But, having a greater flope, it must have a smaller mean

depth, and also a smaller real depth, unless we make it of a very inconvenient form.

The fame things viewed in a different light, will flow us what depression of waters may be produced by rectifying the courle of a river in order to prevent its overflowing. And the process which we would recommend is the fame with the foregoing. We apprehend it to be quite needless to measure the angles of rebound, in order to compute the stope which is employed for fending the river through the bend, with a view to superfede this

by straighting the river. It is infinitely easier and more

exact to measure the levels themselves, and then we know the effect of removing them.

Nor need we follow M. de Buat in folving problems for diminishing the slope and velocity, and deepening the channel of a river by bending its course. The expence of this would be in every case enormous; and the practices which we are just going to enter upon afford infinitely eafier methods of accomplishing all the purposes which are to be gained by these changes.

Of Bars, Weirs, and Jetteys, for raifing the Surface of

WE propose, under the article WATER-Works, to Problems, confider in fufficient practical detail all that relates to examples, the conftruction and mechanism of these and other erec- and confetions in water; and we confine ourselves, in this place, raising the to the mere effect which they will produce on the cur-furface of rent of the river.

We gave the name of weir or bar to a dam erected across a river for the purpose of raising its waters, whether in order to take off a draft for a mill or to deepen the channel. Before we can tell the effect which they will produce, we must have a general rule for ascertaining the relation between the height of the water above the lip of the weir or bar, and the quantity of water

which will flow over.

First, then, with respect to a weir, represented in fig. 20. and fig. 21. The latter figure more refembles Fig. 20, 21. their usual form, confishing of a dam of folid masonry, or built of timber, properly fortified with shoars and banks. On the top is fet up a ftrong plank FR, called the wasteboard or waster, over which the water flows, This is brought to an accurate level, of the proper height, Such voiders are frequently made in the fide of a millcourfe, for letting the superfluous water run off. This is properly the WASTER, VOIDER: it is also called an OFFSET. The same observations will explain all these different pieces of practice. The following questions occur in courfe.

PROB. I. Given the length of an offset or wasteboard, made in the face of a refervoir of stagnant water, and the depth of its lip under the horizontal furface of the water, to determine the discharge, or the quantity of water which will run over in a fecond?

Let AB be the horizontal furface of the still water, and F the lip of the wasteboard. Call the depth BF under the furface h, and the length of the wasteboard A. N. B.

Practical N. B. The water is appoind to flow over into another Inferences balon or channel, fo much lower that the furface HL of the water is lower, or at least not higher,

If the water could be supported at the beight BF, BF might be con idered as an orifice in the fide of a veffel. In which case, the discharge would be the same as if the whole water were flowing with the vel-city acquired from the height & BT, or & h. And if we suppose that there is no contraction at the orince, the mean velocity would be  $\sqrt{2g^{\frac{1}{3}}h}$ , =  $\sqrt{7725}h$ , in English inches, per second. The area of this orifice is I h. Therefore the discharge would be I h V 7724 h, all being measured in inches. This is the usual theory; but it is not an exact representation of the manner in which the efflux really happens. The water cannot remain at the height BF; but in drawing towards the wasteboard from all fides, it forms a convex furface AlH, fo that the point I, where the vertical drawn from the edge of the wasteboard meets the curve, is considerably lower than B. But as all the mass above F is supposed perfeetly fluid, the preffure of the incumbent water is propagated, in the opinion of M. de Buat, to the filament passing over at F without any diminution. The same may be faid of any filament between F and I. Each tends, therefore, to move in the fame manner if it were really impelled through an orifice in its place. Therefore the motions through every part of the line or plane IF are the same as if the water were cscaping through an orifice IF, made by a fluice let down on the water, and keeping up the water of the refervoir to the level AB. It is beyond a doubt (fays he) that the height IF must depend on the whole height BF, and that there must be a certain determined proportion between them. He does not attempt to determine this proportion theoretically, but fays, that his experiments afcertain it with great precision to be the proportion of one to two, or that IF is always one-half of BF. He says, however, that this determination was not by an immediate and direct measurement; he concluded it from the comparison of the quantities of water discharged under different heights of the water in the refervoir.

We cannot help thinking that this reasoning is very defective in feveral particulars. It cannot be inferred, from the laws of hydroflatical pressure, that the filament at I is pressed forward with all the weight of the column BI. The particle I is really at the furface; and confidering it as making part of the furface of a running ftream, it is subjected to hardly any pressure, any more than the particles on the furface of a cup of water held in the hand, while it is carried round the axis of the earth and round the fun. Reafoning according to his own principles, and availing himfelf of his own discovery, he should say, that the particle at I has an accelerating force depending on its flope only; and then he should have endeavoured to afcertain this slope. The mo ion of the particle at I has no immediate connection with the pressure of the column BI; and if it had, the motion would be extremely different from what it is: for this pressure alone would give it the velocity which M. Buat affigns it. Now it is already paffing through the point I with the velocity which it has acquired in descending along the curve AI; and this is the real state of the case. The particles are passing through with a velocity already acquired by a floping current; Practical and they are accelerated by the hydroflatical prefiure of Interests the water above them. The internal mechanism of these motions is infinitely more complex than Mr. Bust here supposes; and on this supposition, he very nearly abandons the theory which he has so ingeriously chabilited, and adopts the theory of Guglichi in which he had exploded. At the same time, we think that he is not much mittaken when he afferts, that the mittims are nearly the same as if a fluice had been let down from the surface to I. For the slament which passes at I has been gliding down a curved surface, and has not been exposed to any friction. It is perhaps the very case of hydraulies where the obstructions are the smallett, and we should therefore expect that its motion

will be least retarded. We have therefore no hefitation in faving, that the filament at 1 is in the very state of motion which the theory would affign to it if it were paffing under a fluice, as M. Buat supposes. And with respect to the inferior filaments, without attempting the very difficult talk of investigating their motions, we shall just fav, that we do not fee any reason for supposing that they will move flower than our author supposes. Therefore, though we reject his theory, we admit his experimental proposition in general; that is, we admit that the whole water which paffes through the plane IF moves with the velocity (though not in the fame direction) with which it would have run through a fluice of the fame depth; and we may proceed with his determination of the quantity of water discharged.

If we make BC the axis of a parabola BEGH, the velocities of the filaments paffing at I and F will be represented by the ordinates IE and FG, and the difcharge by the area IEGF. This allows a very neat folution of the problem. Let the quantity discharged per second be D, and let the whole height BF be h. Let 2 G be the quantity by which we must divide the fquare of the mean velocity, in order to have the producing height. This will be less than 2g, the acceleration of gravity, on account of the convergency at the fides and the tendency to convergence at the lip F. We formerly gave for its measure 726 inches, inflead of 772, and faid that the inches discharged per second from an orifice of one inch were 26.49, instead of 27.78. Let x be the distance of any filament from the horizontal line AB. An element of the orifice, therefore. (for we may give it this name) is /x. The velo-

city of this element is  $\sqrt{2 G x}$ , or  $\sqrt{2 G} \times \sqrt{x}$ . The discharge from it is  $\sqrt{\sqrt{2 G x^{\frac{1}{2}}}} \dot{x}$ , and the fluent of this, or  $D = \int l \sqrt{2 G x^{\frac{1}{2}}} \dot{x}$ , which is  $\frac{1}{2} l \sqrt{2 G x^{\frac{1}{2}}} + C$ .

To determine the conflant quantity C, observe that M, de Buat found by experiment that B was in all caves B BF. Therefore D must be nothing when  $x=\frac{1}{4}h_z^2$  consequently  $C=-\frac{3}{2}/\sqrt{2}G\left(\frac{h}{2}\right)^{\frac{1}{2}}$  and the completions

ed fluent will be  $D=\frac{2}{3}/\sqrt{2}G\left(x_{\frac{3}{2}}^{2}-\left(\frac{\hbar}{2}\right)^{\frac{2}{3}}\right)$ .

Now make x = h, and we have

$$D = \frac{1}{3} / \sqrt{2G} \left( h \frac{1}{2} - \left( \frac{h}{2} \right)^{\frac{3}{2}} \right) = \frac{1}{3} / \sqrt{2G} \left( 1 - \left( \frac{1}{2} \right)^{\frac{3}{2}} \right) h_{\frac{3}{2}}^{\frac{3}{2}},$$

Practical But  $1 - (\frac{1}{2}) \frac{3}{4} = 0.64645$ , and  $\frac{3}{2}$  of this is 0.431:

Interences Therefore, finally,

 $D = 0.431 (\sqrt{2 G} h_{1}^{1} \times 1).$ 

If we now put 26.49 or  $26\frac{1}{5}$  for  $\sqrt{2}$  G, or the velocity with which a head of water of one inch will impel the water over a weir, and multiply this by 0.431, we get the following quantity 11.4172, or, in numbers of easy recollection, 11½, for the cubic inches of water per fecond, which runs over every inch of a watteboard when the edge of it is one inch below the furface of the refervoir; and this mult be multiplied by  $h^2_3$ , or by the figurar root of the cube of the head of water. Thus let the edge of the wateboard be four inches below the furface of the water. The cube of this is 64, of which the figurar root is eight. Therefore a wateboard of this depth under the furface, and three feet long, will discharge every fector  $8\times36\times11^2$  cubic inches of water, or  $\frac{1}{12}$  cubic feet, English measure.

The following comparions will flow how much this theory may be depended on. Col. 1. flows the depth of the edge of the board under the furface; 2. flows the difcharge by theory; and, 3, the difcharge actually observed. The length of the board was 18; inches, N. B. The numbers in M. Buat's experiments are here

reduced to English measure.

D.	D. Theor.	D. Exp.	E.
1.778	506	524	28.98
3.199	1222	1218	69.83
4.665	2153	2155	123.03
6.753	3750	3771	214.29

The last column is the cubic inches difebarged in a fetond by each inch of the wasteboard. The correspondence is undoubtedly very great. The greatest error is in the first, which may be attributed to a much smaller lateral contraction under fo small a head of water.

But it must be remarked, that the calculation proceeds on two suppositions. The height FI is supposed of BI; and 2 G is supposed 726. It is evident, that by increasing the one and diminishing the other, nearly the fame answers may be produced, unless much greater variations of h be examined. Both of these quantities are matters of confideral le uncertainty, particularly the first; and it must be farther remarked, that this was not meafured, but deduced from the uniformity of the experiments. We prefume that M. Buat tried various values of G, till he found one which gave the ratios of discharge which he observed. We beg leave to observe, that in a fet of numerous experiments which we had accels to examine, BI was uniformly much less than 1; it was very nearly 3: and the quantity discharged was greater than what would result from M. Buat's calculation. It was farther observed, that IF depended very much on the form of the wasteboard. When it was a very thin board of confiderable depth, IF was very confiderably greater than if the board was thick, or narrow, and fet on the top of a broad dam-head, as in fig. 21.

It may be proper to give the formula a form which will correspond to any ratio which experience may discover between BF and IF. Thus, let BI be #BF.

The formula will be  $D = \frac{1}{3} / \sqrt{2G} \left(1 - \left(\frac{m}{n}\right)^{\frac{1}{3}}\right) h_{\frac{1}{2}}^{\frac{1}{3}} \underbrace{\text{Finch at}}_{\text{the rone es.}}$ 

Meantime, this theory of M. de Buat is of great value to the practical engineer, who at prefent mult content himself with a very vague conjecture, or take the calculation of the erroneous theory of Guglielmin. By that theory, the board of three feet, at the depth of four inches, should discharge nearly 3 roce cubic feet per feecond, which is almost double of what it really delivers.

We prefume, therefore, that the following table will be acceptable to practical engineers, who are not familiar with fuch computations. It contains, in the first column, the depth in English inches from the furface of the flagnant water of a refervoir to the edge of the wasteboard. The second column is the cubic feet of water discharged in a minute by every inch of the wasteboard.

Depth.	Discharge.
I	0.403
2	1.140
3	2.095
4	3.225
5	4.507
	5.925
7 8	7.466
8	9.122
9	10.584
10	12.748
II	14.707
12	16.758
13	18.895
1.4	21.117
15	23.419
16	25.800
17	28.258
18	30.786

When the depth does not exceed four inches, it will not be exact enough to take proportional parts for the fractions of an inch. The following method is exact.

If they be odd quarters of an inch, look in the table for as many inches as the depth contains quarters, and take the eighth part of the answer. Thus, for 3½ inches, take the eighth part of 23.419, which corresponds to

15 inches. This is 2.927.

If the wafteboard is not on the face of a dam, but in a running ftream, we must augment the difcharge by multiplying the fection by the velocity of the ftream. But this correction can feldom occur in practice; becaufe, in this cafe, the difcharge is previously known; and it is A that we want; which is the object of the next problem.

We only beg leave to add, that the experiments which we mention as having been already made in this country, give a refult fomewhat greater than this table, viz. about \( \frac{1}{26} \). Therefore, having obtained the answer by this table, add to it its 16th part, and we apprehend that it will be extremely near the truth.

When, on the other hand, we know the discharge over a wasteboard, we can tell the depth of its edge un-

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Practical der the furface of the flagmant water of the refervoir, Interences. because we have  $\lambda = \left(\frac{D}{11\frac{1}{4}}\right)^{\frac{1}{2}}$  very nearly.

We are now in a condition to folve the problem re-

feetting a weir across a river. PROB. II. The discharge and section of a river being given, it is required to determine how much the waters will be raifed by a weir of the whole breadth of the river, discharging the water with a clear fall, that is, the furface of the water in the lower channel being be-

low the edge of the weir

In this case we have 2 G = 746 nearly, because there will be no contraction at the fides when the weir is the whole breadth of the river. But further, the water is not now flagmant, but moving with the velocity  $\frac{D}{S}$ , S being the fection of the river.

Therefore let a be the height of the weir from the bottom of the river, and h the height of the water above the edge of the weir. We have the velocity with which the water approaches the weir =  $\frac{D}{I(a+h)^2}$ 

I being the length of the weir or breadth of the river. Therefore the height producing the primary mean velocity is  $\left(\frac{D}{\sqrt{2g}(a+h)}\right)^3$ . The equation given a little ago will give  $h = \left(\frac{D}{\cos 431/\sqrt{2G}}\right)^{\frac{1}{2}}$ , when the water above the weir is flagmant. Therefore, when it

is already moving with the velocity  $\frac{D}{la+h}$ , we shall

have 
$$h = \left(\frac{D}{0.431\sqrt{2G}}\right)^{\frac{1}{2}} - \left(\frac{D}{l\sqrt{2g}(a+h)}\right)^{\frac{1}{2}}$$
. It

would be very troublesome to solve this equation regularly, because the unknown quantity h is found in the fecond term of the answer. But we know that the height producing the velocity above the weir is very fmall in comparison of h and of a, and, if only estimated roughly, will make a very infenfible change in the value of h; and, by repeating the operation, we can correct this value, and obtain h to any degree of exactnefs.

To illustrate this by an example. Suppose a river, the fection of whose stream is 150 feet, and that it difcharges 174 cubic feet of water in a second; how much will the waters of this river be raifed by a weir of the fame width, and three feet high?

Suppose the width to be 50 feet. This will give 3 feet for the depth; and we fee that the water will have a clear fall, because the lower stream will be the same as before.

The fection being 150 feet, and the discharge 174, the mean velocity is  $\frac{1724}{3} = 1.16$  feet, = 14 inches nearly, which requires the height of  $\frac{\pi}{4}$  of an inch very nearly. This may be taken for the fecond term of the value of h. Therefore  $h = \left(\frac{D}{0.431\sqrt{2G}}\right)^{\frac{1}{2}} - \frac{1}{4}$ . Now

√2G is, in the present case, =27.313; /is 600, and D is  $174 \times 1728$ , = 300672. Therefore h = 12.192-0.25, = 11.942. Now correct this value of h, by correcting the fecond term, which is i of an inch, inflead of  $\left(\frac{D}{\sqrt{2\pi/(a+k)}}\right)^2$ , or 0.141. This will give interences.

us h = 12.192 - 0.141, = 12.051, differing from the first value about  $\frac{1}{16}$  of an inch. It is needless to carry the approximation farther. Thus we see that a weir which dams up the whole of the former current of three feet deep, will only raife the waters of this river one

The same rule serves for showing how high we ought to raise this weir in order to produce any given rise of the waters, whether for the purpofes of navigation, or for taking off a draft to drive mills, or for any other fervice; for if the breadth of the river remain the fame, the water will fill flow over the weir with nearly the fame depth. A very fmall and hardly perceptible difference will indeed arise from the diminution of slope occasioned by this rife, and a consequent diminution of the velocity with which the river approaches the weir. But this difference must always be a small fraction of the fecond term of our answer; which term is itself very fmall: and even this will be compensated, in some degree, by the freer fall which the water will have over the weir.

If the intended weir is not to have the whole breadth of the river (which is feldom necessary even for the purpoles of navigation), the waters will be raifed higher by the same height of the wasteboard. The calculation is precifely the same for this case. Only in the fecond term, which gives the head of water corresponding to the velocity of the river, / must still be taken for the whole breadth of the river, while in the first term / is the length of the wasteboard. Also V2G must be a little less, on account of the contractions at the ends of the weir, unless these be avoided by giving the mafonry at the ends of the wasteboard a curved shape on the upper fide of the wasteboard. This should not be done when the fole object of the weir is to raise the furface of the waters. Its effect is but trifling at any rate, when the length of the wasteboard is confiderable, in proportion to the thickness of the sheet of water flowing over it.

The following comparisons of this rule with experiment will give our readers some notion of its utility.

Discharge of the Werr per Second.	Head pro- ducing the velocity at the Weir.	Head pro- ducing the Velocity ,above it.	Galculated Height of the River above the Wafteboard.	Observed Height.			
Inches,	Inches.	Inches.	Inches.	Inches.			
3888	7.302	0.625	6.677	6.583			
2462	5.385	0.350	5.035	4.750			
1112	3.171	0.116	3.055	3.166			
259	1.201	0.0114	1,189	1.250			

It was found extremely difficult to measure the exact height of the water in the upper stream above the wasteboard. The curvature AI extended feveral feet up the fiream. Indeed there must be formething arbitrary in this measurement, because the surface of the stream is not horizontal. The deviation should be taken, not from a horizontal plane, but from the inclined furface of the river.

Practical

It is plain that a river cannot be fitted for continued Inferences, navigation by WEIRS. These occasion interruptions; but a few inches may fometimes be added to the waters of a river by a BAR, which may still allow a flat-bot-tomed lighter or a raft to pass over it. This is a very frequent practice in Holland and Flanders; and a very cheap and certain conveyance of goods is there obtained by means of flreams which we would think no better than boundary ditches, and unfit for every purpose of this kind. By means of a bar the water is kept up a very few inches, and the stream has free course to the fea. The shoot over the bar is prevented by means of another bar placed a little way below it, lying flat in the bottom of the ditch, but which may be raifed up on hinges. The lighterman makes his boat fast to a stake immediately above the bar, raises the lower bar, brings over his boat, again makes it fast, and, having laid down the other bar again, proceeds on his journey. This contrivance answers the end of a lock at a very trifling expence; and though it does not admit of what we are accustomed to call navigation, it gives a very fure conveyance, which would otherwife be impossible. When the waters can be raifed by bars, fo that they may be drawn off for machinery or other purposes, they are preferable to weirs, because they do not obstruct floating with rafts, and are not destroyed by the

> PROB. III. Given the height of a bar, the depth of water both above and below it, and the width of the

river; to determine the discharge.

This is by no means fo eafily folved as the discharge over a weir, and we cannot do it with the fame degree of evidence. We imagine, however, that the following observations will not be very far from a true account of

Fig. 22.

We may first suppose a refervoir LFBM (fig. 22.) of ftagnant water, and that it has a wasteboard of the height CB. We may then determine, by the foregoing problems, the discharge through the plane EC, With respect to the discharge through the part CA, it should be equal to this product of the part of the fection by the velocity corresponding to the fall EC, which is the difference of the heights of water above and below the bar; for, because the difference of E a and Ca is equal to EC, every particle a of water in the plane CA is pressed in the direction of this stream with the fame force, viz. the weight of the column EC. The fum of these discharges should be the whole discharge over the bar: but fince the bar is fet up acrofs a running river, its discharge must be the same with that of the river. The water of the river, when it comes to the place of the bar, has acquired fome velocity by its flope or other causes, and this corresponds to fome height FE. This velocity, multiplied by the fection of the river, having the height EB, should give a discharge equal to the discharge over the bar.

To avoid this complication of conditions, we may first compute the discharge of the bar in the manner now pointed out, without the confideration of the previous velocity of the stream. This discharge will be a little too small. If we divide it by the section FB, it will give a primary velocity too fmall, but not far from the truth. Therefore we shall get the height FE, by means of which we shall be able to determine a velocity intermediate between DG and CH, which would correspond to a weir, as also the velocity CH, which cor- Practical responds to the part of the section CA, which is wholly Inferences. under water. Then we correct all these quantities by repeating the operation with them instead of our first affirmations.

Mr Buat found this computation extremely near the truth, but in all cases a little greater than observation

exhibited.

We may now folve the problem in the most general

PROB. IV. Given the breadth, depth, and the flope of a river, if we confine its paffage by a bar or weir of a known height and width, to determine the rife of the waters above the bar.

The flope and dimensions of the channel being given. our formula will give us the velocity and the quantity of water discharged. Then, by the preceding problem, find the height of water above the wasteboard. From the fum of these two heights deduct the ordinary depth of the river. The remainder is the rife of the waters. For example:

Let there be a river whose ordinary depth is a feet, and breadth 40, and whose slope is 1 inches in 100 fathoms, or as oo. Suppose a weir on this river fix feet

high and 18 feet wide.

We must first find the velocity and discharge of the river in its natural state, we have /= 480 inches, h= 36,  $\frac{1}{6} = \frac{7}{4800}$ . Our formula of uniform motion gives

V=23.45, and D=405216 cubic inches.

The contraction obtains here on the three fides of the We may therefore take  $\sqrt{2G} = 26.1$ . N. B. This example is Mr Buat's, and all the measures are French. We have also a (the height of the weir) 72, and 2g = 724. Therefore the equation h = $\left(\frac{D}{0.431\sqrt{2G}}\right)^{\frac{1}{3}} - \left(\frac{D}{I\sqrt{2g}(a+h)}\right)^{3} \text{ becomes 30.182.}$ 

Add this to the height of the weir, and the depth of the river above the fluice is 102.182, = 8 feet and 6.182 inches. From this take 3 feet, and there remains 5 feet and 6.182 inches for the rife of the waters.

There is, however, an important circumstance in this rife of the waters, which must be distinctly understood before we can fay what are the interesting effects of this weir. This fwell extends, as we all know, to a confiderable distance up the stream, but is less sensible as we go away from the weir. What is the distance to which the swell extends, and what increase does it produce in the depth at different distances from the weir

If we suppose that the slope and the breadth of the channel remain as before, it is plain, that as we come down the stream from that point where the swell is infensible, the depth of the channel increases all the way to the dam. Therefore, as the same quantity of water passes through every section of the river, the velocity must diminish in the same proportion (very nearly) that the fection increases. But this being an open ftream, and therefore the velocity being inseparably connected with the flope of the furface, it follows, that the flope of the furface mutl diminish all the way from that point where the fwell of the water is infensible to the dam. The furface, therefore, cannot be a simple inclined plane, but must be concave upwards, as reprefented in fig. 23. where FKLB represents the channel Fig. 23.

Pactical of a river, and FB the furtice of the water running in it. Inferences. If this be kept up to A by a weir AL, the furface will be a curve FIA, touching the natural furface F at the beginning of the fwell, and the line AD which touches it in A will have the flope S corresponding to the velocity which the waters have immediately before going over the weir. We know this flope, because we are supposed to know the discharge of the river and its flope and other circumstances before barring it with a dam; and we know the height of the dam H, and therefore the new velocity at A. or immediately above A, and consequently the slope S. Therefore, drawing the horizontal lines DC, AG, it is plain that CB and CA will be the primary flope of the river, and the flope S corresponding to the velocity in the immediate neighbourhoood of A, because these verticals have the same horizontal dittance DC. We have therefore CB : CA =S:s very nearly, and S-s:s=CB-CA:CA,  $\equiv$ A (nearly) : CA. Therefore CA  $\equiv \frac{AB \times s}{S - s}$ ,  $\frac{H_s}{S-s}$ . But DA=CA×S, by our definition of flope;

therefore DA= H.S.s. This is all that we can fay with precision of this curve. Mr Buat examined what would refult from fuppoling it an arch of a circle. In this case we should have DA=DF, and AF very nearly equal to 2 AD: and as we can thus find AD, we get the whole length FIA of the fwell, and also the distances of any part of the curve from the primitive furface FB of the river; for these will be very nearly in the duplicate proportion of their distances from F. Thus ID will be one-fourth of AB, &c. Therefore we should obtain the length Id of the stream in that place. Getting the depth of the thream, and knowing the discharge, we get the velocity, and can compare this with the flope of the furface at I. This should be the slope of that part of the arch of the circle. Making this comparison, he found these circumstances to be incompatible. He found that the section and swell at I, corresponding to an arch of a circle, g ve a discharge nearly one fourth too great they were 25 405216 to 492142). Therefore the curve is fuch, that AD is greater than DF, and that it is more incurvoted at I than at A. He found, that making DA to DF as 10 to 9, and the curve FIA an arch of an elliple whose longer axis was vertical, would give a very nice correspondence of the sections, velocities, and slopes. The whole extent of the fwell therefore can never be double of AD, and must always greatly surpass AD; and these limits will do very well for every practical question. Therefore making DF nine-tenths of AD, and drawing the chord AD, and making DI one-half of Di, we shall be very near the truth. Then we get the fwell with sufficient precision for any point H hetween F and D, by making FD: FII'=ID: Hh; and if H is between D and A, we get its distance from the tangent DA by a fimilar process.

It only remains to determine the fwell produced in the waters of a river by the eraction of a bridge or cleaning floice which contracts the paffage. This re-

PROB. V. Given the depth, breadth, and flore of a river, to determine the fwell occasioned by the piets of a bridge or fides of a cleaning fluice, which contract Practical the passage by a given quantity, for a given length of Inference

This fwell depends on two circumstances.

1. The whole river must pass through a narrow space, with a velocity proportionably increased; and this requires a certain head of water above the bridge. 2. The water, in passing the length of the piers with

a velocity greater than that corresponding to the primary flope of the river, will require a greater flope in

order to acquire this velocity.

Let V be the velocity of the river before the erection of the bridge, and K the quotient of the width of the river divided by the fum of the widths between the piers. If the length of the piers, or their dimension in the direction of the stream, is not very great, KV will nearly express the velocity of the river under the arches; and if we suppose for a moment the contraction (in the and if we suppose for a moment the contraction (in the fense hitherto used) to be nothing, the height producing this velocity will be  $\frac{K^2V}{2g}$ . But the river will not rise so high, having already a slope and velocity before getting under the arches, and the height corresponding to this velocity is  $\frac{V}{2g}$ ; therefore the height for producing the augmentation of velocity is  $\frac{K^2V^6}{2 g}$ 

 $\frac{V^2}{2g}$ . But if we make allowance for contraction we must employ a 2 G lefs than 2 g, and we must multiply the height now found by  $\frac{2g}{2G}$ . It will then become  $\left(\frac{K^2V^2}{2g} - \frac{V}{2g}\right)\frac{2g}{2G} = \frac{V^2}{2G}(K^2-1)$ . This is that part

of the swell which must produce the augmentation of

With respect to what is necessary for producing the additional flope between the piers, let p be the natural flope of the river (or rather the difference of level in the length of the piers) before the erection of the bridge, and corresponding to the velocity V; Kap will very nearly express the difference of superficial level for the length of the piers, which is necessary for maintaining the velocity KV through the same length. The increase of flope therefore is  $K^* \rho - \rho = \rho$  ( $K^* - 1$ ). Therefore the whole fixell will be  $\left(\frac{V^*}{2}G + \rho\right)\overline{K^*} - 1$ .

THESE are the chief questions or problems on this Further atfubject which occur in the practice of an engineer; and tertion to the foliutions which we have given may in every case be recomdepended on as very near the truth, and we are confi-mended. dent that the errors will never amount to one-fifth of the whole quantity. We are equally certain, that of these who call themselves engineers, and who, without hefitation, undertake jobs of enormous expence, not one in ten is able even to guess at the result of such operations, unless the circumstances of the case happen to coincide with those of some other project which he has executed, or has diffinctly examined; and very few have the fagacity and penetration necessary for appreciating the effects of the diftinguishing circumstances

which yet remain. The fociety established for the en-

couragement

Practical couragement of arts and manufactures could fearcely do Inferences a more important fervice to the public in the line of their institution, than by publishing in their Transactions a description of every work of this kind executed in the kingdom, with an account of its performance. This would be a most value to collection of experiments and f ets. The unlearned practicioner would find among them lomething which refembles in its chief circumilances alm ift any project which could occur to him in his under his management : and the intelligent engineer, affifted by mathematical knowledge, and the habit of claffing things together, would be juently be able to frame general rules. To a gentleman qualified as was

Mod of making and bruks fit for inland pavigation.

WE shall conclude this article with some observations on the methods which may be taken for rendering small rivers and brooks fit for inland na igation, or at least for floatage. We get much instruction on this subject from what has been faid concerning the fwell produced in a river by weirs, bars, or any diminution of its former fection. Our knowledge of the form which the ferface of this fivell affects, will furnith rules for spacing these obstructions in such a manner, and at such dislances from each other, that the fwell produced by one shall extend to the one above it.

If we know the flope, the breadth, and the depth of a river, in the droughts of fummer, and have determined on the height of the flood-gates, or keeps, which are to be fet up in its bed, it is evident that their stations are not matters of arbitrary choice, if we would derive the greatest possible advantage from

them.

Some rivers in Flanders and Italy are made navigable in fome fort by simple sluices, which, being shut, form magazines of water, which, being discharged by opening the gates, raifes the inferior reach enough to permit the passage of the craft which are kept on it. After this momentary rife the keeps are shut again, the water finks in the lower reach, and the lighters which were floated through the shallows are now obliged to draw into those parts of the reach where they can lie afloat till the next supply of water from above enables them to proceed. This is a very rude and imperfect method, and unjustifiable at this day, when we know the effect of locks, or at least of double gates. We do not mean to enter on the confideration of these contrivances, and to give the methods of their construction, in this place, but refer our readers to what has been already faid on this subject in the articles CANAL, LOCK, NAVIGATION (Inland), and to what will be faid in the article W.ATER-Works. At prefent we confine ourselves to the single point of husbanding the different falls in the bed of the river, in fuch a manner that there may be everywhere a fufficient depth of water : and, in what we have to deliver on the fubject, we shall take the form of an example to illustrate the application of the foregoing rules.

Suppose then a river 40 feet wide and a feet deep in the droughts of fummer, with a flope of I in 4800. This, by the formula of uniform motion, will have a velocity V = 23 inches per fecond, and its discharge will be 40 5216 cubic inches, or 234 feet. It is pro- Practical posed to give this river a depth not less than five feet Inferences. in any place, by means of flood-gates of fix feet high and 18 feet wide.

We first compute the height at which this body of 234 cubic feet of water will discharge it of over the fiood-cares. This we shall find by Prob. II. to be 30 5 inches, to which adding 72, the height of the gate, we bave 102; for the whole height of the water above the floor of the gate; the primitive depth of the river being 3 feet, the rife or swell 5 feet 65 in hes. In the next place, we find the range or fentible extent of this fwell by Prob. I. and the observations which accounpany it. This will be found to be nearly 9177 fath ms. Now fince the primitive depth of the river is three feet. there is only wanted two feet of addition; and the question is reduced to the finding what point of the curved furtace of the fwell is two feet above the tangent plane at the head of the fwell? or how far this point is from the gate? The whole extent being 0177 fathoms, and the deviations from the targent plane teing nearly in the duplicate ratio of the distances from the point of contact, we may inflitute this proportion  $66\frac{1}{3}: 24 = 9177^3: 5526^3$ . The last term is the dislance (from the head of the swell) of that part of the furface which is two feet above the primitive furface of the river. Therefore 9177-5526, or 3651 fathoms, is the distance of this part from the flood-gate; and this is the distance at which the gates should be placed from each other. No inconvenience would arise from having them nearer, if the banks be high enough to contain the waters; but if they are farther distant, the required depth of water cannot be had without increafing the height of the gates; but if reasons of conveniency should induce us to place them nearer, the same depth may be fecured by lower gates, and no additional height will be required for the banks. This is gcnerally a matter of moment, because the raising of water brings along with it the chance of flooding the adjoining fields. Knowing the place where the freel ceafes to be fenfible, we can keep the top of the intermedia.c flood-gate at the precise height of the curved surface of the fwell by means of the proportionality of the deviations from the tangent to the distances from the point of contact.

But this rule will not do for a gate which is at a greater distance from the one above it than the 3651 fathoms already mentioned. We know that a higher gate is required, producing a more extensive swell; and the one fwell does not coincide with the other, although they may both begin from the same point A (fig. 24.). Fig. 24. Nor will the curves even be fimilar, unless the thickness of the flieet of water flowing over the gate be increased in the same ratio. But this is not the case; because the produce of the river, and therefore the thickness of

But we may suppose them similar without erring more than two or three decimals of an inch; and then we shall have AF : AL = fF . DL; from which, if we take the thickness of the theet of water already calculated for the other gates, there will remain the height of the gate BL.

By following these methods, instead of proceeding by random gueffes, we shall procure the greatest depth of water at the fmallest expence possible.

Practical. -Effects of freflies.

But there is a circumstance which must be attended Inferences to, and which, if neglected, may in a short time render all our works useless. These gates must frequently be open in the time of freshes; and as this channel then has its natural slope increased in every reach by the great contraction of the fection in the gates, and also rolls along a greater body of water, the action of the stream on its bed must be increased by the augmentation of velocity which these circumstances will produce: and although we may fay that the general flope is neceffarily secured by the cills of the flood-gates, which are paved with stone or covered with planks, yet this will not hinder this increased current from digging up the bottom in the intervals, undermining the banks, and lodging the mud and earth thus carried off in places where the current meets with any check. All these consequences will affuredly follow if the increased velocity is greater than what corresponds to the regimen relative to the foil in which the river holds on its

and of local circumstances.

courfe. In order therefore to procure durability to works of this kind, which are generally of enormous expence, the local circumstances must be most scrupulously studied. It is not the ordinary hurried furvey of an engineer that will free us from the risk of our navigation becoming very troublesome by the rise of the waters being diminished from their former quantity, and banks formed at a small distance below every sluice. We must attentively study the nature of the foil, and discover experimentally the velocity which is not inconfistent with the permanency of the channel. If this be not a great deal less than that of the river when acccelerated by freshes, the regimen may be preserved after the establishment of the gate, and no great changes in the channel will be necessary: but if, on the other hand, the natural velocity of the river during its freshes greatly exceeds what is consistent with stability, we must enlarge the width of the channel, that we may diminish the hydraulic mean depth, and along with this the velocity. Therefore, knowing the quantity discharged during the freshes, divide it by the velocity of regimen, or rather by a velocity fomewhat greater (for a reason which will appear by and by), the quotient will be the area of a new fection. Then taking the natural flope of the river for the flope which it will preserve in this enlarged channel, and after the cills of the flood-gates have been fixed, we must calculate the hydraulic mean depth, and then the other dimensions of the channel. And, lastly, from the known dimensions of the channel and the discharge (which we must now compute), we proceed to calculate the height and the distances of the flood-gates, adjusted to their widths, which must be regulated by the room which may be thought proper for the free passage of the lighters which are to ply on the river. An example will illustrate the whole of this process.

113 illuftrated ample.

Suppose then a fmall river having a flope of two inches in 100 fathoms or 3000, which is a very usual declivity of fuch fmall streams, and whose depth in summer is two feet, but subject to floods which raife it to nine feet. Let its breadth at the bottom be 18 feet, and the base of its flanting fides four thirds of their height. All of these dimensions are very conformable to the ordinary course of things. It is proposed to make this river navigable in all scalons by means of keeps and gates placed at pro-

channel which will be permanent, in a foil which be- Inferences. gins to yield to a velocity of 80 inches per fecond, but will be fafe under a velocity of 24. The primitive channel having the properties of a rec-

tangular channel, its breadth during the freshes must be B=30 feet, or 360 inches, and its depth & nine feet or 108 inches; therefore its hydraulic mean depth

 $d = \frac{Bn}{B+2h} = 61.88$  inches. Its real velocity therefore, during the freshes, will be 38.9447 inches, and its discharge 1514169 cubic inches, or 8764 cubic feet per second. We see therefore that the natural channel will not be permanent, and will be very quickly destroyed or changed by this great velocity. We have two methods for procuring flability, viz. diminishing the flope, or widening the bed. The first method will require the course to be lengthened in the proportion of 24th to 3988th, or nearly of 36 to 100. The expence of this would be enormous. The second method will require the hydraulic mean depth to be increased nearly in the fame proportion (because the velocities are

nearly as  $\frac{\sqrt{d}}{\sqrt{a}}$ . This will evidently be much lefs cost-

ly, and, even to procure convenient room for the navigation, must be preferred.

We must now observe, that the great velocity, of which we are afraid, obtains only during the winter floods. If therefore we reduce this to 24 inches, it must happen that the autumnal freshes, loaded with fand and mud, will certainly deposit a part of it, and choak up our channel below the flood-gates. We must therefore felect a mean velocity fomewhat exceeding the regimenthat it may carry off these depositions. We shall take 27 inches, which will produce this effect on the loofe mud without endangering our channel in any remarkable degree.

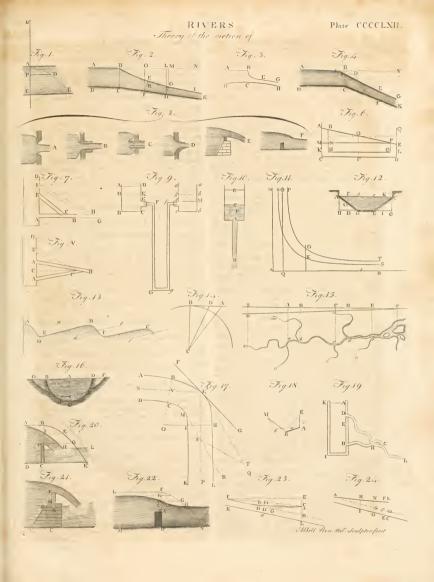
Therefore we have, by the theorem for uniform motion, V = 27,  $\frac{297(\sqrt{d}-0.1)}{\sqrt{r}-1\sqrt{r}+1.6}$  —0.3  $(\sqrt{s}-0.1)$ . Calculating the divifior of this formula, we find it = 55.884. Hence  $\sqrt{d}-0.1 = \frac{27 \text{ inch.}}{55.884} = 5.3483$ , and therefore  $\frac{d}{d}=30.3\frac{1}{2}$ . Having thus determined the background much by a find the care Sof the 676 inch by

hydraulic mean depth, we find the area S of the fection by dividing the discharge 1514169 by the velocity 27. This gives us 56080.368. Then we get the breadth B by the formula formerly given,  $B = \sqrt{\left(\frac{S}{2d}\right)^2 - 2S + \frac{S}{2d}}$ 

=1802.296 inches, or 150.19 feet, and the depth h=. 31.115 inches.

With these dimensions of the section we are certain that the channel will be permanent; and the cills of the flood-gate being all fixed agreeable to the primitive flope, we need not fear that it will be changed in the intervals by the action of the current. The gates being all open during the freshes, the bottom will be cleared of the whole deposited mud.

We must now station the flood-gates along the new Station of channel, at such distances that we may have the depth the floodof water which is proper for the lighters that are to be gates, &c.





Practical employed in the navigation. Suppose this to be four Inferences. feet. We must first of all learn how high the water will be kept in this new channel during the fummer droughts. There remained in the primitive channel only two feet, and the fection in this cafe had 20 feet eight inches mean width; and the discharge corresponding to this fection and flope of Trass is, by the theorem of uniform motion, 130,849 cubic inches per second. To find the depth of water in the new channel correfoonding to this discharge, and the same slope, we must take the method of approximation formerly exemplified. remembering that the discharge D is 130849, and the breadth B is 1760.8 at the bottom (the flant fides being four thirds). These data will produce a depth of water =6; inches. To obtain four feet therefore behind any of the flood-gates, we must have a swell of 417

We must now determine the width of passage which must be given at the gates. This will regulate the thickness of the sheet of water which slows over them when shut; and this, with the height of the gate, faces the swell at the gate. The extent of this lwell, and the elevation of every point of its curved surface above the new surface of the river, require a combination of the height of swell at the slood gate, with the primitive slope and the new velocity. These being computed, the states may be aligned, which will secure four feet of water behind each in summer. We need not give these computations, having already exemplified

them all with relation to another river.

inches produced by the gate below.

This example not only illustrates the method of proceeding, fo as to be enfured of fueces, but allo gives us a precife instance of what must be done in a case which cannot but frequently occur. We see what a prodigious excavation is necessary, in order to obtain permanency. We have been obliged to enlarge the primitive bed to about thrice its former fixe, so that the excavation is at least two-thirds of what the other method required. The expence, however, will still be vasily inserior to the other, both from the nature of the work and the quantity of ground occupied. At all events, the expence is enormous, and what could never be repaid by the navigation, except in a very sich and populous country.

There is another circumitance to be attended to .-The navigation of this river by fluices must be very defultory, unless they are extremely numerous, and of fmall heights. The natural furface of the fwell being concave upwards, the additions made by its different parts to the primitive height of the river decrease rapidly as they approach to the place A (fig. 23.), where the fwell terminates; and three gates, each of which raifes the water one foot when placed at the proper distance from each other, will raise the water much more than two gates at twice this diftance, each raifing the water two feet. Moreover, when the elevation produced by a flood-gate is confiderable, exceeding a very few inches, the fall and current produced by the opening of the gate is fuch, that no boat can possibly pass up the river, and it runs imminent ritk of being overfet and funk, in the attempt to go down the stream. This renders the navigation defultory. A number of lighters collect themfelves at the gates, and wait their opening. They pass through as foon as the ourrent becomes moderate. This would not, perhaps, be very hurtful in a regulated navi-

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gation, if they could then proceed on their voyage. Practical But the boats bound up the river must stay on the upper Internees fide of the gate which they have just now passed, because the channel is now too shallow for them to procced. Those bound down the river can only go to the next gate, unless it has been opened at a time bice y adjutted to the opening of the one above it. The paffage downwards may, in many cafes, be continued, by very intelligent and attentive lockmen, but the paffage up must be exceedingly tedious. Nav, we may fay, that while the paffage downwards is continuous, it is but in a very few cases that the passage upward is practicable. If we add to these inconveniences the great danger of passage during the freshes, while all the gates are open, and the immense and unavoidable accumulations of ice. on occasion even of slight frosts, we may see that this method of procuring an inland navigation is amazingly expensive, defultory, tedious, and hazardous. It did not therefore merit, on its own account, the attention we have beflowed on it. But the discussion was absolutely necessary, in order to show what must be done in order to obtain effect and permanency, and thus to prevent us from engaging in a project which, to a person not duly and confidently informed, is so feasible and promifing. Many professional engineers are ready, and with honest intentions, to undertake such tasks; and by avoiding this immense expense, and contenting themfelves with a much narrower channel, they fucceed, (witness the old pavigation of the river Mersey). But the work has no duration; and, not having been found very ferviceable, its cellation is not matter of much regret. The work is not much spoken of during its continuance. It is foon forgetten, as well as its failure, and engineers are found ready to engage for fuch ano-

It was not a very refined thought to change this refined imperfect made for another free from most of its incon-tion of veniences. A boat was brought up the river, through ocks. one of these gates, only by raising the waters of the inferior reach, and depressing those of the upper: and it could not escape observation, that when the gates were far afunder, a vaft body of water must be discharged before this could be done, and that it would be a great improvement to double each gate, with a very fmall distance between. Thus a very fmall quantity of water would fill the interval to the defired height, and allow the boat to come through; and this thought was the more obvious, from a fimilar practice having preceded it, viz. that of navigating a small river by means of double bars, the lowest of which lay slat in the bottom of the river, but could be raifed up on hinges. We have mentioned this already; and it appears to have been an old practice, being mentioned by Stevinus in his valuable work on fluices, published about the beginning of the last century; yet no trace of this method is to be found of much older dates. It occurred, however, acciden ally, pretty often in the flat countries of Holland and Flanders, which being the feat of frequent wars, almost every town and village was fortified with wet ditches, connected with the adjoining rivers. Stevinus mentions particularly the works of Coudé, as having been long employed, with great ingenuity, for rendering navigable a very long stretch of the Scheldt. The boats were received into the lower part of the fossee, which was feparated from the rest by a stone batardeau, serving to

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Provided keep up the waters in the reft of the foffee about eight Inference feet. In this was a fluice and another dam, by which the boats could be taken into the upper toffic, which communicated with a remote part of the Scheldt by a long canal. This appears to be one of the earliest

> In the first attempt to introduce this improvement in gave a partial and interrupted navigation, it was usual to avoid the great expense of the fecond dum and gate, by making the lock altogether detached from the river, within land, and having its balon merallel to the river and communicating by one end with the river aber e the weir, and by the other end with the river below the weir, and having a flood-ga'e at each end .-This was a most ingenious thought; and it was a prodigious improvement, free from all the inconveniences of currents, ice, &c. &c. It was called a fehluffel, or lock, with considerable propriety; and this was the origin of the word fluice, and of our application of its translation lock. This practice being once introduced, it was not long before engineers found that a complete separation of the navigation from the bed of the river was not only the most perfect method for obtaining a fure, easy, and uninterrupted navigation, but that it was in general the most occonomical in its first construction, and subject to no risk of deterioration by the action of the current, which was here entirely removed. Locked canals, therefore, have almost entirely supplanted all attempts to improve the natural beds of rivers; and this is hardly ever attempted except in the flat countries, where they can hardly be faid to differ from horizontal canals. We therefore close with these obfervations this article, and referve what is yet to be faid on the conflruction of canals and locks for the article

Concluding

WE beg leave, however, to detain the reader for observations a few moments. He cannot but have observed our auxiety to render this differtation worthy of his notice, hy making it practically ufeful. We have on every occasion appealed, from all theoretical deductions, however specious and well supported, to fact and observation of those fpontaneous phenomena of nature which are continually patting in review before us in the motion of running waters. Retting in this manner our whole doctrines on experiment, on the observation of what really happens, and what happens in a way which we cannot or do not fully explain, these spontaneous operations of nature came intentibly to acquire a particular value in our imagination. It has also happened in the course of our reflections on these subjects, that these phenomena have frequently prefented themselves to our view in groups, not less remarkable for the extent and the importance of their confequences than for the fimplicity, and frequently the feeming infignificancy, may frivolity, of the means employed. Our fancy has therefore been fometimes warmed with the view of a fomething; an

Ens agitans molem, et magno se corpore miscens.

This has fometimes made us express ourselves in a way that is susceptible of misinterpretation, and may even head into a millake of our meaning.

We therefore find curfelves obliged to declare, that Practical by the term NATURE, which we have so frequently Interences nied con amore, we do not mean that indefailbable idel which the felf corceit and vanisy of fome philosophers or pretended philosophers have fet up and offentationfly worthipped, that ens rationis, that creature of the imagination, which has lorg been the object of cool contemplation in the closet of the philotopher, and has fleared his attention with many other playthings of his ever-working fancy. By NATURE, then, we mean that admirable fythem of general laws, by which the adored Author and Governor of the universe has thought fit to connect the various parts of this wonderful and goodly frame of things, and to regulate all their operations.

We are not afraid of continually appealing to the laws of nature; and as we have already observed in the article Philosophy, we confider these general laws as the most magnificent displays of Infinite Wildom, and the contemplation of them as the most cheering employ-

ment of our understandings.

Igneus est illis vigor et calestis origo Seminibus.

At the same time we despite the cold-learted philosopher who stops short here, and is satisfied (perhaps inwardly pleated) that he has completely accounted for every thing by the laws of unchanging nature; and we fuspect that this philosopher would analyse with the fame frigid ingenuity, and explain by irrefillible soeyn, the tender attachment of her whose breast he sucked, and who by many anxious and fleeplets nights preferred alive the puling infant. But let us rather liften to the words of him who was the most sagacious observer and the most faithful interpreter of nature's laws, our illustrious countryman Sir Ifaac Newton. He fays,

" Elegantissima hæcce rerum compages non nisi confilio et dominio entis fapientiffimi et potentiffimi oriri petuit, Omnia, fimili constructa confilio, suberunt unius dominio. Hic omnia regit, non ut anima mundi, fed ut univerforum dominus. Propter dominium fuum dominus deus, παιτοκεατώς nuncupatur. Deus ad fervientes respicit, et deitas est dominatio dei, non in corpus proprium, uti sentiunt quibus deus est natura seu anima mundi, fed in fervos. Deus femmus est ens eternum. infinitum, absolute perfectum. Ens utcunque perfectum. at fine dominio, non est dominus deus.

" Hunc cognoscimus, solummodo per proprietates cius et attributa. Attribuuntar ut ex phenomenis dignofcuntur, Phenomena funt sapientiss mæ et optimae rerum firucturae, atque caufae finales,-Hunc admiramur ob perfectiones; hunc veneramur et colimus ob dominium."

Our readers will probably be pleafed with the following lift of authors who have treated professedly of the motions of rivers; Guglielmini De Fluviis et Caffellis Aquarum-Danubius Illustratus; Grandi De Castellis; Zendrini De Motu Aquarum; Frisus de Fluviis; Lec-chi Idroslatica i Idraulica; Michelotti Spereinze Id: auliche; Belidor's ArchiteEure Hydraulique; Boffut Hydrodynamique; Buat Hydraulique; Silberschlag Theorie des Fleuves; Lettres de M. L'Epinasse au P. Frisi touchant fa Theorie des Fleuves; Tableau des principales Rivieres du Monde, par Genetté; Stevins sur les Ecluses; Traité des Ecluses, par Boulard, qui a remporté le Prise

Practical de l'Acad. de Lucas ; Rieiswyck Differtatio de Aggeri-Inferences. bus ; Boffut et Viallet far la Conftruction des Digues ; Stevin Hydrofictica; Tichman van der Horst Theatrum Machinerum Universale; De la Lande sur la Canaux de Navigation; Racolta di Autori chi Trattano del Moto dell' Acque, 3 tom. 4to. Firenza 1,23 .- This most

valuable collection contains the writings of Archimedes, Praftical Albizi, Galileo, Castelli, Michelini, Borelli, Montanari, Ir Viviani, Caffini, Guglielmini, Grandi, Manfredi, Picard, and Narduci; and an account of the numberless works which have been carried on in the embankment of the Po.

RIVER-Water. This is generally much fofter and better accommodated to economical purpoles than foring-water. For though rivers proceed originally from fprings, 'yet, by their rapid motion, and by being exposed during a long course to the influence of the fun and air, the earthy and metallic falts which they contain are decomposed, the acid flirs off, and the terretrial parts precipitate to the hottom. Rivers are also rendered fofter by the vast quantity of rain-water, which, passing along the surface of the earth, is conveyed into their channels. But all rivers carry with them a great deal of mud and other impurities; and, when they flow near large and populous towns, they become impregnated with a number of heterogeneous substances, in which state the water is certainly unfit for many purposes; vet, by remaining for fome time at reft, all the feculencies fubfide, and the water becomes fufficiently pure for most of the common purpoles of life. River water may be rendered still purer by filtration through fand and gravel; a method which was first resorted to in Paisley, and more lately in Glasgow, for supplying the inhabitants of thole towns with good water

RIVERS, EARL. See WODEVILE.

RIVINA, a genus of plants belonging to the tetrandria class. See BOTANY Index. This plant is called Solonides by Tournefort, and Piercea by Miller. There are four species which grow naturally in most of the islands of the West Indies. The juice of the berries of one species will stain paper and linen of a bright red colour, and many experiments made with it to colour flowers Have succeeded extremely well in the following manner: the juice of the berries was prefied out, and mixed with common water, putting it into a phial, shaking it well together for some time, till the water was thoroughly tinged; then the flowers, which were white and just fully blown, were cut off, and their falks placed into the phial; and in one night the flowers have been finely variegated with red; the flowers on which the experiments were made were the tuberole, and the double white narciffas.

RIVULET, a diminutive of river. See RIVER. ROACH. See CYPRINUS, ICHTHYOLOGY Index. ROAD, an open way, or public passage, forming a

communication between one place and another.

Of all the people in the world the Romans took the most pains in forming roads; and the labour and expences they were at in rendering them spacious, firm, straight, and smooth, are becredible. They usually ftrengthened the ground by ramming it, laving it with flints, peobles, or fands, and fametimes with a lining of malonry, rubbish, bricks; &zc. bound ogether with mortar. In some places in the Lyonois, I. Menestrier observes, that he has found huge clusters of flints cemented with lime, reaching 10 or 12 feet deep, and

making a mass as hard and compact as marble; and which, after refifting the injuries of time for 1600 years, is fill fearcely penetrable by all the force of hammers, mattocks, &c. and yet the flints it confifts of are not bigger than eggs. The most noble of the Roman roads was the Via Appia, which was carried to such a walt length, that Procopius reckons it five days journey to the end of it, and Leipsius computes it at 350 miles : it is 12 feet broad, and made of fquare free-flone generally a foot and a half on each fide; and though this has halled for above 1800 years, yet in many places it is for feveral miles together as entire as when it was firth made.

The ancient roads are diftinguished into military roads, double roads, fubterraneous roads, &c. The military roads were grand roads, formed by the Romans for marching their armies into the provinces of the empire; the principal of these Roman roads in England are Watling freet, Ikenild-freet, Fos-way, and Erminage freet." Double roads among the Romans, were roads for carriages, with two pavements, the one for those going one way, and the other for those returning the other : these were separated from each other by a causeway raised in the middle, paved with bricks, for the conveniency of foot passengers; with borders and mounting stones from space to space, and milliary columns to mark the difrance. Subterraneous roads are those dug through a rock, and left vaulted; as that of Puzzuoli near Naples, which is near half a league long, and is 15 feet broad and as many high.

The first law enacted respecting highways and roads in England was in the year 1285; when the lords of the foil were enjoined to enlarge those ways where bushes, woods, or ditches be, in older to prevent robberies. The next law was made by Edward III, in the year 1346; when a commission was granted by the king to lav a tell on all forts of carringes passing from the hofpital of St Giles in the fields to the bar of the Old Temple, and also through another highway called Portpool (now Gray's Inn Lane) joined to the before-named nighway; which roads were become almost impassable. Little further relating to this fubject occurs, till the " reign of Henry VIII. when the parishes were entrusted with the care of the roads, and furveyors were annually elected to take care of them. But the increase of luxury and commerce introduced fuch a number of heavy carriages for the conveyance of goods, and lighter ones for the convenience and ease of travelling, that parish aid was found fushcient to keep the best frequented goads in repair. This introduced toll gates or turnpikes; that fomething might be paid towards their lupport by every individual who enjoyed the herefit of these improvements, by passing over the roads:

Speaking of roads, the Abbé Raynal juftly remarks.

" Let us travel over all the countries of the earth, and wherever we faell find no facility of trading from a city to a town, and from a village to a hamlet, we may pronounce the people to be barbarians; and we shall only be deceived respecting the degree of barbarism."

ROAD, in Navigation, a bay, or place of anchorage, at some di lance from the shore, whither ships or vessels occasionally repair to receive intelligence, orders, or necellary supplies; or to wait for a fair wind, &c. The excellence of a road confilts chiefly in its being protected from the reigning winds and the fwell of the fea; in having a good anchoring-ground, and being at a competent distance from the shore. Those which are not fufficiently inclosed are termed open roads.

ROAN, in the manege. A roan horse is one of a bay, forsel, or black colour, with grey or white fpots interspersed very thick. When this party-coloured coat is accompanied with a black head and black extremities, he is called a roan horse with a black-a-moor's head; and if the same mixture is predominant upon a deep

forrel, he is called claret roan.

ROANOAK, an island of North America, near the coatt of North Carolina, Here the English first attempted to fettle in 1585, but were obliged to leave it for want of provisions. E. Long. 75. o. N. Lat. 35.

ROANOAK, a river of North America, which rifes in Virginia, runs through Carolina, and at length falls into the fea, where it forms a long narrow bay called Albemarle found.

ROASTING, in metallurgic operations, fignifies the diffipation of the volatile parts of an ore by means of heat. See ORES, Reduction of.

ROB, in Pharmacy, the juices of fruits purified and

inspillated till it is of the consistence of honey. ROBBERY, the rapina of the civilians, is the felonious and forcible taking, from the person of another, of goods or money to any value, by violence or putting him in fear. 1. There must be a taking, otherwise it is no robbery. A mere attempt to rob was indeed held to be felony so late as Henry IVth's time; but afterwards it was taken to be only a misdemeanour, and punishable with fine and imprisonment; till the statute 7 Geo. II. c. 21. which makes it a felony (transportable for feven years) unlawfully and maliciously to affault another, with any offensive weapon or instrument ;-or by menaces, or by other forcible or violent manner, to demand any money or goods; with a folonious intent to rob. If the thief, having once taken a purfe, returns it, still it is a robbery: and so it is whether the taking be flrictly from the person of another, or in his presence only; as where a robber by menaces and violence puts a man in fear, and drives away his sheep or his cattle before his face. 2. It is immaterial of what value the thing taken is: a penny, as well as a pound thus forcibly extorted, makes a robbery. 3. Laftly, the taking must be by force, or a previous putting in fear; which makes the violation of the person more atrocious than privately flealing. For, according to the maxim of the civil law, " qui vi rapuit, fur improbior effe videtur." This previous violence, or putting in fear, is the criterion that diftinguishes robbery from other larcenies. if one privately fleals fixpence from the person of another, and afterwards keeps it by putting him in fear, this is no robbery, for the fear is subsequent : neither is it

capital as privately stealing, being under the value of Robbery, twelvepence. Not that it is indeed necessary, though Robert usual, to lay in the indictment that the robbery was committed by putting in fear : it is sufficient, if laid to be done by violence. And when it is laid to be done by putting in fear, this does not imply any great degree of terror or affright in the party robbed; it is enough that fo much force or threatening, by word or gesture, be used, as might create an apprehension of danger, or induce a man to part with his property without or against his confent. Thus, if a man be knocked down without previous warning, and stripped of his property while fenfeless, though thrictly he cannot be faid to be put in fear, yet this is undoubtedly a robbery. Or, if a perfon with a fword drawn begs an alms, and I give it him through mistrust and apprehension of violence, this is a felonious robbery. So if, under a pretence of fale, a man forcibly extorts money from another, neither shall this fubterfuge avail him. But it is doubted, whether the forcing a higler, or other chapman, to fell his wares, and giving him the full value of them, amounts to fo heinous a crime as robbery.

This species of LARCENY is debarred of the benefit of clergy by statute 23 Hen. VIII. c. 1. and other subfequent statutes; not indeed in general, but only when committed in a dwelling-house, or in or near the king's highway, A robbery, therefore, in a distant field, or footpath, was not punished with death; but was open to the benefit of clergy, till the flatute 3 and 4 W. and M. c. o. which takes away clergy from both principals and accessories before the fact, in robbery, wheresoever

committed. See LAW, No clxxxvi. 20.

ROBERT BRUCE, king of Scotland, in 1306; a renowned general, and the deliverer of his country from a state of vassalage to the English. See Scotland.

ROBERT, king of France, furnamed the Wife and the Pious, came to the crown in 996, after the death of Hugh Capet his father. He was crowned at Orleans, the place of his nativity, and afterwards at Rheims, after the imprisonment of Charles of Lorraine. He married Bertha his coufin, daughter of Conrad king of Burgundy; but the marriage was declared null by Gregory V.; and the king, if we can give credit to Cardinal Peter Damien, was excommunicated. This anathema made fuch a noise in France, that all the king's courtesans, and even his very domestics, went away from him. Only two continued with him; who were fo deeply impressed with a sense of horror at whatever the king touched, that they purified it with fire : this fcruple they carried fo far, as to the very plates on which he was ferred with his meat, and the veffels out of which he drank. The fame cardinal reports, that as a punishment for this pretended incest, the queen was delivered of a monster, which had the head and neck of a duck. He adds, that Robert was fo flruck with aftonishment at this species of prodigy, that he lived apart from the He contracted a fecond marriage with Constance, daughter of William count of Arles and Provence; but the arrogant disposition of this princess would have totally overturned the kingdom, and thrown it into confusion, had not the wisdom of the king prevented her from intermeddling with the affairs of the state. He carefully concealed from her whatever acts of liberality he showed to any of his domestics. " Take care (faid he to them) that the queen don't perceive Robert. it." Henry duke of Burgundy, brother of Hugh Capet, dving in 1002, without lawful iffue, left his dukedom to his nephew the king of France. Robert invested his second fon Henry with this dukedom, who afterwards coming to the crown, refigned it in favour of Robert bis cadet. This duke Robert was chief of the first royal branch of the dukes of Burgundy, who flourished till 1361. This dukedom was then re-united to the crown by King John, who gave it to his fourth fon Philip the Bold, chief of the second house of Burgundy, which was terminated in the person of Charles the Rath who was flain in 1477. King Robert was fo much efteemed for his wildom and prudence, that he was offered the empire and kingdom of Italy, which, however, he declined to accept. Hugh, called the Great, whom he had had by Constance, being dead, he caused his fecond fon Henry I. to be crowned at Rheims. He died at Melun, July 20. 1031, at the age of 60. Robert was, according to the knowledge of the times, a wife prince. Helgand, friar of Fleury, relates, in his life of him, that, to prevent his subjects from falling into the crime of perjury, and incurring the penalties which followed thereon, he made them fwear upon a thrine from which the relics had been previously removed, as if intention did not constitute perjury! and long after fimilar reasoning was adopted. Robert built a great number of churches, and procured a restitution to the clergy of the tithes and wealth which the laylords had made themselves masters of. The depredations were such, that the laity possessed the ecclesiastical treasures by hereditary titles; they divided them among their children; they even gave benefices as a dowry with their daughters, or left them to their fons as lawful inheritance. Although Robert was pious, and although he respected the clergy, yet it was evident that he opposed the bishops with a firmness and refolution, of which, for many ages, they had no examples. Lutheric archbithop of Sens had introduced into his diocese the custom of proving by the eucharist persons accused as guilty of any crime. The king wrote to him in the following ftrong terms :- " I fwear (fays he) by the faith I owe to God, that if you do not put a stop to the gross abuse complained of, you shall be deprived of your priesthood." The prelate was forced to comply. He punished, in 1022, the Manichéens, canons of Orleans, by burning them at the stake. There are, however, recorded of him fome less severe actions, which it is right to mention. A dangerous conspiracy against his person and government having been discovered, and the authors taken into custody, he seized the moment when their judges had met to sentence them to death, to cause an elegant repast to be served up to them. Next day they were admitted to the eucharift. Then Robert told them, that he gave them their pardon, "because none of those can die whom Jesus Christ came to receive at his table." One day when he was at prayers in the chapel, he perceived a thief, who had cut off the half of the fringe of his mantle, proceeding to take the remainder; " Friend (fays he with a pleafant countenance), he content with what you have already taken, the rest will very well ferre some other." Inbert cul-"tivated, and was a patronizer of the fciences. There ere feveral hymns wrote by Jim, which fill continue to be fung in the church. His reign was happy and tranquil. According to some authors, he instituted the order Robert of the Star, commonly attributed to King John.

ROBERT of France, second fon of Louis VIII. and brother to St Louis, who erected in his favour Artois into a royal peerage in the year 1237. It was during this time that the unlucky difference between Pope Gregory IX. and the emperor Frederic II. took place.. Gregory offered to St Louis the empire for Robert : but the French noblesse, having met to deliberate on this proposal, were of opinion that he ought to reject it. He gave the pope for answer: " That Count Robert esteemed himself sufficiently honoured by being the brother of a king, who surpassed in dignity, in strength, in wealth, and in birth, all other monarchs in the world." Robert accompanied St Louis into Egypt, and fought with more bravery than prudence at the battle of Matfoure, on the oth of February 1250. In his purfuit of the cowards through a certain small village, he was killed by stones, sticks, and other things which they threw at him from the windows. He was an intrepid prince, but too passionate, dogmatical, and quarrelsome.

ROBERT II. Count of Artois, fon of the preceding, furnamed the Good and the Noble, was at the expedition into Africa in 1270. He drove the rebels from Navarre in 1276. He brought a very powerful affirtance to Charles I. king of Naples, of which kingdom he was regent during the captivity of Charles II. He defeated the Arragonians in Sicily in 1280, the English near Bayonne in 1296, and the Flemish at Furnes in 1208. But having in 1302 imprudently attempted to force these last, when encamped near Courtray, he received no less than 30 wounds; and in that expedition loft both his honour and his life. He was a brave, but passionate and fierce man, and good at nothing but pugiliflic encounters. Mahaud his daughter inherited the dukedom of Artois, and gave herfelf in marriage to Otho duke of Burgundy, by whom the had two daughters, Jane wife of Philip the Long, and Blanche wife of Charles the Fair. In the mean time Philip, fon of Ro-

bert II. had a fon.

ROBERT III. who disputed the dukedom of Artois with Mahaud his aunt; but he loft his fuit by two fentences given in against him in 1302 and 1318. He wished to revive the process in 1329, under Philip of Valois, by means of pretended new titles, which were found to be false. Robert was condemned the third time, and banished the kingdom in 1331. Having found an afylum with Edward III. king of England, he undertook to declare him king of France; which proved the cause of those long and cruel wars which diffressed that kingdom. Robert was wounded at the fiege of Vannes in 1342, and died of his wound in England. John, fon to Robert, and count of Eu, was taken prisoner at the battle of Poitiers in 1356, and terminated his career in 1387. His fon Philip II. high confiable of France, carried on war in Africa and Hungary, and died in 1397, being a prifoner of the Turks. He had a fon named Charles, who died in 1472, leaving no

CHARLES of Anjou, furnamed the Wife, third fon of Charles the Lame, succeeded his father in the kingdom of Naples in 1329, by the protection of the popes, and the will of the people, to the exclusion of Charobert fon of his eldell brother. He sided the Roman pontiffs againti Robert, against the emperor Henry VII, and, after the death of that prince, was nominated in 1313 vicar of the empire in Italy, in temporal matters, unless a new emperor was elected. This title was given him by Clement V. in virtue of a right which he pretended to have to govern the empire during an interregnum. Robert reigned with glory 33 years, eight months, and died on the 10th of January 1343, aged 64. "This prince (fays M. De Montigni) had not those qualities which constitute heroes, but he had those which make good kings. He was religious, affable, generous, kind, wile, prudent, and a zealous promoter of justice." He was called the Solerron of his age. He loved the poor, and caused a ticket to be placed upon his palace, to give notice when he meant to distribute from the throne. He had no other passion but a very great love for learning. He used to fay, that he would rather renounce his crown than his fludy. His court foon became the fanctuary of the friences, which he encouraged equally by his example and his bounty. This prince was verfed in theology, jurifyrudence, philosophy, mathematics, and medieine. Bocace fays, " that fince the days of Solomon we have not feen fo wife a prince upon the throne." For a great part of his life he had no tafte for poetry; he even despited it, as, in his opinion, unworthy of a man of learning. A conversation which he had with Petrarch, however, undeccived him; he retained this poet at his court, and attempted himself to write some poems, which are fill extant. He was forced to engage a little in war, for which he poffeffed no great talents; alluding to which, may be feen on his tomb a wolf and a lamb drinking out of the same vessel. Philip of Valois refrained from giving battle in 1339, by the repeated advice which this prince gave him, who was a great friend to France, both from inclination and interest. He detested quarrels among Christian princes, and had studied the science of astrology, not so much to know the courfe of the stars, as to learn by this chimerical science the hidden things of futurity. He believed that he read in the grand book of heaven a very great misfortune which would befal France if Philip hazarded a battle against the English.

ROBERT the First, called the Magnificent, duke of Normandy, froma ion of Richard II. succeeded in 1028 his brother Richard III. whom it is reported he poiloned. He had early in his reign to suppress frequent rebellions of feveral of the great vaffals. He re-established in his eflates Baudouin IV. count of Flanders, who had been unjustly stript of his possessions by his own son. He forced Canute king of Denmark, who was also king of England, to divide his possessions with his cousins Alfred and Edward. In the year 1035, he undertook barefooted a journey to the Holy Land; on his return from which he died, being poisoned at Nice in Bithynia, leaving as his fuccessor William his natural son, afterwards king of England, whom he had caused before his departure to be publicly acknowledged in an affembly of the flates of Normandy.

ROBELT, or Rupert, furnamed the Short and the Mild, elector Palatine, fon of Robert the Niggardly, was lorn in 1352, and elected emperor of Germany in 1400, after the deposition of the cruel Wenceslas. In order to pain the affection of the Germans, he wished to reflore Milanes to the empire, which Wenceflas had taken from it; but his attempts in this respect were

unsuccessful. His attachment to the anti-pope Gregory Robert, a X11. entirely alienated the affections of the German Robert D. princes. To fuch a degree were they incenfed abainful him, that they entered into a conspiracy to cut him off ? but his death, which happened on the 18th of May 1410, being then 58 years old, put a flop to their man chinations. Robert began to fettle the lovereignty of the German princes. The emperors had formerly te-d tained in their own hands the power of life and death, within the territories of a great many of the nobles; but he yielded them this right by his letters patent .-The chief fault imputed to this prince was an excess of lenity. But, if we confider the plots which he had to detect, the confpiracies which he had to frustrate, the fecret and powerful enemies he had to deal with; if we inquire also into the commotions which the wicked administration of Wenceslas had excited, the irruptions and devastations of plunderers and highway robbers, which the nobles countenanced, and the diffressed fituation in which he found Germany, we must without hefitation conclude, that his lenity indicated his prudence. in refloring by flow degrees the empire to its original tranquillity. Robert had his virtues, he loved his fubjects, and governed them with wifdom. Poffeffed of much political knowledge for the age in which he lived. he wanted nothing but talents for war to make him an accomplished prince. He was twice married. The name and rank of his first wife is unknown; he had by her a fon, who died before him. His fecond wife was Elizabeth, daughter of Frederic burgrave of Nuremberg, by whom he had five fons and three daughters. The three daughters were, Margaret married to Charles duke of Lorrain; Agnes to Adolphus duke of Cleves; Elizabeth to Frederic duke of Austria. His sons were, Louis the first of the electoral branch, which became extinct in 1559; John father of Christopher king of Denmark; Frederic who died without iffue; Otho count of Sinttheim; laftly, Stephen, from whom descended the elector, and the other counts palatine of the Rhine, who are extant at this day.

ROBERT of Bavaria, prince palatine of the Rhine, and duke of Cumberland, the ion of Frederic, elector palatine, by Elizabeth, daughter of James I, king of England, diffinguished himself by his valour as a general and admiral; first in the Dutch, and then in the English service. He was unsuccessful in the cause of his uncle Charles I. against the parliament forces; but under Charles II. he defeated the Dutch fleet, and was made lord high admiral of England in 1673. This prince was a lover of the sciences, and particularly skilful in chemistry. He died in 1682.

ROBERTSON, DR WILLIAM, one of the most celebrated historians of his age, was one of those great characters, whose private life, flowing in an even and unvaried fream, can afford no important information to the biographer, although his writings will be read to the latest posterity with undiminished pleasure. He was born at the manfe of Borthwick in the year 1721. His father was, at the time of his death, one of the ninifters of the Old Grey Friars church in Edinburgh, which the Doctor came afterwards to supply. In 1743 he was licenced preacher, and placed in the parish of Gladsmuir in 1744; whence, in 1758, he was translated to Lady Yester's parish in Edinburgh. In 1761, on the death of Principal Goldie, he was elected principal of

Roberton the university of Edinburgh, and appointed one of the minitlers of the Old Grey Friars church. About this period he received the degree of Doctor of Divinity, and was appointed hiftenographer to his majetty for Scotland, and one of his majefty's chaplains for that kingdom.

We find it not easy to ascertain at what period were first unfolded the great and fingular talents which deflined Dr Robertson to be one of the first writers that referred this ifland from the reproach of not having any good historians. We are, however, affured, that before the publication of any of his literary performances. even from his first appearance in public life, his abilities had begun to attract the notice of observing men; and to his more intimate friends he discovered marks of such high-minded ambition, as, feconded by those abilities, could not have failed to carry him to the first honours of his profession, in whatever sphere he had been placed, and whatever opposition he might have had to combat.

The first theatre that offered for the display of his talents, was the General Affembly of the Church of Scotland. It is the annual meetings of this court that produce to view men who would otherwise remain in the deepest obscurity. There the humble pastor, whose lot has been call in the remotest corner of the Highland wilds, feels himfelf, for a time, on a footing of equality with the first citizen in the kingdom : he can there difpute with him the prize of eloquence, the most flattering diffinction to a liberal mind; a distinction which is naturally fought after with the greater eagerness in that affembly, as the simple establishment of the church of Scotland has rendered it the only pre eminence to which the greatest part of its members can ever hope to attain.

From the moment Dr Robertson first appeared in this affembly, he became the object of universal attention and applause. His speeches were marked with the fame manly and permative cloquence that diffinguishes his historical compositions; and it was observed by all, that while his young rivals in oratory contented themfelves with opening a cause, or delivering a fludied harangue, he showed equal ability to thart objections, to answer, or to reply; and that even his most unpremeditated effusions were not unadorned with those harmonious and feemingly meafured periods, which have been fo much admired in his works of labour and reflection. He foon came to be comidered as the ablett supporter of the cause he chose to espouse, and was now the unrivalled leader of one of the great parties which have long divided the church of which he was a member.

When we reflect upon this circumstance, and consider how much mankind are the fame in every fociety, we shall be the less surprised to find, in the literary works of Dr Robertson, an acquaintance with the human heart, and a knowledge of the world, which we look for in vain in other hitlorians. The man who has frent his life in the difficult task of conducting the deliberations of a popular affembly, in regulating the passions, the interests, the prejudices, of a numerous faction, has advantages over the pedant, or mere man of letters. which no ability, no fludy, no fecond-hand information, can ever compensate.

The first work which extended the Doctor's reputation beyond the walls of the general affembly, was a fermon preached at Edinburgh before the fociety for Robertlan. propagating Christian knowledge, and afterwards publithed; the fubject of which was, ' The flate of the world at the appearance of Josus Christ.' The ingenuity with which a number of detached circumstances are there collected, and thown to tend to one fingle point, may perhaps rival the art which is fo much ac mired in the bishop of Meaux's celebrated Universal

This fermon did great honour to the author; and it is probably to the reputation he gained by it, that we ought to attribute the unanimity with which be was called to be one of the ministers of Edinburgh-an event which happened not long after, viz. in the year 1758. In 1759, he published, in two volumes quarto, 'The History of Scotland, during the reigns of Queen Mary and of King James VI. till his Acceltion to the Crown of England, with a Review of the Scots Hiltory previous to that period.' This work in its structure is one of the most complete of all modern histories. It is not a dry jejune narrative of events, deflicute of ornament; nor is it a mere frothy relation, all glow and colouring. The historian discovers a fufficient store of imagination to engage the reader's attention, with a due proportion of judgement to check the exuberance of The arrangement of his work is admirable, and his descriptions are animated. His Ryle is copious, nervous, and correct. He has difolayed confummate skill in rendering such passages of our history as are familiar to our recollection agreeable and entertaining. He has embellished old materials with all the elegance of modern drefs. He has very judiciously avoided too circumstantial a detail of trite facts. His narratives are fuccinct and spirited; his reflections copious, frequent, and generally pertinent. His fentiments respecting the guilt of Mary have indeed been warmly controverted by Meffrs Tytler, Stuart, and Whitaker; and, till the publication of Mr Laing's Differtation on the same subject, (fee MARY, life of ) the general opinion feemed to be, that their victory was complete. That victory, how-ever, on the part of Whitaker, is fullied by the acrimony with which he writes. Dr Robertson was no rancorous or malignant enemy of the unfortunate queen. While relating, what he doubtless believed, he makes every possible allowance for Mary from the circumstances in which the was placed; and his history will be read with pleasure by candid men of all parties as long as the language in which it is composed shall continue to be understood.

In 1769, Dr Robertson published, in three volumes quarto, The History of the Reign of the Emperor Charles V. with a View of the Progress of Society in Europe, from the Subversion of the Roman Emvire . to the beginning of the 16th century .- The vast and general importance of the period which this history comprises, together with the reputation which our his storian had deservedly acquired, co-operated to raise fuch high expectations in the public, that no work perhaps was ever more impatiently withed for, or perufed with greater avidity. The first volume (which is a pre-liminary one, containing the progress of society in Europe, as mentioned in the title) is a very valuable part of the work; for it ferves not only as a key to the pages that follow, but may be confidered as a general, introduction to the study of history in that period in

Robertson, which the several powers of Europe were formed into one great political fystem, in which each took a station, wherein it has fince remained (till within a very few years at least) with less alterations than could have been expected, after the shocks occasioned by so many internal revolutions, and so many foreign wars. Of the hiflory itself, it may be sufficient to observe, that it is juftly ranked among the capital pieces of historical excellence. There is an elegance of expression, a depth of differenment, and a correctness of judgement, which do honour to the historian. The characters are inimitably penned. They are not contrasted by a studied antithefis, but by an opposition which results from a very acute and penetrating infight into the real merits of each character, fairly deduced from the feveral circumftances of his conduct exemplified in the history. For this work the author received 4500l. flerling.

In 1770, Dr Robertson published The History of America, in two volumes quarto. This celebrated work may be confidered with great propriety as a fequel to the preceding history. From the close of the 15th century we date the most splendid era in the annals of modern times. Discoveries were then made, the influence which descended to posterity; and events happened that gave a new direction to the spirit of na-

To the inhabitants of Europe, America was in every respect a new world. There the face of the earth changed its appearance. The plants and trees and animals were firange; and nature feemed no longer the fame. A continent opened that appeared to have recently come from the hands of the Creator, and which showed lakes, rivers, and mountains, on a grander scale, and the vegetable kingdom in greater magnificence, than in the other quarters of the globe; but the animal tribes in a state of degradation, few in number, degenerated in kind, imperfect, and unfinished. The human species in the earliest stage of its progress, vast and numerous nations in the rudest form of the savage state which philosophers have tontemplated, and two great empires in the lowest degree of civilization which any records have transmitted to our review, presented to the philosophic eye at this period the most fruitful subect of speculation that was to be found in the annuls of history.

The discovery of the New World, moreover, was not only a curious spectacle to the philosopher, but, by the change which it effected, an interesting spectacle to the human race. When Columbus let fail for unknown lands, he little expected that he was to make a revolution in the fystem of human affairs, and to form the destiny of Europe for ages to come. The importance and celebrity therefore of the subject had attracted the attention of philosophers and historians. Views and sketches of the new world had been given by able wrifketches of the new world nau occur given by ters, and splendid portions of the American story had ters, and with all the heauties of eloquence. But, prior to the appearance of Dr Robertson's history, no author had bestowed the mature and profound investigation which fuch a fubject required, or had finished, upon a regular plan, that complete narration and perfect whole which it is the province of the historian to transmit to posterity. And as the subject upon which our author entered was grand, his execution was mafterly. The character of his former works was immediately discerned in it. They had been read with Robertson uncommon admiration. When the History of Scotland was tirst published, and the author altogether unknown, Lord Chesterfield pronounced it to be equal in eloquence and beauty to the productions of Livy, the purest and most classical of all the Roman historians. His literary reputation was not confined to his own country: the testimony of Europe was soon added to the voice of Britain. It may be mentioned, indeed, as the characterittic quality of our author's manner, that he peffeffed in no common degree that supported elevation which is fuitable to compositions of the higher class; and, in his Hillory of America, he displayed that happy union of firength and grace which becomes the majerly of the historic muse. In the fourth book of his first volume, which contains a description of America when first discovered, and a philosophical inquiry into the manners and policy of its ancient inhabitants, he displays, moreover, so much patient investigation and found philosophy, abounds in fuch beautiful or interesting description, and exhibits such variety and copiousnels of elegant writing, that future times will probably refer to it as that part of his works which gives the best idea of his genius, and is the most finished of all his productions.

In 1787 appeared a translation of the abbé Clavigero's History of Mexico; in which work the author threw out various reflections, tending in feveral instances to impeach the credit of Dr Robertson's History of America. This attack induced our learned historian to revise his work, and to inquire into the truth of the charges brought against it by the historian of New Spain: and this he appears to have done with a becoming attention to the importance of the facts that are controverted, and to the common interests of truth. The refult he published in 1788, under the title of Additions and Corrections to the former Editions of Dr Robertson's History of America .- In many of the disputed passages, he fully answered the abbé Clavigero, and vindicated himself: in others he candidly submitted to correction, and thus gave additional value to his own work.

The literary labours of Dr Robertson appear to have been terminated in 1791 by the publication of An Hiflorical Disquisition concerning the Knowledge which the Ancients had of India, and the progress of Trade with that Country prior to the Discovery of the Passage to it by the Cape of Good Hope; with an Appendix, containing Observations on the Civil Polity, the Laws, and Judicial Proceedings the Arts, the Sciences, and Religious Inititutions of the Indians,-The perufal of Major Rennel's Memoir, for illustrating his map of Hindostan, suggested to Dr Robertson the design of examining more fully than he had done, in his History of America, into the knowledge which the ancients Lad of India, and of considering what is certain, what is obscure, and what is fabulous, in their accounts of that remote country. Of his various performances, this is not that of which the defign is the most extensive, or the execution the most elaborate; but in this historical disquisition we perceive the same patient assiduity in collecting his materials, the fame difcernment in arranging them, the same perspicuity of narrative, and the same power of illustration, which to eminently distinguish his other writings, and which have long rendered them the Resertion delight of the British reader at home and an honour to

British literature abroad.

A truly useful life Dr Robertson closed on the 11th of June 1793, at Grange-House, near Edinburgh, after a lingering illness, which be endured with exemplary fortitude and refignation. It may be justly observed of him, that no man lived more respected, or died more fincerely lamented. Indefatigable in his literary refearches, and possessing from nature a found and vigorous understanding, he acquired a store of useful knowledge, which afforded ample scope for the exertion of his extraordinary abilities, and raifed him to the most distinguished eminence in the republic of letters. As a minister of the gospel, he was a faithful pastor, and juttly merited the efteem and veneration of his flock. In a word, he may be pronounced to be one of the most perfect characters of the age; and his name will be a latting honour to the island that gave him birth. His conversation was cheerful, entertaining, and instructive; his manners affable, pleasing, and endearing.

ROBERVALLIAN LINES, a name given to certain lines used for the transformation of figures, so called

from Roberval the inventor of them.

These lines are the boundaries of lines infinitely extended in length, yet equal to other spaces which are terminated on all sides.

It is observed by the abbot Gallois, that the method of transforming figures which is explained at the end of Roberval's treatife of Indivisibles, was the same with that afterwards published by James Gregory, in his Geometria Universalis, and also by Dr Barrow in his Lectiones Geometrica; and that it appears from Torricelli's letter, that Roberval was the inventor of this method of transforming figures, by means of certain lines, called by Torricelli, for that reason, Robervallian lines.

The fame author adds, that J. Gregory probably first learned this method at Padua in the year 1668; for the method was known in Italy in 1646, although the book

was not published till 1692.

David Gregory endeavoured to refute this account, in vindication of his uncle James, whose answer appeared in the Phil. Trans. for 1694, and the abbot rejoined in the Memoirs of the French Academy for 1703; fo that it remains in a state of uncertainty to which of the two we are to ascribe the invention.

ROBIGUS AND ROBIGO, a Roman god and goddefs, who joined in the prefervation of corn from blight. Their festival was kept on the 25th of April.

ROBIN HOOD. See HOOD.

ROBIN-Redbreaft. See MOTACILLA. ORNITHOLOGY Index.

ROBINIA, FALSE ACACIA; a genus of plants belonging to the diadelphia class; and in the natural method ranking under the 32d order, Papilionaceae. See Bo-TANY Index. There are nine species included under this genus, and the most remarkable are the caragnana and ferox, the leaves of the former of which are conjugated, and composed of a number of small follicles, of an oval figure, and ranged by pairs on one common flock. The flowers are leguminous, and are clustered on a filament. Every flower confifts of a small bell-shaped petal, cut into four fegments at the edge, the upper part being rather the widest. The keel is small, open, and rounded. The wings are large, oval, and a little raifed. Within are 10 stamina united at the base, curved towards the Vos. XVIII. Part I.

top, and rounded at the fummit. In the midst of a Robinia. sheath, formed by the filaments of the stamina, the piflil is perceivable, confifting of an oval germen, terminated by a kind of button. This germen becomes afterwards an oblong flattiff curved pod, containing four or five feeds, of a fize and shape irregular and unequal; yet in both respects somewhat resembling a lentil.

This tree grows naturally in the fevere climates of Northern Afia, in a fandy foil mixed with black light earth. It is particularly found on the banks of great rivers, as the Oby, Jenisei, &c. It is very rarely met with in the inhabited parts of the country, because cattle are very fond of its leaves, and hogs of its roots; and it is so hardy, that the severest winters do not affeet it. Gmelin found it in the neighbourhood of Tobolsk, buried under 15 feet of snow and ice, yet had it not suffered the least damage. Its culture consists in being planted or fowed in a lightish fandy soil, which must on no account have been lately manured. It thrives best near a river, or on the edge of a brook or fpring; but prefently dies if planted in a marshy spot, where the water stagnates. If it is planted on a rich foil, well tilled, it will grow to the height of 20 feet, and in a very few years will be as big as a common birch tree.

In a very bad foil this tree degenerates, and becomes a mere shrub: the leaves grow hard, and their fine bright green colour is changed to a dull deep green. The Tungusian Tartars, and the inhabitants of the northern parts of Siberia, are very fond of the fruit of this tree, it being almost the only fort of pulse they eat. M. Strahlemberg, author of a well-efteemed description of Siberia, affures us that this fruit is tolerably pleafant food, and very nourishing. These pease are first infused in boiling water, to take off a certain acrid tafte, and are afterwards dreffed like common peafe or Windfor beans; and being ground into meal, pretty good cakes are made of them. The leaves and tender shoots of this tree make excellent fodder for feveral forts of cattle. The roots, being fweet and fucculent, are very well adapted to fattening hogs; and the fruit is greedily eaten by all forts of poultry. After several experiments fomewhat fimilar to the methods used with anil and indigo, a fine blue colour was procured from its leaves. The smaller kind of this tree seems still better adapted to answer this purpose. The striking elegance of its foliage, joined to the pleasing yellow colour of its beautiful flowers, should, one would imagine, bring it into request for forming nolegays, or for speedily making an elegant hedge.

Besides the qualities above recited, it possesses the uncommon advantage of growing exceedingly quick, and of being easily transplanted. There are large plantations of it now in Sweden, Norway, Lapland, and Iceland. Linnaus affures us, that, after the Pinus fol. quinis, erroneously called the cedar tree of Siberia, this tree, of all that are to be found in Siberia, is most wor-

thy of cultivation.

The robinia ferox is a beautiful hardy shrub, and, on account of its robust strong prickles, might be introduced into this country as a hedge plant, with much propriety. It refifts the feverest cold of the climate of St Petersburgh, and perfects its seed in the im-perial garden there. It rises to the height of six or eight feet; does not fend out fuckers from the root,

Real a nor ramble fo much as to be with difficulty kept within bounds. Its flowers are yellow, and the general colour of the plant a light pleafing green. A figure of it in the fouthern diffricts, and fent the feeds to St Peterfburgh, where it has prospered in a fituation where

> ROBINS, BENJAMIN, a most ingenious mathematician, was born at Bath in 1707. His parents were Quakers of low condition, and confequently were unable to have him much inflructed in buman learning. But his own propensity to science having procured him a recommendation to Dr Pemberton at London, by his affiftance, while he attained the fublimer parts of maillematical knowledge, he commenced teacher of the mathematics. But the bunnels of teaching, which required confinement, not fuiting his active disposition, he gradually declined it, and engaged in butine's that required more exercise. Hence be tried many laborious experiments in gunnery, from the perfusion that the reprojectiles than is generally imagined. Hence also he was led to confider the mechanic arts that depend on mathematical principles; as the confruction of mills, the building of bridger, the draining of fens, the rendering of rivers navigable, and the making of harbours. Among other arts, fortification much engaged his attention; and he met with opportunities of perfecting himself by viewing the principal strong places of Flanders, in some tours he made abroad with persons of diffinction.

Upon his return from one of these excursions, he found the learned amused with Dr Berkeley's work, intitled The Analyst, in which an attempt was made to explode the method of fluxions. Mr Robins was therefore advised to clear up this affair by giving a dislinct account of Sir Ifaac Newton's doctrines, in fuch a manner as to obviate all the objections that had been made without naming them. Accordingly he published, in 1735, A Discourse concerning the Nature and Certainty of Sir Isaac Newton's Method of Fluxions: and fome exceptions being made to his manner of defending Sir Isaac Newton, he afterwards wrote two or three additional discourses. In 1738 he defended the same great philosopher against an objection contained in a note at the end of a Latin piece, called Matho, five Cosmotheovia puerilis; and the following year printed Remarks on M. Euler's Treatife of Motion, on Dr Smith's System of Optics, and on Dr Jurin's Discourse of distinct and inditinct Vision annexed to Dr Smith's work. In the meanwhile, Mr Robins did not folely confine himfelf to mathematical subjects: for in 1739 he published three pamphlets on political affairs, without his name; when two of them, relating to the convention and negociations with Spain, were fo univerfally elleemed, as to occasion his being employed in a very honourable post; for on a committee being appointed to examine into the pall conduct of Sir Robert Walpole, he was chosen their fecretary.

In 1742, Mr Robins published a fmall treatife, intitled New Principles of Gunnery, containing the result of many experiments; when a Discourse being published in the Philosophical Transactions, in order to invalidate some of his opinions, he thought proper, in an account he gave of his book in the fame Transactions, to take notice

of those experiments; in consequence of which, several Robins of his Differtations on the Refultance of the Air were read, and the experiments exhibited before the Royal Society, for which he was presented by that honourable body with a gold medal.

In 1748 appeared Lord Anson's Voyage round the World, which, though Mr Walter's name is in the title, has been generally thought to be the work of Mr Robins, Mr Walter, chaplain on board the Centurion, had brought it down to his departure from Macao for England, when he proposed to print the work by subscription. It was, however, it is said, thought proper, that an able judge thould review and correct it, and Mr Robins was appointed; when, upon examination, it was refolved that the whole should be written by Mr Robins, and that what Mr Walter had done should only serve as materials. Hence the introduction entire, and many differtations in in the body of the work, it is faid, were composed by him, without receiving the least affirtance from Mr Walter's manufcript, which chiefly related to the wind and the weather, the currents, courfes, bearings, distances, the qualities of the ground on which they anchored, and fuch particulars as generally fill up a failor's account. No production of this kind ever met with a more favourable reception; four large impressions were fold within a twelvemonth; and it has been traullated into most of the languages of Europe. The fifth edition, printed at London in 1749, was revised and corrected by Mr Ro bins himself. It appears, however, from the corrigenda and addenda to the 1ft volume of the Biographia Britannica, printed in the beginning of the fourth volume of that work, that Mr Robins was only confulted with refpect to the disposition of the drawings, and that he t.d. left England before the book was printed. Whether this be the fact, as it is afferted to be by the widow of Mr Walter, it is not for us to determine.

It is certain, however, that Mr Robins acquired the fame, and he was foon after defired to compore a 1 apology for the unfortunate affair at Preilonpias in Scet-land, which was prefixed as a preface to The Report of the Proceedings of the Board of General Officers on their Examination into the conduct of Lieutement-General Sir John Cope; and this preface was effected a masterpiece in its kind. He afterwards, through the interest of Lord Anson, contributed to the improvements made in the Royal Observatory at Greenwich. Having thus chablished his reputation, he was offered the choice of two confiderable employments; either to go to Paris as one of the commissaries for adjusting the limits of Acadia, or to be engineer-general to the East India company. He chose the latter, and arrived in the East Indies in 1750; but the climate not agreeing with his constitution, he died there the year fol-

lowing, ROBINSON, THE MOST REV. SIR RICHARD, BICHbishop of Armagh and Lord Rokeby, was immediately descended from the Robinsons of Rokeby in the north riding of the county of York, and was born in 1709. He was educated at Westminster school, from whence he was elected to Christ-Church, Oxford, in 1726. After continuing his studies there the usual time, Doctor Blackburne, archbishop of York, appointed him his chaplain, and collated him first to the restory of Elton, in the east riding of Yorkshire, and next to the pre-bend of Grindal, in the cathedral of York. In 17;1

Rebimon, he attended the duke of Dorfet, lord-lieutenant of Ireland, to that kingdom, as his first chaplain, and the fame year was promoted to the bithopric of Killala. A family connection with the earl of Holderneile, who was fecretary of flate that year, with the earl of Sandwich and other noblemen related to him, opened the fairest prospects of attaining to the first dignity in the Irish church. Accordingly in 1750 he was translated to the united fees of Leighlin and Ferns, and in 1761 to Kildare. The dake of Northumberland being appointed to the lieutenancy of Ireland in 1765, he was advanced to the primacy of Armagh, made lord-almoner, and vicechancellor of the univertity of Dublin. When Lord Harcourt was lord-lieutenant of Ireland in 1777, the king was pleafed by privy-feal at St James's, February 6th, and by patent at Dublin the 26th of the same month, to create him Baron Rokeby of Armagh, with remainder to Matthew Robinson of West Layton, Esq; and in 1783 he was appointed prelate to the most illustrious order of St Patrick. On the death of the duke of Rutland lord-lieutenant of Ireland in 1787, he was nominated one of the lords judices of that kingdom. Sir Willian Robinson, his brother, dying in 178;, the primate facceeded to the title of baronet, and is the furvivor in the direct male line of the Robinsons of Rokeby, being the 8th in descent from William of Kendal. His grace died at Clifton near Briftol in the end of October 1794.

No primate ever fat in the fee of Armagh who watched more carefully over the interest of the church of Ireland, as the flatute-book evinces. The act of the 11th and 12th of his present majesty, which secures to bishops and ecclefialtical persons repayment by their successors of expenditures in purchasing glebes and houses, or building new houses, originated from this excellent man, and mutt ever endear his name to the clergy. The other acts for repairing churches, and facilitating the recovery of ecclefiattical dues, were among the many happy exertions

of the primate.

But it was at Armagh, the ancient feat of the primacy, that he displayed a princely munificence. A very elegant palace, 90 feet by 60, and 40 high, adorns that town; it is light and pleafing, without the addition of wings or leffer parts; which too frequently wanting a fusficient uniformity with the body of the edifice, are unconnected with it in effect, and divide the attention. Large and ample offices are conveniently placed behind a plantation at a small distance. Around the palace is a large lawn, which spreads on every fide over the hills, skirted by young plantations, in our of which is a terrace, which commands a most beautiful view of cultivated hill and dale; this view from the palace is much improved hy the barracks, the school, and a new church at a distance; all which are fo placed as to be exceedingly ornamental to the whole country.

The barracks were erected under the primate's direction, and form a large and handsome edifice. The school is a building of considerable extent, and admirably adapted for the purpole; a more beautiful or better contrived one is nowhere to be feen; there are apartments for a mafter, a school-room 56 feet by 28, a large dining room and spacious airy dormitories, with every other necessiry, and a spacious play-ground walled in; the whole forming a handsome front: and attention being paid to the refidence of the mailer (the falary is 4001, a year), the school flourishes, and must

This edifice was built on irely at the primat 's copence. The church is erected of white flone, and having a tall fpire, makes a very agreeable object, in a country where churches and fpires do not abound. The primate built three other churches, and made confiderable reparations to the cathedral; he was also the means of erecting a public infirmary, contributing amply to it himfelf: he likewife contructed a public library at his own cott. endowed it, and gave it a large collection of books; the room is 45 feet by 25, and 20 high, with a gallery and apartments for the librarian. The town he ornamented with a market-house and shambles, and was the direct means, by giving leafes upon that condition, of almost new-building the whole place. He found it a nest of mud cabins, and he left it a well-built city of stone and slate. These are noble and spirited works, in which the primate expended not less than accord-Had this fum been laid out in improving a paternal ettate, even then they would be deferving great praife; but it is not for his potterity but the puolic good that his grace was fo munificent. A medal was thruck by the ingenious William Moffop of Dublin, which has on one fide the head of the primate, infcribed " Richard Robinson, Baron Rokeby, Lord Primate of all Ireland." And on the reverle, the fouth front of the observatory at Armagh, erected by his grace, with this admirable motto, "The Heavens declare the glory of God."

ROBINSON, Robert, a diffenting minister of confiderable note, was born on the 8th of October 1735 at Swaffham in Norfolk. His father died when he was young; and his maternal grandfather Robert Wilkin, of Milden-hall, Suffolk, gent. who had ever been diffa-tisfied with his daughter's marriage, deprived him of his maternal inheritance, cutting him off with half-aguinea. His uncle, however, who was a fubfiantial farmer, in some measure supplied their loss. He took Mr Robinson home, and placed him under the Rev. Joseph Brett, at Scarning school in Norfolk, with a view to the ministry of the church of England; where he had for one of his school-fellows the lord chancellor Thurlow. When about the age of 1; or 16, he imbibed the notions of George Whitfield; on which account he was discarded by his uncle, and again exposed to poverty and want. He first directed his thoughts towards the ministry in the year 1754, and commenced preacher in the following year at the age of 20; preaching his first fermon to a congregation of poor people at Milden-hall. He continued for a year or two as one of Mr Whitfield's preachers, and during that period he married. In the year 1758, however, he determined to separate from the Methodiths; after which he settled at Norwich with a fmall congregation formed chiefly of his methodiflic friends, being at that time an Independent. In the year 1759 he was invited to Cambridge. and for two years preached on trial to a congregation confishing of no more than 34 people, and so poor that they could only raise 31. 6s. a quarter for his subsittence. In June 1761 he fettled as their paftor, and was ordained in the usual manner; at which time we are told he exercised the office of a barber. In 1774, his congregation had fo much increased as to consist of 1000 fouls. including children and fervants.

In Cambridge Mr Robinson's talents soon attracted

Roman, notice, and he quickly fet up a Sunday evening lecture, which was well attended. His preaching was altogether without notes; a method in which he was peculiarly happy: not by trufting to his memory entirely, nor by working himfelf up to a degree of warmth and passion, to which the preachers among whom he first appeared commonly owe their ready utterance; but by thoroughly studying and making himself perfectly master of his fobject, and a certain faculty of expression which is never at a lofs for fuitable and proper words. In fhort, his manner was admirably adapted to enlighten the understanding, and to affect and reform the heart. He had fuch a plainness of speech, such an easy and apparent method in dividing a discourse, and such a familiar way of reasoning, as discovered an heart filled with the tenderest concern for the meanest of his hearers; and yet there was a decency, propriety, and justness, that the most judicious could not but approve. Several gentlemen of the university, eminent for character and abilities, we are told, were his constant

> The circumstances which lost him his uncle's patronage paved the way for the future events of his life. The incident which made him discard the common sentiments on the fubject of baptilm, at once marked the turn of his mind, and thows what apparently flight caufes frequently determine the lot and ufefulness of our lives. He was invited to the baptism of a child; the minister who was to perform the service keeping the company in long expectation of his appearance, fome one fuggested, that supposing the child were not baptized at all, he faw not how it could affect his happiness. Though the conversation was not pursued, the hint ftruck Mr Robinson's mind; and he immediately determined to read the New Tellament with this particular view, to examine what it faid concerning the baptilm of infants. He accordingly began with the Gofpel of Matthew; and, in fuccession, perused the historical and epiftolary books; in expectation that he should find in every following part what he had not met with in the preceding parts of the facred volume; namely, pailages recommending and urging this rite. But obferving, on the whole, a total filence about it, he thought it his duty to relinquish the practice, as without foundation in the rule of our faith; which appeared to him to speak only of the baptism of believers.

> This change of his fentiments was more unfavourable than the former alterations in his religious judgement to his wordly views; and having married very early in life from pure affection, he was involved in great difficulties for near 12 years after his fettlement in Cambridge; as, in that course of time, his family became numerous, and the fupport of an aged mother, as well as of a wife and ten children, depended upon him. But unexpected supplies, from quarters of which he was ignorant, frequently relieved his necessities, and confirmed his trust in Providence: yet the fituation of his family must, it is easy to conceive, have much affected his mind. For he appears to have possessed great tendernels and fenfibility, and to have regarded with peculiar endearment his domestic connections.

> It may be reckoned a circumflance worthy of mention, that the sphere of Mr Robinson's ministry was the same in which his great grandfather Mr Shelly, of Jefus College, and vicar of All Saints, had, with others,

diffused the principles of the Puritans, about the begin- Robinson ning of the 17th century. The reputation of the Differters in the university and neighbourhood had for almost a century been facking into contempt, when Mr Robinfon fettled with the baptist church at Stone Yard. His abilities and affiduity, however, raifed their reputation. The place in which his people affembled, which was at first a barn, afterwards a stable and granary, and then a meeting-house, but still a damp, dark, and ruinous place. foon became too fmall for the audience; and feveral of the new auditors being men of fortune, they purchased the fite, and erected at their own expence a new house in the year 1764.

His labours as a preacher were not limited to the town of Cambridge; but foon after his coming there, he fet up feveral lectures in the adjacent villages. His lectures were either aimual or occasional, or stated on fixed days. The ufual time was half an hour after fix in the evening; and fometimes at five in the morning; and now and then in the fummer at two in the afternoon. for the fake of those who came from a distance,

He died on the 9th of June 1790, at the house of William Ruffel, Efg. of Showell Green near Birmingham. He had laboured under an alarming disorder for some time before; but on the Sunday preceding his death he preached a charity fermon. On Monday he was feized with a fit; on Tuesday he recovered and went to bed tolerably well, but was found dead next morning.

The abilities of Mr Robinson were very considerable. as appears from his numerous works; and he poffeffed the quality of expressing his thoughts in an easy and a forcible manner. But he appears to have been of an unfleady temper, and in our opinion, acquires but little credit either from the frequency with which he changed his religious creed (for we have reason to believe he died a Socinian), or from the foolish and undeferved acrimony with which he treated the church of England, His Plan of Lectures on the Principles of Nonconformity, for the Instruction of Catechumens, is a piece of the most unjust and illiberal abuse that we have ever feen, and would have difgraced the most high-flying Puritan of the last century.

Mr Robinson's largest work, the History of Baptism and of the Baptists, was published fince his death, and is written in the same style and with the same confidence as his other works. Yet, as we have heard it remarked by a learned and liberal professor of theology in the church which he opposed, it is not a little remarkable that there is in it no argument or fact against infant baptifm which was not answered by Dr Wall nearly 100 years ago, of whole arguments Mr Robinson however takes no notice.

ROBORANTS, in Pharmacy, medicines which firengthen the parts, and give new vigour to the conflitution.

ROCHEFORT, a handsome and considerable town of France in the department of Lower Charente. It was constructed by Louis XIV. and is built in the midst of marshes expressly drained for that purpose; and time evinced the utility of the project, for as a port it foon became as necessary and important to the crown of France as Brest or Toulon. It has a department of the marine, and has large magazines of naval flores. There is also one of the finest halls of arms in the kingdom. and a great many workmen employed in making them ;

Rethefort there are also forges for anchors, and work-houses for Rocheford relates to the fitting out of flips that come within the compals of their province. They likewife cast great guns here; and have artists, whose employment is fculpture and painting. There are also flocks for building men of war, rope-walks, magazines of provisions and powder, a manufactory of fail-cloth, an hospital for failors, and proper places to clean the flips. Add to thefe, the houses of the intendant, the square of the enpuchins; and the fuperb structure which contains lodgings for 300 marine guards, where they are taught the bufiness and exercises belonging to seamen and officers who go on board the men of war.

Befides the ufual number of workmen which were employed at Rochefort during the monarchy, which amounted to about 900, there were about 600 galley flaves, occupied in the most painful and laborious branches of fervice. The town is fituated on the river Charente, about five leagues from its mouth, and was fortified by Louis XIV. at the time he constructed it ; but its fituation is at fo confiderable a distance from the fea, as to render it futhciently fecure from any attack, and they have therefore closed up the battlements, and neglected the fortifications. It is supposed to contain about 10,000 inhabitants. The town is laid out with great beauty and elegance. The streets are all very broad and straight, extending through the whole place from fide to fide; but the buildings do not correspond with them in this respect, as they are mostly Iow and irregu-

Iar. W. Long. o. 54. N. Lat. 46. 3.

ROCHEFOUCAULT, FRANCIS EARL OF, descended of an illustrious family, next in dignity to that of the fovereigns, was chamberlain to King Charles VIII. and Louis XII. His character at court was admired as obliging, generous, upright, and fincere. In 1494 be flood godfather to Francis I. who, when he came to the throne, continued to pay great respect to that spiritual relation. He made him his chamberlain in ordinary, and erected, in 1515, the barony of Rouchefoucault into an earldom; and, in his writ of erection, obferves, that he did this in memory of the great, honourable, highly useful, and commendable services which the faid Francis had done to his predecessors, to the crown of France, and to himfelf. The earl of Rochefoucault died in 1517, leaving behind him an illustrious memory, and a character univerfally respected. Since his time all the eldest fons of that family have taken the name of Francis.

ROCHEFOUCAULT, Francis duke de la, prince of Marfillac, governor of Poitou, was born in 1603 .- He was the fon of Francis, the first duke of Rochefoucault, and was diffinguished equally by his courage and his wit. These shining qualities endeared him to all the nobility at court, who were ambitious of decorating themselves at once with the laurels of Mars and of Apollo. He wrote two excellent works; the one a book of Maxims, which M. de Voltaire fays has contributed more than any thing elfe to form the tafte of the French nation; and the other, Memoirs of the Regency of Queen Anne of Austria. It was partly at the infligation of the beautiful duchefs de Longueville, to whom he had been long attached, that the duke de Rochefoucault engaged in the civil wars, in which he Inalized himfelf particularly at the battle of St Antoine. Beholding one day a portrait of this lady, he Rochefouwrote underneath it these two lines from the tragedy of Alevonée:

" Pour meriter fon cour, pour plaire à fes beaux yeux,

" J'ai fait la guerre aux rois, je l'aurois fait aux dieux."

Which may be thus rendered in English:

" To gain her heart, and please her sparkling eyes, "I've war'd with kings, and would have bray'd the ikies."

It is reported, that after his rupture with Madame Longueville, he parodied the above verses thus :

" Pour ce cœur inconfant, qu'enfin je councis mi un, " Je fais la guerre aux rois, j'en ai perdu les yeux."

After the civil wars were ended, he thought of nothing but enjoying the calm pleasures of friendship and literature. His house became the rendezvous of every person of genius in Paris and Versailles. Racine, Boileau, Savigne, and La Favette, found in his convertation charms which they fought for in vain elsewhere. He was not, however, with all his elegance and genius, a member of the French Academy. The necessity of making a public fpeech on the day of his reception was the only cause that he did not claim admittance. This nobleman, with all the courage he had difflayed upon various critical occasions, and with his superiority of birth and understanding over the common run of men, did not think himfelf capable of facing an audience, to utter only four lines in public, without being out of countenance. He died at Paris in 1680, aged 68, leaving behind him a character which has been variously drawn by those who during his life were proud of his friendship. That he was well acquainted with human nature is certain; and his merit in that respect was fully admitted by Swift, who was himfelf not eafily imposed upon by the artificial difguifes of the hypocrite.

ROCHELLE, a celebrated city of France, in the department of Lower Charente, with a very commodious and fafe harbour, which, though it does not admit veffels of any confiderable burden, is yet well calculated for trade. " It may be divided (fays Mr Wraxal) into three parts; the bason, which is the innermost of these, is only a quarter of a mile in circumference; and at the entrance are two very noble Gothic towers, called the Tour de St Nicholas, and the Tour de la Chaine, They are now in a state of decay, but were anciently defigned to protect the town and harbour. Without these towers is the Avant Port, extending more than a league, and bounded by two points of land to the north and fouth. Beyond all is the road where the largest thips usually anchor, protected from the fouth-west winds by the islands of Re, Oleron, and Aix." The celebrated mound erected by Richlieu extends from fide to fide across the whole harbour, nearly an English mile in length, and when the fea retires is still viable. " I walked out upon it (fays Mr Wraxal) above 300 feet. Its breadth is at this time more than 150 feet, and it widens continually towards the bale. No effort of art or power can possibly impress the mind with so vast and sublime an idea of the genius of Richlicu, as does this bulwark against the sea. While I stood upon it, in the middle of the port, between the waves which rolled on either fide, and contemplated its extent and ftrength, I was almost inclined to suppose this astonishing work to

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Rochelle be superior to human power, and the production rather of a deity than of a mortal. A finall opening of about 200 feet was left by Pompey Targon, the architect who constructed it, to give entrance to vessels, and that up by chains fixed across it. A tower was likewise erected at each end, no remains of which are now to be feen. Neither the duke of Buckingham, nor the earl of Lindsey, who were successively fent from England to the aid of the besieved by Charles the First, dared to attack this formidable barrier: they retired, and left Rochelle to its fate. In all probability, a thousand years, aided by ftorms and all the fury of the fea, will make little or no impression on this mound, which is defigned to endure as long as the fame of the cardinal, its author."

Before the revolution. Rochelle was a bishop's see, and contained a college of humanities, an academy, a fehool for medicine, anatomy, and botany, and a mint. It cannot lay claim to any remote antiquity, being merely a little collection of houses on the shore, inhabited by fishermen, when William IX. last count of Poictou, rendered himself master of it in 1139. From this prince it descended to his only daughter Eleanor, afterwards queen of Henry II, of England; and her charter incorporating the town is still preserved in the registers of the city. In the year 1540, Rochelle was the grand asylum of the Protestants; and the massacre at Paris was foon followed by the fiege of Rochelle. which began in November 1572, and was raifed in June 1573; but in 1628, after a most obstinate refistance, and a siege of 13 months, it surrendered to the mercy of Louis XIII. At the beginning of the first fiere, the number of inhabitants in the city amounted to 72,000; in the second they diminished to 28,000; and they were, when Mr Wraxal was there, between 17 and 18,000, of which scarce 2000 were Huguenots. The houses of this city are fine, and supported with piazzas, under which persons may walk in all weathers; and the firects in general are as firaight as a line. There are feveral handsome churches, and other structures, befides a remarkable pump in the fourre of Dauphiny, which throws out the water through feveral pipes. There are no remains of the old fortifications, except on the fide of the harbour, where there are bulwarks and ftrong towers to defend the entrance. The new fortifications are in the manner of Vauban. Before Canada was c ded to England, and New Orleans to Spain, the trade of Rochelle was very lucrative. It revived about the year 1773, and, befide that to the coast of Guinea and the East Indies, the inhabitants carried on a confiderable trade in wines, brandy, falt, paper, linen cloth, and ferge. It is feated on the ocean, in W. Long. 1. 4. N. Lat. 46. 9.

ROCHESTER, a city of Kent, in England, is fituated on the Medway, feven miles and a half north of Maidstone, and 30 from London. It appears to have been one of the Roman stations, from the bricks in the walls, as well as the Roman coins that have been found about it. It has three parish churches built with ftone and flints, befides the cathedral, which is but a mean structure. This little city, which was made a bifhop's fee by King Ethelbert, anno 6 4, has met with many misfortures. In 676, it was facked by Eldred king of Mercin; in 839 and 895, belieged by the Danes, but refeued by King Alfred. About 100 years

after, it was believed by King E behed, and forced to Roch fler. pay 100l. Anno 900 it was taken and plundered by the Danes. Anno 1088 it was befiered and taken by William Rufus. In King John's time it was taken from the Barons, after three months fiege; and the very next year, viz. 1256, its caffle, founded by William the Conquerer, was itormed and taken by feveral of the Barons, under the French king's fon. In the reign of Henry III. it was befieved by Simon Montford, who burnt its then wooden bridge and tower, and spoiled the church and priory, and then marched off. This city has also been several times destroyed by fire. viz. in 1130, on June 3. in 1137, and in 1177; after which it is faid to have continued defolate till 1225. when it was repaired, ditched, and walled round. In the Saxon heptarchy there were three mints in Rochefter, two for the king and one for the bithop. In 1281, its old wooden bridge was carried off by the ice, in a fudden thaw after a frost which had made the Medway passable on foot. Another was built in the reign of Richard II. but pulled down again, on the rumour of an invasion from France. It was afterwards restored. but so often subject to expensive repairs, by reason of the rapid course of the river under it, as well as the great breadth and depth of it, that in the reign of Edward III. it was resolved to build a new bridge of stone; and the fame was begun, and in a manner completed, at the expence of Sir John Cobham and Sir Robert Knolles, Edward III.'s generals, out of the spoils they had taken in France. It has 21 arches. The town is governed by a mayor, recorder, 12 aldermen, 12 common-councilmen, a town-clerk, three ferieants at mace, and a water-bailiff. To its cathedral belong a dean and fix prebendaries. Gundulph's tower stands on the north fide of the cathedral, and is supposed to have been built by the bifhop, as a place of fecurity for the treasures and archives of that church and fee. Some suppose it to have been intended for a bell tower, and others for an ecclefiaftical prison; but whatever might be its deflination, its machicolations, its loop-hole windows, and the thickness of its walls, show that ftrength and defence were confidered as necessary This tower was 60 feet high, but some part has lately fallen down; the walls are fix feet thick, and contain within them an area of 20 feet fourre: it was divided into five floors or stories of unequal height, and had a communication with the upper part of the church, by means of an arch or bridge, the steps of which are still visible. It is supposed to have been credted after the cathedral was built. For the maintenance of its bridge, certain lands are tied down by parhament, to which it has fent members from the first. The town-house, built in the year 1687, for the courts, affizes, and feffions, and the charity-school, are two of the best public buildings here .- A mathematical school was four ded here, and an alms-house for lodging fix poor travellers every night, and allowing them 4d, in the morning rogues, and proctors. In the fummer here are always fix or eight ledgers, who are admitted by tickets from the mayor. The Roman Walling-fireet runs through this town form Shooters Hill to Dover. The mayor a-year for regulating the oyfter fiftery in the creeks and branches of the Medway that are within their jurifdic-

Rocket

Rochester tion, and for professing the cable hangers, as they are free, by having lerved feven years apprenticellip to a fisherman who is free of the fishery. Every licensed dredger pays 6s. 8d. a year to the ful port of the courts, and the fiftery is now in a flourishing way. Part of the callle is kept in repair, and is used as a magazine, where a party of foldiers do constant duty. The bridge was repaired in 1744, and pallifadood with new iron rails. Rochefter contains about 700 houses, and 2000 inhabitants. It confifts of only one principal ftreet, which is wide, and paved with flints. The houses are generally well built with brick, and inhabited by tradelmen and innkeepers. It has also four narrow fireets; but no fort of manufactory is carried on here. Stroud is at the west end of this place, and Chatham at the east. It is 27 miles north well by west of Canterbury, and 30 fourh-east by east of London. Long. o. 36. E. Lat. 51. 23. N.

ROCHESTER, Earl of. See WILMOT.

ROCK, a large male of flone. See GEOLOGY. ROCK, a fp. les of VULTURE. See ORNITHOLOGY

Fudex.

ROCK Bafour are cavities or artificial bafons of different fizes, from fix feet to a few inches diameter, cut in the furface of the rocks for the purpofe, as is supposed, of collecting the dew and rain pure as it defeended from the heavens, for the use of ablutions and purifications, preferibed in the druidical religion; thefe. especially the dow, being deemed the purest of all fluids. There are two forts of these basons, one with lips or communications between the different basons, the other fimple cavities. The lips as low as the bottom of the basons, which are horizontal, and communicate with one fomewhat lower, fo contrived that the contents fell by a gradual descent through a succession of balons either to the ground, or into a vessel set to receive it. The basons without lips might be intended for refervoirs to preferve the rain or dew in its original purity without touching any other veffel, and was perhaps used for the druid to drink, or wash his hands, previous to officiating at any high ceremony, or elfe to mix with their milletoe.

Some of these basons are fo formed as to receive the head and part of the human body; one of this kind is found on a rock called King Arthur's Bed, in the parish of North Hall in Cornwall, where are also others, called by the country people Arthur's troughs, in which

they fay he used to feed his dogs

ROCK-Crystal, in Natural History, otherwise called (prig-cruftal, a name given to quartz or filiceous flones, when pure and regularly crystallized. See MINERALOGY

ROCK Salt. See SALT, GEOLOGY.

ROCK Oil. See PETROLEUM, MINERALOGY Index. ROCK Fi/b. See Gobius, ICHTHYOLOGY Index.

ROCKET, an artificial fire-work, confifting of a cylindrical case of paper, filled with a composition of certain combuttible ingredients; which, being tied to a tlick, mounts into the air, and then burils. See Pyro-

Theory of the Flight of Sky-ROCKETS. Mariotte takes the rife of rockets to be owing to the impulse or refistance of the air against the slame. Dr Delaguliers

Conceive the rocket to have no vent at the choak, and to be fet on fire in the conical bore; the confequence will be, either that the rocket would burft in the weakest place, or, if all its parts were equally strong, and able to fuffain the impulie of the tlame, the rocket would burn out immoveable. Now, as the force of the flame is equable, suppose its action downwards, or that upwards, fufficient to lift io pounds. As thefe forces are equal, but their directions contrary, they will

Imagine then the rocket opened at the chook; by this means the action of the flame downwards is taken away, and there remains a force equal to 40 pounds acting upwards, to carry up the rocket, and the flick it is tied to. Accordingly, we find that if the composition of the rocket be very weak, so as not to give an impulse greater than the weight of the rocket and flick, it does not life at all; or if the composition be slow, so that a finall part of it only kindles at first, the rocket will not

dellroy each other's action.

The flick ferves to keep it perpendicular; for if the rocket should begin to stumble, moving round a point in the choak, as being the common centre of gravity of rocket and flick, there would be fo much friction against the air by the stick between the centre and the point, and the point would beat against the air with so much velocity, that the friction of the medium would restore it to its perpendicularity.

When the composition is burnt out, and the impulse upwards has ceased, the common centre of gravity is brought lower towards the middle of the flick; by which means the velocity of the point of the flick is decreased, and that of the point of the rocket increased; fo that the whole will tumble down, with the rocket-

end foremost.

All the while the rocket burns, the common centre of gravity is shifting and getting downwards, and still the faster and the lower as the slick is the lighter, fo that it fometimes begins to tumble before it be burnt out; but when the flick is a little too heave, the weight of the rocket bearing a less proportion to that if the Rick, the common centre of gravity will not get to low but that the rocket will rife straight, though not fo

ROCKET. See BRASSICA, BOTANY I.dex.

ROCKINGHAM, a town in Northamptonthire, in England, 87 miles from London, stands on the river Welland. It has a charity-school, a market on Thursday, and a fair on Sept. 8 for five days. Its forest was reckoned one of the largest and richest of the kingdom, in which William the Conqueror built a castle; it extended, in the time of the ancient Britains, almost from the Welland to the Nen, and was noted formerly for iron-works, great quantities of flags, i.e. the refuse of the iron-ore, being met with in the adjacent fields. It extended, according to a furvey in 1641, near 14 miles in length, from the west end of Middleton-Woods to the town of Mansford, and five miles in breadth, from Brigflock to the Welland; but is now difinembered into parcels, by the interpolition of fields and towns, and is divided into three bailiwicks. In feveral of its woods a great quantity of charcoal is made of the tops of trees, of which many waggon-loads are fent every year to Peterborough. There is a fina ious plain in it called Pockinghamshire, which is a common to the four towns

Rocking of Cottingham, Rockingham, Corby, and Gretton. King William Rufus called a council here of the great men of the kingdom. W. Long. 0. 46. N. Lat. 52.

ROCKING STONES. See Rocking-STONES. ROCKOMBOLE, See ALLIUM.

ROD, a land measure of 16 feet and a half; the same with perch and pole.

Black ROD. See USHER of the Black Rod.

Fishing ROD, a long taper rod or wand, to which the line is faitened for angling. See FISHING-Rod.

RODNEY, GEORGE BRIDGES, Lord Rodney, was born in the year 1718. Of the place of his birth and the rank of his ancestors we have not been able to procure any well authenticated account. His father was a naval officer; and commanding, at the time of his fon's birth, the yacht in which the king, attended by the duke of Chandois, was passing to or from Hanover, he asked and obtained leave to have the honour of calling his infant fon George Bridges. The royal and noble godfathers advised Captain Rodney to educate his boy for his own profession, promising, as we have been told, to promote him as rapidly as the merit he should display and the regulations of the navy would per-

Of young Rodney's early exertions in the fervice of his country, nothing, however, is known to the writer of this abitract, nor, indeed, any thing of fufficient importance to be inferted in articles fo circumfcribed as all our biographical fketches must be, till 1751, when we find him, in the rank of a commodore, fent out to make accurate discoveries respecting an island which was supposed to lie about 500 N. L. and about 300 leagues W. of England : but he returned without having feen any fuch island as that which he was appointed to furvey. In the war which foon followed this voyage of discovery, he was promoted to the rank of a rear-admiral, and was employed to bombard Havre-de-Grace; which in 1759 and 1760 he confiderably damaged, together with some shipping. In 1761 he was sent on an expedition against Martinico, which was reduced in the beginning of the year 1762, and about the same time St Lucia furrendered to Captain Harvey. Both these islands were restored to the French at the peace of

In reward for his fervices, he was created a knight of the Bath; but being inattentive, as many feamen are, to the rules of economy, his circumstances became fo embarraffed that he was obliged to fly from his country, with very flight hopes of ever being able to return. He was in France when the ill-advised policy of that court made them take a decided part with America against Great Britain; and it is faid that some men in power, no ftrangers to the desperate flate of Sir George's affairs, offered him a high command in the French navy, if he would carry arms against his own country. This offer he rejected with becoming indignation. Soon after this gallant behaviour, the duke de Chartres, afterwards the infamous Orleans, told Sir George that he was to have a command in the ficet which was to he opposed to that under the command of his countryman Mr Keppel; and with an infulting air afked him what he thought would be the confequence of their meeting ? "That my countryman will carry your Highness with him to learn English," was the high-spirited reply,-

When the divisions, which the mutual recriminations of Rodney, Admiral Keppel and Sir Hugh Pallifer excited in the British navy, made it difficult for the ministry to procure experienced, and at the fame time popular, commanders for their fleets, Lord Sandwich wrote to Sir George Bridges Rodney, offering him a principal command; but the difficulty was for the veteran to find money to pay his accounts in France, fo that he might be permitted to leave that kingdom. The money, it has been repeatedly affirmed, was advanced to him by the courtiers whose offer he had before indignantly rejected. He arrived, therefore in England, and was again employed in the fervice of his country. His first exploit after his appointment was in January 1780, when he took to Spanish transports bound to Cadiz from Bilboa. together with a 64 gun ship and 5 frigates, their convov. On the 16th of the fame month he fell in with the Spanish sleet, consisting of 11 sail of the line, under the command of Don Juan de Langara; of which one was blown up during the engagement, five were taken and catried into Gibraltar, among which was the admiral's thip, and the reft were much thattered. In April the fame year, he fell in with the French fleet, under the command of Admiral Guichen, at Martinico, whom he obliged to fight, and whom he completely beat; though from the shattered state of his own fleet, and the unwillingness of the enemy to risk another action, he took none of their ships. The successful efforts of our gallant admiral during the year 1780 were generally applauded through the nation. He received the thanks of both Houses of Parliament, and addresses of thanks from various parts of Great Britain, and the islands to which his victories were more particularly ferviceable. In December the fame year, he made an attempt, together with General Vaughan, on St Vincent's, but failed. In 1781, he continued his exertions, with much fuccefs, in defending the West India islands; and, along with the above named general, he conquered St Euflatius; on which occasion his conduct to the inhabitants has been much, though perhaps unjustly, censured. The island was certainly a nest of contraband traders.

On the 12th of April 1782, he came to a close action with the French fleet under Count de Graffe; during which he funk one thip and took five, of which the admiral's ship, the VIlle de Paris, was one. The following year brought peace; but, as a reward for his numerous services, he had a grant of 2000l. a-year for himfelf and his two fuccessors. He had long before been created a baronet, was rear-admiral of Great Britain, and at length was justly promoted to the peerage, by the title of Baron Rodney of Stoke, Somerfetshire, and made vice-admiral of Great Britain. He was at one time also governor of Greenwich Hospital.

Lord Rodney had been twice married; first to the fifter of the earl of Northampton, and fecondly to the daughter of John Clies, Efq; with whom he did not refide for feveral years before his death, which happened on the 2.1th of May 1702. He was succeeded in title and estates by his son George, who married in 1781 Martha, daughter of the Right Hon. Alderman Harley, by whom he has iffue.

Of the private life of Lord Rodney we know but little. His attention to the wants of the feamen, and the warrant officers ferving under him, indicated that lumanity which is always allied to true courage. He

Rodney, has often, from the number of diffies which his rank brought to his table, selected something very plain for himself, and fent the rest to the midshipmen's mels .-His public transactions will transmit his name with honour to posterity; his bravery was unquestionable, and his fuccess has been seldom equalled. It has, indeed, been very generally said, that his skill in naval tactics was not great, and that he was indebted to the superior abilities of Capt. Young and Sir Charles Douglas for the manouvres by which he was fo fuccefsful against Langara and De Graffe. But, supposing this to be true, it detracts not from his merit. A weak or foolish commander could not always make choice of the ablest officers for his first captains, nor would fuch a man be guided by their advice.

Whatever was Lord Rodney's skill in the science of naval war, or however much he may have been beholden to the counfels of others, he certainly possessed him-felf the distinguished merit of indefatigable exertion; for he never omitted any thing within the compass of his power to bring the enemy to action. He therefore unquestionably deserves the respect and the gratitude of his country. In the year 1783 the House of Assembly in Jamaica voted 1000l. towards erecting a marble statue to him, as a mark of their gratitude and veneration for his gallant fervices, fo timely and gloriously performed for the falvation of that ifland in particular, as well as the whole of the British West India islands and trade in general. A pillar was also erected to the memory of

this gallant officer, upon the Brythen in Shropshire. But whatever were the talents of Lord Rodney as a haval commander, there is a more splendid part of his character which it would be improper to omit. Before his fucces against the Spanish admiral Don Langara, the English prisoners in Spain were treated with the greatest inhumanity, and it required more than ordinary strength of constitution to exist for any length of time in a Spanish prison. When the Spanish admiral fell into the hands of Lord Rodney, both himfelf, his officers, and men, expected to mee, with the fame treatment they had been accustomed to give; but they were astonished to find in Lord Rodney a man who felt for their misfortunes, refleved their wants, and who, by his polite behaviour to his prisoners, made a powerful impression on the minds of the Spaniards, which could not fail to procure a mitigation of the fufferings of English prisoners in Spain. He represented the milerable condition of his countrymen in the enemy's country, and obtained a promife that Englishmen, when priforers in Spain, should be made as comfortable as their situation would permit. This was doing his country a fervice, which will make him fland as high in the offination of good men as the most assonishing display of courage, which is not always met with in a cultivated mind.

ROE, the feed or spawn of fift. That of the male filhes is ultrally diffinguished by the nome of foft roe, or milt; and that of the female, hard ree, or fearen. So increasivably numerous are the for laor in the res. that M. Petit found 3 2,144 of them is a case of 18 icher; but M. Limmenhock four line care no more

more one critisins 9,344.000 c.g.. Res, in Z. Ag. Sec CERVES, MAMMALIA IVdos.

ROEBUCK, JOHN, M. D. was born at Sheffield in Roebuck. Yorkshire, in the year 1718. His father was a manufacturer of Sheffield goods, and by his ability and induftry procured a confiderable fortune. He intended John to follow his own lucrative employment; but he was powerfully attached to other pursuits, and his father did not discourage his rising genius, but gave him a liberal

When done with the fchool, he was put under the tuition of Dr Doddridge, by whose instructions he was rapidly improved in many branches of ufeful knowledge. During his refidence in the Doctor's academy at Northampton, he became intimately acquainted with Mr Dyfon and Dr Akenfide, whose friendship lasted to the close of life.

Having completed his studies at the academy, he was afterwards fent to the university of Edinburgh, where he studied medicine and chemistry in particular, which then began to attract fome attention in Scotland. He was much diffinguithed among his fellow fludents by his logical and metaphylical acuteness, and by great ingenuity in his arguments. At Edinburgh he likewise formed an acquaintance with Mr Hume, Dr Robert-

fon, and other literary characters.

Having completed his medical fludies at Edinburgh. and wholly attached to the practice of physic, he spent fome time at the university of Leyden, where he obtained a degree in medicine. He received his diploma in February 1743, to which were affixed the respectable names of Muschenbroek, Otlerdyk, Van Royen, Albinus, Gaubius, &c. He afterwards fettled as a physician at Birmingham, a place which then began to make a rapid progrefs in arts, manufactures, and population, and where a favourable opening was prefented to him by the death of an aged physician. In this capacity he had every thing to favour his fuccess, such as his education, talents, and interesting manners, and he accordingly met with encouragement more rapid and extensive than his expectations had prefaged. But it was foon found that his industry and studies were turned to other Subjects than those of his profession, and in a particular manner to that of chemistry, the utility of which he was anxious to extend to the arts and manufactures. In the profecution of this idea, he fitted up a laboratory in his own house, where every moment of his time was fpent, not necessarily devoted to the duties of his profession. There he carried on various chemical processes of great importance, and laid the foundation of his future projects.

In this manner he was led to the discovery of certain improved methods of refining gold and filver, and an ingenious method of collecting the fmuller part; les of these metals, which manufacturers had formerly loft. mate Lartthorn, and many other articles of equal importan e. Much of his time being still employed in the duties of his profession, he found it necessary to connect bimself with some consideration perfore, and who might Printer with time confidence of the with the important classifier in the last in view. He therefore made choice of M. S. m. J. Cubet of Edmingham, a gentlement whose in the first and the tagest of the will qualified be first in the post in the ranks account riskings. Roe cl - " day t andy for great and gererous faint, well

Booker well qualified to support him under the many disappointments in butiness which he afterwards experienced. His chemical fludies led him to the difcovery of many things both of a public and private advantage.

The extentive use of falphuric acid in chemistry led many to various methods of obtaining it, and Dr Roebuck attempted to prepare it in such a manner as to reduce the price, for which purpose he substituted leaden vessels in the room of glass; and he had the good fortune to effect his benevolent defign. He established a manufacture of this useful article at Prestonpans in Scotland, in the year 1749, which was opposed by Dr Ward, but without success, as Roebuck's discovery did not come within Dr Ward's patent. By concealment and feerecy Dr Roebuck and his partner preferved the advantages of their industry and ingenuity for a number of years, supplying the public with sulphuric acid at a much cheaper rate than had been formerly done.

He found it expedient to give up his medical profef-Son altogether, and he refided in Scotland during the greater part of the year. He made fome discoveries in the fmelting of iron-stone, greatly facilitating that prosefs by using pit coal inflead of charcoal. He and his partner therefore projected a very extensive manufactory of iron, for which they foon procured a fufficient capital, as their friends had much confidence in their integrity and abilities. Dr Roebuck at length made choice of a fpot on the banks of the river Carron as the most advantageous fituation for the establishment of their iron manufactory, abundance of iron-ftone, lime-ftone, and coal, being found in its immediate vicinity. preparations for this establishment were finished in the end of the year 1759, and the first furnace was blown on the 1st of January 1760, after which a fecond was in a short time erected.

These works turned the attention of Dr Roebuck to the state of coal in the neighbourhood of that place, and to the means of procuring the extraordinary fupplies of it which the iron-works might require in future. He therefore became leffee of the extensive coal and falt works at Borrowstownness, the property of the duke of Hamilton, in which he funk, in the course of a few years, not only his own, and a confiderable part of his wife's fortune, but the regular profits of his more fuccefsful works; and what diffrested him above every thing elfe, the great fums of money which he borrowed from his relations and friends, without the prospect of ever being able to repay them. This ruinous adventure cut off for ever the flattering prospects of an independent fortune which his family once had; and he drew from his colliery only a moderate annual support, owing to the indulgence of his creditors. When he died, his widow was left without any provision for her immediate or future support, and without the fwallest advantage from the extraordinary exertions and meritorious industry of her hufband.

Some years before his death, Dr Roebuck was feized with a disorder that required a dangerous operation, and which he bere with his usual spirit and resolution. He was restored to a considerable share of his wonted health and activity; but its effects never wholly left him. He vifited his works till within a few weeks of his deceafe. in order to give inftructions to his clerks and overfeers, and was confined to bed only a few days. He departed this life on the 17th of July, 1794, retaining all his Recouct faculties, spirit, and good humour, to the last.

A life fo devoted to bufiness left little time for pub-Roemer. lications of any kind; but the few he left behind him fufficiently shew what might have been expected from his pen, had the most of his time been spent in study. All his writings that have been published, except two political pamphlets, are, a comparison of the heat of London and Edinburgh, experiments on ignited bodies, and observations on the ripening and filling of

ROELLA, a genus of plants belonging to the pentandria class; and in the natural method ranking under the 20th order, Campanaceae. See BOTANY Index.

ROEMER, OLAUS, a celebrated Danish mathematician and aftronomer, was born at Arbufen in Jutland. in the year 1644, and was fent to the university of Co-penhagen at the age of 18. By his assiduous application to the study of astronomy and mathematics, he became so eminent in those sciences, that Picard was astonished and delighted with him, when making observations in the north, by the order of Lewis XIV. He was prevailed on to accompany Picard to France, and being presented to the king, he was chosen the dauphin's tutor in the study of mathematics. He was afterwards united with Picard and Cassini in making astronomical observations, and became a member of the Academy of Sciences in 1672.

His discoveries acquired him great reputation during his ten years residence at Paris; and he did not scruple to affert, that Picard and Caffini took the merit of many things which belonged exclusively to himself. Roemer was the first person who discovered the velocity with which light moves, by means of the ecliples of Jupiter's fatellites, determining it to be about 7 or 8 minutes in coming from the fun to the earth. This opinion was opposed by many, but it was afterwards demonstrated

in a most ingenious manner by Dr Bradley.

Christian V. king of Denmark, recalled Roemer to his native country in the year 1681, when he was appointed professor of astronomy at Copenhagen; and he was also employed in the reformation of the coin and architecture of the country, in regulating the weights and measures, and in laying out the high roads through-out the kingdom, in the discharge of which his conduct was truly creditable to himself, and gave the greatest satisfaction to his royal employer. The consequence was, that the king bestowed many dignities upon him, and among others appointed him chancellor of the exchequer. In fine, he was made counfellor of state and burgomafter of Corenhagen, under Frederic IV. who fucceeded Christian already mentioned.

While Roemer was engaged in preparing to publish the result of his observations, he was taken off by death on the 19th of September 1710, when about 66 years of age. Horrebow, his disciple, made up this loss, by publishing in 4to, in 1753, when professor of astronomy at Copenhagen, various observations of Rocmer, with his method of observing, under the title of Basis Astronomiæ. He had also printed various astronomical observations and pieces in feveral volumes of the Memoirs of the Royal Academy of Sciences at Paris, of the institution of 1666, particularly vols. Ist and 10th of that

collection.

ROGA, in antiquity, a prefent which the emperors made to the fenators, magistrates, and even to the people; and the popes and patriarchs to their clergy. These room were diffributed by the emperors on the first day of the year, on their birth-day, or on the natalis dies of the cities; and by the popes and patriarchs in passionweek. Roga is also used for the common pay of the foldiers.

ROGATION, ROGATIO, in the Roman jurisprudence, a demand made by the confuls or tribunes of the Roman people, when a law was proposed to be passed. Rogatio is also used for the decree itself made in consequence of the people's giving their affent to this demand; to distinguish it from a fenatus consultum, or decree of the fenate.

ROGATION-Week, the week immediately fucceeding Whitfunday; fo called from the three featts therein, viz.

D Monday, Tuesday, and Wednesday.

ROGER DE HOVEDEN, a learned man of the 13th century, was born in Yorkshire, most probably at the town of that name, now called Howden, some time in the reign of Henry I. After he had received the first parts of education in his native country, he studied the civil and canon law, which were then become the most fashionable and lucrative branches of learning. He became domestic chaplain to Henry II. who employed him to transact several ecclesiatical affairs; in which he acquitted himfelf with honour. But his most meritorious work was, his Annals of England, from A. D. 731. when Bede's Ecclefiaftical Hiftory ends, to A. D. 1202. This work, which is one of the most voluminous of our ancient hiflories, is more valuable for the fincerity with which it is written, and the great variety of facts which it contains, than for the beauty of its flyle, or the regularity of its arrangement.

ROGUE, in Law, an idle flurdy beggar; who by ancient statutes is for the first offence called a rogue of the first degree, and punished by whipping, and boring through the griftle of the right ear with a hot iron; and for the second offence, is termed a rogue of the second degree, and if above 18 years of age, ordered to be execu-

ted as a felon.

ROHAN, PETER DE, Chevalier de Gié, and marshal of France, better known by the name of Marshal de Gié, was the son of Louis de Rohan, the first of the name, lord of Guémené and Montauban, and descended of one of the most ancient and most illustrious families of the kingdom. The family of Rohan, before the Revolution, held the rank of prince in France in confequence of deriving its origin from the first fovereigns of Brittany, and clearly admitted by the dukes of Brittany themfelves in the states general of that province held in 1088. The house of Rohan had still another advantage, which was common to it with very few families, even the most diffinguished among the princes, namely, that instead of having been aggrandifed by the wealth procured from alliances, it had held in itself for seven centuries the largest possessions of any family in the kingdom.

One of the most distinguished branches of this family was Peter, the subject of the present article. Louis X1. rewarded his bravery with the staff of marshal of France in 1475. He was one of the four lords who governed the kingdom during the indisposition of that prince at Chinon in 1484. Two years afterwards he opposed the

attacks of the archduke of Austria upon Picardy. He Robart commanded the van-guard at the battle of Fornoue in 1495, and fignalized himself much in that engagements His bravery procured him the countenance and confidence of Louis XII. who appointed him his prime counfellor. and general of the army in Italy; but these advantages be loft, by incurring the displeasure of Anne of Brittany

The marshal had stopped some of her equipage on the road to Nantz; for which that vindictive princels prevailed on her hutband to enter into a process against him before the parliament of Toulouse, at that time the most rigorous and fevere in the kingdom. He was on the 1 oth of February 1 506 found guilty, banished from the court. and deprived of the privileges and emoluments of his office for five years. The expence of this profecution amounted to more than 31,000 livres, and it did no honour either to the king or the queen. If indeed it be true. that the queen was never fo much delighted as with the humiliation of her enemies, the had good reason to be fatisfied here. John of Authon, who hath entered into a pretty full detail of this affair, reports that Gié, being removed to the Chateau de Dreux, became an object of ridicule to the witnesses who had tworn against him. He were a long white beard, and, quite full of the thoughts of his difgrace, took it on one occasion in his hands and covered his face with it. An ape, belonging to Alain d'Albret, count of Dreux, jumped from a bed where his mafter was repofing himfelf, and attacked the beard of Gié, who, with fome difficulty, extricated himfelf. This scene not only occasioned much laughter to the whole company who were prefent, but likewife became inflantly the subject of the farces and mummeries which were then acting in France. Even the ichool-boys made a representation of it, where, alluding to the name of the queen, they faid, that there was a marshall who wished to shoe an ass (un ane), but that he received such a blow with the foot, as threw him over the wall into the garden. Mareschal de Gié died at Paris, the 22d April 1513, perfectly difgusted with courts and grant-

ROHAN, Henry duke of, peer of France, and prince of Leon, was born at the Chateau de Blein in Brittany in 1579. Heery IV. under whose eyes he gave diftinguithed proofs of his bravery at the fiege of Amiens, when only 16 years of age, loved him with as much afsection as if he had been his own fon. After the death of Henry, he became chief of the Calvinists in France; and was equally formidable for his genius as his fivord, In defence of the civil and religious rights of his party. he maintained three wars against Louis XIII. The first. which terminated to the advantage of the Protestants. broke out when that prince wished to establish the Romith religion in Le Bearn : the fecond, because of the fiege which Cardinal De Richlieu caufed to be laid to Rochelle: and the third, when that place was belieged a second time. The consequences of this war are sufficiently known: Rochelle furrendered; and the duke de Rohan perceiving, that after the taking of this place. the majority of his party were endeavouring to make up matters with the court, succeeded in procuring for them a general peace in 1629, upon very honourable and advantageous terms. The only facrifice of importance which the Iluguenots were obliged to make, was their fortifications ; R fortifications : which put it out of their power to renew the war. Some factious persons, diffatisfied with feeing their fortresses fall into their enemies hands, were ready to accuse their general of having fold them. This great man, undeferving of fuch odious ingratitude, pretented his breatt to thele enraged malcontents, and faid, "Strike, strike! I wish to die by your hands, after I have hazard. ed my life in your fervice." The peace of 1629 having extinguished the flame of civil war, the duke de Rohan, no longer of use to his party, and become disagreeable at court, retired to Venice. There is a very particular ancedote of him, extracted from the Memoirs of the duchels of Rohan, Margaret of Bethune, daughter of the famous Sully. Whilst the duke de Rohan was at Venice. a proposal was made to him from the Porte, that for 200,000 crowns, and an annual tribute of 20,000, the Grand Signior would give him the island of Cyprus, and fully invest him with the dignity and prerogatives of king. The duke was warmly inclined to comply with this proposal, and to settle in the island the Protestant families of France and Germany. He negociated this hufiness at the Porte by means of the intervention of the patriarch Cyril, with whom he had much correspondence; but different circumstances, and in particular the death of the patriarch, occurred to break off the treaty. The republic of Venice chose Rohan for their commander in chief against the Imperialitis; but Louis XIII, took him from the Venetians, and fent him ambaffador into Swifferland, and into the Grisons. He wished to affist these people in bringing back La Valteline under their obedience, the revolt of which the Spaniards and Imperialifts encouraged. Rohan, being declared general of the Grisons, after many victories, drove the German and Spanish troops entirely from La Valteline in 1633. He defeated the Spaniards again in 1636 at the banks of the lake of Côme. France, not thinking it proper to withdraw her troops, the Grisons rose up in arms, and the duke de Rohan, not fatisfied with the conduct of the court, entered into a special treaty with them the 28th March 1637. This hero, fearing the refentment of cardinal de Richlieu, retired to Geneva, with a view to join his friend the duke of Saxe-Weimar, who wished bim to undertake the command of his army, then ready to engage the Imperialifts near Rhinfield. Although he declined this honour, yet he took the command of the regiment of Nafiau, with which he threw the enemy into confusion; but was himself wounded, February 28. 1683, and died of his wounds the 13th of April following, at the age of 59. He was interred May 27. in the church of St Pierre in Geneva, where there is a magnificent monument of mar'le erected to his memory, having on it the most illustrious actions of his life. The duke de Rohan was one of the greatest generals of his time, of fettling a commonwealth; but more zealous than they for religion, or at le st appearing to be so. He was vigilant and indefatigable, not allowing himfelf any I lealures which might take off his attention from his head of a party; a post very difficult to retain, and in which he had to fear equally from his enemies and his friends. It is in this light that Voltaire has viewed

Avec tous les talens le Ciel l'avoit fait naître: Il agit en Heros; en Sage il écrivit. Il fut même grand homme en combattant fon Maître, Et plus grand lor[qu'il le fervit.

His military virtues were much heightened by the fweetness of his disposition, his affable and courteous manners. and by a generofity which had few examples. Neither ambition, pride, nor a view of gain, could ever be traced in his character. He was wont to fay, that "true glory and a zeal for the public good never dwelt where felf-interest reigned." Rohan had always a particular regard for Henry the Fourth: "Truly (faid he, fometimes after the death of that prince) when I think of him, my heart is ready to break. A wound received in his presence would have afforded me more satisfaction than now to gain a battle. I would have valued an encomium from him in this art, of which he was the greatest master of his time, more than the united praises of all the commanders now living." He wrote feveral interesting performances: 1. The Interests of Princes, printed at Cologne in 1666, in 12mo: in which work he fully examines the public interests of all the princes of Europe. 2. The Perfect General, or an abridgement of the wars from Cæfar's Commentaries, in 12mo. In this he makes it appear, that a knowledge of the tactics of the ancients might be of much use to the moderns. 3. A Treatife on the Corruption of the Ancient Militia. 4. A Treatife on the Government of the Thirteen Provinces. 5. Memoirs; the best edition of which is in 2 vols 12mo. They contain the history of France from 1610 to 1629. 6. A Collection of some Political Discourses on State Affairs, from 1612 to 1629, 8vo, Paris, 1644, 1693, 1755; with the Memoirs and Letters of Henry Duke de Rohan relative to the war of La Valteline, 3 vols 12mo, Geneva, 1757. This was the first edition which appeared of these curious memoirs: We owe it to the great attention and diligence of M. le Baron de Zurlauben, who published them from different authentic manuscripts. He likewise ornamented this edition with geographical, historical, and genealogical notes, and a preface, which contains an abridged, but highly interesting life, of the duke de Rohan, author of the memoirs. The Abbé Pérau has also written a life of him, which occupies the 21st and 22d volumes of the History of the Illustrious Men of France. Some want of spirit might be excused in the detail of wars finished upwards of 140 years ago; yet the memoirs of the duke de Rohan still afford considerable pleasure in the perufal. He tells his ftory with humour, with fufficient exactness, and in such a style as procures the confidence of the reader.

ROHAULT, James, a celebrated Coviction philosopher, was the fon of a merchant of Amiens, where he was born in 1620. He became well fkilled in the mathematics, and taught them at Paris, where he became acquainted with M. Clerfelier, an advocate, who gave him his daughter in marriage. Rohault allo taught philosophy in the Same city with uncommon applaute. He there improved the arts, and gave excellent leftures to the artifles and workmen. He died at Paris in 162, to He wrote, in French, 1. A Treatife on Natural Philosophy. 2. The Elements of the Mathematics. 3. A Treatife on Micchanics, which is very curious. 4. Philosophy.

ofophica

Rolandra Infophical Conversations; and other works. His Physics have been translated into Latin, by Dr Samuel Clarke, Roll. with notes, in which the Cartefian errors are corrected

upon the Newtonian fystem.

ROLANDRA, a genus of plants belonging to the fyngenefia clafs; and in the natural method ranking under the 49th order, Composita. The common calva confifts of diffinct flofculi, between each of which are flort fquame, the whole forming a round head. The partial calyx is bivalved. The corolla is fmall and funnelfhaped, the tube fmall as a thread, the lacinize short and acute. The stamina are five; the style bind. It has no other feed-veffel except the partial calvx, which contains a long three-fided feed. Of this there is only one species, viz. the Argentea; a native of the West Indies, and found in copies and wafte lands.

ROLL, in manufactories, fomething wound and fold-

ed up in a cylindrical form.

Few stuffs are made up in rolls, except fatins, gauses, and crapes; which are apt to break, and take plaits not eafy to be got out, if folded otherwise. Ribbons, laces, gallons, and paduas of all kinds, are also thus rol-

A roll of tobacco, is tobacco in the leaf, twifted on the mill, and wound twift over twift about a flick or roller. A great deal of tobacco is fold in America in rolls of various weights; and it is not till its arrival in England, Spain, France, and Holland, that it is cut.

A roll of parchment, properly denotes the quantity

of 60 fkins.

The ancients made all their books up in the form of rolls; and in Cicero's time the libraries confifted wholly of fuch rolls.

ROLL, in Law, fignifies a schedule or parchment which may be rolled up by the hand into the form of a

In these schedules of parchment, all the pleadings, memorials, and acts of court, are entered and filed by the proper officer; which being done, they become records of the court. Of these there are in the exchequer feveral kinds, as the great wardrobe roll, the cofferer's roll, the fubfidy-roll, &c.

Roll is also used for a list of the names of persons of the fame condition, or of those who have entered into the same engagement. Thus a court-roll of a manor, is that in which the names, rents, and fervices, of each

tenant are copied and enrolled.

Calves-head ROLL, a roll in the two temples in which every bencher is taxed yearly at 2s. every barrifter at 1s. 6d. and every gentleman under the bar at 1s. to the cook and other officers of the house, in consideration of a dinner of calves-heads provided in Easter-

Muster ROLL, that in which are entered the foldiers of every troop, company, regiment, &c. As foon as a foldier's name is written down on the roll, it is death

ROLLS-Office, is an office in Chancery-lane, London,

Mafter of the ROLLS. See MATER of the Rolls. Rider ROLL, a schedule of perchanent frequently sew-

ed or added to some part of a rell or record.

ROLL of Perchment, are the manuscript registers or rolls of the proceedings of our ancient parliaments, which I were the invention of printing were all english tv. In thefe rolls are also contained a great many decifions of difficult points of law, which were frequently in former times referred to the decision of that high

ROLL, or Roller, is also a piece of wood, iron, brafs, &c. of a cylindrical form, used in the construction of feveral machines, and in feveral works and manufac-

Thus in the glass manufacture they have a runningroll, which is a thick cylinder of cast brass, which serves to conduct the melted glass to the end of the table on which large looking-glasses, &c. are cast.

Founders also use a roll to work the fand which they

use in making their mould.

The prefies called calendars, as ferving to calendar stuffs withal, confist, among other essential parts, of two rollers. It is also between the two rollers that the waves are given to filks, mohairs, and other stuffs proper to be

Impressions from copper-plates are also taken by pasfing the plate and paper between two rollers. See Rol

ling-press PRINTING.

Rolls, in flatting-mills, &c. are two iron inftruments of a cylindrical form, which ferve to draw or ftretch out

plates of gold, filver, and other metals.

Rolls, in fugar-works, are two large iron barrels which ferve to bruife the canes, and to express the juice. These are cast hollow, and their cavities are filled up with wood, the cylinders of which are properly the rollers.

ROLLER, in Surgery, a long and broad bandage, usually of linen cloth, rolled round any part of the body,

to keep it in, or dispose it to a state of health.

ROLLI, PAUL, an Italian poet, was born at Rome in 1687. He was the fon of an architect, and a pupil of the celebrated Gravina, who inspired him with a taste for learning and poetry. An intelligent and learned English lord having brought him to London, introduced him to the royal family as a master of the Tuscan language. Rolli remained in England till the death of Queen Caroline his protector, and the patronels of literature in general. He returned to Italy in 1747, where he died in 1767, in the 80th year of bis age, leaving behind him a very curious collection in natural history, &c. and a valuable and well chosen library. His principal works first appeared in London in 1735, in 8vo. They confift of Odes in blank verse, Elegies, Songs, &c. after the manner of Catullus, and a Collection of Epigrams, printed at Florence in 1776, in 8vo, to which is prefixed an account of his life by the Abbé Fondini. What Martial faid of his own Collection may be faid of this, "That there are few good, but many indifferent or bad, pieces in it." Rolli, however, bore the character of one of the best Italian poets of his age. During his stay in London, he procured editions of feveral authors of his own country. The principal of their were, the Satires of Ariosto, the Burlesque Works of Berni, Varchi, &cc. 2 vols, in 8vo, which possess considerable merit. The Decameron of Boccace, 1727, in 4to and folio; in which he has faithfully copied the celebrated and, laftly, of the elegant Lucretia of Marchetti, which, after the manuscript was revised, was printed at London

Relly

in 1717, in Svo. through the influence and attention of Rolli. This edition is beautiful 3 but the work is thought to be of a pernicious tendency. He likewife translated into Italian verse the Paradise Lost of Milton, printed at London in folio in 1735; and the Odes of Anacreon,

London 1739, in 8vo.

ROLLIN, CHARLES, a justly celebrated French writer, was the fon of a cutler at Paris, and was born there on the 30th of January 1661. He studied at the college Du Plessis, in which he obtained a burfary through the interest of a Benedictine monk of the White Mantle, whom he had ferved at table, and who discovered in him some marks of genius. Here he acquired the regard of M. Gobinet, principal of that college, who had a particular esteem for him. After having studied humanity and philosophy at the college of Du Pleffis, he applied to divinity three years at the Sorboane; but he did not profecute this fludy, and never rofe in the church Ligher than to the rank of a tonfured priest. He afterwards became professor of rhetoric in the same college; and, in 1683, succeeded Horsan, his mafter, as professor of eloquence, in the royal college. No man ever exercised the functions of it with greater celat: he often made Latin orations, to celebrate the memorable events of the times; and frequently accompanied them with poems, which were read and esteemed by every body. In 1694, he was cholen rector of the university; and continued in that office two years, which was then a mark of distinction. By virtue of his office, he spoke the annual panegyric upon Louis XIV. He made many very useful regulations in the university; and particularly revived the fludy of the Greek language, which was then much neglected. He fubilituted academical exercises in the place of tragedies; and introduced the practice which had been formerly observed, of caufing the students to get by heart passages of Scriptures. He was a man of indefatigable attention; and trained innumerable perfons, who did honour to the church, the flate, and the army. The first prefident Portail was pleafed one day to reproach Rollin in a jocular strain, as if he exceeded even himself in doing bufinefs : to whom Rollin replied, with that plainness and fincerity which was natural to him, " It becomes you well, Sir, to reproach me with this: it is this habit of labour in me which has diffinguished you in the place of advocate-general, which has raifed you to that of first prefident: you owe the greatness of your fortune to me."

Upon the expiration of the rectorship, Cardinal Noailles engaged him to superintend the studies of his nephews, who were in the college of Laon; and in this office he was agreeably employed, when, in 1690, he was with great reluctance made coadjutor to the principal of the college of Beauvais. This college was then a kind of defert, inhabited by very few students, and without any manner of discipline : but Rollin's great reputation and industry foon re-peopled it, and made it that flourishing fociety it has ever fince continued. In this fituation he continued till 1712; when the war between the Jefuits and the Janfenists drawing towards a crifis, he fell a facrifice to the prevalence of the former. Father le Tellier, the king's confessor, a furious agent of the Jefuits, infused into his master prejudices against Rollin, whose connections with Cardinal de Noailles would alone have fufficed to have made him a

Janfenist; and on this account he left his share in the Rollin. principality of Beauvais. No man, however, could have loft less in this than Rollin, who had every thing left him that was necessary to make him happy; rea tirement, books, and enough to live on. He now began to be employed upon Quinctilian; an author he justly valued, and faw neglected not without uneafiness. He retrenched in him whatever he thought rather cu! rious than useful for the instruction of youth; he placed fummaries or contents at the head of each chapter: and he accompanied the text with thort felect notes; His edition appeared in 1715, in 2 vols 12mo, with an elegant preface, fetting forth his method and views.

In 1710, the university of Paris, willing to have a head fuitable to the importance of their interests in a very critical conjuncture of affairs, choic Rollin again rector: but he was displaced in about two months by a lettre de cachet. The university had presented to the parliament a petition, in which it protested against taking any part in the adjustment of the late disputes; and their being congratulated in a public oration by Rollin on this step, occasioned the letter which ordered them to choose a rector of more moderation. Whatever the univerfity might fuffer by the removal of Rollin, the public was probably a gainer; for he now applied himself to compose his Treatise upon the Manner of Studying and Teaching the Belles Lettres, which was published, two volumes in 1726, and two more in

1728. 8vo.

This work has been justly esteemed for the sentiments of religion which animate its author, whose zeal for the public good prempted him to felect the choicest pasfages of Greek and Latin authors. The ftyle is fufficiently elegant, but the language on fome occasions is not remarkable for delicacy; and in the book altogether there is neither much order nor depth. The author has indeed spoken of common things agreeably, and has spoken as an orator on subjects which demanded the investigation of the philosopher. One can scarcely reduce any thing in him to principles .- For example, the three species of eloquence; the simple, the temperate, and the fublime, can fcarcely be understood from him when we read that the one refembles a frugal table; the fecond a beautiful ruin, with green wood growing on its banks; and the third thunder and an impetuous river which overthrows every thing that opposes it.

The work, however, has been exceedingly fuccessful, and justly so; and its success encouraged its author to undertake another work of equal use and entertainment; his Histoire Ancienne, &c. or " Ancient History of the Egyptians, Carthaginians, Affyrians, Babylonians, Medes and Perfians, Macedonians, and Greeks," which he finished in 13 vols 8vo, and published between 1730 and 1738. M. Voltaire, after having observed that Rollin was " the first member of the university of Paris who wrote French with dignity and correctness," fays of this work, that "though the last volumes, which were written in too great a hurry, are not equal to the first, it is nevertheless the best compilation that has yet appeared in any language; because it is seldom that compilers are eloquent, and Rollin was remarkably fo." This is perhaps faying too much. There are indeed in this work fome passages very well handled; but they are only fuch as he had taken from the ancient authors, in doing justice to whom he was always very happy. Rollin. The reader will easily discover in this work the same attachment to religion, the same defire for the public good, and the fame love of virtue, which appears in that on the belles lettres. But it is to be lamented that his chronology is neither exact nor corresponding; that he flates facts inaccurately; that he has not fufficiently examined the exaggerations of ancient historians; that he often interrupts the most solemn narrations with mere trifles; that his flyle is not uniform; and this want of uniformity ariles from his borrowing from writers of a modern date 40 or 50 pages at a time. Nothing can be more noble and more refined than his reflections; but they are strewed with too sparing a hand, and want that lively and laconic turn on account of which the hitlorians of antiquity are read with fo much pleafure. He transgresses the rule which he himself had established in his Treatife on Studies. "The precepts which have a respect to manners (fays he) ought, in order to make an impression, to be short and lively, and pointed like a dart. That is the most certain method of making them enter and remain on the mind." There is a vifible negligence in his diction with regard to grammatical cuttom, and the choice of his expressions, which he does not choose at all times with sufficient talte, although, on the whole, he writes well, and has preserved himself free from many of the faults of modern authors. While the last volumes of his Ancient History were printing, he published the first of his Roman History; which he lived to carry on, through the eighth and into part of the ninth, to the war against the Cimbri, about 70 years before the battle of Actium. Mr Crevier, the worthy disciple of Rollin, continued the history to the battle of Actium, which closes the tenth volume; and has fince completed the original plan of Rollin in 16 vols 12mo, which was to bring it down from the foundation of the city to the reign of Constantine the Great. This hiftory had not fo great fuccess as his Ancient History had. Indeed it is rather a moral and historical discourse than a formal history; for the author does little more than point out fome more remarkable events, while he dwells with a fort of prolixity on those parts which furnish him a free field for moralizing. It is alternately diffuse and barren; and the greatest advantage of the work is, that there are several passages from T. Livy translated with great elegance into French. He also published A Latin Transation of most of the Theological Writings relative to the disputes of the Times in which he lived. Rollin was one of the most zealous adherents of Deacon Paris; and before the inclosure of the cemetery of St Medard, this diffinguished character might have been often feen praying at the foot of his tomb. This he confesses in his Letters. He published also Lesser Pieces; containing different Letters, Latin Harangues, Discourses, Complimentary Addresses, &c. Paris 1771, 2 vols, 12mo. A collection which might have been contained in one volume, by keeping in only the best pieces. It is notwithstanding valuable for forme good pieces which it contains, for the favourable opinion which it exhibits of folid probity, found reason, and the zeal of the author for the progress of virtue and the preservation of taste. The Latin of Rollin is very correct, and much after the Ciceronian ftyle, and embellished with most judicious thoughts and agreeable images. Full of the reading of the ancients, from which he brought quotations with as much propriety as plenty, he expressed himself with much spirit R. lin and excellence. His Latin poems delerve the same eulo- Rolling.

This excellent person died in 1741. He had been named by the king a member of the academy of inferiptions and belles lettres in 1701: but as he had not then brought the coilege of Beauvais into repute, and found he had more buinels upon his hands than was confiltent with a decent attendance upon the functions of an academician, he begged the privileges of a veteran. which were honourably granted him. Nevertheless, he maintained his connections with the academy, attended their affemblies as often as he could, laid the plan of his Ancient History before them, and demanded an academician for his cenfor. Rollin was a man of an admirable composition; very ingenious, consummate in polite learning, of rigid morals, and eminently pious. He was rather too religious; his religion carrying him into the territories of Superstition; and he wanted nothing but a mixture of the philosophic in his nature to make him a very perfect character. Nothing could be more benign, more pacific, more sweet, more moderate, than Rollin's temper. He showed, it must be owned, some zeal for the cause of Jansenism; but in all other respects he was exceedingly moderate. The celebrated poet Rouffeau conceived fuch a veneration for him, that he came out of banishment incognito to Paris, on purpose to visit him and pay his respects to him. He looked upon his histories, not only as the best models of the historic kind, but as a complete fystem of politics and morals, and a most instructive school for princes as well as subjects to learn all their duties in.

Instead of blushing at the lowness of his birth, Rolling on no occasion hefitated to speak of it. " It is from the Cyclops's shop (fays he, in a Latin epigram to one of his friends, to whom he had fent a small sword) that I have taken my flight towards Parnassus." He was not, however, without fome there of vanity, especially at hearing mention made of his writings, of which the well-timed praifes of his adherents had given him a very high opinion. He spoke without any dissimulation what he thought; and his opinions were lefs the effect of prefumption than of opennels of heart. He was one of those men who are vain without any mixture of pride. Rollin fpoke pretty well; but he had a greater readinels of writing than speaking; and much more fatisfaction might be derived from his works than from his conversation. His name became famous throughout Europe; feveral princes fought the honour of his friendthip. The duke of Cumberland and the prince-royal of Pruffia (alterwards king) were among the lift of his admirers. This monarch honoured with him feveral letters; in one of which he pays him the following compliment, " Men of your character are fit companions for kings." As to the literary merit of this author, it was, we fulpect, too much extolled in his own time, and has been too much undervalued in ours.

ROLLING, the motion by which a ship rocks from fide to fide like a cradle, occationed by the agitation of the waves.

Rolling, therefore, is a fort of revolution about an imaginary axis paffing through the centre of gravity of a ship; so that the nearer the centre of gravity is to the keel, the more violent will be the rolling motion; because the centre about which the vibrations are made

Rolling, is placed to low in the bottom, that the relitance made by the keel to the volume of water which it displaces in rolling, bears very little proportion to the force of the vibration above the centre of gravity, the radius of which extends as high as the matt-heads.

But if the centre of gravity is placed higher above the keel, the radius of vioration will not only be dimipulsed, but an additional force to oppole the motion of rolling will be communicated to that part of the ship's

bottom which is below the centre of gravity. So far as relates to the effect of rolling, when produced by the quality or flowage of the ballaft, and to the manner by which it may be prevented, viz. a change of the quantity or disposition of the ballast, we shall endeavour to explain under the article TRIM. It

may, however, be necessary to remark, that the con-

itruction of the flip's bottom may also contribute to

diminish this movement considerably. Many fatal difasters have happened to ships arising from violent rollings; as the loss of the maits, loofening of the cannon, and firaining violently on the decks and fides, so as to weaken the thip to a great degree. Sec PITCHING.

ROLLING-Prefs. See Rolling PRESS.

ROLLING-Tackle, a pulley or purchase fastened to that part of a fail-yard which is to the windward of the mast, in order to confine the yard close down to the leeward when the fail is furled.

It is used to prevent the yard from having a great friction against the mast in a high sea, which would be

equally pernicious to both.

ROLLO, the conqueror of Normandy, was a Norwegian duke, banished from his country by Harold Harfager, who conquered Norway in 870, on account of the piracies he exercised. He first retired with his fleet among the islands of the Hebrides to the northwell of Scotland, whither the flower of the Norwegian nobility had fled for refuge ever fince Harold had become mafter of the whole kingdom. He was there received with open arms by those warriors, who, eager for conquest and revenge, waited only for a chief to andertake fome glorious enterprise. Rollo setting himself at their head, and seeing his power formidable, failed towards England, which had been long as it were a field open on all fides to the violence of the northern nations. But the great Alfred had fome years before established such order in his part of the island, that Rollo, after several fruitless attempts, despaired of forming there such a settlement as should make him amends for the lofs of his own country. He pretended, therefore, to have had a supernatural dream, which promifed him a glorious fortune in France, and which ferved at least to support the ardour of his followers. The weakness of the government in that kingdom, and the confusion in which it was involved, fuccels. Having therefore failed up the Seine to Rouch, he immediately took that capital of the province, then called Venfiria, and making it his magnrine of arms, he advanced up to Paris, to which he laid fiege in form. This war at length ended in the e, tire celli 1 of Newtria, which Charles the Simple was obliged to give up to l' o r ll's Norm is in order to pure me a percent Rillo received it is uerpe-

pendant on the crown of France. A description of the Rolls, interview between Charles and this new duke gives us Rollock a curious picture of the manners of these Normans (as they were called by foreigners); for the latter would not take the oath of fealty to his fovereign lord any other way than by placing his hands within those of the king; and absolutely resulted to kiss his feet, as cuttom then required. It was with great difficulty he was prevailed on to let one of his warriors perform this ceremony in his stead; but the officer to whom Rollo deputed this fervice, fuddenly raifed the king's foot fo high, that he overturned him on his back; a piece of rudeness which was only laughed at : to fuch a degree were the Normans feared, and Charles despised.

Soon after, Rollo was perfuaded to embrace Christianity, and he was baptized with much ceremony by the archbishop of Rouen in the cathedral of that city. As foon as he faw himfelf in full possession of Normandy, he exhibited fuch virtues as rendered the province happy, and deferved to make his former outrages forgotten. Religious, wife, and liberal, this captain of pirates became, after Alfred, the greatest and most humane prince

of his time.

ROLLOCK, ROBERT, the first principal of the university of Edinburgh, was the fon of David Rollock of Powis, in the vicinity of Stirling. He was born in the year 1555, and was taught the rudiments of the Latin tongue by a person then crainent in his profession. He was fent from school to the university of St Andrews, where his progress was so rapid, that he was made profestor of philosophy soon after he obtained the degree of

mafter of arts.

The magistrates of Edinburgh having petitioned the king to found a univerfity in that city, they obtained a charter under the great feal, by which they were allowed all the privileges of a university, which was built in 1582, and Mr Rollock was chosen principal and professor of divinity. He was soon famous in the university on account of his lectures, and among his countrymen at large for his perfusiive mode of preaching. In the year 1593, Principal Rollock and others were appointed by parliament to confer with the popula lords; and in the following year he was one of those made choice of by the general affembly, to prefent his majesty with a paper, entitled, the dangers which, through the impunity of excommunicated papills, traffickers with the Spaniards, and other enemies of the religion and effate, are imminent to the true religion professed within this realm, his majesty's person, crown, and liberty of this our native country. His zeal against popery was carried to excels, and he feems to have been of opinion, that it was incumbent on the civil magistrate to punish idolatry with death. In the year 1505, he was empowered, along with others, to vifit the different universities in Scotland, with a view to enquire into the doctrine and practice of the different matters, the discipline adopted by them, and the state of their rents and living, which they were ordered to report to the next general affem-

He was chosen moderator of the general assembly in the year 1507, at which period he was fortunate enough to obtain the recirefs of feveral glating abuses. The greater part of his life was spent in conducting t'e affairs of the courch, yet Spotti wood affores us that he would rather have preferred retirement and fludy. In-

Rollock deed, the feebleness of his constitution was not equal to the hurry and bustle of public life, which he did not Romance love equal to the retirement of study. He was very much affected with the stone, the pains of which he bore with the fortitude and refignation of a Christian. He died at Edinburgh on the last day of February 1598, in the 43d year of his age, befeeching his brethren, in his last moments, to be more dutiful and obe-

dient to their gracious fovereign.

Short as his life was, he published many works, of which the following is a fummary. A Commentary on the first book of Beza's Questions; on St Paul's Epistle to the Ephelians; on the prophet Daniel; a Logical Analysis of St Paul's Epistle to the Romans; some Questions and Answers concerning the Covenant of Grace and the Sacraments; a treatife of Effectual Calling; a Commentary on the Epistles of Paul to the Thessalonians and Philemon; on fifteen felect pfalms; on the Gospel of St John, with a harmony of the four Evangelists upon the death, refurrection, and ascension of Jesus Christ; certain Sermons on several places of St Paul's epiftles; a Commentary on the Epiftle to the Coloffians; a Logical Analysis of the Epistle to the Hebrews; of the Epistle to the Galatians; a Commentary upon the first two chapters of the first Epittle of St Peter; a Treatife of Justification, and another of Excommunication. All thefe, except the fermons, were written in Latin. The following epitaph feems to prove that Rollock was much esteemed in the university over which he prefided.

Te Rolloce, extincto, urbs mœsta, academia mœsta est; Et tota exequiis Scotia mœsta tuis.

Uno in te nobis dederat Deus omnia, in uno Te Deus eripuit omnia quæ dederit.

ROMAN, in general, fomething belonging to the

city of Rome. S. ROME. KING OF THE ROMANS, in Modern History, is a prince elected to be fuccessor to the reigning emperor

of Germany.

ROMANCE, in matters of literature, a fabulous relation of certain adventures defigned for the entertainment and instruction of the readers, and differing from the novel as it always exhibits actions great, dangerous, and generally extravagant. Many authors of the first name have written on the ancient romance. I: has exercifed the pen of Hurd, of Warburton, and of some ladies, who have not thought it any derogation to the fenfibility of their fex to unite antiquarian refearch with the cultivation of the belles lettres. We have not, however, feen anywhere to concile, just, and elegant an account of the origin and progress of romances as in D'Ifraeli's Curiofities of Literature, " Romance (fays this writer) has been elegantly defined the offspring of fiction and love. Men of learning have amused them-Vol. XVIII. Part I.

felves with tracing the epocha of romances. In this Romance research they have displayed more ingenuity than judgement; and some have fancied that it may have exitted as far back as the time of Aristotle; Dearchus, one of his disciples, having written several works of this amufing fpecies.

" Let us, however, be fatisfied in deriving it from the Theagenes and Chariclea of Heliodorus, a bishop who lived in the 4th century, and whose work has been lately translated. This elegant prelate was the Grecian Fenelon (A). Beautiful as these compositions are when the imagination of the writer is sufficiently flored with accurate observations on human nature, in their birth. like many of the fine arts, they found in the zealots of religion men who opposed their progress. However Heliodorus may have delighted those who were not infensible to the felicities of a fine imagination, and to the enchanting elegancies of style, he raifed himself, among his brother ecclefiaftics, enemies; who at length fo far prevailed, that it was declared by a fynod, that his performance was dangerous to young perfons, and that if the author did not suppress it, he must resign his bishopric. We are told he preferred his romance to his bishopric. Even so late as in Racine's time, it was held a crime to peruse these unhallowed pages. He informs us, that the first effusions of his muse were in confequence of studying that ancient romance, which his mafter observing him to devour with the keenness of a famished man, he snatched it from his hands and flung it in the fire; a fecond copy experienced the fame fate. What could Racine do? He bought a third, and took the precaution of devouring it fecretly till he got it by heart; after which he offered it to his mafter with a fmile to burn, if he chose, like the others.

The decision of these bigots was founded in their opinion of the immorality of fuch works. They alleged, that the writers paint too warmly to the imagination, address themselves too forcibly to the passions, and, in general, by the freedom of their representations, hove on the borders of indecency. This censure is certainly well-founded. Many of the old romances, and even of the dramas, acted in Scotland two centuries ago, are fuch as common profitutes would in this age think indecent. But we are at present concerned with the ori-

gin of romance.

"The learned Fleury thinks that they were not known till the 12th century, and gives as their original the history of the dukes of Normandy. Verdier, whose opinion is of no great weight, fays the invention of romance was owing to the Normans of France; and that these fictions being originally written in the old Norman language, they were entitled Normances; the name was afterwards altered to that of Romances. The Spaniards, who borrowed them from the French, called them Romanzes, which also did the Italians.

" Dom

<sup>(</sup>A) An ingenious and learned friend inquires, 'Is not the romance of the Golden Ass, by Apuleius, to be confidered as an earlier specimen than that of Heliodorus?" To this our author has no objection; but he would not warrant any romance to be the first that ever was written. It is thus that fome writers, more learned than fagacious, have discovered the first inventor of epistolary correspondence. A lady receives this honour : such learning is desperate! From the Asiatic Researches and other publications on Oriental literature, we are led to believe, that the native country of romance is the east; where it feems to have flourished in all its extravagant grandeur from time immemorial.

" Dom Rivet, one of the learned affociates of the congregation of St Manr, authors of the Literary Hitlory of France, fixes their origin in the 15th century. He fays, that the most ancient romance known was one which appeared in the middle of that century, under the title of Philomena, or the Beloved. This romance contains the pretended exploits of Charlemagne before Narbonne. At Toulouse, he tells us, they have preferved a copy of the Philomena in its original language; that is to fay, the Romaunt or polithed; fuch as was then spoken at court. They prescried this language to the Latin, which was then that of the common people, but vitiated with their corruptions.

" So far have we travelled on the road of conjecture: we shall now turn into the path of fact. It is certain that these compositions derive their name from the language in which they were first written. Abbe Iraild has given us the character of the earliest romances, which we shall transcribe; for to add to what is well expreffed, however it may pleafe the vanity of a writer,

feldom tends to the gratification of the reader.

'The first romances were a monitrous affemblage of histories, in which truth and fiction were equally blended, but all without probability; a composition of amorous adventures, and all the extravagant ideas of chivalry. The incidents are infinitely multiplied; deflitute of connection, of order, and art. These are the ancient and miferable romances which Cervantes, in his celebrated fatirical romance of Don Quixote, has cover-

ed with an eternal ridicule."

" It is, however, from these productions rather in their improved thate, that poets of all nations have drawn their richeft inventions. The agreeable wildness of that fancy which characterized the eaftern nations was caught by the crusaders. When they returned home, they mingled in their own the customs of each country. The Saracens, who were men like themselves, because they were of another religion, and were therefore their enemies, were pictured under the tremendous form of Paynim Giants. The credulous render of that day followed with trembling anxiety the Red-crofs Knight. It was thus that fiction embellished religion, and religion invigorated fiction. Such incidents have enlivened the cantos of Ariosto, and adorned the epic of Tasso. Spenser is the child of their creation; and it is certain that we are indebted to them for some of the bold and strong touches of Milton."

Other circumstances however have been assigned as the fources of these extravagant fictions. " Castles were erected to repulie the vagrant attacks of the Normans; and in France (from the year 768 to 987) these places became fatal to the public repose. The petty despots who raifed these castles, pillaged whoever passed, and carried off the females who pleafed them. Rapine, of every kind, was the privilege of Lords! Mezeray obferves, that it is from thele circumstances romancers have invented their tales of knights errant, moniters, and

" De Saint Foix, in his Historical Falays on this subject, thus expresses himself; ' Women and girls were not in greater fecurity when they puffed by abbeys. The monks fustained an affault rather than relinquish their prey : if they faw themselves losing ground, they brought to their walts he relics of fome faint. Then it generally happened that the affailants, feized with aw-

ful veneration, retired, and dared not to purfue their Romance. vengeance. This is the origin of the enchanters, of the enchantments, and of the enchanted castles, deleribed in romances.

" To these may be added what the author of Northern Antiquities, vol. i. p. 243, writes, that 'as the walls of the cattles ran winding round them, they often called them by a name which fignified ferpents or dragons; and in thefe were commonly fecured the women and young maids of dillinction, who were feldom fafe at a time when fo many bold warriors were rambling up and down in fearch of adventures. It was this custom which gave occasion to ancient romancers, who knew not how to describe any thing simply, to invent so many fables concerning princefles of great beauty,

guarded by dragons.'

"The Italian romances of the 14th century were fpread abroad in great numbers. They formed the polite literature of the day. But if it is not permitted to authors freely to express their ideas, and give full play to the imagination, these works must never be placed in the study of the rigid moralist. They indeed pushed their indelicacy to the verge of groffness, and feemed rather to feek than to avoid scenes which a modern would blush to describe. They (to employ the expectfron of one of their authors) were not athamed to name what God had created. Cinthio, Bandello, and others but chiefly Boccacio, rendered libertinism agreeable, by the falcinating charms of a polished style, and a luxuriant imagination.

"This however must not be admitted as an apology for immoral works; for poison is still poison, even when it is delicious. Such works were, and ftill continue to be, the favourites of a nation which is fligmatifed from being prone to illicit pleasures and impure amours. They are still curious in their editions, and are not parfimonious in their price for what they call an unceftrated copy. There are many Italians, not literary men, who are in possession of an ample library of the old

novelifts. " If we pass over the moral irregularities of these romances, we may discover a rich vein of invention, which only requires to be releafed from that rubbith which disfigures it to become of an invaluable price. The Decamerons, the Hecaton-miti, and the Novellas of thefe writers, made no inconfiderable figure in the little library of our Shakespeare. Chancer is a notorious imitator and lover of them; his Knight's Tale is little more than a paraphrase of Boccacio's Teseoide. Fontaine has caught all their charms with all their licentiousness. From fuch works, these great poets, and many of their contemporaries, frequently borrowed their plots; not uncommonly kindled at their flame the ardour of their genius; but bending too submissively to their own reculiar taste, or that of their age; in extracting the ore, they have not purified it of the alloy.

"We must now turn our contemplation to the French romances of the latt century. They were then carried to a point of perfection, which as romances they cannot exceed. To this the Affrea of D'Urfé greatly contributed. It was followed by the Illustrious Basia, the Great Cyrus, Clelia, &c. which, though not adapted to the prefent age, gave celebrity to their authors. Their flyle, as well as that of the Aftrea, is diffuse and infipid. Zaide (attributed by fome to Segrais, but by

Romance Huct to Madame La Fayette) and the princess of Cleves are translated, and though they are mafterpieces of the kind, were never popular in our country, and are little adapted to its genius.

" It is not furprifing that romances have been regarded as pernicious to good fense, morals, taste and literature. It was in this light they were confidered by Boileau: because a few had succeeded, a crowd imitated their examples. Gomberville and Soudery, and a few more were admired; but the fatirist diffolyed the illusion. This he did most effectually by a dialogue, in which he ridicules those citizens of a certain district, whose characters were concealed in these romances, under the names of Brutus, Horace Cocles, Lucretius, and Clelia. This dialogue he only read to his friends, and did not give it for a long time to the public, as he eiteemed Mademoifelle de Scudery : but when at length it was published, it united all the romance writers against our fatirist.

" From romances, which had now exhausted the patience of the public, fprung novels. They attempted to allure attention by this inviting title, and reducing their works from ten to two volumes. The name of romance difgusted; and they substituted those of histories, lives, memoirs, and adventures. In these works (observes Irail) they quitted the unnatural incidents, the heroic projects, the complicated and endless intrigues, and the excrtion of noble pattions; heroes were not now taken from the throne, they were fought for even amongst the lowest ranks of the people. On this fubject, I shall just observe, that a novel is a very dangerous poifon in the hand of a libertine; it may be a falutary medicine in that of a virtuous writer." See

ROMAGNA, a province of Italy, in the pope's territories, bounded on the north by the Ferrarefe, on the fouth by Tufcany and the duchy of Urbino, on the east by the gulf of Venice, and on the west by the Bolognese and a part of Tuscany. It is fertile in corn, wine, oil, fine fruits, and pastures. It has also mines, mineral waters, and falt-works, which make its principal

revenue. Ravenna is the capital town.

ROMANIA, a province of Turkey in Europe, bounded on the north by Bulgaria, on the east by the Black fea, on the fouth by the Archipelago and the fea of Marmora, and on the west by Macedonia and Bulgaria; being 200 miles in length and 150 in breadth. It was formerly called Thrace, and is the principal and largest of all the provinces the Turks posfels in Europe. It is a fruitful country in corn and pastures, and there are mines of filver, lead, and alum, It is divided into three great governments or fangiacates; namely, Kirkel, of which Philipoli is the capital; Galipoli, whose capital is of the same name; and Byzantium, or Byzia, or Viza, of which Con-flantinople is the capital. The Turks bestow the name of Romelia on all the territories they possess in

ROMANO, GIULIO, a famous painter, was the disciple of Raphael, who had such an affection for him, that he appointed him, with John Francis Penni, his heir. His conceptions were more extraordinary and more clevated than even those of his master, but not fo natural. He was wonderful in the choice of attitudes; but did not perfectly understand the lights and Romano, shades, and is frequently harsh and ungraceful. The folds of his draperies, fays Du Freinoy, are neither beautiful nor great, easy nor natural, but all extravagant, like the fantallical habits of comedians. He was, however, superior to most painters, by his profound knowledge of antiquity; and, by converfing with the works of the most excellent poets, particularly Homer, he made himfelf matter of the qualifications necessarily required in a great defigner. Julio Romano was allo well skilled in architecture. He was employed by Cardinal de Medicis, who was afterwards pope under the name of Clement VII.; and afterwards went to Mantua. whither he was invited by Frederic Gonzaga, marquis of that city, in order to avoid his being juftly punished for his having drawn at Rome the defigns of 20 obfcene plates, engraved by Mark Antony, to which Aretine added the fame number of fonnets. Julio Romano embellished the city of Mantua with many of his performances both in painting and architecture; and died in that city in 1545, at 45 years of age, much regretted by the marquis, who had an extraordinary friendthip for him.

ROME, a very ancient and celebrated city of Italy, fituated on the river Tiber, in E. Long. 13°. N. Lat. 41. 45. once the capital of the greatest empire in the world; and famous in modern history for being the centre of an ecclefiattical tyranny, by which for many ages the greatest part of the world was held in subjection.

The ancient Romans derived their origin from Æ-Romans deneas the Trojan hero; and though fome historians pre-feended tend to treat his voyage into Italy as a mere fable, yet from Atno fufficient reasons for rejecting this account have been

offered, nor has any more probable hitlory of the origin of the Roman name been given; fo that, without entering into the difpute, we shall proceed to the history of Æneas and his successors as they are recorded by the

generality of Latin writers.

When the Greeks, by the treachery of the fons of Antenor, or by whatever other means it happened, were become matters of Troy, Æneas with the forces under his command retired into the fortress of the city, and defended it bravely for fome time; but yielding at length to necessity, he conveyed away his gods, his fa- Eneas flies ther, wife, and children, with every thing he had that from Troy was valuable, and, followed by a numerous crowd of to Mount Trojans, fled to the flrong places of Mount Ida. Hi-tda. ther all those of his countrymen, who were more anxious than the rest to preserve their liberty, slocked to him from the feveral towns of Troas. His army thus augmented and advantageously posted, he continued quiet, waiting for the departure of the Greeks, who it was imagined, would return home as foon as they had pillaged the country. But thefe, after they had enriched themselves with the spoils of Troy and of the neighbouring towns, turned their arms against the fagitives, refolving to attack them in their strong-holds upon the mountain. Æneas, to avoid the hazard of being forced in his last refuge, had recourse to negociation; and, by his heralds, intreated the enemy not Makes to confirmin him to a battle. Peace was granted him, care with on condition that he with his followers quitted the Trojan territories; and the Greeks, on their part, promi his coun-P 2

Rome. fed not to molest him in his retreat, but to let him fafely pass through any country within the extent of

their domination.

Upon this affurance Æneas equipped a fleet, in order to feek a settlement in some foreign land. We are told, that at his departure he left his eldest son Ascanius with the Dasylites, a people of Bithynia, who defired to have him for their king; but that the young prince did not remain long with them: for when Sca-mandrius (Aftyanax), with the rest of the Hectoridae whom Neoptolemus permitted to return home from Greece, repaired to him, he put himfelf at their head,

and led them back to their native country.

The Trojan, having croffed the Hellefpont, arrived in the peninfula of Pallene, where he built a city, called from him *Æncia*, and lest in it a part of that multitude which had followed him. From thence he sailed to Delos; and thence to Cythera, where he erected a temple to Venus. He built another to the same god-dess in Zacynthus, in which island he likewise instituted games, called the races of Eneas and Venus: the statues of both, fays Dionysius, are standing to this day. In Leucas, where the Trojans landed, was to be feen, in the same author's time, a temple erected to Venus the mother of Æneas. Nor were Actium and Ambracia without monuments that testified his arrival in those places. At Dodona were found brazen vases, upon which the name of the Trojan hero, who had made an offering of them to Jupiter, was engraven in old characters. Not far from Buthrotos, in Epirus, a Trojan camp which had escaped the injuries of time, retained the name of Troja. All these antiquities, still fubfilling in the reign of Augustus, were then looked upon as indisputable proofs of Æneas's voyage to Epirus: " and that he came into Italy (adds the same Dionyfius) we have the concurrent testimony of all the Romans; the ceremonies they observe in their facrifaces and festivals bear witness to it, as also the Sibylline books, the Pythian oracles, and many other things which nobody can reasonably reject as invented merely for ornament."

The first land of Italy which Æneas made, after croffing the Ionian fea, was Cape Minerva, in Iapygia; and here he went on fliore. Sailing afterwards from hence, and coasting along the south east of Italy and the east and south sides of Sicily, he arrived with his fleet either by choice or by stress of weather at the port of Drepanum in that island. Elymus and Ægestus, who had escaped from Troy a little before him, had brought a Trojan colony to this place. Æneas augmented it by a good number of his followers, whom, pleafed to have found a fafe refting place after many dangers and fatiguing voyages, he willingly left behind him at their request; though certain authors pretend that he was constrained to it by the difficulty of transporting them, because some Trojan women, weary of the sea, had

burnt a confiderable part of his ships.

Æneas, leaving Drepanum, steered his course for Italy across the Tyrrhenian sea. To the cape where he first landed, he gave the name Palinurus, from one of his pilots who died there. The little island of Leucafia, not far diftant, whither he failed next, got its name in like manner from a daughter of Æneas's fifter, who there ended her days. The port of Misenum, the island of Prochyta, and the promontory of Cajeta, where he fucceffively arrived, were fo called from being the bu-rial places, the first of a noble Trojan his companion, the fecond of his kinfwoman, and the third of his nurse. At length the Trojan prince and his chosen band finished their tedious and painful voyages on the coast of the fince famous Latium. This was a fmall Lands in territory on the east fide of the river Tiber, contain-Italy. ing a part of the prefent Campagna di Roma: Latinus was the king of it; his capital town, Laurentum; his fubjects, a people who, till his time called Aborigines, had from him taken the name of Latins. Here, far removed from their implacable enemies the Greeks, ALneas and his followers undertook to raife a fecond Troy; they fortified a camp near the mouth of the Tyber, gave it the name of Troy, and flattered themselves with the

When Æneas arrived in Italy, Latinus was engaged

hopes of a quiet fettlement, and a period to all their unhappy adventures.

in a war with the Rutuli, a neighbouring people, in which he was attended but with very indifferent fuccess, when news was brought him that a foreign army had made a descent on his coasts, pillaged the maritime part of his dominions, and were fortifying themselves in a camp at a small distance from the sea. Hereupon he marched against them with all his forces, hoping to oblige them to reimbark and abandon his dominions, without meeting with any great refistance from a band of vagabonds, as he supposed, or pirates, come only to seek for plunder : but finding them, as he drew near, well-armed, and regularly drawn up, he thought it advisable to forbear engaging troops that appeared fo well disciplined; and, instead of venturing a battle, to defire a parley. In this conference Latinus understanding who they were, and being at the same time struck with terror, and touched with compassion for those brave but unfortunate men, entered into a treaty with them, and affigned them a tract of land for a fettlement, on condition that they should employ their arms and exert their valour in defence of his dominions, and look upon the Rutuli as a common enemy. This condition Æneas readily accept- Enters into ed; and complied with his engagement fo faithfully, an alliance that Latinus came at length to repose an entire confi-with Latidence in the Trojan; and in proof of it gave him La-nus, and vinia, his daughter and only child, in marriage, fecur. marries his ing to him by that means the fuccession to the throne of daughter. Latium. Æneas, to testify his gratitude to Latinus, and affection for Lavinia, gave her name to the camp

In the mean time Turnus, the queen's nephew, who had been brought up in the palace under the eye of Latinus, and entertained hopes of marrying Lavinia and fucceeding to the throne, feeing the princefs beflowed on a stranger, and all his views defeated, went over to the Rutuli; and by ffirring them up, brought on a battle between them and the Latins, in which both he and Latinus were killed. Thus Æneas, by the death of his father-in-law, and by that of a troublesome rival, came into the quiet possession of the kingdom of Latium, which he governed with great wisdom, and transmitted to his posterity.

he had pitched; and instead of Troy called it Lavi-nium. The Trojans followed the example of their

leader; and by making alliances with Latin families, be-

came, in a short time, one and the same people with the

Æncas is faid to have reigned three years; during

which

7 Succeeded

by his fon

Ascanius,

which time he established the worship of the gods of his own country, and to the religion of the Latins added that of Troy. The two Palladiums, which had been the protectors of that city, became the tutelary deities of Lavinium, and, in after ages, of the whole Roman empire. The worship of Vesta was likewise introduced by Æneas; and virgins, from her called Vestals, were appointed to keep a fire continually burning in honour of that goddes. Jupiter, Venus, and many other deities who had been revered in Troy, became in all likelihood, known to the Latins by means of Æneas; which gave occasion to the poets of representing him under the character of a pious hero.

While Æneas was thus employed, the Rutuli, ancient enemies of the Latin name, entering into an alliance with Mezentius king of the Tyrrhenians, took the field with a defign to drive out those new-comers, of whose power they began to conceive no finall jealouly. Alzeas marched out against them at the head of his Trojans and Latins. Hereupon a battle ensued, which lasted till night; when Æneas being pushed to the banks of the Numicus, which ran close by Lavinium, and forced into that river, was there drowned. The Trojans conceased his body; and pretending that he had vanished away on a sudden, made him país for a deity among his credulous subjects, who accordingly erected a temple to him under the title

of Jupiter Indiges.

Upon the death of Æneas, his fon Euryleon, called also Ascanius and Iulus, ascended the throne; but as the young king did not think it advisable to venture a battle in the very beginning of his reign, with a formidable enemy, who promifed himself great success from the death of Æneas, he had the prudence to confine himself within the walls of Lavinium, and to try whether he could, by an honourable treaty, put an end to fo dangerous a war. But the haughty Mezentius demanding of the Latins, as one of the conditions of a peace, that they (hould pay him yearly, by way of tribute, all the wine produced in the territory of Latium, Ascanius rejected the proposal with the utmost indignation; and having caused all the vines throughout his dominions to be confectated to Jupiter, and by that means put it out of his power to comply with the enemy's request, he resolved to make a vigorous fally, and try whether he could, by force of arms, bring the infulting Tyrrhenian to more reasonable terms. main body of the enemy's army was encamped at some distance from Lavinium; but Lausus, the son of Mezentius, with the flower of their youth under his command, lay entrenched at the very gates of the city. The Trojans, who had been long accustomed to make vigorous fallies, marching out in the night, attacked the post where Lausus commanded, forced his entrenchments, and obliged the troops he had with him to fave themselves by flying to the main body of the army encamped on the plain; but the unexpected arrival and overthrow of their advance guard struck them with such terror, that, instead of stopping the slight of their companions, they fled with them, in great diforder, to the neighbouring mountains. The Latins purfued them, and in the pursuit Laufus was killed; whose death so discouraged Mezentius, that he immediately sued for peace; which was granted him, upon condition, that for the future the Tiber should be the boundary between the Latin and Hetrurian territories.

In the mean time Lavinia, who had been left with Rome. child by Æneas, entertaining a ftrong jealoufy of the ambition of her fon-in-law, retired to the woods, and His kindwas there peaceably delivered of a fon, who, from his ness to Lafather, was named *Eneas*, and, from the place of his win and birth, had the furname of *Sylvius*: but as the queen's her fon. flight, who had disappeared on a sudden, raised suspicions at Lavinium prejudicial to the reputation of Afcanius, he used all possible means to remove them, caufed diligent fearch to be made after Lavinia, calmed her fears, and prevailed upon her to return to the town with her fon, whom he ever after treated as a brother. Lavinium grew every day more populous; but as it was in reality the patrimony of Lavinia, and the inheritance of her fon Sylvius, Afcanius refolved to refign it to them, and build elsewhere another city for himfelf. This he made the place of his refidence, and the capital of his new kingdom, calling it Alba Longa; Refigns the Alba, from a white fow, which we are told Æneas kingdom. had found in the place where it was built; and Longa, Alba Lonto dillinguish it from another town of the same name ga. in the country of the Marsi; or rather, because it extended, without having much breadth, the whole length of a lake near which it was built. It was 30 years after the building of Lavinium that Ascanius fixed his abode at Alba; and there he died, after a reign of about 38 years, 12 of which he had retided at his new fettlement. He left a fon called Iulus; fo that between him and Sylvins lay the right of succession to the Latin throne; the latter being the fon, and the former the grandson, of Æneas.

The Latins not thinking it their interest to continue divided, as it were, into two states, resolved to unite Alba and Lavinium into one fovereignty; and as Sylvius was born of Lavinia the daughter of Latinus, and had thereby an undoubted title to the kingdom of his grandfather, whereas the other was but the fon of a Both flates itranger, the Latins bestowed the crown on Sylvius; united. and, to make Iulus fome amends, decreed to him the fovereign power in affairs of religion; a power which thenceforth continued in his family. Sylvius was fucceeded by 13 kings of the same race, who for near 400 years reigned at Alba; but we fcarce know any thing of them besides their names, and the years of their respective reigns. Æneas Sylvius died, after a reign of 20 years. His fon, called also Eneas Sylvius, governed Latium 31 years. Latinus Sylvius, who succeeded him, fwayed the fceptre for the space of 51 years .-Alba reigned 39; Capetus, by Livy named Atys, 26; Capis, 28; and Capetus, 13. Tiberinus, who fuccecded him, engaged in a war which proved fatal to him; for in a battle which was fought on the banks of the Albula, he was forced into that river and drowned. From him the river took the name of Tiber, which it origin of has borne ever fince. Agrippa fucceeded Tiberinus the name after a reign of eight years; and left the throne, which Tiber. he had held 41 years, to Alladius; who reigned 19, and was succeeded by Aventinus, who left his name to the hill Aventinus, where he was interred. Procas, who fucceeded him, and reigned 23 years, was the father of Numitor and Amulius; and at his death bequeathed the throne to his elder fon Numitor. But Amulius, who furpaffed his brother in courage and understanding, drove him from the throne; and to fecure it to himfelf, murdered Ægestus, Numitor's only son, and confecrate1

who defeats the Rutuli. of Rhea Sylvia.

fed by a wolf.

crated his daughter Rhea Sylvia to the worship of Vesta, by which she was obliged to perpetual virginity. Alvertures But this precaution proved ineffectual; for as the Veftal was going to a neighbouring spring to fetch water for the performance of a facrifice to Mars, the was met and ravished by a man in a military habit, like that in which the god Mars is represented. Some authors think that this counterfeit Mars was a lover come thither by her appointment; others charge Amulius himfelf with using this violence to his niece, not so much to gratify his luft, as to have a pretence to defroy her .-For ever after he caused her to be carefully watched, till the was delivered of two fons; and then exaggerating her crime in an affembly of the people, he prevailed upon them to fentence her to death, and to condemn the fruit of her criminal amour to be thrown into the Of Romu- Tiber. The fentence against Rhea was, according to lus and Re-fome authors, changed by Amulius, at the request of his daughter Antho, into perpetual confinement, but executed against the twins; who being laid in a wooden trough, and carried to the foot of Mount Palatine, were there turned adrift on the Tiber, which at that time overflowed its banks. But the wind and ffream proved both fo favourable, that at the fall of the water the two infants were left fafe on the ftrand, and were there happily found by Faustulus, the chief of the king's shepherds, and fuckled by his wife Acca Laurentia, who for her diforderly life was called Lupa; and this probably gave rife to the fabulous miracle of their being nur-

> As Faustulus was probably well acquainted with the birth of the twins, he took more than ordinary care of their education, and fent them to Gabii to be instructed there in Greek literature. As they grew up, they appeared to have something great in their mien and air which commanded respect; and the ascendant which they assumed over the other shepherds made them dreaded in the forests, where they exercised a fort of empire. A quarrel happening between the herdfmen of Amulius and those of Numitor, the two brothers took the part of the former against the latter; and some blood being shed in the fray, the adverse party, to be revenged on Romulus and Remus (for fo the twins were called), on the feltival of Lupercaiia, furprifed Remus, and carried him before Numitor, to be punished according to his deferts. But Numitor feeling himfelf touched in the prisoner's favour, asked him where he was born, and who were his parents. His answer immediately flruck Numitor with a lively remembrance of his two grandfons; their age, which was about 18 years, agreed with the time when the two infants were exposed upon the Tiber; and there needed no more to change his anger

In the mean time Romulus, eager to rescue his brother, and purfue those who had carried him off, was preparing to be revenged on them; but Faustulus diffuaded him from it; and on that occasion, disclosing to him his birth, awakened in his breaft fentiments worthy of his extraction. He refolved, at all adventures, to attempt the delivering of his mother and grandfather from oppression. With this view he assembled the country people, over whom he had assumed a kind of sovereignty, and engaged them to come to the city on an appointed day, and enter it by different gates, provided with arms, which they were to conceal. While Romulus was thus disposing every thing for the execution Rome. of his delign, Numitor made the fame discovery to Remus concerning his parents, and the oppressions they groaned under; which fo fired him, that he was ready to embark in any enterprife. But Numitor took care to moderate the transports of his grandion, and only defired him to acquaint his brother with what he had heard from him, and to fend him to his house. Romulas foon came, and was followed by Faustulus, who took with him the trough or fkiff in which the twins had been exposed, to show it to Numitor: but, as the shepherd betrayed an air of concern and earnestness in his luoks, he was stopped at the gate of the city, led before Amulius, and examined concerning his burden. was eafily known by its make and infeription, which was still legible; and therefore Faustulus owned what it was, and confessed that the twins were living; but, in order to gain time, pretended that they were feeding flocks in a remote defert. In the mean time, the usurper's death being resolved on, Remus undertook to raise the city, and Romulus to invest the king's palace. The country people came at the time appointed, and formed themselves into companies each confishing of 100 men. They had no other enfigns but bundles of hay hanging upon long poles, which the Latins at that time called manipuli; and hence came the name of manipulares, originally given to troops raised in the country. With this tumultuous army Romulus beset the avenues of the palace, forced the guard, and having killed the tyrant, after he had reigned 42 years, restored his grandfather Numitor to the throne.

Affairs being thus fettled at Alba, the two brothers, They reby the advice of Numitor, undertook the founding of afolve to new colony. The king beltowed on them those lands found a near the Tiber where they had been brought up, fup-colony.

plied them with all manner of instruments for breaking up ground, with flaves, and heafts of burden, and granted full liberty to his subjects to join them. Hereupon most of the Trojans, of whom there still remained 50 families in Augustus's time, chose to follow the fortune of Romulus and Remus, as did also the inhabitants of Pallantium and Saturnia, two fmall towns. For the more speedy carrying on of the work, it was thought proper to divide those who were to be employed in the building of the city into two companies, one under the command of Romulus, the other of Remus; but this division, which was defigned purely with a view to the public welfare, and that the two parties might work by way of emulation, gave birth to two factions, and produced a jealoufy between the two brothers, which broke out when they came to choose a place for the building of their new city; for Remus was for the Aventine, and Romulus for the Palatine mount. Upon which, the matter being referred to their grandfather, he advised the contending parties to have recourse to the gods, and to put an end to the dispute by augury, to which he was himself greatly addicted. The day appointed for the ceremony being come, the brothers posted themfelves each upon his hill; and it was agreed, that whoever should see the first flight, or the greatest number, of vultures, should gain his cause. After the two rivals had waited some time for the appearance of a favourable omen, Romulus, before any had appeared, fent to acquaint his brother that he had feen fome vultures; but Remus, having actually feen fix, while his brother's mellengers

Rome. meffengers were yet on their way, hailened, on their ar-

Death of Remus.

of Rome.

rival, to Mount Palatine, to examine the truth of what they had cold him. He had no fooner got thither, than by an unexpected good fortune twelve vultures appeared to Romulus. These he immediately showed to his brother; and, transported with joy, defired him to judge himfelf of the truth of what his mellengers had told him. However, Remus discovered the deceit; and, being told that Romulus had not feen the twelve vultures till after he had feen fix, he incided on the time of his feeing them, and the other on the number of birds he had feen. This widened the breach between the two brothers; and, their parties being divided, while each man elpoufed the cause of his leader, the dispute grew so warm, that, from words they came at length to blows. The thepherd Faultulus, who was equally dear to both the brothers, endeavouring to part the combatants, was, by an unknown hand, laid dead on the foot. Some writers tell us, that Remus likewife loft his life in the fray; but the greater number place his death later, and fay that he was killed by one Fabius, for having, in derifion, leaped over the wall of the new city: but Livy fays, the more common report was, that Remus fell by the hand of his brother.

Foundation Romulus, being now head of the colony, by having got the better of his brother's party in the late engagement, applied his thoughts wholly to the building of the city, which he proposed to call after his own name. He chofe Mount Palatine for its fituation, and performed all those ceremonies which the superstition of the Hetrurians had introduced. He first offered facrifices to the gods, and ordered all the people to do the fame : and from that time decreed, that eagles should be the auspices of his new colony. After this, great fires were kindled before their tents, and all the people leaped through the flames to purify themfelves. When this ceremony was over, they dug a trench round the fpot where the affemblies of the people were afterwards held, and threw into it the first-fruits of whatever they were allowed to make use of for food : every man of the colony was ordered to cast into the same trench an handful of earth, brought either from his own or fome neighbouring country. The trench they called Mundus, that is, the world, and made it the centre round which the city was to be built. Then Romulus, voking an ox and a cow to a plough, the coulter whereof was brafs, marked out, by a deep furrow, the whole compafs of the city. These two animals, the symbols of marriage, by which cities are peopled, were afterwards flain upon the altar. All the people followed the plough, throwing inwards the clods of earth which the ploughshare sometimes turned outwards. Wherever a gate was to be made, the plough was lifted up, and carried; and hence came the Latin word porta, "a gate," derived from the verb portare, "to carry." As Mount Palatine flood by itself, the whole was inclosed within the line made by the plough, which formed almost the figure of a square; whence, by Dionysius Halicarnasfensis, it is called Roma Quadrata.

As to the exact year of the foundation of Rome, there is a great difagreement among historians and chronologers. Fabius Pictor, the most ancient of all the Roman writers, places it in the end of the seventh Olympiad; that is, according to the computation of Uther, in the year of the world 32;6, of the flood 1600, and 748 Rome. before the Christian era. The Romans, if we may fo call them, began to build, as Plutarch and others inform us, on the 21st of April; which day was then confecrated to Pales, goddess of the shepherds; wheree the fettival of Pales, and that of the foundation of the ci y, were afterwards jointly celebrated at Rome. '

When Rome had received the atmost perfection which at 6r0 but its poor and rude founder could give it, it confilled of poor viaabout 1000 houses, or rather buts; and was, properly lage. fpeaking, a beggarly village, whereof the principal inhabitants followed the plough, being obliged to caltivate with their own hands the ungrateful foil of a barren country which they had fliared among themielves; Even the walls of Homulus's palace were made of ruthes, and covered with thatch. As every one had chosen his ground to build upon, without any regard to the regularity and beauty of the whole, the ffreets, if we may fo call them, were both crooked and narrow. In fhort, Ronce, till it was rebuilt after the burning of it by the Gauls, was rather a diforderly heap of huts, than a city

built with any regularity or order. As foon as the building of the city was finished, Ro-Rom Ins

mulus assembled the people, and defired them to choose elected what kind of government they would obey. At that king. time monarchy was the unanimous voice of the Romans, and Romulus was elected king. Before he afcended the throne, however, he confulted the will of the gods by augury; and having received a favourable answer, it thence became an established custom to have recourse to augury before the raifing any one to the dignity of king, prieft, or any public employment. After this he applied himself to the establishment of good order and subordination among his fubjects. He put on a habit of distinction for himfelf, appointed 12 lictors to attend him as guards, divided his fubjects, who at this time confilted only of 33,000 men, into curia, decuria, patricians, plebeians, patrons, clients, &c. for an account of which, fee these articles as they occur in the order of the alphabet. After this he formed a fenate confifting of 100 persons, chosen from among the patricians; and a guard of 300 young men called celeres, who attended the king, and fought either on foot or on horseback as occasion required. The king's office at home was to take care of religions affairs, to be the guardian of laws and customs; to decide the weightier causes between man and man, referring those of smaller moment to the fenate; to call together the fenators, and affemble the people, first delivering his own opinion concerning the affair he proposed, and then ratifying by his consent what was agreed on by the majority. Abroad, and in the time of war, he was to command the army with abfolute authority, and to take care of the public money. The fenate were not only to be judges in matters of fmall importance, but to debate and refolve upon fuch public affairs as the king proposed, and to determine them by a plurality of voices. The people were allowed to create magistrates, enact laws, and resolve upon any war which the king proposed; but in all these things the confent of the fenate was necessary.

Romulus next proceeded to fettle the religious affairs of his people. Many of the Trojan and Phrygian deities were added to those whom the Aborigines or Italian natives already worthipped. He cho'e priefls, inflitteed festivals, and laid the foundation of a regular

Rome. fystem of religion; after which, as his colony was still thinly peopled, he opened an afylum for fugitive flaves, homicides, outlaws, and debtors. Thefe, however, he did not at first receive within the walls, but appointed for their habitation the hill Saturnius, called afterwards Capitolinus, on which he crected a temple to a divinity of his own invention, whom he named the Afylean god, under whose protection all criminals were to live fecurely. But afterwards, when the city was enlarged, the afylum was inclosed within the walls, and those who dwelt in it included among the citizens of Rome.

Rape of the men

When Romulus had thus fettled every thing relating Sabine wo- to his new colony, it was found that a supply of women was wanting to perpetuate its duration. This occasioned fome difficulty; for the neighbouring nations refused to give their daughters in marriage to fuch a crew of vagabonds as had fettled in Rome; wherefore Romulus at last resolved on the following expedient. By the advice of his grandfather Numitor, and with the confent of the fenate, he proclaimed a folemn feast and public games in honour of the Equestrian Neptune called Confus. This occasioned a great concourse of people, who flocked from the adjacent parts to behold these pompous shows, together with the new city. But, in the midst of the folemnity, the Romans, rushing in with their fwords drawn, feized all the young women, to the number of 683, for whom Romulus chose husbands. Among all those who were thus seized, only one married woman, named Herfilie, was found; and Romulus is faid to have kept her for himfelf.

eccafions tions.

Rome en-

larged.

This violence foon brought on a war with the neighbouring nations. Acron, king of Cænina, a city on bouring nathe confines of Latium, having entered into a league with the inhabitants of Crustuminum and Antemnæ, invaded the Roman territories. Romulus marched against them without delay, defeated the confederate army, killed their king in fingle combat, decreed himfelf a triumph, and confecrated the spoils of Acron to Jupiter Feretrius, under the name of Opima Spolia. The city of Canina was razed to the ground, and the inhabitants transplanted to Rome, where they were admitted to the privileges of citizens. The king then marched with one legion (confifting at this time of 3000 foot and 300 horse) against the Crustumini and Antennates, both of whom he defeated in battle, and transplanted the inhabitants to Rome; which being incapable of holding fuch a number, Romulus took in the hill Saturnius above mentioned, on the top of which he built a citadel, committing the care of it to a noble Roman named Tarpeius. The citadel was furrounded on all fides with ramparts and towers, which equally commanded the city and country. From the foot of the hill Saturnius a wall was carried on quite to the Tiber, and a gate opened in it named Carmentalis, from Carmenta the mother of Evander, who either lived there, or had fome chapel or altar erected to her.

Romulus had now become so formidable to his neighbours, and had fo well established his reputation for clemency, that feveral cities of Hetruria voluntarily fubmitted to him. Cœlius, an Hetrurian general, led the troops under his command to Rome, and fettled on a hill near the city, which from him took the name of Mount Calius. The Sabines, however, not in the least difmayed at this increase of the Roman forces, sent a deputation to Romulus, demanding restitution of the young women who had been carried off; and, upon his refu- Romefal, marched to Rome with an army of 25,000 foot and 1000 horse, under the command of their king Titus Invasion of Tatius. Romulus, having received supplies from Nu-the Sabines. mitor and from Hetruria, likewife took the field, with 20,000 foot and 800 horse, with whom he seized an advantageous post, and fortified himself so strongly, that he could not be attacked. The Sabine monarch, perceiving the military skill of Romulus, began to be apprehensive of the event; but was extricated out of his difficulties by the treachery of Tarpeia daughter to the The citadel governor of the citadel, who agreed to betray that im-belieged. portant fortrefs to the enemy, on condition of being rewarded with the bracelets which the Sabines wore on their left arms. But when once they became masters of this important place, they are faid to have crushed Tarpeia under the weight of their bucklers, pretending that thus they discharged their promise, as they wore their bucklers also on their left arms. The possession of the citadel enabled the Sabines to carry on the war with more fuccess; but, at last, in a general engagement. they had the misfortune to be driven back into the citadel, whither they were purfued by the Romans, who expected to have retaken that important post; but the enemy, rolling down great stones from the top of the hill, wounded Romulus on the head, fo that he was carried infensible out of the field of battle, while, in the mean time, his troops were repulfed, and purfued to the very gates of Rome. However, the king foon recovering himfelf, encouraged his routed troops, and drove the enemy back into the citadel. But while the two nations were thus fiercely contending, the women, for whose cause the war had been commenced, undertook the office of mediators; and having obtained leave from the fenate, marched in a body to the camp of the Sabines, where they pleaded the cause of their husbands fo effectually, that a treaty of union between the two nations was fet on foot, and a peace was at last concluded, on the following terms. I. That the two Peace COHkings should reside and reign jointly at Rome. 2. That cluded, and kings should reside and reign jointly at Rome. 2. That the two na-the city should still, from Romulus, be called Rome; the two nabut the inhabitants Quirites, a name till then peculiar tion to the Sabines. 3. That the two nations should become one; and that the Sabines should be made free in Rome, and enjoy all the privileges of Roman citizens. As Rome was chiefly indebted for this increase of her power and splendor to the Sabine women, honourable privileges and marks of diffinction were allowed them. Every one was commanded to give way to them; in capital causes they were exempted from the jurisdiction of the ordinary judges; and their children were allowed to wear a golden ball hanging from their necks, and a particular kind of robe called pratexta, to diffinguish them from the vulgar.

The two kings reigned with great harmony for the space of five years; during which time the only military exploit they accomplished was the reduction of the city of Cameria, at a fmall distance from Rome. Four thoufand of the Camerini were transplanted to Rome, and a Roman colony fent to repeople Cameria; foon after which the Sabine king was murdered by the Lavinians, Tatius muron account of his granting protection to some of his deted. friends who had ravaged their territories. The Lavinians, fearing the refentment of Romulus, delivered up the affaffins into his hands; but he fent them back un-

punished, which gave occasion to suspect that he was not displeased with the death of his colleague.

Soon after the death of Tatius, Rome was afflicted with famine and pettilence, which encouraged the Camerini to revolt; but Romulus marching against them fuddenly, defeated them with the loss of 6000 men. After which he attacked the Fidenates, whose city flood about five miles from Rome, took their capital, and made it a Roman colony. This drew upon him the refentment of the Veientes, a powerful nation in the neighbourhood, who claimed Fidenæ as within their jurisdiction; but their forces being defeated in two engagements, and a great number of them taken prisoners, they were obliged to sue for peace. Romulus granted them a truce for 100 years, on condition that they delivered to him feven fmall towns on the Tiber, together with some falt-pits near the mouth of that river, and fent 50 of their chief citizens as hostages to Rome. The prisoners taken in this war were all fold for flaves.

The remaining part of the life of Romulus was spent in making laws for the good of his people; but towards the latter end of his reign, being elated with fuccess, he began to enlarge the bounds formerly fet to his prerogative, and to behave in an arbitrary manner. He paid no longer any regard to the voice of the fenate, but affembled them only for form's fake to ratify his commands. The fenate therefore conspired to destroy him, and accomplished their purpose while he was reviewing his troops. A violent from of hail and thunder dispersed the army; and the senators taking this opportunity, when they were left alone with the king, inflantly killed him, and conveyed his body out of fight. Some writers tell us, that, the better to conceal the fact, they cut his body in pieces, each of them carrying away a part under his robe; after which they told the multitude, that their king was on a fudden furrounded by flame, and fnatched up into heaven. This stratagem, however, did not fatisfy the foldiery, and violent diffurbances were about to enfue, when Julius Proculus, a fenator of great distinction, having assembled the curiæ, told them that Romulus had appeared to him, and enjoined him to acquaint the people, that their king was returned to the gods from whom he originally came, but that he would continue to be propitious to them under the name of Quirinus; and to the truth of this story Julius swore.

Romulus reigned, according to the common computation, 37 years: but some historians reduce the length of his reign to little more than 17; it being very unlikely, as they observe, that a prince of such an active disposition should perform nothing worthy of record during a period of 20 years. Be this as it will, however, His death followed by the death of Romulus was followed by an interregnum,

an interreg-during which the fenators, to prevent anarchy and confusion, took the government into their own hands. Tatius added another hundred to that body; and these 200 fenators divided themselves into decuries or tens. These decuries drew lots which should govern first; and the decury to whose lot it fell enjoyed the supreme authority for five days; yet in such a manner, that one person only of the governing decury had the enfigns of fovereignty at a time. To these another decury succeeded, each of them fitting on the throne in his turn, &c. But the people foon growing weary of fuch fre-Vol. XVIII. Part I.

quent change of mafters, obliged the fenate to refolve Rome. on the election of a king. The fenate referred the election to the people, and the people to the fenate, who at last undertook the task. Some difficulties, however, occurred: the Romans did not choose to be subject to a Sabine; and the Sabines, as they had been subject to Romulus after the death of Tatius, infifted that the king should be chosen out of their nation. At last it was agreed, that the king should be a Sabine, but that the Romans should make the choice.

In confequence of this determination, the Romans Numa elected Numa Pompilius, an austere philosopher, who Pompilius had married Tatia, the daughter of Tatius the late the fecond king. After the death of his wife, he gave himself en-king. tirely up to philosophy and superstition, wandering from folitude to folitude, in fearch of facred woods and fountains, which gave the people a great opinion of his fanctity. The philosopher at first rejected the offer of the kingdom; but being at last prevailed upon, he set out for Rome, where he was received with loud acclamations, and had his election unanimously confirmed by the fenate.

The reign of Numa is by no means memorable for battles or conquests. He was averse to war; and made it his fludy to loften the manners of the Romans, rather than to exalt them to superiority over their neighbours. He dismissed the celeres, encouraged agriculture, and divided the citizens into diffinct bodies of tradefmen. This last measure he took on purpose to abolish the distinction between Romans and Sabines, which had hitherto rent the city into two factions; and this effectually answered his end; for now all of each particular profession, whether Romans or Sabines. were obliged to affociate together, and had each their respective courts and privileges. In this division the muficians held the first rank, because they were employed in the offices of religion. The goldfmiths, carpenters, curriers, dyers, tailors, &cc. formed also distinct communities; and were allowed to make byelaws among themselves, to have their own festivals, particular facrifices, &c.

Though Numa himfelf is faid by Plutarch to have had pretty just notions of the Supreme Being, he nevertheless added innumerable superstitions to those he found in Rome. He divided the ministers of religion into eight classes, appointing to each their office with the greatest precision; he erected a temple to Janus. the fymbol of prudence, which was to remain open in time of war, and to be thut in time of peace. Another temple was erected to Bona Fides; and he invented a new kind of deities called Dii Termini, or boundaries, which he caused to be placed on the borders of the Roman state, and of each man's particular lands .- The last reformation which Numa undertook, was that of the kalendar. Romulus had divided his year into ten months, which, according to Plutarch, had no certain or equal number of days; fome confisting of 20, fome of 35, &c. However, by other historians, we are informed that he allotted to March, May, Quintilis, and October, 31 days; to April. June, Sextilis, November, and December 30; making in all 304 days. But Numa being better acquainted with the celeftial motions, added to these the two months of January and February. To compose these two months he added 50 d ys to the 304; and thus made the year answer to the course of

wife Ro-

leave Alba. The only difficulty remaining, then, was Rome, to fettle which city should have the superiority; and, as this could not be determined by argument, Tullus

proposed to determine it by single combat betwixt himfelf and Fuffetius. This proposal, however, the Alban general thought proper to decline; and it was at last agreed, that three champions should be chosen out of each camp to decide the difference. This produced the

famous combat between the Horatii and Curiatii, by which the fovereignty was decided in favour of Rome. See HORATII. Tullus now resolved to call the Fidenates to an account for their treacherous behaviour during the war with Alba, and therefore cited them to appear before the fenate; but they, conscious of their guilt, refused to appear, and took up arms in conjunction with the Veientes. Fuffetius, in obedience to the orders of Tullus, joined him with the Alban troops; but the day before the battle, he acquainted the principal officers with his defign, which was to fland neuter till fortune had declared for one fide, and then to join with the conqueror. This defign being approved, Fuffetius, during the engagement, retired with his forces to a neighbouring eminence. Tullus perceived his treachery; but diffembling his uneafinefs, told his men that Fuffetius had poffeffed himfelf of that hill by his

order, and that he was from thence to rush down upon the enemy. The Veientes, in the mean time, who had expected that Fuffetius was to join them, were dismayed, and the Romans obtained the victory. After the battle, Tullus returned privately to Rome in the night; and having confulted with the fenate about the treachery of Fuffetius, returned to the camp by break of day. He then detached Horatius, who had conquered the three Curiatii, with a chosen body of horse and foot, to demolish Alba, as had been concerted at Rome. In the mean time, he commanded both the Roman and Alban troops to attend him unarmed, but gave private orders to the Romans to bring their fwords concealed under their garments. When they were affembled, he laid open the treachery of Fuffetius, and

ordered him to be torn in pieces by horses. His ac-Alba decomplices were all put to the fword; and the inhabi-motified, tants of Alba carried to Rome, where they were ad-and the inmitted to the privileges of citizens, and fome of them transported even admitted to the fenate. Tullus now turned his arms against Fidenæ, which

he again reduced under the Roman yoke; and took Medulia, a strong city of the Latins; after which he waged a fuccefsful war with the Sabines, whose union with the Romans feems to have ceased with the time of Numa. This was the last of his martial exploits; after which we hear no more of him, but that he became extremely superstitious in his advanced years, giving ear to many foolish stories, as that it rained stones, that miraculous voices were heard from heaven, &c. and for this he appointed nine days expiatory facrifices; whence it became a custom to appoint nine days to appeafe the wrath of the gods as often as men were alarmed with prodigies. As to the manner of his death 33 authors are not agreed. Some tell us that he was kill- Death of ed by lightning, together with his wife, children, and Tutlus, his whole family; while others are of opinion that he who is fuewas murdered with his wife and children by Ancus Ancus

Martius who fucceeded him. He died after a reign of Martius.

Rome, the moon. He then took fix more from the months that had even days; and added one day merely out of fuperstition, that the year might prove fortunate; for the pagans looked upon even numbers as unlucky, but imagined odd numbers to be fortunate. However, he could make out no mere than 28 for February, and therefore that month was always reckoned unlucky among the Romans. Befides this, he observed the difference between the folar and lunar year to be 11 days; and to remedy the inequality, he aided an intercalary month named Mercedinus or Mercedonius, of 22 days every two years; but as he knew also that the solar year confifted of 365 days 6 hours, he ordered that every fourth year the month Mercedinus should consist of 23 days. The care of these intercalations was left to the priefts, who left out or put in the intercalary day or month as they imagined it to be lucky or unlucky; and by that means created fuch confusion, that the fellivals came in process of time to be kept at a feafon quite opposite to what they had been formerly.

These are all the remarkable transactions of the reign

of Numa, which is faid to have continued 43 years;

though fome think that its duration could not be above

15 or 16. His death was followed by a thort interregnum; after which Tullus Hoftilius, the fon or grandfon

of the famous Herfilia, was unanimously chosen king. Being of a bold and fiery temper, he did not long con-

tinue to imitate his peaceful predecessor. The Albans,

indeed, foon gave him an opportunity of exercising his

martial disposition. Coelius, or, as he is called by Livy, Cluilius, who was at the head of the Alban repub-

lic, jealous of the growing greatness of Rome, privately

commissioned some of the most indigent of his subjects

to waste the Roman territory; in consequence of which, a Roman army entered the territories of Alba, engaged

the robbers, killed many, and took a great number pri-

foners. A war foon commenced, in confequence of

this, between the two nations; but when the armies

came in fight of each other, their ardour cooled, neither

of them feeming inclined to come to an engagement.

This inaction raifed a great discontent in the Alban ar-

my against Cluilius; infomuch that he came to a reso-

lution of giving battle to the Romans next morning, or of storming their trenches if they should decline it.

Next morning, however, he was found dead in his bed; after which the Albans chose in his ficad one Mettus

Fuffetius, a man remarkable for his hatred to the Ro-

man name, as Cluilius had been before him. Fuffetius.

however, continued in the same state of inactivity as his

predecessor, until he received certain intelligence that

the Veientes and Fidenates had resolved to destroy both

Romans and Albans when they flould be weakened by

a battle. Fuffetius then refolved to come to an accom-

modation with the Romans; and, having obtained a

conference with Tullus, both feemed equally defirous of availing the calamities of war. But, in order to effa-

blish the peace on the most perfect foundation, Tullus

proposed that all, or at least the chief families in Alba,

flould remove to Rome; or, in case they were unwil-

ling to leave their native city, that one common coun-

cil should be established to govern both cities, under the direction of one of the two fovereigns. Fuffelius took

afide those who attended him, to consult with them

about this projoid; but they, though willing to come

to an accommodation with Rome, abfolutely refused to

Succeeded

33 years, leaving the city greatly increased, but the do-After a fhort interregnum, Ancus Martius, the

grandion of Numa by his daughter Pompilia and Marcus his relation, was unanimoutly chosen by the people and fenate. Though naturally inclined to war, he began his reign with attempting to reflore the ceremonies of Nama, which had been neglected under Tullus Hoflilius. He endeavoured also to draw the attention of his people to hutbandry and the praceful arts; adving them to lav afide all forts of violence, and to return to their former employments. This grined him the aftempt of the neighbouring nations. The Latins pretending that their treaty with Rome was expired, made His wallike inreads into the Roman territories. Ancus, after using the ceremonies directed by Numa, took the ille with an army confilling entirely of new-levied troops, and reduced the cities of Politorium, Tillena, and Ficana, transplanting the inhabitants to Rome. A new colony of Latins repeopled Politorium; but Ancus retook the place next year, and entirely demolished it. He then laid fiege to Medulia; which, though it had been ruined by Tullus Hollilias, was now ilronger than ever. It fubmitted after a fiege of four years, when Ancus against Figura, which he had before reduced, as we have already related; and it was not without the utmost difficulty that he reduced it a second time. After this he defeated the Latins in a pitched battle; vanquithed the Fidenates, Veientes, and Sabines; and having taken in the hill Janiculum to be included within the walls, and built the port of Offia, he died in the 24th year of his reign. Ancus Tartius left two fons behind him, one an

infant, and the other about 15 years of age. Both of these he put under the tuition of Tarquin, the fon of a rich merchant in Corinth, who had fled from that city to scure his wealth from Cypielus tyrant of the place. He fettled in Tarquinii, one of the principal cities in Hetruria; but finding that he could not there attain to any of the principal poils in the city on account of his foreign extraction, he removed to Rome, where he The death of Ancus Martius gave him an opportunity of affuming the regal dignity, and letting afide his pupils; and in the beginning of his reign he took care to ilrengthen his party in the fenate by adding another hundred to that body. These were called fenatores minorum gentium, because they were chosen out of the plebeians; however, they had the fame authority in the fenate as the others, and their children

were called patricians.

Tarquin was not inferior to any of his predeceffors either in his inclination or abilities to carry on a war. As foon as he ascended the throne, he recommenced hostilities with the Latins; from whom he took the cities of Apiolæ, Cruduminum, Nomenum, and Collatia. The inhabitants of Apiolæ were fold for tlaves; but those of Crustuminum and Nomentura, who had fubmitted after their revolt, were treated with great and obliged to pay a large fum of money; the fovereignty of it, in the mean time, being it on to Egerius, the fon of Arunx, Tarquin's brother; from whence he took the name of Collatinus, which he transmitted to his poderity. Corniculum, another city of Latium, was having greatly alarmed the Latins, feveral of them joined their forces in order to oppose such a formidable enemy; but being defeated in a bloody battle near hidense, they were obliged to enter into an alliance with Rome; upon which the Latins having held a national conference, entered into a league with the Hetrurians, and again took the field with a very numerous army, But Tarquin, having defeated the confeder le armies in two very bloody battles, obliged the Latin cities to submit to a kind of dependence on Rome; and, having entered the city in triumph, built the circus maximus with the spoils which he had taken from the

The war with the Latins was fearcely ended, when another commenced with Hetruria. This was accounted the most powerful nation in Italy, and was at that time divided into 12 tribes or lucomonies. These appointed a national affembly, in which was decreed that the whole force of Hetruria thould be employed against Tarquin; and if any city prefumed only to fland neuter. it should be for ever cut off from the national alliance. Thus a great army was raifed, with which they ravaged the Roman territory, and took Fidenæ by the treachery of fome of its inhabitants. Tarquin, not being in a condition to oppose them at first, was obliged to submit to the loss occasioned by their ravages for a whole year; after which he took the field with all the forces he could raife. The Roman army was divided into two bodies, one under the king himfelf, the other commanded by his nephew Collatinus. The latter, having divided his forces in order to plunder the country, was defeated; but Tarquin, in two engagements vanquished the army which opposed him. He then marched against Fidenæ, where he gained a third battle; after which he took the city. Such of the citizens as were suspected to have been concerned in betraying it to the enemy were whipped to death; the reft were fent into banithment, and their lands divided by lot among the Roman foldiers. Tarquin now haftened to oppose the new army of the Hetrurians before their forces could be properly collected; and having come up with them at Erctum, a place about 10 miles from Rome, defeated them with great flaughter, for which victory he was decreed a triumph by the fenate; while the enemy, difficurtened by fo many misfortunes, were glad to fue for peace; which Tarquin readily granted, upon the fole condition of their owning his superiority over them. In Enfigue of compliance with this, the Hetrurians fent him all the royalty fert enfigus of royalty which were in use among them, viz. Hetruiars. a crown of gold, a throne of ivory, a sceptre with an engle on the top of it, a tunic embroidered with gold, and adorned with figures of palm branches, together with a purple robe enriched with flowers of feveral colours. Tarquin, however, would not wear

Tarquin's

this triumph he appeared in a gilt chariot, drawn by four horfes, clothed in a purple robe, and a tunic embroidered with gold, a crown on his head, and a fceptre

and people had confented to it by an express law.

He then applied the regalia to the decoration of his

triumph, and never afterwards laid them aside. In

Rome. in his hand, attended by 12 lictors with their axes and faices

Farquin, having now obtained fome respite from war. applied himlelf to the beautifying and ornamenting the city. He built the walls of Rome with hewn stone, and erected those famous common sewers which have deservedly been accounted one of the wonders of the world. Rome at this time contained four hills within its compals, viz. the Palatimus, Tarpeius, Quirinalis, and Coelius. In the valleys between these hills, the rain-water and fprings uniting, formed great pools which laid under water the streets and public places. The mud likewise made the way impassable, insected the air, and rendered the city unhealthy. Tarquin fewers, and undertook to free the city from this nuilance, by conveying off these waters by subterraneous channels into the Tiber. In doing this, it was necessary to cut through hills and rocks a channel large enough for a navigable fream, and covered with arches strong enough to bear the weight of houses, which were frequently built upon them, and stood as firm as on the most folid foundations. All these arches were made of hard stone, and neither trouble nor expence were spared to make the work durable. Their height and breadth were fo confiderable, that a cart loaded with hay could eafily pass through them under ground. The expence of constructing these sewers was never fo thoroughly understood as when it became necessary to repair them; for

then the cenfors gave no less than 1000 talents to the person appointed for this purpose.

Besides these great works, Tarquin adorned the forum, furrounding it with galleries in which were shops for tradefmen, and building temples in it for the youth of both fexes, and halls for the administration of public justice. He next engaged in a war with the Sabines, on pretence that they had affifted the Hetrurians. Both armies took the field, and came to an engagement on the confines of Sabinia, without any confiderable advantage on either fide; neither was any thing of confequence done during the whole campaign. Tarquin then, confidering with himself that the Roman forces were very deficient in cavalry, refolved to add some new bodies of knights to those already inflituted by Romulus. But this project met with great opposition from the superstitious augurs, as the original division of horse into three bodies had been determined by auguries; and Actius Nævius, the chief of the diviners at that time, violently opposed the king's Adventure will. On this Tarquin, defirous to expose the deceit of these people, summoned Navius before an assembly the augur. of the people, and defired him to show a specimen of his art, by telling the king if what he thought of at that time could be done or not. The augur replied, after confulting his birds, that the thing was very poffible. On which Tarquin told him, that he had been thinking whether it was coffible to cut a flint with a razor, pulling at the same time a razor and flint from below his robe. The set the people a-laughing; but Nævius gravel eficie to try it, he was furprifed to find to the first of to the razor; and that with fo must eafe to dean to d from his hand. The people telly of the und acclamations, and Tarquin hi felf co it to a great veneration for augurs ever afte A de of brass was erect. ed to the memory of Na 14 continued till the time of Augustus; the razor and thint were buried near Rome. it, under an altar, at which witnesses were afterwards fworn in civil caufes.

This adventure, whatever was the truth of it, caused. Tarquin to abandon his defign of increasing the number of bodies of horse, and content himself with augmenting the number in each body. He then renewed the war with the Sabines, rayaved their country, defeated them in three pitched battles, obliging them at last to fubmit to him and put him in possession of their country. In the decline of life he employed himfelf in further de-In the decline of the the employed financial in this state of the decline of the the third in the state of the was affait Affailmated finated in his palace, in the Soth year of his age, by the by the fors for of Ancus Martius, whom he had originally de- of Ancus Martius.

prived of the kingdom.

After the death of Tarquin I, his wife Tanaquil preserved the kingdom to her fon-in-law Servius Tullius, by artfully giving out that the king was only flunned, and would foon recover; upon which the fons of Ancus went voluntarily into banishment. The second day after his decease, Servius Tullius heard causes from the throne in the royal robes and attended by the lictors; but as he pretended only to supply the king's place till he should recover, and thought it incumbent on him to revenge the wicked attempt upon his life, he summoned the sons of Ancus to appear before his tribunal; and on their non-appearance, caufed them to be declared infamous, and their estates to be conficated. After he had thus managed manners for fome time in Services fuch a manner as to engage the affections of the people, Tulhus fucthe death of Tarquin was published as a thing that ceeds. had newly happened, and Servius Tullius affumed the enfigns of royalty, having none to difpute the honour with him.

The new king showed himself every way worthy of the throne. No fooner were the Hetrurians informed of Tarquin's death, than they shook off the yoke; but Servius quickly reduced them to obedience, depriving them of their lands, which he shared among the poor Roman citizens who had none. For this he was decreed a triumph by the people, in spite of the opposition of the fenate, who could never be brought to approve of his election to the kingdom, though he was foon after

After Servius had obtained the fanction of the popular voice, he marched a fecond time against the revolted Hetrurians; and having again vanquished them, 42 was decreed another triumph. He then applied him-Enlarges felf to the enlarging and adorning the city. To the the city hills Palatinus, Tarpeius, Quirinalis, Cœlius, and Aven-and adds a tinus, he added the Esquilinus and Viminalis, fixing fourth tribe his own palace on the Efquilinus, in order to draw in-ready inhabitants thither. He likewise added a fourth tribe, fittited, which he called Tribus Esquilina, to those instituted by Romulus. He divided also the whole Roman territory into diffinct tribes, commanding that there should be at least one place of refuge in each tribe, fituated on a rifing ground, and ftrong enough to fecure the effects of the peafants in case of a sudden alarm. These ftrong-holds he called pagi, that is, "villages;" and commanded that each of them should have their peculiar temple, tutelary god, and magistrates. Each of them had likewise their peculiar festival, called paganalia; when every person was to pay into the hands of

those who presided at the sacrifices a piece of money,

of Natvius

#ailds the common

emaments

Rome, the men of one kind, the women of another, and the children of a third. By this means an exact computation was made of the mon, women, and children, in each

> In the mean time, his two wards, Lucius Tarquinius and Arunx, the grandchildren of Tarquin, being grown up, in order to secure their fidelity, he married them to his two daughters. And though the elder of these daughters, who was of a mild and tractable disposition. refembled in character the younger of his pupils, as the elder of his pupils did the younger of his daughters, who was of a violent and vicious temper, yet he thought it advisable to give his elder daughter to Tarquin, and the younger to Arunx; for by that means he matched them according to their ages, and at the fame time hoped that the elder Tullia's fweet disposition would temper Tarquin's impetuofity, and the younger Tullia's vivacity rouse the indolence of Arunx.

> During the public rejoicing for this double marriage. the twelve lucumonies of Hetruria uniting their forces, attempted to shake off the Roman voke; but were in feveral battles defeated by Servius, and obliged to fubmit to him on the fame conditions on which they had fubmitted to his predecessor. For this success Servius

was honoured with a third triumph.

The king being thus disengaged from a troublesome war, returned to the purfuit of his political schemes; and put in execution that masterpiece of policy which Rome made use of ever after, and which cstablished a perpetual order and regularity in all the members of the state, with respect to wars, to the public revenues, and the fuffrages of the comitia. The public fupplies had hitherto been raifed upon the people at fo much a head, without any distinction of rich and poor whence it likewife followed, that when levies were made for the war, the rich and poor were equally obliged to take the field, according to the order of their tribe; and as they all ferved at their own expence, the poorer fort could hardly bear the charges of a campaign. Befides, as the most indigent of the people faw themselves burdened with the fame taxes as the rich, they pretended to an equal authority in the comitia: fo that the election of kings and magistrates, the making of peace or war, and the judging of criminals, were given up into the hands of a populace who were easily corrupted, and had nothing to lofe. Servius formed a project to remedy these evils, and put it in execution, by enacting a law, enjoining all the Roman citizens to bring in an account in writing of their own names and ages, and of those of their fathers, wives, and children. By the fame law, all heads of families were commanded to deliver in upon oath a just estimate of their effects, and to add to it the places of their abode, whether in town or country. Whoever did not bring in an account of his effects, was to be deprived of his estate, to be beat with rods, and publicly fold for a flave. Servius, from thefe particular accounts, which might be pretty well relied on, undertook to eafe the poor by burdening the rich, and at the same time to please the latter by increafing their power.

To this end, he divided the Roman people into fix of the peo- classes; the first class confisted of those whose estates and effects amounted to the value of 10,000 drachmee. or 100,000 afes of brafe; the first way of computing be-

ing used by the Greeks; and the latter by the Latins. Rome. This class was subdivided into 80 centuries, or companies of foot. To these Servius joined 18 centuries of Roman knights, who fought on horseback; and appointed this confiderable body of horsemen to be at the head of the first class, because the estates of these knights, without all doubt, exceeded the furn necessary to be admitted into it. However, the public supplied them with horses; for which a tax was laid upon widows, who were exempt from all other tributes. This first class, including infantry and cavalry, confisted of 98 centuries. The fecond class comprehended those whose estates were valued at 5700 drachmee, or 75,000 ases of brass. It was subdivided into 20 centuries, all foot. To these were added two centuries of carpenters, fmiths, and other artificers. In the third class were those who were esteemed worth sooo drachme. or 50,000 afes. This class was subdivided into 20 centuries. The fourth class was of those whose effects were rated at the value of 500 drachmæ, or 25,000 ases, and was divided into 20 centuries; to which were added two other centuries of trumpets and blowers of the horn, who supplied the whole army with this martial music. The fifth class included those only whose whole fubitance did not amount to more than 1250 drachmæ, or 12,500 afes; and this class was divided into 30 centuries. The fixth class comprehended all those who were not worth so much as those of the fifth class: they exceeded in number any other class but nevertheless were reckoned but as one century, The king drew from these regulations all the ad-

vantages he had expected. Levies for the army wereno longer raifed by tribes, nor were taxes laid at fo much a-head as formerly, but all was levied by centuries. When, for instance, an army of 201000 men, or a large supply of money, was wanted for the war, each century furnished its quota both of men and money; fo that the first class, which contained more centuries, though fewer men, than all the others together, furnished more men and more money for the public fervice than the whole Roman state besides. And by this means the Roman armies confitted for the most part of the rich citizens of Rome; who, as they had lands and effects to defend, fought with more refolution. while their riches enabled them to bear the expence of a campaign. As it was but just the king should make the first class amends for the weight laid on it. he gave it almost the whole authority in public affairs a changing the comitia by curiæ, in which every man gave his vote, into comitia by centuries, in which the majority was not reckoned by fingle persons, but by centuries, how few foever there might be in a century. Hence the first class, which contained more centuries than the other five taken together, had every thing at its disposal. The votes of this class were first taken; and if the o8 centuries happened to agree, or only 97 of them, the affair was determined; because these made the majority of the 103 centuries which composed the fix classes. If they disagreed, then the second, the third. and the other classes in their order, were called to vote, though there was very feldom any occasion to go to low as the fourth class for a majority of votes; so that

by this good order Servius brought the affairs of the

flate to be determined by the judgement of the most

confiderable

His division claffes.

Reforms

the State.

Rome. confiderable citizens, who understood the public interest much better than the blind multitude, liable to be im-

posed upon, and easily corrupted.

The cenfrum.

And now the people being thus divided into feveral orders, according to the cenfus or valuation of their estates. Servius resolved to solemnize this prudent regulation by some public act of religion, that it might be the more respected and the more latting. Accordingly, all the citizens were commanded to appear, on a day appointed, in the Campus Martius, which was a large plain, lying between the city and the Tiber, formerly confecrated by Romulus to the god Mars. Here the centuries being drawn up in battalia, a folemn luftration or expiatory facrifice was performed in the name of all the people. The facrifice confifted of a fow, a fleep, and a bull, whence it took the name of fuovctaurilia. The whole ceremony was called lustrum, à luendo; that is, from paying, expiating, clearing, or perhaps from the goddess Lua, who prefided over expiations, and to whom Servius had dedicated a temple. This wife king confidering, that in the space of five years there might be such alterations in the fortunes of private persons as to entitle some to be raifed to an higher class, and reduce others to a lower, enjoined that the census should be renewed every five years. As the census was usually closed by the luftrum, the Romans henceforth began to compute time by lustrums, each lustrum containing the space of five years. However, the lustrums were not always regularly observed, but often put off, though the cenfus had been made in the fifth year. Some writers are of opinion, that Servius at this time coined the first money that had ever appeared at Rome; and add, that the circumstances of the luftrum probably led him to ftamp the figures of the animals there flain on pieces of brafs of a certain The treed-

The government of the city being thus established in fo regular a manner, Servius, touched with compassion for those whom the misfortunes of an unsuccessful war had reduced to flavery, thought that fuch of them as had by long and faithful fervices deferved and obtained their freedom, were much more worthy of being made Roman citizens, than untractable vagabonds from foreign countries, who were admitted without diffinction. He therefore gave the freedmen their choice, either to return to their own country, or continue at Rome. Those who chose to continue there, he divided into four tribes, and fettled them within the city; and though they were diffinguished from the plebeians by their old name of liberti, or freedmen, yet they enjoyed all the privileges of free citizens. The fenate took offence at the regard which the king showed to such mean people, who had but lately shaken off their setters; but Servius, by a most humane and judicious discourse, entirely appealed the fathers, who paffed his inflitution into a law, which fubfifted ever after.

The wife king, having thus established order among the people, undertook at last to reform the royal power itself; his equity, which was the main spring of all his resolutions, leading him to act contrary to his own interest, and to sacrifice one half of the royal authority to the public good. His predeceffors had referved to themselves the cognizance of all causes both public and private; but Servius, finding the duties of his office too much for one man to discharge well, committed the cognizance of or-

dinary fuits to the fenate, and referved that only of frate- Rome. crimes to himfelf.

All things being now regulated at home, both in the Eduarours city and country, Servius turned his thoughts abroad, to attach and formed a scheme for attaching the Sabines and La-the Sabines tius to the Romans, by fuch focial ties as should be and Latins ftrengthened by religion. He fummoned the Latin and to the Ro-Sabine cities to fend their deputies to Rome, to confult mans, about an affair of great importance. When they were come, he proposed to them the building of a temple in honour of Diana, where the Latins and Sabines should meet once a year, and join with the Romans in offering facrifices to that goddels; that this festival would be followed by a council, in which all disputes between the cities should be amicably determined; that there proper measures thould be taken to pursue their common interest; and, laftly, in order to draw the common people this ther, a fair thould be kept, at which every one might furnith himself with what he wanted. The king's defign met with no opposition; the deputies only added to it, that the temple should be an inviolable asylum for the united nations; and that all the cities should contribute towards the expence of building it. It being left to the king to choose a proper place for it, he piched upon the Aventine hill, where the temple was built, and affemblies annually held in it. The laws which were to be observed in these general meetings, were engraved on a pillar of brafs, and were to be icen in Augustus's time, in the Latin tongue, but in Greek characters.

But now Servius was grown old; and the ambition of Willedin-Tarquin his fon-in-law revived in proportion as the king trigues of advanced in years. His wife used her utmost endeavours his daughto check the raffiness and fury of her busband, and to in-law. divert him from all criminal enterprises; while her younger fifter was ever infligating Aruny, wo placed all his happiness in a private life, to the most vive arous attempts. She was continually lamenting her the in being tied to fuch an indolent husband, and wishing the had either continued unmarried, or were become a widow. Similitude of temper and manners, formed, by degrees, a great intimacy between her and Tarquin. At length the proposed nothing less to him than the murdering of her father, fifter, and hufband, that they two might meet and afcend the throne together. Soon after, they paved their way to an inceftuous marriage, he by poisoning his wife, and the her husband; and then had the affurance to ask the king's and queen's consent to their marriage. Servius and Tarquinia, though they did not give it, were filent, through too much induigence to a daughter in whom now was their only hope of posterity. But these criminal nuptials were only the first step towards a yet greater iniquity. The wicked ambition of the new-married couple first showed itself against the king : for they publicly declared, that the crown belonged to them; that Servius was an usurper, who, being appointed tutor to Tarquin's grandchildren, had deprived his pupils of their inheritance; that it was high time for an old man, who was but little able to fupport the weight of public affairs, to give place to a prince who was of a mature age, &c.

The patricians, whom Servius had taken great pleafure in humbling during the whole time of his reign, were eafily gained over to Tarquin's party; and, by the

help of money, many of the poorer citizens were also brought over to his interest. The king, being informed of their treasonable practices, endeavoured to diffuade his daughter and fon-in-law from fuch proceedings, which might end in their ruin; and exhorted them to wait for the kingdom till his death. But they, despising his counfels and paternal admonitions, refolved to lay their claim before the fenate; which Servius was obliged to fummon: fo that the affair came to a formal process. Tarquin reproached his father-in-law with having afcended the throne without a previous interregnum; and with having bought the votes of the people, and despited the suffrages of the senate. He then urged his own right of inheritance to the crown, and injuffice of Servius, who, being or ly his guardian, had kept possession of it, when he himfelf was of an age to govern. Servius answered, that he had been lawfully elected by the people; and that, if there could be an hereditary right to the kingdom, the fons of Ancus had a much better one than the grandfons of the late king, who must himself have been an usurper. He then referred the whole to an affembly of the people; which being immediately proclaimed all over the city, the forum was foon filled; and Servius harangued the multitude in fuch a manner as gained all their affections. They all cried out with one voice, Let Servius reign; let him continue to make the Romans happy. Amidit their confused clamours, these words were likewise heard: Let Tarquin perish; let him die; let us kill him. This language frightened him so, that he retired to his house in great haste; while the king was conducted back to his palace with the acclamations of the people.

The ill fuccess of this attempt cooled Tarquin's ardent defire of reigning; but his ambition made him act a new part. He undertook to regain the favour of his father-in-law by careffes, fubmissions, and protestations of a fincere regard and affection for him; infomuch that the king, who judged of the policy of others from his own, was fincerely reconciled to him, and tranquillity re-established in the royal family. But it was not long ere Tarquin, rouled by the continual reproaches of his wife, began to renew his intrigues among the fenators; of whom he had no fooner gained a confiderable party, than he clothed himself in the royal robes, and causing the fasces to be carried before him by some of his domestics, croffed the Roman forum, enter of the temple where the fenate used to meet, and seated himfelf on the throne. Such of the fenators as were in the faction he found already in their places (for he had given them private notice to be there early); and the reft, being fummoned to affemble in Tarquin's name, made what hafte they could to the appointed place, thinking that Servius was dead, fince Tarquin affumed the title and functions of king. When they were all affembled, Tarquin made a long speech, reviling his father in law, and repeating the il vectives against him, which he had fo often uttered, calling him a flave, an usurper, a favourer of the populace, and an enemy to the fenate and patricians. When he was yet fpeaking, Servins arrived; and, rafhly giving way to the motions of his courage, without confidering his fire gth, drew people into the temple; but nobody vertured to part the two rivals. Tarquin, therefore, being more flrong

and vigorous, feized the old man by the waift, and Rome. hurrying him through the temple, threw him down from the top of the fleps into the forum. The king, who was grievously wounded, raised himself up with some difficulty: but all his friends had abandoned him; only two or three of the people, touched with compassion, lent him their arms to conduct him to his palace.

As they were leading him on flowly, the cruel Tullia appeared in the forum, whither the had haltened in her chariot on the first report of what had passed in the fenate. She found her husband on the top of the steps of the temple; and, transported with joy, was the first who faluted him king. The example was immediately followed by the fenators of Tarquin's party. Nor was this enough for the unnatural daughter: she took aside her husband, and suggested to him, that he would never be fafe to long as the ufurper of his crown was alive. Hereupon Tarquin instantly dispatched some Servius of his domestics to take away the remains of the un-Tullius fortunate king's life. The orders for the wicked par-murdered. nicide were no fooner given than Tullia mounted her chariot again, with an air of triumph, to return home. The way to her house was through a narrow street, called vicus cyprius, or the good freet. There the affaffins had left the king's body, which was still panting. At this fight, the charioteer, itruck with horror, checked his horses, and made a stop: but Tullia forced him to go on; and the blood of the father is faid to have dyed the wheels of the chariot, and even the clothes of the inhuman daughter, whence the street was called ever after vieus sceleratus.

The new king proved a most despotic and cruel ty. Tarquin II. rant; receiving, in the very beginning of his reign, the a cruel tyfurname of proud, on account of his capricious humour rant. and haughty behaviour. All controversies whatever were decided by himself and his friends; and he banished, fined, and even executed, whom he pleased. The cenfus and luftrum, the division of citizens into classes and centuries, were abolished; and all kinds of affemblies, even those for amusement and recreation, were prohibited, both in town and country. Nay, to fuch a height did Tarquin carry his infolence and tvranny, that the most virtuous of the fenators went into voluntary banishment; while many of those who remained were cut off on various pretences, that the king

might enjoy their eflates. Farquin could not but be fensible of the extreme danger in which he flood by lofing the affections of his people in fuch a manner. He therefore provided a fufficient number of foldiers, by way of guard, to prevent attempts upon his person; and gave his daughter to Octavius Mamilius, one of the most considerable men among the Lati's, in order to flrengthen his interest by this foreign alliance, in case of a revolt among his subjects. Mamilius accordingly procured many friends to his father in-law, but he had like to have lott them again by his haughty behaviour. He had defired the Latins to call a national council at Ferentinum, where he would meet them on a day appointed by himfelf. The Latins accordingly met; but after waiting for feveral hours, Tarquin did not appear. On this, on-Turnus Herdonius, an enterpriling and eloquent man, who hated Tarquin, and was jealous of Mamilius, made a speech, in which he inveighed against the haughty

His infamous ftratagem to

Rome. had put upon the Latins, and concluded with defiring the council to break up and return home without taking any further notice of him. Mamilius, however, prevailed upon them to return the day following; when Tarquin made his appearance, and told the affembly that his defign in calling them together was to claim, his right of commanding the Latin armies, which he faid was derived from his grandfather, but which he defired to be confirmed to him by them. These words were fearce out of his mouth, when Herdonius, rifing up, entered into a detail of Tarquin's tyranny and ar-Herdonius, bitrary behaviour at Rome, which, he faid, the Latins would foon feel in an equal degree, if they complied with Tarquin's demand. To this speech the king made no reply at that time, but promifed to answer him next day. In the mean time, however, he bribed the domestics of Herdonius to admit among his baggage a large quantity of arms : and then, telling the Latins that Herdonius's opposition proceeded only from Tarquin's having refused him his daughter in marriage, accufed him of having laid a plot to cut off all the deputies there prefent, and to usurp a jurisdiction over the Latin cities; as a proof of which he appealed to the arms hid among the baggage of Herdonius. The accused, conscious of his innocence, defired that his baggage might be fearched; which being accordingly done, and the arms found, he was hurried away without being allowed to make any defence, and thrown into a bason at the head of the foring of Ferentinum, where a hurdle being laid upon him, and stones laid upon the hurdle, he was proffed down into the water and drown-

> In consequence of this monstrous treachery. Tarquin was looked upon by the Latins as their deliverer, and declared general of the Latin armies; feon after which, the Hernici and two tribes of the Volfci entered into an alliance with him on the fame terms. In order to keep these confederates together. Tarquin, with their confent, erected a temple to Jupiter Latialis on a hill near the ruins of Alba, where he appointed certain feasts called Feria Lotina to be held on the 27th of April, where the feveral nations were to facrifice together, and on no account to commit any hostilities against each other during their continuance. The king then proceeded to make war on the rest of the Volsci who had refused to enter into an alliance with him. Some depredations which they had committed in the territories of the Latins served for a pretence to begin the war; but as Tarquin had no confidence in the Romans, his army was composed only of a fmall body of them who were incorporated among the Latin auxiliaries. However, he defeated the enemy, took one of their cities by storm, and gave the booty to his foldiers. He next turned his arms against the Sabines, whom he entirely defeated in two engagements, and made the whole nation tributary: for which exploits he decreed himself two triumphs, and on his return to Rome he employed the populace in finishing the scwers and circus which had been begun by his grandfather Tarquin I.

In the mean time, the perfecutions of Tarquin against his own subjects daily drove some of the most confiderable into banishment. A great number of patricians took refuge in Gabii, a city of Latium about 13 miles from Rome; where the inhabitants, touched with compassion for their misfortunes, not only received their Rome. with kindness, but began a war with Tarquin on their account. The Gabini feem to have been the most formidable enemies whom the Romans had hitherto met with : fince Tarquin was obliged to raife a prodigious bulwark to cover the city on the fide of Gabii. The war lasted seven years; during which time, by the mutual devaltations committed by the two armies, a great fearcity of provisions took place in Rome. The people foon grew clamerous; and Tarquin being unable either to quiet them, or to reduce the Gabini, fell upon the following dishonourable and treacherous expedient. His fon Sextus Tarquinius pretended to be on very bad terms with his father, and openly inveighed against him as a tyrant; on which he was proclaimed a rebel, and publicly beaten in the forum. This being reported at Gabii, by persons sent thither on purpose, the inhabitants became very defirous of having Sextus among them; and accordingly he foon went thither, having previously obtained a folemn promise from the inhabitants never to deliver him up to his father. Here he made frequent inroads into the Roman territories, and always came back laden with spoil, his father sending against him only such weak parties as must infallibly be worsted. By this means he soon came to have such a high degree of credit among the Gabini, that he was chosen general of their army, and was as much master at Gabii as Tarquin was at Rome. Finding then that his authority was fufficiently established, he dispatched a flave to his father for infiructions; but the king, unwilling to return an explicit answer, only took the meffenger into the garden, where he struck off the heads of the tallest poppies. Sextus understood that by this hint the king defired him to put to death the leading men in the city of Gabii, which he immediately put in execution; and while the city was in confusion on account of this maffacre, he opened the gates to his father, who took possession of the city with all the pride of a conqueror. The inhabitants dreaded every thing from the haughty tyranny of the Roman monarch : however, on this occasion he consulted his policy rather than his revenge; granted them their life, liberty, and estates, and even entered into a treaty of alliance with them. The articles were written on the hide of an ox. which was still to be seen in the time of Augustus, in the temple of Jupiter Fidius. After this, however, he made his fon Sextus king of Gabii; fending off also his other two fons, Titus and Arunx, the one to build a city at Signia, the other at Circæum, a promontory of the Tyrrhene fea, and both these to keep the Volsci in awe.

For fome time Tarquin now enjoyed a profound peace; the Romans, being accustomed to oppression and the yoke of an imperious master, making no opposition to his will. During this interval Tarquin met with the celebrated adventure of the Sibyl \* ; \* See Sibyla whose books were ever afterwards held in high ellimation at Rome, and Tarquin appointed two perfons of diffinction to take care of them. These were called the Sibyls. Duumviri: but their number was afterwards increased to 10, when they were called Decembiri; and then to 15, when they were termed Quindecemviri. At this time also the written civil law had its origin among the Romans; all the statutes enacted by the kings being collected into one body; which, from Papirius the name

Reduces Gabii by

53 Inflitutes

the Ferige

Lating.

of the collector, was called the Papirian law. The Rame. temple of the Capitol was also finished; for which purpose the most skilful architects and workmen were brought from Hetruria, the populace being obliged to

ferve them in the most laborious parts.

Downfal power.

We now come to the important revolution which put of the regalan end to the regal power at Rome, and introduced a new form of government, to which this city is allowed to owe the greatest part of her grandeur. Tarquin, as we have already feen, had left himfelf no friends among the rich citizens, by reason of the oppression under which he made them labour; and the populace were equally difaffected on account of their being obliged to labour in his public works. Among the many persons of distinction who had been facrificed to the avarice or fuspicions of Tarquin, was one M. Junius, who had married the daughter of Tarquin I. This nobleman had a fon named L. Junius Brutus, who escaped the cruclty of the tyrant by pretending to be an idiot, which part he had ever fince continued to act. Soon after the finishing of the works abovementioned, a violent plague happening to break out at Rome, Tarquin fent his fons Titus and Arunx to confult the oracle of Delphi; and the princes took Brutus along with them, to divert themselves with his pretended folly by the way. Brutus chose for his offering to the Delphic Apollo a flick of elder, which occasioned much laughter. However, he had the precaution to inclose a rod of gold within the flick; and to this probably it was owing, that the priestess gave the princes the following riddle, that he who should first kiss his mother should fucceed Tarquin in the government of Rome. This answer had been given to their inquiries concerning the fuccession; upon which the two brothers either drew lots which of them should kiss their mother at their return, or agreed to do it at once, that both might reign jointly: but Brutus, imagining the oracle had another meaning, fell down and kiffed the earth, the common mother of all living. This, in all probability, the prieftels had meant; and had given the answer on purpose to have another proof of Brutus's ingenuity, which had already discovered itself, by his offering the elder flick.

> On the return of the princes to Rome, they found their father engaged in a war with the Rutuli. The treasury being exhausted by the sums which Tarquin had expended in his public works, he had marched to Ardea, the capital of that nation, which lay about 20 miles from Rome, in hopes of taking it without opposition. Contrary to his expectation, however, he was obliged to beliege it in form: and this constrained him to lay a heavy tax upon his fubjects, which increafed the number of malcontents, and disposed every thing for a revolt. As the fiege was carried on very flowly, the general officers frequently made entertainments for one another in their quarters. One day, when Sextus Tarquinius was entertaining his brothers, the converfation happened to turn upon their wives: every one extolled the good qualities of his own; but Collatinus bestowed such extravagant praises on his Lucretia, that the dispute ended in a kind of quarrel. It was then refolved that they flould mount their horses and furprife their wives by their unexpected return. The king's daughters in law were employed in feasting and diversion, and feemed much disconcerted by the ap-

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pearance of their husbands; but Lucretia, though the Rome. night was far advanced, was found, with her mails about her, spinning and working in wool. S'ie was not at all discomposed by the company whom her hutband brought with him, and they we e all pleafed with the reception she gave them. As Lucretia w 3 very beautiful, Sextus Tarquinius conceived a passion for her, which refolving to fatisfy at all events, he foon returned to Collatia in the abfunce of Lucretia's Lucretia. husband, and was entertained by her with great civility revished by and respect. In the night time he entered Lucretia's Sextus Tarapartment, and threatened her with immediate death if R. R. here the did not yield to his defires. But finding her not telf. to be intimidated with this menace, he told her, that, if the still perfisted in her refusal, he would kill one of her male flaves, and lay him naked by her when the was dead, and then declare to all the world that he had only revenged the injury of Collatinus. On this the virtuous Lucretia (who, it feems, dreaded proflitution less than the infamy attending it) submitted to the defires of Sextus; but resolved not to outlive the violence which had been offered her. She dreffed herfelf in mourning, and took a poniard under her robe, having previously written to her husband to meet her at her father Lucretius's house, where she refused to discover the cause of her grief except in a full affembly of her friends and relations. Here, addresting herself to her hufband Collations, the acquainted him with the whole affair; exhorted him to revenge the injury; and protested that she would not outlive the loss of her honour. Every one prefent gave her a folemn promife that they would revenge her quarrel; but while they endeavoured to comfort her, the fuddenly stabbed herfelf to the heart with the dagger which she had concealed under her robe. See CHASTITY.

This extravagant action inflamed beyond measure the minds of all prefent. Brutus, laying afide his pretended folly, drew the bloody dagger out of Lucretia's body; and, thowing it to the affembly, fwore by the blood upon it that he would purfue Tarquin and his family with fire and fword: nor would he ever fuffer that or any other family to reign in Rome. The fame oath was taken by all the company, who were fo much furprifed at the apparent transition of Brutus from folly to wisdom, that they did whatever he defired them .-By his advice the gates of the city were shut, that nobody might go out of it to inform Tarquin of what was going forward; which, as Lucretius had been left governor of the city by Tarquin, was put in execution without difficulty. The corple of Lucretia was then exposed to public view: and Brutus having made a speech to the people, in which he explained the mystery of his conduct in counterfeiting folly for many years past, proceeded to tell them that the patricians were come to a refolution of deputing the tyrant, and exhorted them to concur in the fame defign. The people Tar unit testified their approbation, and called out for arms; but deposed. Brutus did not think proper to trust them with arms till he had first obtained a decree of the senate in favour of the delign. This was easily procured : the fenate enacted that Tarquin had forfeited all the prerogatives belonging to the regal authority; condemned him and all his posterity to perpetual banishment, and devoted to the gods of hell every Roman who flouid bereafter, by word or deed, endervour his reftoration;

Romer and this decree was unanimously confirmed by the

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Tarquin being thus deposed, the form of government became the next object. Lucretius was for the present ment chan- declared buerrex; but Brutus being again confulted, declared, that though it was by no means proper for equally necessary that the power should not be centered in one man, and that it should not be perpetual. For this reason, he proposed, that two magnitrates, called confuis, thould be elected annually; that the state should thenceforth have the name of republic; that the cofigns of royalty should be abolished; and that the only enfigns of confular dignity should be an ivory chair, a white robe, and 12 lictors for their attendants. How. ever, that he might not utterly abolish the name of king, he proposed that this title should be given to him who had the superintendency of religious matters, who should thenceforth be called rex facrorum, or king of fa-

cred things.

confuls, and unanimoutly accepted by the people, who mies to the Tarquins. They entered on their office in the year 508 B. C.; and Tullia, perceiving that now ail was loft, thought proper to have the city, and retire to her hufband at Ardea. She was suffered to depart without moleflation, though the populace hooted at her, and curfed her as fine went along. Tarquin, in the mean time, being informed by fome who had got out of Rome before the gates were thut, that Brutus was raising commotions to his prejudice, returned in hafte to the city, attended only by his fons and a few friends; but, finding the gates shut, and the people in arms on the walls, he returned again to the camp : but here again, to his surprise, he found that the consuls had taken the opportunity of gaining over the army to their interest; so that, being refused admittance into the camp also, he was forced to fly for refuge, at the age of 76, with his wife and three fons, to Gabii, where Sextus had been made king. Here he continued for fome time : but not finding the Latins very forward to revenge his cause, he retired into Hetruria; where, being the country of his mother's family, he hoped to find more friends, and a readier affiltance for attempting the recovery of his throne.

The Romans now congratulated themselves on their R man em- happy deliverance from tyranny. However, as Targoe at this quin had by his policy procured himself many friends abroad, thefe now became enemies to the Roman name; and, by the defection of their allies, the Roman domimions were left in much the fame flate as they had been in the time of Romulus. The territory of Rome had always been confined to a very narrow compass. Though almost constantly victorious in war for 243 years, they had not yet gained land enough to fupply their city with provisions. The main strength of the state lay in the number of the citizens of Rome; which the custom of transplanting the inhabitants of the conquered cities thither had fo prodigiously increased, that it put the Romans in a condition of usurping the authority over other nations, the most inconsiderable of which had an extent of territory far exceeding theirs. By frequent depredations and incursions they so harasted the petty

flates of Latium and Hetruria, that many of them were Rome. constrained to enter into treaties with Rome, by which they obliged themselves to furnish her with auxiliaries whenever the should be pleafed to invade and pillage the lands of her other neighbours. Submissions of this kind the Romans called making aliances with them, and thefe ufeful alliances supplied the want of a larger territory; but now, upon the change of her government, all the allies of Rome forlook her at once, and either trood neuter, or ofpouled the cause of the banished king; so that the was now obliged to maintain her liberties as the best

The new confuls in the mean time took the most ef-

fectual methods they could for fecuring the liberties of the republic. The army which had been corployed in the fiege of Ardea marched home under the conduct of Herminius and Horatius, who concluded a truce with the Ardeates for 15 years. The confuls then again affembled the people by centuries, and had the decree of Tarquin's banishment confirmed; a rex facrorum was elected to prefide at the facritices, and nany of the laws of Servins Tul ius were revived, to the great joy of the people, who were thus reftored to their ancient right of voting in all important affairs. Tarquip, however, refolved not to part with his kingdom on fuch easy terms. Having wandered from city to city in order to move compatition, he at length made Tarquinii the feat of his refidence; where he engaged the inhabitants to fend an embaffy to Rome, with a modeft, fubmissive letter from himself, directed to the Roman people. The ambaffadors reprefented in fuch ftrong terms Tarquin to the fenate how reasonable it was to let the king be writes to heard before he was condemned, and the danger which the Roman threatened the flate from the neighbouring powers if people. that common justice were refused, that the confess inclined to bring these agents before the people, and to leave the decision thereof to the curia; but Valerius, who had been very active in the revolution, ffrenuously opposed this, and by his influence in the fenate got it prevented. As that illustrious body had been greatly thinned by the murders committed by Tarquin, new members were elected from among the knights, and the ancient number of 300 again completed. The old fenators had been called patres or " fathers;" and as

the names of the new ones were now written on the fame roll, the whole body received the name of patres con-

scripti.

The old king was not to be foiled by a fingle attempt. He prevailed on the inhabitants of Tarquinii to fend a fecond embaffy to Rome, under pretence of demanding the estates of the exiles, but with private instructions to get the consuls affasiinated. The restoration of the estates of the exiles was opposed by Brutus, but Collatinus was for complying with it; whereupon Brutus accused his colleague of treachery, and of a design to bring back the tyrant. The matter was then referred to the people, where it was carried by one vote in favour of the Tarquins. But whilft the people A confpiwere employed in loading carriages with the effects of re-formed the exiles, and in felling what could not be carried off, in his fathe ambaffadors found means to draw fome of the near-vour. est relations of the confuls into a plot with them. These were three young noblemen of the Aquilian family (the fons of Collatinus's fifter), and two of the Vitellii (whose faster Brutus had married); and these last on-

gaged

Brutus

fons to be

beheaded.

gaged Titus and Tiberius, the two fons of Brutus, in the fame confpiracy. They all bound themselves by folemn oaths, with the dreadful ccremony of drinking the blood of a murdered man and touching his entrails. They met at the house of the Aquilii, where they wrote letters to Tarquin and gave them to the ambaffadors. But though they used all imaginable precaution, their proceedings were overheard by one Vindicius a flave, who immediately communicated the whole to Valerius: upon which all the criminals were apprehended. Brutus flood judge over his own fons; and, caulis two not with standing the intercession of the whole assembly, of his own and the tears and lamentations of his children, commanded them to be beheaded; nor would be depart till he faw the execution of the fentence. Having performed this piece of heroic barbarity, he quitted the tribunal and left Collatinus to perform the reft. Collatinus, however, being inclined to foare his nephews, allowed them a day to clear themselves; and caused Vindicius, the only witness against them, to be delivered up to his mafters. This roufed the indignation of the people in general, especially of Valerius, who had promised to protect the witness, and therefore he refuled to deliver him up to the lictors. The multitude called aloud for Brutus to return; which when he had done, he told them that he had executed his two fons in confequence of his own paternal authority over them, but that it belonged to the people to determine the fate of the reft. Accordingly, by a decree of the curiæ, all the delinquents fuffered as traitors except the ambaffadors, who were spared out of respect to their character. The flave Vindicius had his liberty granted him; and was prefented with 25,000 ales of brafs, in value about 801. 14s. 7d. of our money. The decree for reftoring the estates of the exiled Tarquins was annulled, their palaces were destroyed, and their lands divided among the indigent people. The public only retained a piece of ground, near the Campus Martius, which the king had usurped. This they consecrated to Mars, and it afterwards became a common field where the Roman youth exercised themselves in running and wrestling. But after this confecration, the fuoerititious Romans scrupled to use the corn which they found there ready reared to their hands: fo that, with some trees, it was thrown into the Tiber; and the water being low, it stopped in the middle of the river, and began to form a fine island named afterwards Infula

The behaviour of Brutus towards his two fons flruck fuch a terror into the Romans, that scarce any person durst oppole him; and therefore, as he hated Collatinus, he openly accused him before the people, and without ceremony denoted him from the confulthin, banishing Deputes his bim at the fame time from Rome. The multitude acquiefied in every thing he faid, and refused to hear Collatinus speak in his own defence; so that the conful was on the point of being driven out with ignominy and diffrace, when Lucretius interpoled, and prevailed upon Brutus to allow his colleague quietly to refign the fasces, and retire of his own accord from the city. Brutus then, to remove all fuspicions of personal enmity, procured him a present of 20 talents out of the public treasury, to which he added five of his own. Collatinus then retired to Lavinium, where he lived in peace,

and at last died of old age.

After the abdication of Collatinus, Valeria has here fen in his room; at das his temper a reed in a detter with Brutus than that of Collat nus, the two comples lived in great harmony. Nothing, however, cou'd make the dethroned king forego the hope of recovering his 66 kingdom by force. He first en aged the Volta and The Volta Tarquinientes to join their forces in order to support his and Tarrights. The confuls marched out without delay to meet them. Brutus commanded the horie and Valcrius the worr or foot, drawn up in a fquare battalion. The two armies Farquin. being in fight of each other, Brutus advanced with his cavalry, at the fame time that Arunx, one of Tarquin's fons, was coming forward with the enemy's horie, the king himfelt following with the legions. Arunx no fooner discovered Brutus, than he made towards him with all the fury of an enraged enemy. Brutus ad-Brutas advanced towards him with no less speed; and as both Aranx kill were actuated only by motives of hatred, without each other. thoughts of felf-prefervation, both of them were pierced through with their lances. The death of the two gcnerals ferved as a prelude to the battle, which continued with the utmost fury till night, when it could not be known which fide had got the victory, or which had loft the greatest number of men. A report was forcad, however, that a voice had been heard out of a neighbouring wood, declaring the Romans conquerors; and this, probably a stratagem of Valerius, operated so powerfully on the superstitious minds of the Volsci, that they left their camp in confusion, and returned to their own country. It is faid that Valerius, having caufed the dead to be numbered, found that the Volici had loft 11,300 men, and the Romans only one thort of that number.

Valerius being left without a colleague in the confulfhip, and having for fome reasons delayed to choose one, began to be suspected by the people of aspiring at the fovereignty; and these suspicions were in some measure countenanced by his building a fine house on the steep part of the hill Palatinus, which overloked the forum, and was by them confidered as a citadel. But of this Valerius was no fooner informed, than he caused this house to be pulled down, and immediately called an affembly of the people for the election of a conful, in which he left them entirely free. They chose Lucretius; and, being ashamed of having suspected Valerius, they complimented him with a large ground-plot in an agreeable place, where they built him a house, The new conful died a few days after his promotion, to that Valerius was once more left fole governor. In the interval betwixt the death of Lucretius and the choice of another conful, Valerius gave the people to many striking proofs of his attachment to their interest, that they bestowed upon him the surname of Poplicola, or " popular;" nor was he ever called by another name afterwards.

When Poplicola's year of confulthip expired, the Romans thought fit, in confequence of the critical fituation of affairs, to elect him a fecond time, and joined with him T. Lucretius, the brother of the famous Lucretia. They began with restoring the census and luftrum; and found the number of Roman citizens, at or above the age of puberty, to amount to 120,000. As they apprehended an attack from the Latins on account of Tarquin, they were at great pains to fortify Sinquirinum or Singliuria, an important post on that

fide. Contrary to their expectations, however, the Latins remained quiet; but an haughty embally was re-Porfera in- ceived from Porfena king of Clusium in Hetruria, com-Roman ter Rome, or to reflore them their entates. To the first of these demands the consuls returned an absolute refufal; and, as to the fecond, they answered, that it was impracticable; a part of those estates having been confecrated to Mars, and the rest divided among indigent people, from whom they could not be recovered. The imminent, danger which now threatened the city, procured Valerius the honour of a third confulthip; and with him was joined Horatius Pulvilius, who had enjoyed the dignity for a few months before in the interval betwixt the death of Lucretius and the expiration of the first consulate.

and dearmy.

Horatius

While the Romans were making the most vigorous feats their preparations for defence, Porfena, attended by his fon Aronx and the exiles, marched towards the city at the head of a formidable army, which was quickly joined by a confiderable body of Latins under Mamilius, the fon-in-law of Tarquin. The confuls and the fenate took all imaginable care to fupply the common people with provisions, left famine should induce them to open the gates to Tarquin; and they defired the country people to lodge their effects in the fort Janiculum, which overlooked the city, and which was the only fortified place poffeifed by the Romans on that fide the Tiber. Porfena, however, foon drove the Romans out of this fort; upon which the confuls made all their troops pass the river, and drew them up in order of battle to defend the bridge, while Porlena advanced to engage them. The victory was a long time doubtful; but at last the Romans fled. Horatius Cocles, nephew Bravery of to the conful, with Sp. Lartius and T. Herminius, who had commanded the right wing, posted themselves at the entrance of the bridge, and for a long time bravely defended it : but at last, the desensive arms of Lartius and Herminius being broken, they retired; and then Horatius defiring them to advise the confuls from him to cut the bridge at the other end, he for a while fustained the attack of the enemy alone. At last, being wounded in the thigh, and the figual given that the bridge was almost broken down, he leaped into the river, and fwam across it through a shower of darts. The Romans, in token of gratitude for this eminent fervice, crected a statue to him in the temple of Vulcan, gave him as much land as he himfelf with one yoke of oxen gould plough in one day; and each of the inhabitants, to the number of 300,000, give him the value of as much food as each confumed in a day. But notwithstanding all this, as he had lost one eye, and from his wounds continued lame throughout the remainder of his life, these defects prevented his ever being raised to the confulate, or invested with any military com-

The city was not vet fully invested; but as it was very difficult to find provisions for such a multitude. the inhabitants foon began to be in want. Porfena being informed of their difficulties, told them that he would supply them with provisions if they would take back their old matters; but to this they replied, that hunger was a less evil than flavery and oppression. The constancy of the Romans, however, was on the point of failing, when a young patrician, named Mutius Cor-

dus, with the confent of the fenate and confuls, unders Rome? took to affaffinate Porfeha. He got access to the Hetrurian camp, disguifed like a pensant, and made his way to the king's tent. It happened to be the day on Attempt of which the troops were all reviewed and paid ; and Por-Mutius Corfena's fecretary, magnificently dreffed, was fitting on dus to affafthe fame tribunal with the king. Mutius, milaking fena. him for Porfena, infantly leaped upon the tribunal and killed him. He then attempted to make his cscape; but being feized and brought back, he owned his defign; and with a countenance expressive of desperate rage and difappointment, thrull his band which had milled the blow into a pan of burning coals which flood by, and there held it for a confiderable time. On this, Porfena, changing his refentment into admiration, granted him his life and liberty, and even restored him the dagger with which he intended to have flabbed himfelt. Mutius took it with his left hand, having loft the use of the other; and from this time had the name of Scavola, or " left-handed." He then, in order to induce Porfena to break up the fiege, invented a flory that 300 young Romans, all of them as resolute as himself, had fworn to take away the life of the king of Hetruria, or to perith in the attempt. This had the defired effect; Porfena fent deputies to Rome, whose only demands were, that the Romans should restore the estates of the Tarquins, or give them an equivalent, and give back the feven small towns which had been formerly taken from the Veintes. The latter of these demands was cheerfully complied with; but the former was still refused, until Porsena should hear the strong reasons they had to urge against it. A truce being agreed on, deputies were fent to the Hetrurian camp to plead the Roman cause against the Tarquins, and with them ten young men, and as many virgins, by way of hostages for performing the other article.

ed the jealoufy of the Tarquins; who flill retaining their ancient pride, refused to admit Porsena for a judge between them and the Romans. But the king, without any regard to their opposition, resolved to satisfy himself, by an exact inquiry, whether the protection he had given the Tarquins was just. But while the cause was ready to be opened before the Roman deputies, news were brought that the young women whom the Romans had fent as hoftages had ventured to fwim across the Tiber, and were returned to Rome. They had gone to Adventure bathe in the river, and Claelia happening to turn her of Cladia. eyes towards her native city, that fight railed in her a defire of returning to it. She therefore ventured to fwim across the river; and having encouraged her companions to follow her, they all got fafe to the opposite shore, and returned to their fathers houses. The return of the hostages gave the conful Poplicola great uneafiness; he was afraid lest this rash action might be imputed to want of fidelity in the Romans. To remove therefore all fuspicions, he sent a deputation to the Hetrurian camp, affuring the king that Rome had no share in the foolish attempt of the young women; and promising to fend them immediately back to the camp from whence they had fled. Porfena was eafily appealed; but the Treachers news of the speedy return of the hostages being known of the Tarin the camp, the Tarquins, without any regard to the quins, truce, or respect to the king their protector, lay in am-

buth on the road to furprife them. Poplicola having

The reception which Porfena gave the deputies raif-

Romei put himfelf at the head of the Roman troops who efcorted them, instained the attack of the Tarquins, though fadden and unexpected, till his daughter Valeria rode full faced to the Hetrurian camp, and gave notice of the danger her father and companions were in; and then Arunx, the king's fon, flying with a great body of cavalry to their relief, put the aggressors to the rout.

This notorious piece of treachery in the Tarquins gave Porfens Arong Suspicions of the badness of their cause. He therefore assembled the chief commanders of the Hetrurians; and having heard in their prefence the complaints of the Romans, and the justification of their proceedings against the Tarquins, he was so struck with horror at the recital of the crimes the Tarquins were charged with, that he immediately ordered them to leave his camp; declaring, that he renounced his alliance with them, and would no longer continue the hospitality he had thown them. He then commanded the ten young virgins to be brought before him, and inquired who was the first author and chief manager of the enterprise. They all kept filence, till Clælia herself, with an air of intrepidity, confessed, that the alone was guilty, and that she had encouraged the others by her advice. Upon this the king, extolling her resolution above the bravery of Horatius and the intrepidity of Mutius, made her a prefent of a fine horse, with sumptuous furniture. After this he concluded a peace with the Romans, and reffored to them all their hostages; declaring, that their bare word was to him a fufficient

fecurity for the performance of the articles. And now Porlena being about to return to Clufium. gave, before his departure, a further testimony of his respect and friendship for the Romans. He knew that Rome was greatly distressed for want of provisions; but being afraid to offend the inhabitants by relieving them in a direct manner, he ordered his foldiers to leave behind them their tents and provisions, and to carry nothing with them but their arms. As his camp abounded with all forts of provisions. Rome was hereby much relieved in her wants. The moveables and corn of the Hetrurians were fold by auction to private persons; and on this occasion the Romans took up the custom of making a proclamation by an herald, whenever any effects belonging to the public were to be fold, in the following words, Thefe are Porfena's goods. The defign of this was to preferve the memory of that prince's kindness. The senate, not fatisfied with this, erected a statue of the king near the comitium, and fent an embaffy to him with a prefent of a throne adorned with ivory, a fceptre, a crown of gold, and a triumphal robe.

had hitherto been in. However, they did not yet enjoy tranquillity. The Sabines revolted, and continued the war for fome time with great obstinacy : but being defeated in leveral engagements, they were at last obliged to fubmit; and fearce was this war ended, when another began with the Latins, who now declared for King The Latins Tarquin. Before they began this war, however, an emdeclare for baffy was fent to Rome, the purport of which was, that the Romans (hould raife the fiege of Fidenz which had revolted, and receive the Tarquins; who, on their part, should grant a general ampesty. The ambassadors were to allow the Romans a whole year to confider on these overtures; and to threaten them with a war in case

Thus the Romans escaped the greatest danger they

they refused to comply with them. The chief view of. Rome. Tarquin and his partifans in promoting this embally was, to lay hold of that opportunity to raife a fedition in the city. To the ambaffadors, therefore, of the Laz tins, he joined some of his own emissaries; who, on their arrival in the city, found two forts of people disposed to enter into their measures; to wit, the flaves, and the meaner citizens,

The flaves had formed a conspiracy the year before A dangeto feize the Capitol, and fet fire to the city in feveral rous conquarters at the same time. But the plot being disco-spiracy vered, those who were concerned in it had been all cru-against the cified, and this execution had highly provoked the fate, whole body of flaves. As to the meaner citizens, who were for the most part overwhelmed with debt, and cruelly used by their creditors, they were well apprifed that there could happen no change in the government but to their advantage. These were the conspirators pitched upon, and to them were given the following parts to act: the citizens were to make themfelves matters of the ramparts and gates of the city, at an appointed hour of the night; and then to raife a great shout as a fignal to the slaves, who had engaged to malfacre their mafters at the fame inflant; the gates of the city were then to be opened to the Tarquins. who were to enter Rome while it was yet reeking with the blood of the fenators. The confpiracy was rive for execution, when Tarquin's principal agents, Publius and Marcus, both of his own name and family, being terrified with frightful dreams, had not courage enough to proceed in their defign till they had confulted a diviner. However, they did not discover to him the confpiracy; but only asked him in general terms, what success they might expect in a project they had formed? The foothfayer, without the least hesitation, returned the following answer: Your project will end in your ruin; difbur- how difceden yourselves of so heavy a load. Hereupon the Tar-vered. quins, fearing left fome of the other confpirators should be beforehand with them in informing, went immediately to S. Sulpitius, the only conful then at Rome, and discovered the whole matter to him. The conful greatly commended them, and detained them in his house, till, by private inquiries, he was affared of the truth of their depositions. Then he affembled the senate, and gave the Latin ambaffadors their audience of leave, with an answer to their proposals; which was, that the Romans would neither receive the Tarquins, nor raife the fiege of Fidenæ, being all to a man ready to facrifice their lives in defence of their liberties, and willing to undergo any dangers rather than submit to the government of a tyrant.

The ambaffadors being difmiffed with this answer, and conducted out of the city, Sulpitius laid open to the fathers the dreadful conspiracy. It flruck them with horror: but they were all at a loss in what manner they should apprehend and punish the guilty; since, by the law of Poplicola, there was an appeal to the people in all capital cases; and the two witnesses, who were ftrangers, might be excepted against by Roman citizens. to this perplexity they left the whole conduct of this critical affair to Sulpitius; who took a method which he thought would equally ferve to prove the guilt and punish the guilty. He engaged the two informers to affemble the conspirators, and to appoint a rendezvous at midnight in the forum, as if they defigned to take

abandons their cause

a peace with the Romans, and re-Neves them.

Tarquin.

the last measures for the execution of the enterprise. In the mean time he used all proper means to sccure the city, and ordered the Roman knights to hold themselves ready, in the houses adjoining to the forum, to execute the orders they thould receive. The confinators met at the time and place appointed by the two Tarquins; and the knights, upon a fignal agreed on beforehand, inveited the forum, and blocked up all the avenues to it to closely, that it was impossible for any of the conspirators to make their escape. As foon as it was light, the two confuls appeared with a ftrong guard on the tribu-nal; for Sulpitius had fent to his colleague Manius, who was belieging Fidence, defiring him to haften to the city with a chosen body of troops. The people were convened by curiæ, and acquainted with the confpiracy which had been formed against the common liberty. The accused were allowed to make their defence, if they had any thing to offer against the evidence; but not one of them denving the fact, the confuls repaired to the fenate, where fentence of death was pronounced against the conspirators, in case the people approved it.

This decree of the fenate being read to and approved The confaiby the affembly, the people were ordered to retire, and the confpirators were delivered up to the foldiers, who put them all to the fword. The peace of Rome was thought fufficiently fecured by this stroke of feverity; and therefore, though all the conspirators were not punished with death, it was judged proper not to make any further inquiries. The two informers were rewarded with all the privileges of Roman citizens, 100,000 afes, and 20 acres of land. Three feftival days were appointed for expiations, facrifices, and public games, by way of thankfgiving to the gods. But the general joy was disturbed by a melancholy accident; as the people were conducting Manius Tullius the conful from the circus to his house, he fell from his chariot, and died

three days after.

The city of Fidence was not yet reduced: it held out during the following confulfhip of T. Æbutius and P. Veturius; but was taken the n xt year by T. Lartius, who, together with O. Chelius, was raifed to the confular dignity. The Latins, enraged at the lofs of this town, began to complain of their leading men; which opportunity Tarquin and Mamilius improved fo far, as to make all the L tin cities, 21 in number, enter into an alliance against Rome, and to bind themselves by oath never to violate their engagements. The Latins made vaft preparations, as did likewife the Romans; but the latter could procure no affidance from their neighbours. As the Latin nation was much fuperior to them in flrength, they fent deputies to folicit fuccours from the feveral flates with which they were furrounded: but their negociations proved every where unfuccefsful; and, what was worfe than all, the republic had rebellious fons in her own bofom, who refused to lend their aid in defence of their country. The moorer fort of people, and the debtors, refused to take the mili-Diturban- tary oaths, or to ferve; alleging their poverty, and the fruitless hazards they ran in fighting for the defence of a city, where they were on reffed and enflaved by their creditors. This fpirit of matiny f read among the inferior classes, most of them refusing to lift themselves unless their debts were all remitted by a decree of the fenate; nav, they began to talk of leaving the city, and

The fenate, apprehending a general infurrection, af- Rome. fembled to deliberate on the met ns of quieting those domestic troubles. Some were for a free remulion of all debts, as the fafest expedient at that juncture; others urged the dangerous confequences of such a condefeenfion, advising them to lift fuch only as were willing to ferve, not doubting but those who retused their af-fittance would offer it of their own accord when it was no longer defired. Several other expedients were proposed; but at length this prevailed; to wit, that all actions for debts thould be suspended till the conclusion of the war with the Latins. But this the indigent debtors thought only a suspension of their misery; and therefore it had not the intended effect on the minds of the unruly multitude. The fenate might indeed have profecuted the ringleaders of the fedition; but the law of Poplicola, called the Valerian law, which allowed appeals to the affembly of the people, was a protection for the feditious, who were fure of being acquitted by the accomplices of their rebellion. The fenate, therefore, to elude the effect of a privilege that put fuch a restraint upon their power, resolved to create one supreme magistrate, who, with the title of dictator, should have an absolute power for a time: but as this could not be done without striking at the law of Poplicola, and transferring the power of the people in criminal cases to a magistrate superior to all laws, it was necessary to use artifice, in order to obtain the consent of the curiæ. They therefore represented to them in a public affembly, that, in fo difficult a conjuncture, when they had their domestic quarrels to decide, and at the fame time a powerful enemy to repulfe, it would be expedient to put the commonwealth under a fingle A dictator governor, who, fuperior to the confuls themselves, should reated. be the arbiter of the laws, and as it were the father of

his country; that his power should have no limits; but. however, left he should abuse it, they ought not to truth him with it above fix months. The people, not forefeeing the confequences of this change, agreed to it; but the greatest difficulty was to

find a man duly qualified in all respects for so great a truft. T. Lartius, one of the confuls, feemed to be of all men the most unexceptionable; but the senate, fearing to offend his colleague by an invidious preference, gave the confuls the power of choosing a dictator, and obliged them to name one of themselves, not doubting but Clorlius would vield to the superior talents of his colleague; nor were they diff ppointed in their expectations. But Lartius, with the fame readinefs, named Closlins; and the only contest was, which of the two should raise the other to the supreme authori v. Each perfifted o' di a elv in remitting the dignity to his colleague, till C'clius, flarting up on a fidden, ab licated the confilling, and, after the manner of an interiex, proclaimed Titus Lartius dictator, who

of the republic.

Lartius inde d took as much flate upon him, after he He ch ofes had entered upon his office, as he had shown modesty in a gen ral refuling it. He began by creating, without the partici-of horse. pation either of the fenate or 1 cople, a general of the Roman borfe : an office which lafted only during the dichatorthip, and which all fubfiquent dictators revived immediately after their election. Sp. Caffins, formerly conful, and honoured with a triumph, was the perfon he advan-

the Ko-

mans.

Rome. ced to this second station in the republic. Lartius, having by this means fecured the Roman king, i.e., refolved, him. With this view he never a penied in public, with-out being attended by 24 lictors, to whole faces he again added the axes which Profer 11 d caufed to be taken from them. The noverty of this fight was alone fufficient to awe the leditious, and, without executions, to foread confernation throughout Rome. The aranmurs of the inferior classes being by this means talenced, the dictator commanded a centus to be taken, according to the inflitution of King Servius. Every one, without exception, brought in his name, age, the particulars of his Number of estate, &c. and there appeared to be in Home 150,700 men who were pail the age of puberty. Out of these the dictator formed four armies: the first he commanded himfelf; the fecond he gave to Chelius his late colleague; the third to Sp. Cathus his general of the horse; and the fourth he left in Rome, under the command of his brother So. Larius, who was to guard the city. The Lains not being fo forward in their preparations as was expected, all their hostilities against Rome this campaign amounted to no more than the fending a detachment into the Roman territory to lay it watte. The dictator gained some advantage over that party; and the great humanity with which he treated the prifoners and wounded, difposed the Latins to litten the more readily to the overtures which he at the fame time made them for a fuspension of hostilities. At length a truce was agreed on for a year; and then Lartius, feeing the dictatorship, though the time appointed for its du-

ration was not yet expired.

The following confulthip of Sempronius Atratinus and Minutius Angurinus, produced nothing memorable. But the next year the truce expired, when Aulus Posthumius and T. Virginius took possession of the confulfhip. Both Romans and Latins were bufied in making the necessary preparations for war. The nobility of Latium, who were for the most part in the interest of the Tarquins, having found means to exclude the citizens from the Latin diets, carried all before them in these assemblies; whereupon many of the citizens removed with their families to Rome, where they were well received. The Latins being bent upon war, the fenate, notwithstanding the perfect harmony that reigned between them and the people, thought it expedient to create a dictator. The two confuls were therefore impowered to name one of themsclves to that dignity; whereupon Virginius readily yielded it to his colleague Posthumius, as the more able commander. The new dictator, having created Æbutius Elva his general of the horse, and divided his army into four bodies, left one of them, under the command of Sempronius, to guard the city; and with the other three, commanded by himself, Virginius, and Æbutius, marched out against the Latins, who, with an army of 40,000 foot and 3000 horse, under the com-mand of Sextus Tarquinius, Titus Tarquinius, and Mamilius, had already made themselves masters of Corbio, a strong-hold belonging to the republic, and put the garrison to the fword. Posthumius encamped in the night on a fleep hill near the lake Regillus, and Virginius on another hill over-against him. Æbutius was ordered to march filently in the night, with the cavalry and light-armed infantry, to take possession of Rome. a trird hill upon the road, by which providens must be

vigorov ly attacked by Lucius Tarquinius, whom he routes three times with great loss, the dictator having fort him a timely reint coment. A ter this, JEthe Latin generals, and, by letters found upon them, diffeored, that a confiderable army of the Volici and Upon this intelligence, Potthumius drew his three bodies of troops together, which amounted in all to no more than 24,000 foot and 1000 horfe, with a defign to engage the enemy before the arrival of the faccours they expedied. Accordingly he encouraged his man, and, with his army in battle-array, advanced to the place where the enemy was encamped. The Latins, who were much superior to the Romans in numbers, and befides began to want provisions, did not decline the engagement. Titus Tarquinius, at the head of the Roman exiles and deferters, was in the centre, Mamilius in the right wing, and Sextus Tarquinius in the left. In the Roman army the dictator commanded in the centre, Æbutius in the left wing, and Virginius in

The first body which advanced was that of the dictator; and, as foon as it began to march, T. Tarquinius, fingling out the dictator, ran full freed against him. The dictator did not decline the encounter, but, flying at his advertary, wounded him with a javelin in the right fide. Upon this, the first line of the Latins advanced to cover their general; but he being carried out of the field, they made but a faint reliftance when charged by the troops of the dictator. They were dcflitute of a leader; and therefore began to retire, when Sextus Tarquinius, taking the place of his brother, brought them back to the charge, and renewed the fight with fuch vigour, that the victory in the centre was still doubtful. On the fide of Mamilius and Æbutius, both parties, encouraged by the example of their After a long and loody contest, the two generals agreed to determine the doubtful victory by a fingle combat. Accordingly the champions pushed on their horses against each other. Æbutius with his lance wounded Mamilius in the breaft; and Mamilius with his fword Æbutius in the right arm. Neither of the wounds were mortal; but, both generals falling from their horses, put an end to the combat. Marcus Valerius, the brother of Poplicola, fupplying the place ot Æbutius, endeavoured, at the head of the Roman horfe, to break the enemy's battalions; but was repulfed by the cavalry of the Roman royalists. At the fame time Mamilius appeared again in the van, with a confiderable body of horse and light-armed infantry. Valerius, with the affillance of his two nephews, the fons of Poplicola, and a chosen troop of volunteers, attempted to break through the Latin battaliors, in order to engage Mamilius; but being furrounded by the Roman exiles, he received a mortal wound in his fide, fell from his horse, and died. The dead body was carried off by the two fons of Poplicola, in spite of the utmost efforts of the exiles, and delivered to Va lerius's fervants, who conveyed it to the Roman c mp .

Eattle of Regillus.

danger.

but the young heroes being afterwards invested on all fides, and overpowered by numbers, were both killed on the fpot. Upon their death, the left wing of the Romans began to give ground, but were foon brought back by Potthumius; who, with a body of Roman knights, flying to their affirtance, charged the royalifts with fuch fury, that they were, after an obstinate refillance, obliged to give way, and retire in the utmost confusion. In the mean time Titus Horminius, one of the dictator's lieutenants, having rallied those who had fled, fell upon fome close battalions of the enemy's left wing, which still kept their ground under the command of Mamilius, killed him with his own hand, and put that body to flight. But while he was bufy in stripping the body of his enemy, he received him-

felf a wound, of which he died foon after. Sextus Tarquinius in the mean time maintained the fight with great bravery, at the head of the left wing,

against the conful Virginius; and had even broke through the right wing of the Roman army, when the dictator attacked him unexpectedly with his victorious fquadrons. Then Sextus, having loft at once all hopes of victory, threw himfelf, like one in despair, into the midit of the Roman knights, and there funk under a multitude of wounds, after he had diftinguished himfelf in a most eminent manner. The death The Latins entirely de- of the three generals was followed by the entire defeated, and feat of the Latin army. Their camp was taken and their camp plundered, and most of their troops cut in pieces; for, of the 43,000 men who came into the field, scarce 13,000 returned home. The next morning the Volici and Hernici came, according to their agreement, to athil the Latins; but finding, upon their arrival, how matters had gone, fome of them were for falling upon the Romans before they could recover from the fatigue of the preceding day; but others thought it more fale to fend ambaffadors to the dictator, to congratulate him on his victory, and affure him that they had left their own country with no other defign than to affift Rome in fo dangerous a war. Posthumius, by producing their couriers and letters, gave them to understand that he was well apprifed of their defigns and treacherous proceedings. However, out of a regard to the law of nations, he fent them back unhurt, with a challenge to their generals to fight the next day; but the Volfei, and their confederates, not casing to engage a victorious army, decamped in the night, and returned to their respective countries before break

The Latins having now no remedy but an entire fub-The whole miffion fent ambaffadors to folicit a peace at Rome, yielding themselves absolutely to the judgement of the senate. As Rome had long fince made it a maxim to spare the nations that submitted, the motion of Titus Lartius, the late dictator, prevailed; and the ancient treaties with the Latins were renewed, on condition, however, that they should restore the prisoners they had taken, deliver up the deferters, and drive the Roman exiles out of Latium. Thus ended the last war which the Romans waged with their neighbours on account of their banished king; who, being now abandoned by the Latins, Hetrurians, and Sabines, retired into Campania, to Aristodemus tyrant of Cumæ, and there died, in the goth year of his age and 14th of his exile.

The Romans were no fooner freed from these dan-

gerous wars, than they began to oppress one another; Rome and those domestic feuds took place which continued more or less during the whole time of the republic. The first disturbances were occasioned by the opprel- New difion of the plebeians who were debtors to the patri. flurbances cians. The fenate, who were at the head of the patri- at Rome. cians, chose to the consulate one Appius Claudius, who violently opposed the pretentions of the plebeians; but gave him for his colleague one P. Servilius, who was of a quite contrary opinion and disposition. The confequence of this was, that the confuls difagreed; the fenate did not know what to determine, and the people were ready to revolt. In the midft of these disturbances, an army of the Volsci advanced towards Rome; the people refused to serve; and had not Servilius procured fome troops who ferved out of a personal af-

fection to himself, the city would have been in great

But though the Volsci were for this time driven back, they had no intention of dropping their defigns; they engaged in an alliance with them the Hernici and Sabines. In the mean time, the disputes at Rome continued with as much violence as ever. Nay, though they were expressly told that the Volscian army was on its way to befiege the city, the plebeians absolutely refused to march against them; faying, that it was the same thing whether they were chained by their own countrymen or by the enemy. In this extremity Servilius promifed, that when the enemy were repulfed the fenate would remit all the debts of the plebeians. This having engaged them to ferve, the conful marched out at their head, defeated the enemy in a pitched battle, and took their capital, giving it up to be plundered by his foldiers, without referving any part for the pub-

lic treasury.

Whatever might have been the reasons of Servilius for this step, it furnished Appius with a pretence for refusing him a triumph, as a man of a seditious dispofition, who aimed at popularity by an excessive indulgence and profuseness to his soldiers. Servilius, incenfed at this injustice, and encouraged by the acclamations of the people, decreed himfelf a triumph in spite of Appius and the fenate. After this he marched against the Aurunci, who had entered Latium; and, in conjunction with Posthumius Regillens, he utterly defeated them, and obliged them to retire into their own country. But neither the services of the general nor his foldiers could mollify the fenate and patrician party. Appius even doubled the feverity of his judgements, and imprisoned all those who had been set at liberty during the war. The prisoners cried for relief to Servilius; but he could not obtain the accomplishment of those promises which the senate never had meant to perform; neither did he choose to quarrel openly with the whole patrician body; fo that, flriving to preferve the friendship of both parties, he incurred the hatred of the one and the contempt of the other. Perceiving therefore that he had loft all his interest with the plebeians, he joined with the patricians against them; but the plebeians rufhing tumultuously into the forum, made fuch a noise, that no sentence pronounced by the judges could be heard, and the utmost confusion prevailed through the whole city. Several propofals were made to accommodate matters; but through the obitinacy of Appius and the majority of the lenators, they

Death of Eniquin.

mits.

Rome. all came to nothing. In the mean time it was neceffary to raife an army against the Sabines, who had invaded the territories of the republic; but the people refuled to ferve. Manius Valerins, however, brother to the celebrated Poplicola, once more prevailed upon them to march out against the common enemy; having previously obtained-affurances from the fenate that their grievances should be redressed. But no fooner had victory declared in favour of the Romans, than the fenate, apprehending that the foldiers at their return would challenge Valerius, who had been nominated dictator, for the performance of their promises, defired him and the two confuls to detain them still in the field, under pretence that the war was not quite finished. The confuls obeyed; but the dictator, whose authority did not depend on the fenate, difbanded his army, and declared his foldiers free from the oath which they had taken; and as a further proof of his attachment to the plebeians, he chose out of that order 400. whom he invested with the dignity of knights. Af er this he claimed the accomplishment of the promifes made by the senate . but instead of performing them, he had the mortification to hear himfelf loaded with reproaches; on which he refigned his office as dictator, and acquainted the people with his inability to ful-

The foldiers fil nis engagements to them. No fooner were these transactions known in the army, than the foldiers, to a troubles are man, deferted the confuls and other officers, and retired o a hill called afterwards Mons Sacer, three miles from Rome, where they continued to observe an exact the people, discipline, offering no fort of violence whatever. The fenate, after taking proper measures for the desence of the city, fent a deputation to the malcontents; but it was answered with contempt. In short, all things tended to a civil war, when at last matters were compromited by the inititution of tribunes of the people, who had power to prevent the passing of any law that might be prejudicial to the people, and whose persons were declared facred, infomuch that whoever offered the least violence to the person of a tribune was declared accurfed, his effects were to be confecrated to Ceres, and he himself might be killed with impunity; and all the Romans were to engage themselves, in their own name and that of their posterity, never to repeal this law. The people, after these regulations, erected an altar to Jupiter the Terrible, on the top of the hill where their camp had flood; and when they had offered facrifices to the god, and confecrated the place of their retreat, they returned to Rome, led by their new magistrates and the deputies of the senate.

Thus the Roman conflitution, which had originally been monarchic, and from thence had passed into an ariftocracy, began now to verge towards a democracy. The tribunes immediately after their election obtained permission from the senate to elect two persons as their ministers or assistants, who should ease them a little in the great multiplicity of their affairs. They were called plebeian ædiles; and afterwards came to have the infpection of the public baths, aqueducts, with many other offices originally belonging to the confuls, after which they were called fimply ædiles.

All opposition to the making of regular levies being now at an end, the conful Cominius led an army against the Volsci. He defeated them in battle, and took from them Longula and Polusca; after which he Vol. XVIII. Part I.

besieged Corioli, a city strongly fortified, and which Rome, might be called their capital. He carried this place, and gained a victory over the Antiates, the fame day ; Bravery of but Caius Marcius, an eminent patrician, had all the Caius Marglory of both actions. The troops detached by the in Corneconful to scale the walls of Corioli being repulled in lanus. their first affault, Marcius rallied the runaways, led them on afresh to the charge, drove back the enemy within their walls, and, entering the city with them, made himself matter of it. This exploit atchieved, he with all expedition put himfelf in the foremost ranks of the conful's main army, that was just going to engage with the Antiates, who were come to the relief of the place; and there he behaved with equal brayery, and had equal fuccefs.

The next day, the conful, having erected his tabunal before his tent, called the foldiers together. His while speech to them was little more than a panegyric up in Marcius. He put a crown upon his head; affigued him a tenth part of all the spoil; and, in the name of the republic, made him a present of a fine horse with flately furniture, giving him leave at the fame time to choose out any ten of the prisoners for himself; and laftly, he allotted him as much money as he could carry away. Of all these offers Marcius accepted only the horse, and one captive of the ten, an old friend of his family, that he might give him his liberty. To add to the glory of the brave warrior, the conful bestowed on him the furname of Coriolanus, transferring thereby from himself to Marcius all the honour of the conquest of Corioli. Cominius, at his return to Rome, difbanded his army; and war was succeeded by works of religion, public games, and treaties of peace. A cenfus and a luftrum closed the events of this memorable confulfhip. There appeared to be in Rome at this time no tion of the more than 110,000 men fit to bear arms; a number by power of many thousands less than at the last enrollment. Doubt-the Roless great numbers had run away to avoid being flaves mans.

to their creditors. Under the following administration of T. Geganius and P. Minucius, Rome was terribly afflicted by a famine, occasioned chiefly by the neglect of plaughing and fowing during the late troubles; for the fedition had happened after the autumnal equinox, about fowing-time, and the accommodation was not made till just before the winter follice. The fenate dispatched A famine agents into Hetruria, Campania, the country of their the city. Volsci, and even into Sicily, to buy corn. Those who embarked for Sicily met with a tempest which retarded their arrival at Syracufe; where they were conftrained to pass the winter. At Cumæ, the tyrant Aristodemus scized the money brought by the commissaries; and they themselves with difficulty faved their lives by flight. The Volfci, far from being disposed to succour the Romans, would have marched against them, if a fudden and most destructive pestilence had not deseated their purpole. In Hetruria alone the Roman commissaries met with fuccess. They fent a confiderable quantity of grain from thence to Rome in barks : but this was in a fhort time confumed, and the milery became exceffive : the people were reduced to eat any thing they could get; and nature in fo great extremity loathed no-

During this diffress a deputation came from Velitre 4 colony a Volscian city, where the Romans had formerly plant, lent to Veed lite.

revolt, but all the creating tribunes of Rome. ed a colony, representing that nine parts in ten of its inhabitants had been fwept away by a plague, and praying the Romans to fend a new colony to re-people it. The conscript fathers without much hefitation granted the request, pressed the departure of the colony, and without delay named three leaders to con-

The people at first were very well pleased with the proposal, as it gave them a prospect of relief in their hunger; but when they reflected on the terrible havoc the plague had made among the old inhabitants of Velitree, they began to fear that the place might be fill infected; and this apprehension became so universal, that not one of them would confent to go thither. Nevertheless the senate at length published a decree that all the citizens should draw lots; and that those to whose lot it fell to be of the colony should instantly march for Velitræ, or suffer the severest punishments for their disobedience: fear and hunger made the people comply; and the fathers, a few days after, fent away a fecond colony to Norba, a confiderable city of Latium. But the patricians were disappointed as to the benefit they expected from these measures. The plebeians who remained in Rome being more and more pressed by hunger and want, grew daily more angry with the fenate. At first they affembled in small companies to vent their wrath in abusive complaints; and at length, in one great body, rushed all together into the forum, calling out upon their tribunes for fuccour.

The tribunes made it their business to heighten the general discontent. Having convened the people, Spurius Icilius, chief of the college of tribunes, inveighed most bitterly against the senate; and when he had ended his harangue, exhorted others to speak freely their thoughts; particularly, and by name, calling upon Brutus and Sicinius, the ringleaders of the former fedition, and now ædiles. These men, far from attempting to extinguish the fire, added fresh fuel to it : And the more to inflame the fpirits of the multitude, they enumerated all the past infults which the people had suffered from the nobles. Brutus concluded his harangue with loudly breatening, that if the plebeians would follow his advice, he would foon oblige those men who had caused the present calamity to find a remedy for it; after which

the affembly was difmiffed.

The next day, the confuls, greatly alarmed at this commotion, and apprehending from the menaces of Brutus fome very mischievous event, thought it adviable to convene the fenators, that they might confider of the best means to avert the impending evil. The fathers could not agree in opinion. Some were for employing foft words and fair promifes to quiet and gain over the most turbulent. But Appius's advice prevailed: which was, that the confuls should call the people together, affire them that the patricians bad not brought bon them the mileries they fuffered, and promife, on the part of the fenate, all possible care to provide for their necessities; but at the same time should reprove the disturbers of the public peace, and threaten them with the feverest punishments if they did not amend their

When the confuls, towards the close of the day, having affembled the people, would have fignified to them the disposition and intention of the senate, they were interrupted by the tribunes. A dispute enfued,

in which no order or decency was observed on either Rome. fide. Several speaking at the same time, and with great vociferation, no one could be well understood by the audience. The confuls judged, that being the fuperior magistrates, their authority extended to all affemblies of the citizens. On the other fide, it was pretended, that the affemblies of the people were the province of the tribunes, as the fenate was that of the

The difpute grew warm, and both parties were ready to come to blows; when Brutus having put some queflions to the confuls, ended it for that time. Next day The power he proposed a law which was carried, that no person of the whatever should interrupt a tribune when speaking in people in-an assembly of the people; by which means the influence and power of the popular party was confiderably increased, and the tribunes became formidable opponents to the confuls and patricians. An opportunity foon offered for both parties to try their strength. A great fleet of thips laden with corn from Sicily, a great part of which was a present from Gelon the king of that country to the Romans, and the rest purchased by the senate with the public money, raised their spirits once more.

But Coriolanus incurred their refentment, by infifting that it should not be distributed till the grievances of the fenate were removed. For this, the tribunes fummoned him to a trial before the people, under pretence that he

aspired at the sovereignty.

When the appointed day was come, all persons were Coriolanus filled with the greatest expectations, and a vast concourse banished. from the adjacent country affembled and filled up the forum. Coriolanus, upon this, presented himself before the people with a degree of intrepidity that merited better fortune. His graceful person, his persuasive eloquence, the cries of those whom he had faved from the enemy, inclined the auditors to relent. But being confounded with a new charge which he did not expect, of having embezzled the plunder of Antium, the tribunes immediately took the votes, and Coriolanus was con-

demned to perpetual exile. This fentence against their bravest defender struck the whole body of the fenate with forrow, conflernation, and regret. Coriolanus alone, in the midst of the tumult, seemed an unconcerned spectator. He returned home, followed by the lamentations of hundreds of the most respectable senators and citizens of Rome, to take a lasting leave of his wife, his children, and his mother Vetoria. Thus recommending his little children to their care, he left the city, without followers or fortune, to take refuge with Tullus Attius, a man of great power

among the Volfcians, who took him under his protec-

tion, and espoused his quariel,

The first thing to be done, was to induce the Volsci He leaves to break the league which had been made with Rome; the city. and for this rurpofe Tullus fent many of his citizens this and joins ther, in order to fee fome games at that time celebrating; but at the same time gave the senate private information, that the firangers had dangerous intentions of burning the city. This had the defired effect; the fenate iffued an order that all ftrangers, whoever they were, should depart from Rome before funset. This order Tullus represented to his countrymen as an infraction of the treaty, and procured an embasiv to Rome, complaining of the breach, and demanding back all the

territories belonging to the Volfcians, of which they had been violently dispossessed; declaring war in case of a refusal: but this message was treated by the senate with contempt.

Romans.

Gsins great War being thus declared on both fides, Coriolanus advantages and Tullus were made generals of the Volscians; and accordingly invaded the Roman territories, ravaging and laying wafte all fuch lands as belonged to the plebeians, but letting those of the senators remain untouched. In the mean time, the levies went on very flowly at Rome; the two confuls, who were re-elefted by the people, feemed but little skilled in war, and even feared to encounter a general whom they knew to be their fuperior in the field. The allies also showed their fears, and flowly brought in their fuccours; fo that Coriolanus continued to take their towns one after the other. Fortune followed him in every expedition; and he was now to famous for his victories, that the Voltei left their towns defenceless to follow him into the field. The very foldiers of his colleague's army came over to him, and would acknowledge no other general. Thus finding himself unopposed in the field, and at the head of a numerous army, he at length invested the city of Invests the Rome itself, fully resolved to besiege it. It was then that the fenate and the people unanimously agreed to fend deputies to him, with proposals of restoration, in cafe he should draw off his army. Coriolanus received their proposals at the head of his principal officers, and, with the flernness of a general that was to give the law, refused their offers.

> Another embaffy was now fent forth, conjuring him not to exact from his native city aught but what became Romans to grant. Coriolanus, however, fill perfifted in his former demands, and granted them but three days in which to finish their deliberations. In this exigence, all that was left was another deputation fill more folemn than either of the former, composed of the pontiffs, the priefts, and the augurs. Thefe, cloathed in their habits of ceremony, and with a grave and mournful deportment, issued from the city, and entered the camp of the conqueror : but all in vain, they found him

> fevere and inflexible as before. When the people faw them return ineffectually, they

> began to give up the commonwealth as loft. Their temples were filled with old men, with women and children, who, proftrate at their altars, put up their ardent prayers for the preservation of their country. Nothing was to be heard but anguish and lamentation, nothing to be feen but scenes of affright and distress. At length it was fuggested to them, that what could not be effected by the intercession of the senate or the adjuration of the priests, might be brought about by the tears of his wife, or the commands of his mother. This depuitself gave it the fanction of their authority. Veturia, the mother of Coriolanus, at first made some hesitation to undertake fo pious a work : however, the at last undertook the embaffy, and fet forward from the city, accompanied by many of the principal matrons of Rome, lanus, who at a diffance, discovered this mournful train of females, was refolved to give them a denial, and called his officers round him to be witness of his refolution; but, when told that his mother and his wife were among the number, he instantly came down from

his tribunal to meet and embrace them. At first, the Rome women's tears and embraces took away the power of words; and the rough foldier himfelf, hard as he was, could not refrain from flaring in their dittrefs. Coriolanus now feemed much agitated by contending paffions; while his mother, who faw him moved, seconded her words by the most persuasive eloquence, her tears : his wife and children hung round him, intreating for protection and pity; while the fair train, her companions, added their lamentations, and deployed their own and their country's diffres. Coriolanus for a moment was filent, feeling the strong conflict between bonour and inclination : at length, as if rouzed from his dream, he flew to take up his mother, who had fallen at his feet, crying out, " () my mother, thou hatt faved Rome, but loft thy fon," He accordingly gave orders to draw off the army, pretending to the officers that the city was too firong to be taken. Tullus, who had long envied his glory, was not remifs in aggravating the lenity of his conduct to his countrymen. Upon their return. Coriolanus was flain in an infurrection of the people, and afterwards honourably buried, with late and the Volice ineffectual repentance.

The year tollowing, the two confuls of the former year. Manlius and Fabius, were cited by the tribunes to appear before the people. The Agrarian law, which New dihad been proposed some time before, for equally divid- surban esing the lands of the commonwealth among the people, was the object invariably purfued, and they were accused of having made unjustifiable delays in putting

It feems the Agrarian law was a grant the finate could not think of giving up to the people. The confuls, therefore, made many delays and excuses, till at length they were once more obliged to have recourse to a dictator; and they fixed upon Quintus Cincinnatus, a man who had for some time given up all views of ambition, and retired to his little farm, where the deputies of the fenate found him holding the plough, and dreffed in the mean attire of a labouring husbandman. He appeared but little elevated with the addresses of ceremony and the pompous habits they brought him; and, upon declaring to him the fenate's pleature, he testified rather a concern that his aid should be wanted. However, he departed for the city, where both parties were firongly inflamed against each other: but he was resolved to fide with neither; only, by a strict attention to the interests of his country, inslead of gaining the confidence of faction, to obtain the effeem of all. Thus, by threats and well-timed submission, he prevailed upon the tribunes to put off their law for a time, and carried himfelf fo as to be a terror to the multitude whenever they refused to enlist; and their greatest encourager whenever their submission deserved it. Thus, Quelled by having referred that tranquillity to the people which he Cincinnafo much loved himself, he again gave up the splendors tus, of ambition, to enjoy it with a greater relish in his little

Cincinnatus was not long retired from his offige when a fresh existence of the state once more required his affiftance. The Æqui and the Volfci, who, though ftill worlled, ftill were for renewing the war, made new inro ds into the territories of Rome. Minuthus, one of the confuls who fucceeded Cincinnatus, was fent to oppose them; but being naturally timid, and rather more

But ab.mat the inof his mo-

Agrarian law.

who faves a confular

afraid of being conquered than defirous of victory, his army was driven into a defile between two mountains, from which; except through the enemy, there was no egress. This, however, the Æqui had the precaution to fortify; by which the Roman army was fo hemmed definaction in on every fide, that nothing remained but submittion to the enemy, famine, or immediate death. Some knights, who found means of getting away privately through the enemy's camp, were the first that brought the account of this difaster to Rome. Nothing could exceed the conflernation of all ranks of people when informed of it. The fenare at first thought of the other conful; but not having sufficient experience of his abilities, they unanimously turned their eyes upon Cincinnatus, and resolved to make him dictator. Cincinnatus, the only person on whom Rome could now place her whole dependence, was found, as before, by the meffengers of the fenate, labouring in his little field with cheerful industry. He was at first astonished at the enfigns of unbounded power with which the deputies came to invest him; but still more at the approach of the principal of the fenate, who came out to meet him. A dignity fo unlooked for, however, had no effect upon the simplicity or the integrity of his manners; and being now poffeffed of absolute power, and called upon to nominate his master of the horse, he chose a poor man named Tarquitius, one who, like himfelf, despised riches when they led to dishonour. Upon entering the city, the dictator put on a ferene look, and intreated all those who were able to bear arms to repair before funfet to the Campus Martius (the place where the levies were made) with necessary arms, and provisions for five days. He put bimself at the head of these; and, marching all night with great expedition. he arrived before day within fight of the enemy. Upon his approach, he ordered his foldiers to raife a loud fhout, to apprize the conful's army of the relief that was at hand. The Æqui were not a little amazed when they saw themselves between two enemies; but still more when they perceived Cincinnatus making the strongest entrenchments beyond them, to prevent their escape, and inclosing them as they had inclosed the confal. To prevent this, a furious combat enfued; but the Æqui, being attacked on both fides, and unable to refult or fly, begged a cellation of arms. They offered the dictator his own terms : he gave them their lives ; but obliged them, in token of servitude, to pass under the yoke, which was two fpears fet upright, and another across, in the form of a gallows, beneath which the vanquished were to march. Their captains and generals he made prisoners of war, being referved to adorn his triumph. As for the plunder of the enemy's camp, that he gave entirely up to his own foldiers, without referving any part for himfelf, or permitting those of the delivered army to have a share. Thus, having rescued a Roman army from inevitable destruction, having defeated a powerful enemy, having taken and fortified their city, and, still more, having refused any part of the fpoil, he refigned his dictatorship, after having enjoyed it but 14 days. The fenate would have enriched him; but he declined their proffers, choosing to retire once more to his farm and his cottage, content with temperance and fame.

But this repose from foreign invasion did not lessen

Agrarian law fill continued, and fill more fiercely. Rome. when Sicinius Dentatus, a pleberan, advanced in years, but of an admirable perion and military deportment, Bravery of came forward, to enumerate his hardships and his me-Sicurus rits. This old foldier made no fcruple of extolling the Deatatus. various merits of his youth; but indeed his atchievements supported oftentation. He had served his country in the wars 40 years; he had been an officer 30, first a centurion, and then a cribune; be had fought 1 20 battles, in which, by the force of his fingle arm. he had faved a multitude of lives: he had gained 14 civic. three mural, and eight golden crowns, befides 82 chains, 60 bracelets, 18 gilt spears, and 23 horse-trappings, whereof nine were for killing the enemy in fingle combat: moreover, he had received 45 wounds, all before, and none behind. These were his honours : yet, notwithstanding all this, he had never received any thare of those lands which were won from the enemy, but continued to drag on a life of poverty and contempt; while others were possessed of those very territories which his valour had won, without any merit to deserve them, or ever having contributed to the conquest. A case of so much hardship had a strong effect violent diupon the multitude; they unanimously demanded that sturbances. the law might be paffed, and that such merit should not go unrewarded. It was in vain that fome of the fenators role up to speak against it; their voices were drowned by the cries of the people. When reason, therefore, could no longer be beard, passion, as usual, fucceeded; and the young patricians, running furioufly into the throng, broke the ballotting urns, and difperfed the multitude that offered to oppose them. For this. they were some time after fined by the tribunes; but their resolution, nevertheless, for the present, put off the

The commonwealth of Rome had now for near 60 years been fluctuating between the contending orders that composed it, till at length, each fide, as it weary, were willing to respire a while from the mutual exertions of their claims. The citizens, now, therefore, of every rank, began to complain of the arbitrary decisions of their magistrates, and wished to be guided by a written body of laws, which being known might prevent wrongs as well as punish them. In this both Ambassathe fenate and the people concurred, as hoping that dors fent to the fenate and the people concurred, as uoping that to Athens to fuch laws would put an end to the commotions that to bring new long had haraffed the flate. It was thereupon agreed, laws from that ambaffadors should be sent to the Greek cities in thence. Italy, and to Athens, to bring home such laws from thence as by experience had been found most eqitable and uleful. For this purpole, three fenators, Posthumius, Sulpicius, and Manlius, were fixed upon, and galleys affigned to convoy them, agreeable to the majefty of the Roman people. While they were upon this commission abroad, a dreadful plague depopulated the city at home, and supplied the interval of their absence with other anxiety than that of withes for their return. In about a year the plague ceased, and the ambassadors returned, bringing home a body of laws, collected from the most civilized states of Greece and Italy, which being afterwards formed into ten tables, and two more being added, made that celebrated code called the Laws of the Twelve Tables, many fragments of which remain to this day.

the tumults of the city within. The clamours for the The ambaffadors were no fooner returned, than the Decemping tribunes elected.

Rome tribunes required that a body of men thould be chosen to digelt their new laws into proper form, and to give weight to the execution of them. After long debates whether this choice should not be partly made from the people as well as the patricians, it was at last agreed that 10 of the principal fenators should be elected, would power, continuing for a year, should be equal to that of kings and contols, and that without any appeal. The persons chosen were Applies and Genutus, who had been elected confuls for the enfuing year;

each should dispense justice for a day.

fadors; Sexus and Romulus, former confuls; with Julius Veturius, and Horatius, fenators of the first confideration.

The decenviri being now invested with absolute power, agreed to take the reins of government by turns, and that

Portlaunius, Sulpicius, and Alanlius, the three ambal-

These magiltrates, for the first year, wrought with extreme application; and their work being sinished, it was expected that they would be contented to give up their offices; but having known the charms of power, they were now unwilling to relign it: they therefore pretended that some laws were yet wanting to complete their delign, and intreated the senate for a continuance of their offices; to which that body assented.

But they foon threw off the mask of moderation : and, regardless either of the approbation of the senate or the people, refolved to continue themselves, against all order, in the decemvirate. A conduct fo notorious produced discontents; and these were as sure to produce fresh acts of tyranny. The city was become almost a defert, with respect to all who had any thing to lose: and the decemvirs rapacity was then only discontinued. when they wanted fresh objects to exercise it upon. In this state of flavery, proscription, and mutual distrust, not one citizen was found to firike for his country's freedom; these tyrants continued to rule without controul, being constantly guarded, not with their lictors alone, but a numerous crowd of dependents, clients, and even patricians, whom their vices had confederated round them.

In this gloomy dituation of the flate, the Æqui and Volfei, thole conflant enemies of the Romans, undertook their incurfions, refolved to profit by the intelline divifions of the people, and advanced within about 10 miles of Rome.

But the decemviri, being put in possession of all the military as well as of the civil power, divided their army into three parts; whereof one continued with Appius in the city, to keep it in awe; the other two were commanded by his colleagues, and were led, one against the Æqui, and the other against the Sabines. The Roman foldiers had now got into a method of punishing the generals whom they disliked, by suffering themselves to be vanquished in the field. They put it in practice upon this occasion, and shamefully abandoned their camp upon the approach of the enemy. Never was the news of a victory more joyfully received at Rome than the tidings of this defeat : the generals, as is always the case, were blamed for the treachery of their men: fome demanded that they should be deposed; others cried out for a dictator to , lead the troops to conquest: but among the rest, old Sicinrus Dentatus the tribune spoke his sentiments

with his usual openness; and treating the generals Rome. with contempt, showed all the faults of their discipline in the camp, and of their conduct in the field. Appius; in the mean time, was not remifs in observing the difposition of the people. Dentatus, in particular, was marked out for vengeance, and, under pretence of doing him particular honour, he was appointed legate, and put at the head of the supplies which were fent from Rome to reinforce the army. The office of legate was held facred among the Romans, as in it were united the authority of a general, with the reverence due to the priesthood. Dentatus, no way suspecting Murder of his defign, went to the camp with alacrity, where he Sicinius was received with all the external marks of respect, But Deniatus. the generals foon found means of indulging their defire of revenge. He was appointed at the head of 100 men to go and examine a more commodious place for encampment, as he had very candidly affured the commanders that their prefent fituation was wrong. The foldiers, however, who were given as his attendants, were affaffins; wretches who had long been ministers of the vengeance of the decemviri, and who now engaged to murder him, though with all those apprehensions which his reputation, as he was called the Roman Achilles, might be supposed to inspire. With these defigns, they led him from the way into the hollow bofom of a retired mountain, where they began to fet upon him from behind. Dentatus, now too late, perceived the treachery of the decemviri, and was resolved to fell his life as dearly as he could; he therefore put his back to a rock, and defended himself against those who pressed most closely. Though now grown old, he had still the remains of his former valour, and killed no less than 15 of the affailants, and wounded 30. The affaffins now therefore, terrified at his amazing bravery, showered in their javelins upon him at a distance; all which he received in his shield with undaunted resolution. The combat, though fo unequal in numbers, was managed for some time with doubtful success, till at length his affailants bethought themselves of ascending the rock against which he stood, and thus poured down flones upon him from above. This succeeded; the old foldier fell beneath their united efforts, after having shown by his death that he owed it to his fortitude, and not his fortune, that he had come off fo many times victorious. The decemviri pretended to join in the general forrow for fo brave a man, and decreed him a funeral, with the first military honours: but the greatness of their apparent distress, compared with their known hatred, only rendered them still more detestable to the people,

But a translation still more atrocious than the former Traggical ferved to inspire the citizens with a resolution to break says of all measures of obedience, and at last to restore freedom, Virginia. Appius, who still remained at Rome, fitting one day on his tribunal to dispense justice, saw a maiden of exquisite beauty, and aged about 15, passing to one of the public chools, attended by a matron her nurse. Conceiving a violent passion for her, he resolved to obtain the gratification of his delire, whatever should be the consequence, and found means to inform himself of her name and family. Her name was Virginia, the daughter of Virginians a centurion, then with the army in the field; and the had been contrasted to Icilius, formerly a tribune of the people, who had agreed to matry her sit the erend or if

They become abfo

The Romans defeated.

Invalion of

and Volici.

Rome. the prefent campaign. Appius, at first, resolved to break this match, and to espouse her himself : but the laws of the Twelve Tables had forbidden the patricians to intermarry with the plebeians; and he could not infringe thefe, as he was the enacter of them. Nothing therefore remained but a criminal enjoyment; which, as he was long used to the indulgence of his passions, he refolved to obtain. After having vainly tried to corrupt the fidelity of her nurse, he had recourse to another expedient, still more guilty. He pitched upon one Claudius, who had long been the minister of his pleafares, to affert the heautiful maid was his flave, and to refer the cause to his tribunal for decision. Claudius behaved exactly according to his instructions; for entering into the school, where Virginia was playing among her female companions, he feized upon her as his property, and was going to drag her away by force, but was prevented by the people drawn together by her cries. At length, after the first heat of opposition was over, he led the weeping virgin to the tribunal of Appius, and there plaufibly expoled his pretentions. He afferted, that the was born in his house, of a female slave, who fold her to the wife of Virginius, who had been barren. That he had feveral credible evidences to prove the truth of what he faid; but that, until they could come together, it was but reafonable the flave should be delivered into his custody, being her proper master. Appius seemed to be struck with the justice of his claims. He observed, that if the reputed father himfelf were prefent, he might indeed be willing to delay the delivery of the maiden for fome time; but that it was not lawful for him, in the prefent case, to detain her from her master. He therefore adjudged her to Claudius, as his flave, to be kept by him till Virginius should be able to prove his paternity. This fentence was received with loud clamours and reproaches by the multitude : the women, in particular, came round Virginia, as if willing to protect her from the judge's fury; while Icilius, her lover, boldly opposed the decree, and obliged Claudius to take refuge under the tribunal of the decemvir. All things now threatened an open infurrection; when Appius, fearing the event, thought proper to suspend his judgment till the arrival of Virgimus, who was then about 11 miles from Rome, with the army. The day following was fixed for the trial; and, in the mean time, Appius fent letters to the generals to confine Virginius, as his arrival in town might only ferve to kindle fedition among the people. These letters, however, were intercepted by the centurion's friends, who fent him down a full relation of the defign laid against the liberty and the honour of his only daughter. Virginius, upon this, pretending the death of a near relation, got permiffion to leave the camp, and flew to Rome, inspired with indignation and revenge. Accordingly, the next day he appeared before the tribunal, to the aftonishment of Appius, leading his weeping daughter by the hand, both habited in the deepest mourning. Claudius, the accuser, was also there, and began by making his demand. Virginius next spoke in turn: he represented that his wife had many children; that the had been feen pregnant by numbers; that, if he had intentions of adopting a supposititious child, he would have fixed upon a boy rather than a girl; that it was notorious to all, that his wife had berfelf fuckled her own child; and that it was furprifing such a claim

should be now revived, after a t 5 years discontinuance. Rome. While the father spoke this with a stern air, Virginia stood trembling by, and, with looks of perfusiive innocence, added weight to all his remonttrances. The people feemed entirely fatisfied of the hardship of his cafe. till Appius, fearing what he faid might have dangerous effects upon the multitude, interrupted him, under a pretence of being fufficiently instructed in the merits of the cause, and finally adjudged her to Claudius, ordering the lictors to carry her off. The lictors, in obedience to his command, foon drove off the throng that prefied round the tribunal; and now they feized upon Virginia, and were delivering her up into the hands of Claudius, when Virginius, who found that all was over, feemed to acquiesce in the sentence. He therefore mildly intreated Appius to be permitted to take a last farewell of one whom he had long confidered as his child; and fo fatiffied, he would return to his duty with fresh alacrity. With this the decemvir complied, but upon condition that their endearments should pass in his presence. Virginius, with the most poignant anguish, took his almost expiring daughter in his arms, for a while supported her head upon his breaft, and wiped away the tears that rolled down her lovely vifage : and happening to be near the shops that surrounded the forum, he snatched up a knife that lay on the shambles, and buried the weapon in her breaft; then holding it up, reeking with the blood of his daughter, " Appius (he cried) by this blood of innocence, I devote thy head to the infernal gods." Thus faying, with the bloody knife in his hand, and threatening destruction to whomsoever should oppose him, he ran through the city, wildly calling upon the people to firike for freedom, and from thence went to the camp, in order to fpread a like flame through the

He no fooner arrived at the camp, followed by a number of his friends, but he informed the army of all that was done, fill holding the bloody knife in his hand. He asked their pardon, and the pardon of the gods, for having committed fo rath an action, but afcribed it all to the dreadful necessity of the times. The army, already predisposed, immediately with shouts echoed their approbation; and decamping, left their generals behind, to take their flation once more upon Mount Aventine, whither they had retired about 40 years before. The other army, which had been to oppose the Sabines, seemed to feel a like refentment, and came over in large parties to join them.

Appius, in the mean time, did all he could to quell The decemthe diffurbances in the city; but finding the tumult in-virare abocapable of controul, and perceiving that his mortal ene-lifted. mies. Valerius and Horatius, were the most active in onposition, at first attempted to find fafety by flight; nevertheless, being encouraged by Oppius, who was one of his colleagues, he ventured to affemble the fenate, and urged the punishment of all deferters. The fenate, however, were far from giving him the relief he fought for; they forefaw the dangers and miseries that threat-

ened the flate, in case of opposing the incensed army; they therefore dispatched messengers to them, offering to reflore their former mode of government. To this propofal all the people joyfully affented, and the army gladly obeyed. Appius, and Oppius one of his colleagues, both died by their own hands in prifon. The

Rome, other eight decemvirs went into voluntary exile; and Claudius, the pretended mafter of Virginia, was driven

out after them. New diftur-

bances.

Military

tribunes etected.

The tribunes now grow more turbulent : they propofed two laws; one to permit plebeians to intermarry with patricians; and the other, to permit them to be admitted to the confulfhip alfo. The fenators received these proposals with indignation, and seemed resolved to undergo the utmost extremities rather than submit to enact them. However, finding their refiftance only increase the commotions of the state, they at last consented to pass the law concerning intermarriages, hoping that this concession would fatisfy the people. But they were to be appealed but for a very fhort time : for, returning to their old custom of refusing to enlist upon the approach of an enemy, the confuls were forced to hold a private conference with the chief of the fenate; where, after many debates, Claudius propofed an expedient as the most probable means of fatisfying the people in the present conjuncture. This was, to create fix or eight governors in the room of confuls, whereof one half at least should be patricians. This project was eagerly embraced by the people; yet so fickle were the multitude, that though many of the plebeians food, the choice wholly fell upon the patricians who offered them felves as candidates. These new magistrates were called military tribunes; they were at first but three, afterwards they were increased to four, and at length to fix. They had the power and enfigns of confuls; yet that power being divided among a number, each fingly was of less authority. The first that were chosen only continued in office about three months, the augurs having found fomething amifs in the ceremonies of their election.

The military tribunes being deposed, the consuls once more came into office; and, in order to lighten the weight of business which they were obliged to sustain, a new office was erected, namely, that of cenfors, to be chosen every fifth year. Their business was to take an estimate of the number and estates of the people, and to distribute them into their proper classes; to inspect into the lives and manners of their fellow-citizens; to degrade fenators for misconduct; to difmount knights: and to turn down plebeians from their tribes into an inferior, in case of misdemeanour. The two first censors were Papirius and Sempronius, both patricians; and from this order they continued to be elected for near

This new creation ferved to reftore peace for fome time among the orders; and the triumph gained over the Volscians, by Geganius the conful, added to the univerfal fatisfaction that reigned among the reople.

This calm, however, was but of thort continuance: for, fome time after, a famine pressing hard upon the poor. the usual complaints against the rich were renewed; and thefe, as before, proving ineffectual, produced new feditions. The confuls were accused of neglect in not having laid in proper quantities of corn : they, however, difregarded the murmurs of the populace, content with exerting all their care in attempts to supply the preffing necessities. But though they did all that could be expected from active magithrates, in pr viding and distributing provisions to the poor; vet S rarius Madius, a rich knight, who had hought up all the corn of Tufcany, by far outshone them in liberality. This demagogue, inflamed with a fecret defire of becoming power- Rome. ful by the cententions in the state, distributed corn in great quantities among the poorer fort each day, till his house became the asylum of all such as withed to exchange a life of labour for one of lazy dependence, When he had thus gained a fufficient number of partizans, he procured large quantities of arms to be brought into his house by night, and formed a conspiracy, by which he was to obtain the command, while some of the tribunes, whom he had found means to corrupt, were to act under him, in feizing upon the liberties of his country. Minucius foon discovered the plot; and informing the fenate thereof, they immediately formed the refolution of creating a dictator, who should have the power of quelling the conspiracy without appealing to the people. Cincinnatus, who was now 80 years old, was chosen once more to rescue his country from impending danger. He began by fummoning Mælius to appear; who refused to obey. He next fent Ahala, his mafter of the horse, to force him; who, meeting him in the forum, and proffing Mælius to follow him to who is the dictator's tribunal, upon his refusal Ahala killed killed. him upon the fpot. The dictator applauded the refolution of his officer, and commanded the conspirator's goods to be fold, and his house to be demolished, distributing his stores among the people.

The tribunes of the people were much enraged at the death of Mælius; and, in order to punish the senate, at the next election, instead of confuls, infifted upon restoring their military tribunes. With this the fenate were obliged to comply. The next year, however, the government returned to its ancient channel,

and confuls were chosen.

The Veientes had long been the rivals of Rome; The dethey had ever taken the opportunity of its internal fruction diffresses to ravage its territories, and had even threat folved ened its ambaffadors, fent to complain of these injuries, with outrage. In war they had been extremely formidable, and had cut off almost all the Fabian family; who, to the number of 306 persons, had voluntarily undertaken to defend the frontiers against their incurfions. It feemed now therefore determined, that the city of Veii, whatever it should cost, was to fall; and the Romans accordingly fat regularly down before it, prepared for a long and painful refistance. The ftrength of the place, or the unfkilfulnefs of the befiegers, may be inferred from the continuance of the fiege. which lasted for 10 years; during which time the army continued encamped round it, lying in winter under tents made of the fkins of beafts, and in fummer driving on the operations of the attack. Various was the faccels, and many were the commanders that directed the fiere: fometimes all the befiegers works were deftroved, and many of their then cut off by fallies from the town: fometimes they were annoyed by an army of Veians, who attempted to bring affiliance from without. A fiege to bloody formed to threaten depopulation to Rome itself, by draining its forces continually away; fo that a law was obliged to be made for all the bachelors to marry the widows of the f !diers who were flain. In order to carry it on with greater vigour. Furius Camillus was created dictator, and to him was intrusted the sole power of managing the long protracted war. Camillus, who, without intrigue or any folicitation had raifed himfelf to the fuft

of cenfor inflituted.

The office

Difturknight, Rome. emmence in the flate, had been made one of the cenfors fome time before, and was confidered as the head of that office; he was afterwards made a military tribune, and had in this post gained feveral advantages over the enemy. It was his great courage and abilities in the above offices that made him thought most worthy to ferve his country on this preffing occasion. Upon his appointment, numbers of the people flocked to his flandard, confident of fuccess under so experienced a commander. Confcious, however, that he was unable to take the city by florm, he fecretly wrought a mine into it with vaft labour, which opened into the midit of the citadel. Certain thus of fuccess, and finding the city incapable of relief, he fent to the fenate, defiring that all who chose to share in the plunder of Veii should immediately repair to the army. Then giving his men directions how to enter at the breach, the city was inflantly filled with his legions, to the amazement and

rzz consternation of the besieged, who, but a moment be-Is taken by fore, had rested in persect security. Thus, like a second Troy, was the city of Veii taken, after a ten years fiege, and with its spoils enriched the conquerors; while Camillus himfelf, transported with the honour of having fubdued the rival of his native city, triumphed after the manner of the kings of Rome, having his chariot drawn by four milk-white horses; a distinction which did not fail to diffeuft the majority of the fpectators, as they confidered those as facred, and more proper for doing honour to their gods than their generals.

His genero-His usual good fortune attended Camillus in another fity to the expedition against the Falisci; he routed their army, and befieged their capital city Falerii, which threatened a long and vigorous refiftance. Here a schoolmaster, who had the care of the children belonging to the principal men of the city, having found means to decoy them into the Roman camp, offered to put them into the hands of Camillus, as the furest means of inducing the citizens to a fpeedy furrender. The general was flruck with the treachery of a wretch whose duty it was to protect innocence, and not to betray it; and immediately ordered him to be stripped, his hands tied behind him, and in that ignominious manner to be whipped into the town by his own scholars, This generous behaviour in Camillus effected more than his arms could do: the magistrates of the town immediately fubmitted to the fenate, leaving to Ca-

> of Rome. Notwithstanding the veneration which the virtues of Camillus had excited abroad, they feemed but little adapted to bring over the respect of the turbulent tribunes at home, as they raised some fresh accusation against him every day. To their other charges they added that of his having concealed a part of the plunder of Veil, particularly two brazen gates, for his own use; and appointed him a day on which to appear before the people. Camillus, finding the multitude exafperated against him upon many accounts, detesting their ingratitude, refolved not to wait the ignominy of a trial; but, embracing his wife and children, prepared to depart from Rome. He had already paffed as far as one of the gates, unattended on his way, and unlamented. There he could suppress his indignation

> millus the conditions of their furrender; who only

fined them in a fum of money to fatisfy his army, and

received them under the protection and into the alliance

no longer; but, turning his face to the capitol, and Rome. lifting up his hands to heaven, intreated all the gods that his country might one day be sensible of their He g es ininjustice and ingratitude; and fo faying, he passed for t volunward to take refuge at Ardea, where he afterwards ar, exile. Iearned that he had been fined 1 500 afes by the tribunes at home.

The Romans indeed foon had reason to repent their usage of Camillus; for now a more formidable enemy than ever they had met with threatened the republic : an inundation of Gauls, leaving their native woods, under the command of one Brennus, wasted every thing Italy invawith fire and fword. It is faid that one Cooditius, a ded by man of the lowest rank, pretended to have heard a miraculous voice, which pronounced diffinctly these words: " Go to the magistrates, and tell them that the Gauls draw near," The meanness of the man made his warning despised; though, when the event showed the truth of his prediction, Camillus erected a temple to the unknown Deity, and the Romans invented for him the name of Aius Locutius. Messenger after messenger arrived with the news of the progress and devastations of the Gauls; but the Romans behaved with as much fecurity as if it had been impossible for them to have felt the effects of their depredations. At last envoys arrived at Rome, imploring the affiftance of the republic against an army of Gauls, which had made an irruption into Italy, and now befieged their city. The occasion Occasion of of the irruption and fiege was this: Arunx, one of the their invachief men of Clusium in Hetruria, had been guardian fion. to a young lucumo, or lord of a lucumony, and had educated him in his house from his infancy. The lucumo, as foon as he was of an age to feel the force of passion, fell in love with his guardian's wife; and, upon the first discovery of their intrigue, conveyed her away. Arunx endeavoured to obtain reparation for the injury he had received; but the lucumo, by his interest and money, gained over the magistrates: fo that the injured guardian, finding no protectors in Hetruria, refolved to make his application to the Gauls. The people among all the Celtic nations, to whom he choic to address himself, were the Senones; and, in order to engage them in his quarrel, he acquainted them with the great plenty of Italy, and made them tafte of some Italian wines. Upon this the Senones refolved to follow him; and a numerous army was immediately formed, which paffing the Alps, under the conduct of their Hetrurian guide, and leaving the Celtæ in Italy unmolested, fell upon Umbria, and possessed themselves of all the country from Ravenna to Picenum. They were about fix years in fettling themselves in their new acquisitions, while the Romans were carrying on the fiege of Veii. At length Arunx brought the Senones before Clusium, in order to befiege that place, his wife and her lover having flut themselves up there.

The fenate, being unwilling to engage in an open The Rowar with a nation which had never offended them, fent mans fend an embaffy of three young patricians, all brothers, and an embaffy of the Fabian family, to bring about an accommodation to them. between the two nations. These ambassadors, being arrived at the camp of the Gauls, and conducted into the council, offered the mediation of Rome; and demanded of Brennus, the leader of the Gauls, What injury the Clufini had done him; or what pretentions any people from a remote country could have upon Hetruria?

Brennus.

Camillus.

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Rome. Brennus answered proudly, that his right lay in his fword, and that all things belonged to the brave; but that, without having recourse to this primitive law of nature, he had a just complaint against the Clusians, who, having more lands than they could cultivate, had refused to yield to him those they left untilled: And what other motives had you yourselves, Romans (said he), to conquer fo many neighbouring nations? You have deprived the Sabines, the Albans, the Fidenates, the Æoui, and the Volici, of the best part of their territories. Not that we accuse you of injustice; but it is evident, that you thought this to be the prime and most ancient of all laws, to make the weak give way to the ftrong. Forbear therefore to interest yourselves for the Clufini, or allow us to take the part of the people you have fubdued."

The Fabii were highly provoked at fo haughty an

Imprudent conduct of

fufed.

answer; but, diffembling their resentment, defired leave the ambaf- to go into the town, under pretence of conferring with the magistrates. But they were no sooner there, than they began to fiir up the inhabitants to a vigorous defence; nay, forgetting their character, they put themfelves at the head of the befieged in a fally, in which O. Fabius, the chief of the ambaffadors, flew with his own hand one of the principal officers of the Gauls. Hereupon Brennus, calling the gods to witness the perfidiousness of the Romans, and their violating the law of nations, immediately broke up the fiege of Clufium, 128 and marched leifurely to Rome, having fent a herald The Gauls before him to demand that these ambassadors, who had fo manifeftly violated the law of nations, should be dethem to be livered up to him. The Roman fenate was greatly up to them, perplexed between their regard for the law of nations but are re- and their affection for the Fabii. The wifelt of the fenate thought the demand of the Gauls to be but just and reasonable: however, as it concerned persons of great confequence and credit, the confeript fathers referred the affair to the people affembled by curiæ. As the Fabian family was very popular, the curiæ were fo far from condemning the three brothers, that, at the next election of military tribunes, they were chosen the first. Brennus, looking upon the promotion of the Fabii as a high affront on his nation, hastened his march to Rome.

As his army was very numerous, the inhabitants of the towns and villages through which he passed left their habitations at his approach; but he stopped nowhere, declaring that his defign was only to be reven-ged on the Romans. The fix military tribunes, to wit, O. Fabius, Creso Fabius, Caius Fabius, O. Sulpitius, Q. Servilius, and Sextus Cornelius, marched out of Rome at the head of 40,000 men, without either facrificing to the gods or confulting the auspices; effential ceremonies among a people that drew their courage and confidence from the propitious figns which the augurs declared to them. As most of the military tribunes were young, and men of more valour than experience, they advanced boldly against the Gauls, whose army was 70,000 frong. The two armies met near the river Allia, about 60 furlongs from Rome. The Romans that they might not be furrounded by the enemy, extended their wings to far as to make their centre very thin. Their best troops, to the number of 24,000 men, they posted between the river and the adjoining bills; the rest they placed on the hills. The Gauls first

attacked the latter, who being foon put into confusion, Rome the forces in the plain were thruck with fuch terror that they fled without drawing their fwords. In this general diforder, most of the foldiers, instead of returning to Rome, fled to Veii: some were drowned as they endeavoured to fwim across the Tiber: many fell in the purfuit by the fword of the conquerors; and forme got to Rome, which they filled with terror and conflernation, it being believed there that all the rest were cut off. The day after the battle, Bremus marched his troops into the neighbourhood of Rome, and encamped on the banks of the Anio. Thither his fcouts brought him word, that the gates of the city lay open, and that not one Roman was to be feen on the ramparts. This made him apprehensive of some ambuscade, it being unreasonable to suppose that the Romans would abandon their city to be plundered and facked without making any refistance. On this consideration he advanced flowly, which gave the Romans an opportunity to throw into the Capitol all the men who were fit to bear arms.

They carried into it all the provisions they could get; They retire and, that they might last the longer, admitted none into into the Cathe place but fuch as were capable of defending it.

As for the city, they had not sufficient forces to defend it; and therefore the old men, women, and children, feeing themfelves abandoned, fled to the neighbouring towns. The Vestals, before they left Rome, took care to hide every thing appropriated to the gods which they could not carry off. The two palladiums, and the facred fire, they took with them. When they came to the Janiculus, one Albinius, a plebeian, who was conveying his wife and children in a carriage to a place of fafety, feeing the facred virgins bending under their load, and their feet bloody, made his family alight, put the priestesses and their gods into the carriage, and conducted them to Cære, a city of Hetruria, where they met with a favourable reception. The Vestals remained at Care, and there continued to perform the usual rites of religion; and hence those rites were called ceremonies. But while the rest of the citi-Origin of zens at Rome were providing for their fafety, about 80 the word of the most illustrious and venerable old men, rather ceremonies than fly from their native city, chose to devote themfelves to death by a vow, which Fabius the high pontiff pronounced in their names. The Romans believed. that, by these voluntary devotements to the informal gods, diforder and confusion was brought among the enemy. Of these brave old men some were pontifices, others had been confuls, and others generals of armies. who had been honoured with triumphs. To complete their facrifice with a folemnity and pomp becoming the magnanimity and constancy of the Romans, they dressed therafelves in their pontifical, confular, and triumphal robes; and repairing to the forum, feated themselves there in their curule chairs, expecting the enemy and

death with the greatest constancy. At length Brennus, having spent three days in use-Rome pilless precautions, entered the city the fourth day after laged and the battle. He found the gates open, the walls without defence, and the houses without inhabi ants. Korre appeared to him like a mere delert; and this folitude increased his auxiety. He could not believe, either that all the Romans were lodged in the Capitol, or that fo numerous a people the ld abandon the place of their nativity. On the other hand, he could nowhere he

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Rome, any armed men but on the walls of the citadel. However, having first secured all the avenues to the Capitol with strong bodies of guards, he gave the rest of his foldiers leave to disperse themselves all over the city and plunder it. Brennus himfelf advanced into the forum with the troops under his command, in good order; and there he was firuck with admiration at the pnexpected fight of the venerable old men who had devoted themselves to death. Their magnificent habits, the majefty of their countenances, the filence they kept, their modelty and conflancy at the approach of his troops, made him take them for fo many deities: for they continued as motionless as statues, and saw the enemy advance without showing the least concern. The Gauls kept a great while at an awful diffance from them, being afraid to come near them. But at length one foldier bolder than the rest, having out of curiosity touched the beard of M. Papirius, the venerable old man, not being used to such familiarity, gave him a blow on the head with his ivory staff. The foldier in revenge immediately killed him; and the rest of the Gauls following his example, flaughtered all those ve-

nerable old men without mercy.

After this the enemy fet no bounds to their rage and fury. They plundered all places, dragging fuch of the Romans as had flut themselves up in their houses into the streets, and there putting them to the sword without diffinction of age or fex. Brennus then in-They invest vested the Capitol; but being repulsed with great loss, the Capitol in order to be revenged of the Romans for their refiftance, he relolved to lay the city in ashes. Accordingly, by his command, the foldiers fet fire to the houses. demolished the temples and public edifices, and rafed the walls to the ground. Thus was the famous city of Eome entirely destroyed; nothing was to be seen in the place where it food but a few little hills covered with roins, and a wide waite, in which the Gauls who invested the Capitol were encamped. Brennus, finding be should never be able to take a place which nature had fo well fortified otherwise than by famine, turned the flege into a blockade. But in the mean time, his army being diffressed for want of provisions, he sent out parties to pillage the fields, and raife contributions in the neighbouring cities. One of these parties appeared before Ardea, where the great Camillus had now fpent two years in a private life. Notwithflanding the affront he had received at Rome, the love he bore his country was not in the leaft diminished. The fenate of Ardea being met to deliberate on the meafores to be taken with relation to the Gauls, Camillus, more afflicted at the calamities of his country than at his own banishment, defired to be admitted into the council, where, with his eloquence, he prevailed upon the Ardeates to arm their youth in their own defence, and refuse the Gauls admittance into their city.

Hercupon the Gauls encamped before the city; and as they despifed the Ardeates after they had made themselves masters of Rome, they preserved neither order nor discipline in the camp, but spent whole days in rumber of drinking. Hereupon Camillus, having eafily perfuaded them cut off the youth of the city to follow him, marched out of Ardea in a very dark night, surprised the Gauls drowned in wine, and made a dreadful flaughter of them. Those who made their escape under the shelter of the night fell next day into the hands of the peafants, by

whom they were maffacred without mercy. This de- R me. feat of the enemy revived the courage of the Romans' feattered about the country, especially of those who had retired to Veil after the unfortunate battle of Allia. There was not one of them, who did not condemn himself for the exile of Camillus, as if he had been the author of it; and looking upon that great man as their half refource, they rejoived to choose him for their leads er. Accordingly, they fent without delay ambafindors to him, befeeching him to take into his protection the fugitive Romans, and the wrecks of the defeat at Aliia. But Camillus would not accept of the command of the troops till the people affembled by curize had legally conferred it upon him. He thought the public authority was lodged in the hands of those who were shut up in the citadel, and therefore would undertake nothing at the head of the Roman troops till a commission was brought

him from thence. To do this was very difficult, the place being invefted on all fides by the enemy. However, one Pontius Cominius, a man of mean birth, but bold, and very ambitions of glory, undertook it. He put on a light habit, and, providing himfelf with cork to keep the longer above water, threw himself into the Tiber above Rome in the beginning of the night, and suffered himself to be carried down with the ffream. At length he came to the foot of the capitol, and landed at a fleep place where the Gauls had not thought it necessary to post any centinels. There he mounted with great difficulty to the rampart of the citadel; and having made himfelf known to the guards, he was admitted into the place, and conducted to the magifirates. The fenate being He immediately affembled. Pontius gave them an account dictator.

of Camillus's victory; and in the name of all the Romans at Veil demanded that great captain for their general. There was not much time fpent in debates : the curiæ being called together, the act of condemnation which had been passed on Camillus was abrogated, and he named dictator with one voice. Pontius was immediately dispatched with the decree; and the same good fortune which had attended him to the Capitol accompanied him in his return. Thus was Camillus, from the flate of banishment, raised at once to be sovereign magistrate of his country. His promotion to the command was no fooner known, but foldiers flocked from all parts to his camp; infomuch that he foon faw himfelf at the head of above 40,000 men, partly Romans and partly allies, who all thought themselves invincible

under fo great a general. While he was taking proper measures to raise the The Gauls blockade of the citadel, fome Gauls rambling round the endeavour place, perceived on the fide of the hill the print of Pon- to furprise tius's hands and feet. They observed likewise, that the the Capimofs on the rocks was in feveral places torn up. From these marks they concluded, that somebody had lately gone up to and returned from the Capitol. The Gauls immediately made their report to Brennus of what they had obscreed; and that experienced commander laid a defign, which he imparted to nobody, of furprifing the place by the fame way that the Roman had afcended. With this view he chose out of the army such foldiers as had dwelt in mountainous countries, and been accu-

stomed from their youth to climb precipices. These he ordered, after he had well examined the nature of the place, to afcend in the night the same way that was marked

A great

by Camil-

But are dil repulfed.

marked out for them; climbing two abreast, that one might support the other in getting up the sleep parts of the precipice. By this means they advanced with much difficulty from rock to rock, till they arrived at the foot of the wall. They proceeded with fuch filence, that they were not discovered or heard, either by the centinels who were upon guard in the citadel, or even by the dogs, that are whally awaked and alarmed at the least noise. But though they eluded the fagacity of the dogs, they could not escape the vivilance of the geele. A flock of these birds was kept in a court of the Capitol in honour of Juno, and near her temple, Notwithstanding the want of provisions in the garrison, they had been spared out of religion; and as thele creatures are naturally quick of hearing, they were alarmed at the first approach of the Gauls; fo that running up and down, with their cackling and beating of their wings, they awaked Manlius, a gallant foldier, who fome years before had been conful. He founded an alarm, and was the first man who mounted the rampart, where he found two Gauls already upon the wall, One of these offered to discharge a blow at him with covered and his battle-ax; but Manlius cut off his right hand at one blow, and gave the other fuch a push with his buckler, that he threw him headlong from the top of the rock to the bottom. He, in his fall, drew many others with him; and, in the mean time, the Romans crowding to the place, preffed upon the Gauls, and tumbled them one over another. As the nature of the ground would

> As it was the cultom of the Romans at that time not fuffer any commendable action to go unrewarded, the tribune Sulpitius affembled his troops the next morning, in order to beflow the military rewards on those who, the night before, had deserved them. Among thefe Manlius was first named; and, in acknowledgment of the important service he had just rendered the state, every foldier gave him part of the corn which he received sparingly from the public stock, and a little measure of wine out of his scanty allowance; an inconsiderable present indeed in itself, but very acceptable at that time to the person on whom it was be:towed. The tribune's next care was to punish the negligent: accordingly the captain of the guard, who ought to have had an eye over the centinels, was condemned tordie, and, purfuant to his fentence, thrown down from the top of the Capitol. The Romans extended their punishments and rewards even to the animals. 'Goe'e were over after had in honour at Rome, and a flock of them always kept at the expence of the public. A golden image of a goole was erected in memory of them, and a goole every year carried in triumph upont a foft litter finely adorned; whilit dogs were held in abhorrence by the Romans, who every year impaled one of them on a branch

> not fuffer them to make a regular retreat, or even to fly,

most of them, to avoid the twords of the enemy, threw

themselves down the precipice, so that very few got

fafe back to their camp.

of elder.

The blockade of the Capitol had already lasted Even months; so that the famine began to be very fensibly felt both by the belieged and beliegers. Camillus, fince his nomination to the dictatorthip, being matter of the country, had posted strong guards on all the roade; fo that the Gauls dared not ilir out for fear of being cut to pieces. Thus Brennus, who belieged

the Capitol, was belieged himfelf, and fuffered the fame Rome! inconveniences which he made the Romans undergo. Belides, a plague raged in his camp, which was placed in the midft of the ruins of the demolished city, his men lying confusedly among the dead carcafes of the Romans, whom they had tlain, and not buried. So great a number of them died in one quarter of the city, that it was afterwards called Bufta Gallica, or the place where the dead bodies of the Gauls were burnt. But, in the mean time, the Romans in the Capitol were more pinched with want than the Gauls. They were reduced to the last extremity, and at the same time icnorant both of the lamentable condition to which the enemy's army was brought, and of the fleps Camilles was taking to relieve them. That great general only waited for a favourable opportunity to fall upon the enemy; but, in the mean time, fuffered them to pine away in their infected camp, not knowing the extreme want the Romans endured in the Capitol, where they were fo destitute of all forts of provisions, that they could no longer subfift. Matters being brought to this fad pass on both fides, the centinels of the Capitol, and those of the enemy's army, began to talk to one another of an accommodation. Their discourses came at length to the ears of their leaders, who were not averfe to the defign. The fenate, not knowing what was become of Camil-

lus, and finding themselves hard pinched by hunger, refolved to enter upon a negotiation, and empowered Sulpitius, one of the military tribunes, to treat with the Gauls; who made no great difficulty in coming to terms, they being no lefs defirous than the Romans to put an end to the war. In a conference, therefore, between Brennus and Sulpitios, an agreement was made, and fworn to. The Romans were to pay to the Gauls The Ro-1000 pounds weight of gold, that is, 45,000l. sterling ; mans agree and the latter were to raife the fiege of the Capitol, to pay 1000 and quit all the Roman territories. On the day approunds of pointed, Sulpitius brought the fum agreed on, and heir ran-Brennus the scales and weights; for there were no gold form. or filver coins at that time, metals passing only by weight. We are told, that the weights of the Gauls were falle, and their scales untrue; which Sulpitius complaining of, Brennus, instead of redressing the injustice, threw his fword and belt into the scale where the weights were; and when the tribune asked him the meaning of fo extraordinary a behaviour, the only anfiver he gave was, Væ victis! " Wo to the conquered !" Sulpitius was fo flung with this haughty answer, that he was for carrying the gold back into the Capitol, and fustaining the fiege to the last extremity; but others thought it advisable to put up the affront, fince they had fubmitted to a far greater one, which was to pay any thing at all.

During these disputes of the Roman deputies among themselves and with the Gauls, Camillus advanced with his army to the very gates of the city; and being there informed of what was doing, he commanded the main body to follow him flowly and in good order, while he, with the choicest of his men, hastened to the place of the parley. The Romans, overjoyed at his unexpected arrival, opened to make room for him as the fuprente magistrate of the remblie, gave him an account of the treaty they had made with the Gauls, and complained of the wrong Brennus did them in the execution of jit.

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Camillus

of.

FIAI

Disputes

moving to

They had fear'ce done foeaking, when Camillus cried out, " Carry back this gold into the Capitol; and you, Gauls, retire with your scales and weights. Rome drives away must not be redeemed with gold, but with steel. Brenthe Gauls. nus replied, That he contravened a treaty which was concluded and confirmed with mutual oaths. " Be it fo (answered Camillas); yet it is of no force, having been made by an inferior magistrate, without the privity or confent of the dictator. I, who am invested with the fupreme authority over the Romans, declare the contract void." At these words Brennus slew into a rage; and both fides drawing their fwords, a confused fcuille enfued among the ruins of the houses, and in the narrow lanes. The Gauls, after an inconfiderable lofs, thought fit to retire within their camp; which they abandoned in the night, not caring to engage Camillus's whole army, and, having marched eight miles, encamped on the Gabinian way. Camillus purfued them as foon as it was day, and, coming up with them, gave them a total overthrow. The Gauls, according to Liwy, made but a faint refiftance, being disheartened at the lofs they had fustained the day before. It was not, The Gauls fays that author, fo much a battle as a flaughter. Maentirely cut ny of the Gauls were flain in the action, more in the

purfuit : but the greater number were cut off, as they wandered up and down in the fields, by the inhabitants of the neighbouring villages. In thort, there was not one fingle Gaul left to carry to his countrymen the news of this fatal catastrophe. The camp of the barbarians was plundered; and Camillus, loaded with spoils, returned in triumph to the city, the foldiers in their fongs flyling him, Romulus, Father of his country, and

Second founder of Rome.

As the houses of Rome were all demolished, and the walls razed, the tribunes of the people renewed, with more warmth than ever, an old project which had occafigned great diffoutes. They had formerly proposed a law for dividing the fenate and government between the cities of Veii and Rome. Now this law was revived; nav, most of the tribunes were for entirely abandoning their old ruined city, and making Veil the fole feat of the empire. The people were inclined to favour the project. Veil offering them a place fortified by art and nature, good houses ready built, a wholesome air, and a fruitful territory. On the other hand, they had no materials for rebuilding a whole city, were quite exhaufted by misfortunes, and even their ftrength was greatly diminished. This gave them a reluctance to fo great an undertaking, and emboldened the tribunes to utter feditious harangues against Camillus, as a man too ambitious of being the restorer of Rome. They even infinuated that the name of Romulus, which had been given him, threatened the republic with a new King. But the fenate took the part of Camillus, and, being defirous to fee Rome rebuilt, continued him, contrary to custom, a full year in the office of dictator; during which time be made it his whole bufiness to suptrefs the ftrong inclination of the people to remove to Veii. Having affembled the curice, he expollulated with them upon the matter; and, by arguments drawn from prudence, religion, and glory, prevailed upon them to lav afide all thoughts of leaving Rome. As it was necessary to have the resolution of the people confirmed by the fenate, the dictator reported it to the confcript

pleafed. While L. Lucretius, who was to give his Rome opinion the first, was beginning to speak, it happened that a centurion, who with his company had been upon guard, and was then marching by the fenate house, cried out aloud, "Plant your colours, enfign; this is the best place to stay in." These words were considered as dictated by the gods themselves; and Lucretius, taking occasion from them to urge the necessity of staying at Rome, "An happy omen, (cried he); I adore the gods who gave it." The whole fenate applauded his words; and a decree was passed without opposition for rebuilding the city.

Though the tribunes of the people were defeated by Camillus in this point, they refolved to exercise their authority against another patrician, who had indeed deferved punishment. This was Q. Fabius, who had vio-lated the laws of nations, and thereby provoked the Gauls, and occasioned the burning of Rome. His crime being notorious, he was fummoned by C. Martius Rutilus before the affembly of the people, to anfiver for his conduct in his embaffy. The criminal had reason to fear the severest punishment: but his relations gave out that he died fuddenly; which generally happened when the accused person had courage enough to prevent his condemnation, and the shame of a public punishment. On the other hand, the republic gave Marcus an house fituated on the Capitol to M. Manlius, as a Manlius

monument of his valour, and of the gratitude of his rewarded. fellow-citizens. Camillus closed this year by laying down his dictatorship: whereupon an interregnum enfued, during which he governed the flate alternately with P. Cornelius Scipio; and it fell to his lot to prefide at the election of new magistrates, when L. Valerius Poplicola, L. Virginius Tricoftus, P. Cornelius Coffus, A. Manlius Capitolinus, L. Æmilius Mamercinus, and L. Posthumius Albinus, were chosen. The first care of these new magistrates was to collect all the ancient monuments of the religion and civil laws of Rome which could be found among the ruins of the demolified city. The laws of the twelve tables, and fome ct the laws of the kings, had been written on brafs, and fixed up in the forum; and the treatics made with feveral nations had been engraved on pillars erected in the temples. Pains were therefore taken to gather up the ruins of these precious monuments; and what could not be found was supplied by memory. The pontifices, on their part, took care to re-establish the religious ceremonies, and made also a list of lucky and unlucky days.

And now the governors of the republic applied them- The city felves wholly to rehuild the city. Plutarch tells us rebuiltthat as the workmen were digging among the ruins of the temple of Mars, they found Rounulus's augural staff untouched by the tlames; and that this was lookedupon as a prodigy, from whence the Romans interred that their city would continue for ever. The expence of building private houses was partly defrayed out of the public treasure. The ædiles had the direction of the works : but they had so little taste for order or beauty, that the city, when rebuilt, was even lefs regular than in the time of Romulus. And though in Augustus's time, when Rome became the capital of the known world, the temples, palaces, and private houses, were built in a more magnificent manner than before; yet even then

these new decorations did not rectify the faults of the futhere, leaving every one at full liberty to vote as he

plan upon which the city had been built after its first demolition.

144 A general combinathe Ro. mans.

Rome was scarce restored, when her citizens were alarmed by the news that all her neighbours were comtion against bining to her deftruction. The Æqui, the Volfci, the Hetrurians, and even her old friends the Latins and the Hernici, entered into an alliance against her, in hopes of oppressing her before the had recovered her frength. The republic, under this terror, nominated Camillus dictator a third time. This great commander, having appointed Servilius to be his general of horse, fummoned the citizens to take arms, without excepting even the old men. He divided the new levies into three bodies. The first, under the command of A. Manlius, he ordered to encamp under the walls of Rome; the fecond he fent into the neighbourhood of Veii; and marched himself at the head of the third, to relieve the tribunes, who were closely befieged in their camp by the united forces of the Volfci and Latins. Finding the enemy encamped near Lanuvium, on the declivity of the hill Marcius, he posted himself behind it, and by lighting fires, gave the diffrested Romans notice of his arrival. The Volsci and Latins, when they understood that Camillus was at the head of an army newly arrived, were fo terrified, that they that themselves up in their camp, which they fortified with great trees cut down in hafte. The dictator, observing that this barrier was of defeats the green wood, and that every morning there arose a great wind, which blew full upon the enemy's camp, formed the defign of taking it by fire. With this view he ordered one part of his army to go by break of day with fire brands to the windward fide of the camp, and the

camp taken. Camillus then commanded his men to ex-

tinguish the flames, in order to fave the booty, with

which he rewarded his army. He then left his fon in

the camp to guard the prisoners; and, entering the

country of the Æqui, made himself master of their capi-

tal city Bola. From thence he marched against the

Volsci; whom he entirely reduced, after they had waged

war with the Romans for the space of 107 years. Hav-

ing subdued this untractable people, he penetrated into

Hetruria, in order to relieve Sutrium, a town in that

country in alliance with Rome, and belieged by a numerous army of Hetrurians. But, notwithstanding all

Volfci and Latins. other to make a brisk attack on the opposite side. By this means the enemy were entirely defeated, and their

and the

145 Camillus

the expedition Camillus could use, he did not reach the place before it had capitulated. The Sutrini, being greatly diffressed for want of provisions, and exhausted with labour, had furrendered to the Hetrurians, who had granted them nothing but their lives, and the clothes on their backs. In this destitute condition they had left their own country, and were going in fearch of new habitations, when they met Camillus leading an army to their relief. The unfortunate multitude no fooner faw the Ro-Hetroriass mans, but they threw themfelves at the dictator's feet, who, moved at this melancholy fight, defired them to take a little rest, and refresh themselves, adding, that he would foon dry up their tears, and transfer their forrows from them to their enemies. He imagined, that the Hetrurians would be wholly taken up in plundering the city, without being upon their guard, or observing any discipline. And herein he was not mistaken. The Hetrorians did not dream that the dictator could come to speedily from such a distance to Rome. furprise them; and therefore were wholly employed in plundering the houses and varrying off the booty, or featting on the provisions they had found in them. Many of them were put to the fword, and an incredible number made prisoners; and the city was restored to its ancient inhabitants, who had not waited in vain for the performance of the dictator's promife. And now, after these glorious exploits, which were finished in so short a time, the great Camillus entered Rome in triumph a third time.

Camillus having refigned his dictatorship, the republie chose fix new military tribunes, Q. Quinctius, Q. Servius, L. Julius, L. Aquilius, L. Lucretius, and Ser. Sulpitius. During their administration the country of the Æqui was laid wafte, in order to put it out of their power to revolt anew; and the two cities of Cortuofa and Contenebra, in the lucumony of the Tarquinienles, were taken from the Hetrurians, and entirely demolithed. At this time it was thought proper to repair the Capitol, and add new works to that part of the bill where the Gauls had endeavoured to fcale the c ! d ! Thefe works were effected very beautiful, as Lavy informs us, even in the time of Augustus, after the city was embellished with most magnificent decorations.

And now Rome being reinstated in her mer flourishing condition, the tribunes of the people, who had been for some time quiet, began to renew their seditious harangues, and revive the old quarrel about the division of the conquered land. The patricians had appropriated to themselves the Pomptin territory lately taken from the Volsci, and the tribunes laid hold of this opportunity to raife new disturbances. But the citizens being fo drained of their money that they had not enough left to cultivate new farms and flock them with cattle, the declamations of the tribunes made no impreffion upon their minds; so that the project vanished. As for the military tribunes, they owned that their election had been defective; and, left the irregularities of the former comitia should be continued in the fucceeding ones, they voluntarily laid down their office. So that, after a short interregnum, during which M. Manlius, Ser. Sulpitius, and L. Valerius Potitus, governed the republic, fix new military tribunes L. Papirius, C. Sergius, L. Æmilius, L. Menenius, L. Valerius, and C. Cornelius, were chosen for the ensuing year, which was spent in works of peace. A temple, which had been vowed to Mars during the war with the Gauls, was built, and confecrated by T. Quinctius, who prefided over the affairs of religion. As there had hitherto been but few Roman tribes beyond the Tiber which had a right of fuffrage in the cemitia, four new ones were added, under the name of the Stellating, Tramontina, Sabatina, and Arminiis; fo that the tribes were now in all 25, which enjoyed the fame rights and privi-

leges. The expectation of an approaching war induced the Unbounded centuries to choose Camillus one of the military tribunes power confor the next year. His colleagues were Ser. Cornelin eferred onl O. Servilius. L. Quinctius, L. Horatius, and P. Va-Camillus lerius. As all these were men of moderation, they agreed to invest Camillus with the fole management of affairs in time of war; and accordingly in tall fenance transferred all their power into his hands; fo that he became in effect dictator. It had been slrendy deter-

thined.

mined in the fenate to turn the arms of the republic against the Hetrurians; but, upon advice that the Antiates had entered the Pomptin territory, and obliged the Romans who had taken possession of it to retire, it was thought necessary to humble them before the republic engaged in any other enterprise. The Antiates had joined the Latins and Hernici near Satricum; fo that the Romans, being terrified at their predigious numbers, thewed themselves very backward to engage: which Camillus perceiving, he instantly mounted his horfe, and riding through all the ranks of the army, encouraged them by a proper speech; after which he difmounted, took the next flandard-bearer by the hand, led him towards the enemy, and cried out, Soldiers, advance. The foldiery were ashamed not to follow a general who exposed himself to the first attack; and therefore, having made a great shout, they fell upon the enemy with incredible fury. Camillus, in order to increase their eagerness still more, commanded a standard ates, &cc. a to be thrown into the middle of the enemy's battalions; which made the foldiers, who were fighting in the first ranks, exert all the resolution they could to recover it. The Antiates, not being able any longer to make head against the Romans, gave way, and were entirely defeated. The Latins and Hernici separated from the Volsci, and returned home. The Volsci, seeing themfelves thus abandoned by their allies, took refuge in the neighbouring city of Satricum; which Camillus imme-

diately invested, and took by affault. The Volsci threw

down their arms, and furrendered at discretion. He

then left his army under the command of Valerius; and

returned to Rome to folicit the confent of the fenate,

and to make, the necessary preparations for undertaking

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who gives

the Anti-

great de-

the fiege of Antium. But, while he was propofing this affair to the fenate, deputies arrived from Nepct and Sutrium, two cities in alliance with Rome in the neighbourhood of Hetruria, demanding fuccours against the Hetrurians, who threatened to beliege thefe two cities, which were the keys of Hetruria, Hereupon the expedition against Antium was laid afide, and Camillus commanded to hallen to the relief of the allied cities, with the troops which Servilius had kept in readiness at Rome in case of an emergency. Camillus immediately fet out for the new war; and, upon his arrival before Sutrium, found that important place not only befreged, but almost taken, the Hetrurians having made themselves masters of fome of the gates, and gained possession of all the avesues leading to the city. However, the inhabitants no tooner heard that Camillus was come to their relief. but they recovered their courage, and, by barricadoes made in the fireets, prevented the enemy from making themfelves mafters of the whole city. Camillus in the mean time having divided his army into two bodies, ordered Valerius to march, round the walls, as if he defigned to feale them, while he with the other undertook to charge the Hetturians in the rear, force his way into the city, and, thut up the enemy between the belieged and his troops. The Romans no fooner appeared but the Hetrurians betook themselves to a disorderly slight through a gate which was not invested. Camillus's troops made a dreadful flaughter of them within the city, while Valerius put great numbers of them to the fword without the walls. From reconquering Satrium, Canadius hafe, thenceforth decreed that no patrician should dwell in tened to the relief of Nepet. But that city-being heter the sanitones citade; and the Manifan Landy refolved

ter afficied to the Hetrurians than to the Romans, had Roman voluntarily submitted to the former. Wherefore Camillus, having invested it with his whole army, took it by affault, put all the Hetrurian foldiers without diftinction to the fword, and condemned the authors of the revolt to die by the axes of the lictors. Thus ended Camillas's military tribuneship, in which he acquired no lets reputation than he had done in the most plorious of his dictatorships.

In the following magistracy of fix military tribunes, Ambition a dangerous fedition is faid to have taken place through of M. Manthe ambition of Marcus Manlius, who had faved the lins, capitol from the Gauls in the manner already related. Though this man had pride enough to despife all the other great men in Rome, yet he envied Camillus, and took every opportunity of magnifying his own exploits beyond those of the dictator. But not finding such a favourable reception from the nobility as he defired, he concerted measures with the tribunes of the people, and strove to gain the affections of the multitude. Not content with renewing the propofal for the distribution of conquered lands, he also made himself an advocate for infolvent debtors, of whom there was now a great number as most of the lower class had been obliged to borrow money in order to rebuild their houses. The fenate, alarmed at this opposition, created A. Cornelius Coffus dictator, for which the war with the Volici afforded them a fair pretence. Manlius, however, still continued to inflame the people against the patricians, Befides the most unbounded perfonal generofity, he held affemblies at his own house (in the citadel), where he confidently gave out that the fenators, not content with being the poffesfors of those lands which ought to have being equally divided among all the citizens, had concealed, with an intent to appropriate it to their own use, all the gold which was to have been paid to the Gauls, and which would alone be fufficient to discharge the debts of all the poor plebeians; and he moreover promifed to show in due time where this treasure was concealed. For this affection he was brought before the dictator; who commanded him to discover where the pretended treasure was, or to confess openly before the whole affembly that he had ilandered the fenate .-Manlius replied, that the dictator himfelf, and the principal perfons in the fenate, could only give the proper intelligence of this treasure, as they had been the most active in feeuring it, Upon this he was committed to prifon; but the people made fuch disturbance, that the fenate were foon after fain to release him. By this he was emboldened to continue his former practices; till at last the fenate gave an order to the military tribunes to take care that the commonwealth fuffered no detriment from the pernicious projects of Marcus Maulius, and even gave them authority to affallinate him, if they found it necessary fo to do. At Just, however, he was publicly acquied of aspiring to be king ; however, the people, it is faid, were fo flruck with gratitude, on account of his having delivered the capitol from the Gauls, that they could not refolve to condemn him. But the military tribunes, who, it feems, were bent on his destruction, having appointed the affembly to be held without the city, there obtained their with. Manhus who is conwas thrown headlong from the capitol itself: it was demned thenceforth decreed that no patrician flould dwell in and

that no member of it should ever afterwards bear the prenomen of Marcus. No fooner was Manlius dead, however, than the people lamented his fate; and because a plague broke out foon after, they imputed it to the anger of the gods on account of the dellruction of the

hero who had faved the state (1).

The Romans, having now triumphed over the Sabines, the Etrurians, the Larine, the Hernici, the Æqui, and the Volfcians, began to look for greater conquests. They accordingly turned their arms against the Samnites, a people about 100 miles east from the city, descended from the Sabines, and inhabiting a large tract of fouthern Italy, which at this day makes a confiderable part of the kingdom of Naples. Valerius Corvus and Cornelius were the two confuls, to whose care it first fell to manage this dreadful contention between the rival states.

War with the Samnites.

Valerius was one of the greatest commanders of his time; he was furnamed Corvus, from a firange circumitance of being affilled by a crow in a fingle combat, in which he fought and killed a Gaul of a gigantic flature. To his colleague's care it was configned to lead an army to Samnium, the enemy's capital; while Corvus was fent to relieve Capua, the capital of the Campanians. The Samnites were the bravest men the Romans had ever yet encountered, and the contention between the two nations was managed on both fides with the most determined resolution. But the fortune of Rome prevailed; the Samnites at length fled, averring, that they were not able to withstand the fierce looks and the fire-darting eves of the Romans. The other conful, however, was not at first so fortunate; for having unwarily led his army into a defile, he was in danger of being cut off, had not Decius, a tribune of the army, possessed himself of a hill which commanded the enemy: so that the Samnites, being attacked on either fide, were defeated with great flaughter, no less than 30,000 of them being left dead upon the field of battle.

Some time after this victory, the foldiers who were stationed at Capua mutinying, forced Quintius, an old and eminent foldier, who was then refiding in the country, to be their leader; and, conducted by their rage more than their general, came within eight miles of the city. So terrible an enemy, almost at the gates, not a little alarmed the fenate; who immediately created Valerius Corvus dictator, and fent him forth with another army to oppose them. The two armies were now drawn up against each other, while fathers and sons beheld themselves preparing to engage in opposite causes; but Corvus, knowing his influence among the foldiery, instead of going forward to meet the mutineers in an hostile manner, went with the most cordial friendship to embrace and expostulate with his old acquaintances. His conduct had the defired effect. Quintius, as their speaker, only defired to have their defection from their duty forgiven; and as for himself, as he was innocent

of their conspiracy, he had no reason to solicit pardon. Rome. for his offences.

A war between the Romans and the Latins followed foon after; but as their habits, arms, and language. were the fame, the most exact discipline was necessary to prevent confusion in the engagement. Orders, therefore, were iffued by Marlius the conful, that no foldier thould leave his ranks upon whatever provocation; and that he should be certainly put to death who should offer to do otherwise. With these injunctions, both armies were drawn out in array, and ready to begin; when Metius, the general of the enemy's cavairy. pushed forward from his lines, and challenged anyknight in the Roman army to fingle combat. For forme time there was a general paule, no foldier offering to dilobey his orders, till Titus Manlius, the conful's own fon, burning with thame to fee the whole body of the Romans intimidated, boldly fallied out against his adversary. The foldiers on both sides for a while suspended the general engagement to be spectators of this fierce encounter. Manlius killed his adversary; and then despoiling him of his armour, returned in triumph to his father's tent, where he was preparing and giving. orders relative to the engagement. Howfoever he might have been applauded by his fellow-foldiers, being as yet doubtful of the reception he should find from hisfather, he came, with hefitation, to lay the enemy's fpoils at his feet, and with a modelt air infinuated, that what he did was entirely from a spirit of hereditary virtue. But he was foon dreadfully made fenfible of his error, when his father, turning away, ordered him to be led publicly forth before the army, and there to have his head flruck off on account of his disobeying The whole army was firuck with horror at this unnatural mandate: fear for a while kept them in fulpense; but when they faw their young champion's head flruck off, and his blood ffreaming upon theground, they could no longer contain their execuations and their groans. His dead body was carried forth without the camp, and being adorned with the spoils of the vanquished enemy, was buried with all the pomp of military diffrefs.

In the mean time, the battle joined with mutual A bloody fury; and as the two armies had often fought under lattle with the same leaders, they combated with all the animo- the Latins, fity of a civil war. The Latins chiefly depended on their bodily firength; the Romans, on their invincible courage and conduct. Forces fo nearly matched feemed only to require the protection of their deities to turn the scale of victory; and, in fact, the augurs had forctold, that whatever part of the Roman army should be distressed, the commander of that part should devote himself for his country, and die as a sacrifice to the immortal gods. Manlius commanded the right wing, and Decius led on the left. Both fides fought for some time with coubtful fuccess, as their courage was equal; but, after a time, the left wing of the Roman army began to-

give

<sup>(</sup>A) The above accounts are exactly conformable to what is to be found in the best Latin histories; nevertheless they are far from being reckoned univerfally authentic. Mr Hooke, in his annotations on the death of M. Manlius, has given very strong reasons against believing either that Camillus rescued the gold from the Gauls, or that Manlius was condemned. See Hooke's Roman History, vol. ii. p. 326, et feq.

who are totally de-

Subdued.

give ground. It was then that Decius, who commanded there, resolved to devote himself for his country, and to offer his own life as an atonement to fave his army. Thus determined, he called out to Manlius with a loud voice, and demanded his instructions, as he was the chief pontiff, how to devote himself, and the form of the words he thould use. By his directions, therefore, being clothed in a long robe, his head covered, and his arms stretched forward, standing upon a javelin, he devoted himself to the celestial and infernal gods for the fafety of Rome. Then arming himfelf, and mounting on horseback, he drove furiously into the midsl of the enemy, carrying terror and confernation wherever he came, till he fell covered with wounds. In the mean time, the Roman army confidered his devoting himfelf in this manner as an affurance of fuccess; nor was the fuperstition of the Latins less powerfully influenced by his resolution; a total rout began to ensue: the Romans pressed them on every side; and so great was the carnage, that scarce a fourth part of the enemy survived the defcat. This was the last battle of any consequence that the Latins had with the Romans : they were forced to beg a peace upon hard conditions; and two years after, their strongest city, Pædum, being taken, they were brought under an entire submission to the Roman

A fignal difference which the Romans fustained about this time in their contest with the Samnites, made a pause in their usual good fortune, and turned the scale for a while in the enemy's favour. The fenate having denied the Samnites peace, Pontius their general was resolved to gain by stratagem what he had frequently lost by force. Accordingly, leading his army into a defile called *Claudium*, and taking possession of all its outlets, he fent 10 of his foldiers, habited like shepherds, with directions to throw themselves in the way the Romans were to march. The Roman conful met them, and taking them for what they appeared, demanded the route the Samnite army had taken; they, with feeming indifference, replied, that they were gone to Luceria, a town in Apulia, and were then actually befieging it. The Roman general, not suspecting the stratagem that was laid against him, marched directly by the shortest road, which lay through the defiles, to relieve the city; and was not undeceived till he faw his army furrounded, and blocked up on every fide. Pontius thus having the Romans entirely in his power, first obliged the army to pass under the yoke, having been previously stripped of all but their garments; he then flipulated that they should wholly quit the territories of the Samnites, and that they should continue to live upon terms of former confederacy. The Rumans were constrained to submit to this ignominious treaty, and marched into Capua dif-armed and half naked. When the army arrived at Rome, the whole city was most furprifingly afflicted at their shameful return; nothing but grief and refentment was to be feen, and the whole city was put into mourning.

But this was a transitory calamity: the war was carried on as usual for many years; the power of the Samnites declining every day, while that of the Romans continually increased. Under the conduct of Papirius Curlor, who was at different times conful and dictator, repeated triumphs were gained. Fabius Maximus also had bis share in the glory of conquering them; and Decius, the son of that Decius whom we saw devoting himfelf for his country about 40 years before, Rome. followed the example of his father, and rulked into the midth of the enemy, imagining that he could fave the lives of his countrymen with the lofs of his own.

The fuccess of the Romans against the Samnites Pyrrhus alarmed all Italy. The Tarentines in particular, who king of alarmed all traty. The Latermans in personal probability and long plotted underhand againfit the republic, now Epirus inopenly declared themselves; and invited into Italy vited into Pyrrhus king of Epirus, in hopes of being able by Italy by the Tarentines. his means to subdue the Romans. The offer was readily accepted by that ambitious monarch, who had nothing less in view than the conquest of all Italy .-Their ambaffadors carried magnificent prefents for the king, with instructions to acquaint him, that they only wanted a general of fame and experience; and that, as for troops, they could themselves furnish a numerous army of 20,000 horse and 350,000 foot, made up of Lucanians, Messapians, Samnites, and Tarentines. As foon as the news of this deputation were brought to the Roman camp, Æmilius, who had hitherto made war on the Tarentines but gently, in hopes of adjusting matters by way of negociation, took other measures, and began to commit all forts of hosfilities. He took cities, flormed castles, and laid the whole country waste, burning and destroying all before him. The Tarentines brought their army into the field; but Æmilius foon obliged them to take refuge within their walls. However, to induce them to lay afide the defign of receiving Pyrrhus, he used the prisoners he had taken with great moderation, and even fent them back without ranfom. These highly extolled the generofity of the conful, infomuch that many of the inhabitants were brought over to the Roman party, and they all began to repent of their having rejected a peace and fent for Pyrrhus.

But, in the mean time, the Tarentine ambaffadors arriving in Epirus, purfuant to the powers they had received, made an absolute treaty with the king; who immediately fent before him the famous Cyneas, with 3000 men, to take possession of the citadel of Tarentum. This eloquent minister soon found means to depose Agis, whom the Tarentines had chosen to be their general and the governor of the city, though a fincere friend to the Romans. He likewife prevailed upon the Tarentines to deliver up the citadel into his hands; which he no fooner got possession of, than he dispatched meffengers to Pyrrhus, foliciting him to haften his departure for Italy. In the mean time, the conful Æmilius, finding that he could not attempt any thing with fuccess against the Tarentines this campaign, resolved to put his troops into winter quarters in Apulia, which was not far from the territory of Tarentum, that was foon to become the feat of the war. As he was obliged to pass through certain defiles, with the sea on one fide and high hills on the other, he was there attacked by the Tarentines and Epirots from great numbers of barks fraught with baliftæ (that is, engines for throwing flones of a vaft weight), and from the hills, on which were posted a great many archers and slingers. Hereupon Æmilins placed the Tarentine prisoners between him and the enemy; which the Tarentines perceiving, foon left off molefling the Romans, out of compassion to their own countrymen; so that the Romans arrived fafe in Apulia, and there took up their winterquarters.

Rome.

The next year Æmilius was continued in the command of his own troops, with the title of proconful; and was ordered to make war upon the Salentines, who had declared for the Tarentines. The present exigence of affairs obliged the Romans to enlift the proletarii, who were the meaneft of the people, and therefore by way of contempt called proletarii, as being thought incapable of doing the flate any other fervice than that of peopling the city, and flocking the republic with fubiects. Hitherto they had never been fuffered to bear arms: but were now, to their great fatisfaction, enrolled as well as others. In the mean time Pyrrhus arrived at Tarentum, having narrowly escaped thipwreck; and being conducted into the city by his faithful Cyneas, was re-

Pyrrhus obliges the Tarentines

ceived there with loud acclamations. The Tarentines, who were entirely devoted to their pleafures, expected that he thould take all the fatigues to learn the of the war on himfelt, and expose only his Epirots to art of war, danger. And indeed Pyrrhus for fome days diffembled his defign, and fuffered the Tarentines to indulge without restraint in their usual diversions. But his ships, which had been disperted all over the Ionian sea, arriving one after another, and with them the troops which he had put on board at Epirus, he began to reform the disorders that prevailed in the city. The theatre was the place to which the idle Tarentines reforted daily in great numbers, and where the incendiaries stirred up the people to fedition with their harangues : he therefore caused it to be flut up, as he did likewise the public gardens, porticoes, and places of exercise, where the inhabitants used to entertain themselves with news, and fpeak with great freedom of their governors, centuring their conduct, and fettling the government according to their different humours, which occasioned great divifions, and rent the city into various factions. As they were a very voluptuous and indolent people, they frent whole days and nights in feafts, masquerades, plays, &c. Thefe, therefore, Pyrrhus absolutely prohibited, as no less dangerous than the assemblies of prating politicians. They were utter strangers to military exercises, and the art of handling arms; but Pyrrhus having caused an exact register to be made of all the young men who were fit for war, picked out the strongest amongst them, and incorporated them among his own troops, faying, that he would take it upon himself to give them courage. He exercifed them daily for feveral hours; and on that occasion behaved with an inexorable severity, inflicting exemplary punishment on such as did not attend or failed in their duty. By these wise measures he prevented feditions among the citizens, and inured their youth to military discipline; and because many, who had not been accustomed to such severity and rigour, withdrew from their native country, Pyrrhus, by a public proclamation, declared all those capitally guilty who should attempt to abandon their country, or abient themselves from the common musters.

The Tarentines, being now fensible that Pyrrhus was determined to be their mafter, began loudly to complain of his conduct; but he, being informed of whatever paffed among them by his fpies, who infinuated themfelves into all companies, privately dispatched the most factious, and fent those whom he suspected, under various pretences, to his fon's court in Epirus.

In the mean time, P. Valerius Lævinus, the Roman conful, entering the country of the Lucanians, who were in alliance with the Tarentines, committed great

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ravages there; and having taken and fortified one of Rome. their castles, waited in that neighbourhood for Pyrrhus. The king, though he had not yet received any succours from the Samnites, Messapians, and other allies of the Tarentines, thought it highly dithonourable to continue thut up in a city, while the Romans were ravaging the country of his friends. He therefore took the field with the troops he had brought with him from Epirus, some recruits of Tarentum, and a small number of Italians. But before he began hostilities, he wrote a letter to Lævinus, commanding him to difband his army; and on his refusal, immediately marched towards those parts where Lævinus was waiting for him. The Romans were encamped on the hither fide of the river Siris; and Pyrrhus appearing on the opposite bank, made it his first bufiness to reconnoitre the enemy's camp in person, and fee what appearance they made. With this view he croffed the river, attended by Megacles, one of his otticers and chief favourites; and having observed the conful's intrenchments, the manner in which he had poiled his advanced guards, and the good order of his camp, he was greatly furprifed; and addressing Megacles, "These people (said he) are not such barbarians as we take them to be: let us try them before we condemu them." On his return, he changed his resolution of attacking them; and, thutting himfelf up in his intrenchments, waited for the arrival of the confederate troops. In the mean time, he posted strong guards along the river, to prevent the enemy from passing it, and concinually fent out feouts to discover the designs, and watch the motions of the conful. Some of their being taken by the advanced guards of the Romans, the conful himfelf led them through his camp, and having thewed them his army, fent them back to the king, telling them, that he had many other troops to show them in due time.

Lævinus being determined to draw the enemy to a His first battle before Pyrrhus received the reinforcements he battle with expected, having harangued his troops, marched to the the Robanks of the Siris; and there drawing up his infantry mars. in battalia, ordered the cavalry to file off, and march a great way about, in order to find a passage at some place not defended by the enemy. Accordingly, they paffed the river without being observed; and falling upon the guards which Pyrrhus had posted on the banks overagainst the consular army, gave the infantry an opportunity of croffing the river on bridges which Lævinus had prepared for that purpole. But before they got over, Pyrrhus, haftening from his camp, which was at fome distance from the river, hoped to cut the Roman army in pieces while they were difordered with the difficulties of passing the river, and climbing up the steep banks; but the cavalry covering the infantry, and standing between them and the Epirots, gave them time to form themselves on the banks of the river. On the other hand, Pyrrhus drew up his men as fast as they came from the camp, and performed fuch deeds of valour, that the Romans thought him worthy of the great reputation he had acquired.

As the cavalry alone had hitherto engaged, Pyrrhus, who confided most in his infantry, hastened back to the camp, in order to bring them to the charge; but took two precautions before he began the attack : the first was, to ride through the ranks, and show himself to the whole army; for his horse having been killed under him in the first onset, a report had been spread that he was

Rome, flain: the fecond was, to change his habit and helmet with Megacles; for having been known in the engagement of the horse by the richness of his attire and armour, many of the Romans had aimed at him in particular, fo that he was with the utmost difficulty taken and faved, after his horse had been killed under him. Thus difguifed, he led his phalanx against the Roman legions, and attacked them with incredible fury. Lævinus fustained the shock with great resolution, so that the victory was for many hours warmly difputed. The Romans gave feveral times way to the Epirots, and the Epirots to the Romans; but both parties rallied again, and were brought back to the charge by their commanders. Megacles, in the attire and helmet of Pyrrhus, was in all places, and well supported the character he had assumed. But his disguise at last proved fatal to him: for a Roman knight, by name Dexter, taking him for the king, followed him wherever he went; and having found an opportunity of discharging a blow at him, ftruck him dead on the fpot, ftripped him of his helmet and armour, and carried them in triumph to the conful, who, by showing to the Epirots the fpoils of their king, fo terrified them, that they began to give ground. But Pyrrhus, appearing bare-headed in the first files of his phalanx, and riding through all the lines, undeceived his men, and inspired them with new courage.

> The advantage seemed to be pretty equal on both fides, when Lavinus ordered his cavalry to advance; which Pyrihus observing, drew up 20 elephants in the front of his army, with towers on their backs full of bowmen. The very fight of those dreadful animals chilled the bravery of the Romans, who had never before seen any. However, they still advanced, till their horses, not being able to bear the smell of them, and frightened at the strange noise they made, either threw their riders, or carried them on full speed in spite of their utmost efforts. In the mean time, the archers, discharging showers of darts from the towers, wounded feveral of the Romans in that confusion, while others were trod to death by the elephants. Notwithstanding the diforder of the cavalry, the legionaries still kept their ranks, and could not be broken, till Pyrrhus attacked them in person at the head of the Thessalian horse. The onset was so furious, that they were forced to yield, and retire in diforder. The king of Epirus restrained the ardour of his troops, and would not suffer them to purfue the enemy : an elephant, which had been wounded by a Roman foldier named Minucius, having caused a great disorder in his army, this accident favoured the retreat of the Romans, and gave them time to repais the river, and take refuge in Apulia. The Epirot remained mafter of the field, and had the pleafure to fee the Romans fly before him : but the victory cost him dear, a great number of his best offihe was heard to fay after the action, that he was both conqueror and conquered, and that if he gained fuch another victory, he should be obliged to return to Epi-

His first care after the action was to bury the dead, with which the plain was covered; and herein he made no diffinction between the Romans and his own Epirots. In viewing the bodies of the former, he obferved, that none of them had received dishonourable wounds; that they had all fallen in the posts affigued Rome. them, still held their fwords in their hands, and showed, even after death, a certain martial air and fierceness in their faces; and on this occasion it was that he uttered those famous words: " O that Pyrrhus had the Romans for his foldiers, or the Romans Pyrrhus for their leader ! together, we thould fubdue the whole world."

The king of Epirus understood the art of war too Pyrrhus rewell not to reap what advantage he could from his vic-duces fevetory. He broke into the countries in alliance with the ral towns. Romans, plundered the lands of the republic, and made incursions even into the neighbourhood of Rome. Many cities opened their gates to him, and in a flort time he made himself master of the greatest part of Campania. While he was in that fruitful province, substitting his troops there at the expence of the Romans, he was joined by the Samnites, Lucanians, and Messapians, whom he had fo long expected. After having reproached them for their delay, he gave them a good thare of the spoils he had taken from the enemy; and having by this means gained their affections, he marched without loss of time to lay fiege to Capua: but Lævinus, having already received a reinforcement of two legions, threw some troops into the city; which obliged Pyrrhus to drop his defign, and, leaving Capua, to march straight to Naples. Lævinus followed him, haraffing his troops on their march; and at length, by keeping his army in the neighbourhood, forced him to give over all thoughts of making himself matter of that important city. The king then, all on a fudden, took his route towards Rome by the Latin way, furprifed Fregellæ, and, marching through the country of the Hernici, fat down before Præncste. There, from the top of a hill, he had the pleasure of seeing Rome; and is faid to have advanced fo near the walls, that he drove a cloud of dust into the city. But he was soon forced to retire by the other conful T. Coruncanius, who, having reduced Hetruria, was just then returned with his victorious army to Rome. The king of Epirus, therefore, having no hopes of bringing the Hetrurians into his interest, and seeing two consular armies ready to fall upon him, raised the siege of Præneste, and haftened back into Campania; where, to his great furprife, he found Lævinus with a more numerous army than that which he had defeated on the banks of the Siris. The conful went to meet him, with a defign to try the fate of another battle; which Pyrrhus being unwilling to decline, drew up his army, and, to strike terror into the Roman legions, ordered his men to beat their bucklers with their lances, and the leaders of the elephants to force them to make a hideous noise. But the noise was returned with such an univerfal shout by the Romans, that Pyrrhus, thinking so much alacrity on the part of the vanquished too fure a prognoflic of victory, altered his mind; and, pretending that the auguries were not favourable, retired to Tarentum, and put an end to the campaign.

While Pyrihus continued quiet at Tarentum, he tle u clines had time to reflect on the valour and conduct of the to peace. Romans; which made him conclude, that the war in which he was engaged must end in his ruin and difgrace, if not terminated by an advantageous peace. He was therefore overjoyed when he heard that the fenate had determined to fend an honomable embaffy to him, not doubting but their errand was to propose

he Ro-

Rome. terms of peace. The ambaffadors were three men of diftinguished merit; to wit, Cornelius Dolabella, who was famous for the fignal victory he had gained over the Senones, Fabricius, and Æmilius Pappus, who had been his colleague in the confulate two years before. When they were admitted to an audience, the only thing they demanded was a furrender of the prisoners, either by the way of exchange, or at fuch a ranfom as should be agreed on; for Pyrrhus, in the late battle, had made 1800 prisoners, most of them Roman knights and men of diffinction in the republic. They had fought with great bravery, till their horses, frightened with the roaring of the king's elephants. had either thrown them, or obliged them to difmount; by which unforeseen accident they had fallen into the enemy's hands. The fenate, therefore, pitying the condition of those brave men, had determined, contrary to their cuftom, to redeem them. Pyrrhus was greatly furprifed and disappointed when he found that they had no other proposals to make; but, concealing his thoughts, he only answered, that he would consider of it, and let them know his refolution. Accordingly, he affembled his council: but his chief favourites were divided in their opinions. Milo, who commanded in the citadel of Tarentum, was for coming to no compofition with the Romans; but Cyneas, who knew his mafter's inclination, proposed not only fending back the prisoners without ransom, but dispatching an embassy to Bome to treat with the fenate of a lasting peace. His advice was approved, and he himself appointed to go on that embaffy. After these resolutions, the king acquainted the ambaffadors, that he intended to release the prisoners without ransom, fince he had already riches enough, and defired nothing of the republic but her friendthip. Afterwards he had feveral conferences with Fabricius, whose virtue he had tried with mighty offers of riches and grandeur; but finding him proof against all temptations, he resolved to try whether his intrepidity and courage were equal to his virtue. With this view, he caused an elephant to be placed behind a curtain in the hall where he received the Roman ambaffador. As Fabricius had never seen one of those beasts, the king, taking a turn or two in the hall with him, the curtain to be drawn all on a fudden, and that monstrous animal to make his usual notic, and even lay his trunk on Fabricius's head. But the intrepid Roman, without betraying the least fear or concern, " Does the great king (faid he, with furprifing calmness), who could not ftagger me with his offers, think to trighten me with the braying of a boaft?" Pyrrhus, aftonished at his immovable constancy, invited him to dine with him; and on this occasion it was, that the conversation turning upon the Epicurean philosophy, Fabricius made that celebrated exclamation, "O that Pyrrhus, both for Rome's fake and his own, had placed his happiness in the boz ed indolence of Epicurus."

Every thing Pyrrhus heard or faw of the Rom as incre fed his carnelln is for peace. He fent for the line am a Tadors, released 200 of the prisoners without ran-Rome to celebrate the Saturnalia, or feats c. Stern, our g ined the good-will of the Roman ambaffadors, he fent Cyneas to Rome, almost at the same time that they

left Tarentum. The inftructions he gave this faithful Rome. minister, were, to bring the Romans to grant these three articles: 1. That the Varentines should be included in the treaty made with the king of Epirus. 2. That the Greek cities in Italy should be suffered to enjoy their laws and liberties. 3. That the republic should restore to the Samnites, Lucanians, and Bruttians, all the places the had taken from them. Upon these conditions, Pyrrhus declared himfelf ready to forbear all further hostilities, and conclude a lasting peace. With these instructions Cyneas set out for Rome; where, partly by his eloquence, partly by rich prefents to the fenators and their wives, he foon gained a good number of voices. When he was admitted into the senate, he made a harangue worthy of a disciple of the great Demosshenes; after which, he read the conditions Pyrrhus proposed, and, with a great deal of eloquence, endeavouring to show the reasonableness and moderation of his matter's demands, asked leave for Pyrrhus to come to Rome to conclude and fign the treaty. The fenators were generally inclined to agree to Pyrrhus's terms; but neverthelefs, as feveral fenators were abfent, the determination of the affair was postponed to the next day; when Appius Claudius, the greatest orator and most learned civilian in Rome, old and blind as he was, caufed himfelf to be carried to the fenate, where he had not appeared The Rofor many years; and there, partly by his eloquence, mans refusi partly by his authority, fo prepoflessed the minds of the fenators against the king of Epirus, and the conditions he offered, that, when he had done speaking, the confcript fathers unanimously passed a decree, the substance

of which was, That the war with Pyrrhus should be continued; that his ambaffador should be fent back that very day; that the king of Epirus should not be permitted to come to Rome; and that they should acquaint his ambaffador, that Rome would enter into no treaty of peace with his mafter till he had left

Cyneas, surprised at the answer given him, left Rome the fame day, and returned to Tarentum, to acquaint the king with the final resolution of the senate. Pyrrhus would have willingly concluded a peace with them upon honourable terms; but, as the conditions they offered were not by any means confident with the reputation of his arms, he began, without loss of time, to make all due preparations for the next campaign. On the other hand, the Romans baving raifed to the consulate P. Sulpicius Saverrio, and P. Decius Mus, dispatched them both into Apulia, where they found Pyrrhus enconfuls, joining their armies, fortified themselves at the foot of the Apenaines, having between them and the enemy a large deep stream which divided the plain, Both armies continued a great while on the opposite other. The Epirots allowed the Romans to crofs the freem, and draw up on the plain. On the other hand, Pyrrhus placed his men likewife in order of battle in the fame plain; and all the ancients do him the jutlice to far, that no com nond r ever no lerstood better the art of drawing up an army and directing its motions. In the right wine he placed his Epirots and the Samuites, battlin his left the Lucanians, Bruttians, and Salentines; and his pholar x in the centre. The centre of the Roman army confifted of four legions, which were to en-

prifoners.

gage the enemy's phalanx; on their wings were posted the light armed auxiliaries and the Roman horfe. The confuls, in order to guard their troops against the fury of the elephants had prepared chariots, armed with long points of iron in the shape of forks, and filled with foldiers carrying firebrands, which they were directed to throw at the elephants, and by that means frighten them, and fet their wooden towers on fire. These chariots were posted over-against the king's elephants, and ordered not to ftir till they entered upon action. To this precaution the Roman generals added another, which was, to direct a body of Apulians to attack Pyrrhus's camp in the heat of the engagement, in order to force it, or at least to draw off part of the enemy's troops to defend it. At length the attack began, both parties being pretty equal in number; for each of them confilled of about 40,000 men. The phalanx fustained, for a long time, the furious onset of the legions with incredible bravery; but at length being forced to give way, Pyrrhus commanded his elephants to advance, but not on the fide where the Romans had posted their chariots; they marched round, and, falling upon the Roman horse, soon put them into confusion. Then the phalanx, returning with fresh courage to the charge, made the Roman legions in their turn give ground. On this occasion Decius was killed, fo that one conful only was left to command the two Roman armies. But while all things feemed to favour Pyrrhus, the body of Apulians which we have mentioned above. falling unexpectedly on the camp of the Epirots, obliged the king to dispatch a strong detachment to defend his intrenchments. Upon the departure of these troops, fome of the Epirots, imagining that the camp was taken, began to lofe courage, and retire; those who were next to them followed their example, and in a short time the whole army gave way. Pyrrhus having attempted feveral times in vain to rally his forces, returned to the charge with a fmall number of his friends and the most courageous of his officers. With these he suflained the fury of the victorious legions, and covered the retreat of his own men. But being, after a most gallant behaviour, dangerously wounded, he retired at last with his small band in good order, leaving the Romans mafters of the field. As the fun was near fetting, the Romans, being extremely fatigued, and a great number of them wounded, the conful Sulpicius, not thinking it advisable to pursue the enemy, founded a retreat, repassed the stream, and brought his troops back to the camp. Sulpicius appeared in the field of battle the next day, with a defign to bring the Epirots to a fecond engagement; but finding they had withdrawn in the night to Tarentum, he likewise retired, and put his troops into winter-quarters in Apulia.

Both armies continued quiet in their quarters during winter; but early in the fpring took the field anew .-The Romans were commanded this year by two men of great fame, whom they had raifed to the confulate the fecond time: these were the celebrated C. Fabricius and O. Æmilius Pappus; who no fooner arrived in Apulia, than they led their troops into the territory of Tarentum. Pyrrhus, who had received confiderable reinforcements from Epirus, met them near the frontiers, and encamped at a small distance from the Roman army. While the confuls were waiting here for a favourable pportunity to give battle, a messenger from Nicias, the

king's physician, delivered a letter to Fabricius; where- Rome. in the traitor offered to take off his mafter by poilon, provided the conful would promife him a reward propor- The king's tionable to the greatness of the service. The virtuous physician Roman, being filled with horror at the bare proposal of offers to fuch a crime, immediately communicated the affair to poison him, fuch a crime, immediately communicated the shall but is dif-his colleague; who readily joined with him in writing but is dif-covered by a letter to Pyrrhus, wherein they warned him, without the Rodiscovering the criminal, to take care of himself, and mans. be upon his guard against the treacherous designs of those about him. Pyrrhus, out of a deep sense of gratitude for fo great a benefit, released immediately, without ranfom, all the prifoners he had taken. But the Romans, diddaining to accept either a favour from an enemy, or a recompense for not committing the blackest treachery, declared, that they would not receive their prisoners but by way of exchange; and accordingly sent to Pyrrhus an equal number of Samnite and Tarentine

As the king of Epirus grew every day more weary of a war which he feared would end in his difgrace, he fent Cyneas a fecond time to Rome, to try whether he could, with his artful harangues, prevail upon the confcript fathers to hearken to an accommodation, upon fuch terms as were confistent with his honour. But the ambaffador found the fenators steady in their former resolution, and determined not-to enter into a treaty with his mafter till he had left Italy, and withdrawn from thence all his forces. This gave the king great uneafiness; for he had already lost most of his veteran troops and best officers, and was sensible that he should lose the rest if he ventured another engagement. While Pyrrhus he was revolving these melancholy thoughts in his mind, goes into ambaffadors arrived at his camp from the Syracufans, Sicily. Agrigentines, and Leontines, imploring the affiltance of his arms to drive out the Carthaginians, and put an end to the troubles which threatened their respective states with utter destruction. Pyrrhus, who wanted only some honourable pretence to leave Italy, laid hold of this; and appointing Milo governor of Tarentum, with a strong garrison to keep the inhabitants in awe during his absence, he set sail for Sicily with 30,000 foot and 2500 horse, on board a fleet of 200 ships. Here he was at first attended with great success; but the Sicilians, difgusted at the resolution he had taken of passing over into Africa, and much more at the enormous exactions and extortions of his ministers and courtiers, had fubmitted partly to the Carthaginians and partly to the Mamertines. When Carthage heard of this change, new troops were raifed all over Africa, and a numerous army fent into Sicily to recover the cities which Pyrrhus had taken. As the Sicilians daily deferted from him in crowds, he was no way in a condition, with his Epirots alone, to withstand so powerful an enemy; and therefore, when deputies came to him from the Tarentines, Samnites, Bruttians, and Lucanians, representing to him the loffes they had fuftained fince his departure, and remonstrating, that, without his assistance, they must fall a facrifice to the Romans, he laid hold of that opportunity to abandon the ifland, and return to Italy. His fleet was attacked by that of Carthage; and his ar- He returns my, after their landing, by the Mamertines. But Pyr-into Italy. rhus having, by his heroic bravery, escaped all danger, marched along the fea-shore, in order to reach Tarentum that way. As he passed through the country of

defeated. and dangeroufly wounded.

Rome, the Locrians, who had not long before maffacred the troops he had left there, he not only exercised all forts of cruelty on the inhabitants, but plundered the temple of Proferpine to supply the wants of his army. The immenfe riches which he found there, were, by his order, fent to Tarentum by fea; but the ships that carried them being dashed against the rocks by a tempest, and the mariners all lost, this proud prince was convinced, fays Livy, that the gods were not imaginary beings, and caufed all the treasure, which the fea had thrown upon the fliore, to be carefully gathered up, and replaced in the temple : nay, to appeale the wrath of the angry goddess, he put all those to death who had advised him to plunder her temple. However, superstition made the ancients afcribe to this act of impiety all the misfortunes which afterwards befel that unhappy

Pyrrhus at length arrived at Tarentum; but of the army he had carried into Sicily, he brought back into Italy only 2000 horse and not quite 20,000 foot. He therefore reinforced them with the best troops he could raife in the countries of the Samnites, Lucanians, and Bruttians; and hearing that the two new confuls, Curius Dentatus and Cornelius Lentulus, had divided their forces, the one invading Lucania and the other Samnium, he likewise divided his army into two bodies, marching with the choice of his Epirots against Dentatus, in hopes of furprifing him in his camp near Beneventum. But the conful having notice of his approach, went out of his intrenchments with a strong detachment of legionaries to meet him; repulsed his vanguard, put many of the Epirots to the fword, and took forme of their elephants. Curius encouraged with this fuccess, marched his army into the Tauralian fields, and drew it up in a plain which was wide enough for his troops, but too narrow for the Epirot phalanx, the phalangites being fo crowded that they could not handle their arms without difficulty. But the king's eagerness to try his ftrength and skill with so renowned a commander, made Curius Den-him engage at that great difadvantage. Upon the first fignal the action began; and one of the king's wings giving way, the victory feemed to incline to the Romans. But that wing where the king fought in person repulfed the enemy, and drove them back quite to their intrenchments. This advantage was in great part owing to the elephants; which Curius perceiving, commanded a corps de referve, which he had posted near the camp, to advance and fall upon the elephants. These carrying burning torches in one hand, and their fwords in the other, threw the former at the elephants, and with the latter defended themselves against their guides; by which means they were both forced to give way. The elephants being put to flight broke into the phalanx, close as it was, and there caufed a general diforder; which was increased by a remarkable accident: for it is said, that a young elephant being wounded, and thereupon making a dreadful noise, the mother quitting her rank, and haftening to the affiftance of her young one, put those who still kept their ranks into the utmost confufion. But, however that be, it is certain that the Romans obtained at last a complete victory. Orosius and Eutropius tell us that Pyrrhus's army confifted of 80,000 foot and 6000 horse, including his Epirots and allies; whereas the confular army was scarcely 20,000 strong.

Those who exaggerate the king's loss fay, that the num-

ber of the flain on his fide amounted to 30,000 men; Rom. but others reduce it to 20,000. All writers agree, that Curius took 1200 prifoners and eight elephants. This victory, which was the most decisive Romé had ever gained, brought all I:aly under fubjection, and paved the way for those vatt conqueits which afterwards made the Romans matters of the whole known world.

Pyrrhus being no way in a condition, after the great He abanloss he had sustained, to keep the field, retired to Ta-donshis rentum, attended only by a small body of horse, leaving allies, the Romans in full possession of his camp; which they fo much admired, that they made it ever after a model to form theirs by. And now the king of Epirus refolved to leave Italy as foon as possible; but concealed his defign, and endeavoured to keep up the drooping fpirits of his allies, by giving them hopes of speedy succours from Greece. Accordingly he dispatched ambassadors into Atolia, Illyricum, and Macedon, demanding supplies of men and money. But the answers from those courts not proving favourable, he forged fuch as might please those whom he was willing to deceive; and by this means supported the courage of his friends, and kept his enemy in play. When he could conceal his departure no longer, he pretended to be on a fudden in a great passion at the dilatoriness of his friends in sending him fuccours; and acquainted the Tarentines, that he must go and bring them over himself. However, he left behind him a frong garrifon in the citadel of Tarentum, under the command of the fame Milo who had kept it for him during his stay in Sicily. In order to keep this governor in his duty, he is faid to have made him a very strange present, viz. a chair covered with the fkin of Nicias, the treacherous physician, who had offered Fabricius to poison his master. After all these difguifes and precautions, Pyrrhus at last fet fail for Epirus, and arrived fafe at Acroceraunium with 8000 foot and 500 horse; after having spent to no purpose fix years in Italy and Sicily.

Though, from the manner in which Pyrrhus took his leave, his Italian allies had little reason to expect any further affiftance from him, yet they continued to amuse themselves with vain hopes, till certain accounts arrived of his being killed at the fiege of Argos, as has been related under the article EPIRUS. This threw who are the Samnites into despair: fo that they put all to the subdued iffue of a general battle; in which they were defeated and the Rowith fuch dreadful flaughter, that the nation is faid to come mahave been almost exterminated. This overthrow was sters of all foon followed by the submission of the Lucanians, Brut-Ita's. tians, Tarentines, Sarcinates, Picentes, and Salentines; fo that Rome now became mistress of all the nations from the remotest parts of Hetruria to the Ionian fea. and from the Tyrrhenian fea to the Adriatic. All thefe nations, however, did not enjoy the fame privileges, Some were entirely subject to the republic, and had no laws but what they received from thence; others retained their old laws and customs, but in subjection to the republic : fome were tributary; and others allies. who were obliged to furnish troops at their own expence when the Romans required. Some had the prid vilege of Roman citizenship, their foldiers being incorporated in the legions; while others had a right of fur? frage in the elections made by the centuries. These different degrees of honour, privileges, and liberty, were

founded on the different terms granted to the conquered

167 Is utterly defeated by tatus.

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Rome. nations when they furrendered, and were afterwards increafed according to their fidelity and the fervices they

did the republic. Other con-

mans.

The Romans now became respected by foreign naquests made tions, and received ambaffadors from Ptolemy Philadelby the Rophus king of Egypt, and from Apollonia a city of Macedon. Sensible of their own importance, they now granted protection to whatever nation requested it of them; but this not with a view of serving one party, but that they might have an opportunity of subjecting both. In this manner they affifted the Mamertines against Hiero king of Syracuse, which brought on the wars with the Carthaginians, which terminated in the total destruction of that ancient republic, as has been related under the article CARTHAGE. The interval between the first and second Punic wars was by the Romans employed in reducing the Boii and Ligurians, who had revolted. These were Gaulish nations, who had always been very formidable to the Romans, and now gave one of their confuls a notable defeat. However, he foon after fushciently revenged himself, and defeated the enemy with great flaughter; though it was not till fome time after, and with a good deal of difficulty, that they were totally subdued. During this interval also, the Romans feized on the islands of Sardinia, Cortica, and Malta; and in the year 210 B. C. the two former were reduced to the form of a province. Papirius, who had subdued Corfica, demanded a triumph; but not having interest enough to obtain it, he took a method entirely new to do himself justice. He put himself at the head of his victorious army, and marched to the temple of Jupiter Latialis, on the hill of Alba, with all the pomp that attended triumphant victors at Rome. He made no other alteration in the ceremony, but that of wearing a crown of myrtle instead of a crown of laurel, and this on account of his having defeated the Conficans in a place where there was a grove of myrtles. The example of Papirius was afterwards followed by a great many generals to whom the fenate refused triumphs.

Illyricum fubdued.

The next year, when M. Æmilius Barbula and M. Junius Pera were confuls, a new war fprung up in a kingdom out of Italy. Illyricum, properly so called, which bordered upon Macedon and Epirus, was at this time governed by a woman named Teuta, the widow of King Agron, and guardian to her fon Pinœus, who was under age. The fuccess of her late husband against the Ætolians had flushed her to such a degree, that instead of fettling the affairs of her ward in peace, she commanded her fubjects to cruife along the coast, seize all the thips they met, take what places they could, and spare no nation. Her pirates had, pursuant to her orders, taken and plundered many thips belonging to the Roman merchants; and her troops were then belieging the island of Isla in the Adriatic, though the inhabitants had put themselves under the protection of the republic. Upon the complaints therefore of the Italian merchants, and to protect the people of Isla, the fenate fent two ambassadors to the Illyrian queen, Lucius and Caius Coruncanus, to demand of her that the would restrain her subjects from insesting the sea with pirates. She answered them haughtily, that the could only promife that her subjects should not for the future attack 46 but as for any thing more, it is not customary with us (faid she) to lay restraints on our subjects, nor will we Rome. forbid them to reap those advantages from the sea which it offers them." " Your customs then (replied the youngell of the ambaffadors) are very different from ours. At Rome we make public examples of those subjects who injure others, whether at home or abroad. Teuta. we can, by our arms, force you to reform the abuses of your bad government." These unseasonable threatenings provoked Teuta, who was naturally a proud and imperious woman, to fuch a degree, that, without regard to the right of nations, the caused the ambaffadors to be murdered on their return home.

When fo notorious an infraction of the law of nations was known at Rome, the people demanded vengeance; and the fenate having first honoured the manes of the ambastadors, by erecting, as was usual in such cases, statues three feet high to their memory, ordered a fleet to be equipped, and troops raifed, with all pofa nect to be equipped, and thoops laned, with an poli-fible expedition. But now Teuta, reflecting on the enormity of her proceedings, fent an embaffy to Rome, affuring the fenate that she had no hand in the murder of the ambaffadors, and offering to deliver up to the republic those who had committed that barbarous affassination. The Romans being at that time threatened with a war from the Gauls, were ready to accept this fatisfaction : but in the mean time the Illyrian fleet having gained fome advantage over that of the Achæ-ans, and taken the island of Corcyra near Epirus, this fuccess made Teuta believe herself invincible, and forget the promise the had made to the Romans; nav. she fent her fleet to feize on the island of Isla, which the Romans had taken under their protection.

Hereupon the confuls for the new year, P. Posthumius Albinus and Cn. Fulvius Centumalus, embarked for Illyricum; Fulvius having the command of the fleet, which confifted of 100 galleys; and Posthumius of the land forces, which amounted to 20,000 foot, befides a fmall body of horse. Fulvius appeared with his weet before Corcyra in the Adriatic, and was put in poffession both of the island and city by Demetrius of Pharos, governor of the place for Queen Teuta. Nor was this all; Demetrius found means to make the inhabitants of Apollonia drive out the Illyrian garrison, and admit into their city the Roman troops. As Apollonia was one of the keys of Illyricum on the fide of Macedon, the confuls, who had hitherto acted jointly, no fooner faw themselves in possession of it than they feparated, the fleet cruifing along the coast, and the army penetrating into the heart of the queen's dominions. The Andyceans, Parthini, and Atintanes, voluntarily submitted to Posthumius, being induced by the persuasions of Demetrius to shake off the Illyrian yoke. The conful being now in possession of most of the inland towns, returned to the coast, where, with the affiltance of the fleet, he took many ftrongholds, among which was Nutria, a place of great strength, and defended by a numerous garrison; fo that it made a vigorous desence, the Romans having loft before it a great many private men, scveral legionary tribunes, and one quaftor. However, this lofs was repaired by the taking of 40 Illyrian veffels, which were returning home laden with booty. At length the Roman fleet appeared before Isla, which, by Teuta's order, was still closely befieged, notwithstanding the losies she had sustained. However, upon the approach of the Roman fleet, the

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of Infubria

and Ligu-

ria fubdu-

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Illyrians dispersed; but the Pharians, who served among them, followed the example of their country man Demetrius, and joined the Romans, to whom the Islani rea-

dily fubmitted.

In the mean time Sp. Corvilius and O. Fabius Maximus being raifed to the confulate a fecond time. Potthumius was recalled from Illyricum, and refused a triumph for having been too prodigal of the Roman blood at the fiege of Nutria. His colleague Fulvius was appointed to command the land forces in his room, in quality of proconful. Hereupon Tenta, who had founded great hopes on the change of the confuls, retired to one of her strongholds called Rhizon, and from thence early in the fpring fent an embaffy to Rome. The fenate refused to treat with her; but granted the young king a peace upon the following conditions: 1. That he should pay an annual tribute to the republic. 2. That he should surrender part of his dominions to the Romans. 3. That he should never suffer above three of his ships of war at a time to fail beyond Lyslus, a town on the confines of Macedon and Illyricum. The places he yielded to the Romans in virtue of this treaty, were the islands of Corcyra, Isla, and Pharos, the city of Dyrrhachium, and the country of the Atintanes. Soon after Teuta, either out of shame, or compelled by a fecret article of the treaty, abdicated the regency, and Demetrius succeeded her.

Before this war was ended, the Romans were alarmed by new motions of the Gauls, and the great progress which the Carthaginians made in Spain. At this time also the fears of the people were excited by a prophecy faid to be taken out of the Sibylline books, that the Gauls and Greeks should one day be in possession of Rome. This prophecy, however, the fenate found means to elude, as they pretended, by burying two Gauls and two Greeks alive, and then telling the multitude that the Gauls and Greeks were now in the possession of Rome. The difficulties which superstition had raised being thus furmounted, the Romans made valt preparations against the Gauls, whom they feem to have dreaded above all other nations. Some fay that the number of forces raifed by the Romans on this occasion amounted to no fewer than 800,000 men. Of this incredible multitude 248,000 foot and 26,000 horse were Romans or Campanians; nevertheless, the Gauls, with only Hetruria, and took the road towards Rome. Here they had the good fortune at first to defeat one of the Roman armies; but being foon after met by two others, they were utterly defeated, with the lofs of more than 50,000 of their number. The Romans then entered their country, which they cruelly ravaged; but a plague breaking out in their army, obliged them to return home. This was followed by a new war, in which those Gauls who inhabited Insubria and Liguria were province. These conquests were followed by that of Istria; Dimalum, a city of importance in Illyricum; and Pharos, an island in the Adriatic sea.

The fecond Punic war for some time retarded the conquests of the Romans, and even threat ned their state with entire destruction ; but Hongibal being at 1 ft recalled from Italy and entirely defeated at Zama, they made peace up in such advantagious terms as give them long after entirely subverted, as has been related in the Rome. hiftory of CARTHAGE.

The fuccessful iffue of the fecond Punic war had the Ros greatly increased the extent of the Roman empire man empire. They were now masters of all Sicily, the Mediterra-arrives at nean islands, and great part of Spain; and, through its full exthe diffentions of the Afiatic flates with the king of Ma-tent. cedon, a pretence was now found for carrying their arms into these parts. The Gauls in the mean time. however, continued their incurfions, but now ceafed to be formidable; while the kings of Macedon, through misconduct, were first obliged to submit to a disadvantageous peace, and at last totally subdued (see MACE-DON). The reduction of Macedon was foon followed by that of all Greece, either by the name of allies or otherwife: while Antiochus the Great, to whom Hannibal fled for protection, by an unfuccelsful war first gave the Romans a footing in Afia (fee Syria). The Spaniards and Gauls continued to be the most obstinate enemies. The former, particularly, were rather exterminated than reduced; and even this required the utmost care and vigilance of Scipio Æmilianus, the conqueror of Carthage, to execute. See SPAIN and NU-MANTIA.

Thus the Romans attained to a height of power fuperior to any other nation in the world; but now a fedition broke out, which we may fay was never terminated but with the overthrow of the republic. This had its origin from Tiberius Sempronius Gracehus, descen-Sedition of ded from a family which, though plebeian, was as illu-theGracchi. strious as any in the commonwealth. His father had been twice raifed to the confulate, was a great general. and had been honoured with two triumphs. But he was still more renowned for his domestic virtues and probity, than for his birth or valour. He married the daughter of the first Africanus, faid to be the pattern of her fex, and the prodigy of her age; and had by her feveral children, of whom three only arrived at maturity of age, Tiberius Gracchus, Caius Gracchus, and a daughter named Sempronia, who was married to the fecond Africanus. Tiberius, the eldest, was deemed the most accomplished youth in Rome, with respect to the qualities both of body and mind. His extraordinary talents were heightened by a noble air, an engaging countenance, and all those winning graces of nature which recommend merit. He made his first campaigns under his brother-in-law, and distinguished himself on all occasions by his courage, and by the prudence of his conduct. When he returned to Rome, he applied himfelf to the Hudy of eloquence; and at 30 years old was accounted the best orator of his age. He married the daughter of Appius Claudius, who had been formerly conful and cenfor, and was then prince of the fenate. He continued for some time in the sentiments both of his own and his wife's family, and supported the interests of the patricians; but without openly attacking the popular faction. He was the chief author and negociator of that flameful necessary peace with the Numantines; which the fenate, with the utmost injustice, disannulled, and condemned the conful, the quæflor, and all the officers who had figned it, to be delivered up to the Numantines (fee NUMANTIA). The people, indeed, out of effeem for Gracelius, would not fuffer him to be facrificed : but, however, he had just reason to complain, both of the senate and people,

Rome. for passing so scandalous a decree against his general and himfelf, and breaking a treaty whereby the lives of fo many citizens had been faved. But as the fenate had chiefly promoted fuch base and iniquitous proceedings, he resolved in due time to show his resentment against the party which had contributed most to his dif-

In order to this, he flood for the tribuneship of the people; which he no fooner obtained, than he refolved to attack the nobility in the most tender part. They had usurped lands unjustly; cultivated them by flaves, to the great detriment of the public; and had lived for about 250 years in open defiance to the Licinian law, by which it was enacted that no citizen should possess more than 500 acres. This law Tib. Gracchus refolved to revive, and by that means revenge himself on the patricians. But it was not revenge alone which prompted him to embark in fo dangerous an attempt. It is pretended, that his mother Cornelia animated him to undertake fomething worthy both of his and her family. The reproaches of his mother, the authority of fome great men, namely of his father-in-law Appius Claudius, of P. Crassus the pontifex maximus, and of Mutius Scævola, the most learned civilian in Rome, and his natural thirst after glory, joined with an eager defire of revenge, conspired to draw him into this most unfortunate scheme.

A new law Gracchus.

The law, as he first drew it up, was very mild : for proposed by it only enacted, that those who possessed more than 500 acres of land should part with the overplus; and that the full value of the faid lands thould be paid them out of the public treasury. The lands thus purchased by the public were to be divided among the poor citizens; and cultivated either by themselves or by freemen, who were upon the fpot. Tiberius allowed every child of a family to hold 250 acres in his own name, over and above what was allowed to the father. Nothing could be more mild than this new law; fince by the Licinian he might have absolutely deprived the rich of the lands they unjustly possessed, and made them accountable for the profits they had received from them during their long possession. But the rich patricians could not fo much as bear the name of the Licinian law, though thus qualified. Those chiefly of the senatorial and equestrian order exclaimed against it, and were continually mounting the rottra one after another, in order to diffuade the people from accepting a law, which, they faid, would raise disturbances, that might prove more dangerous than the evils which Tiberius pretended to redrefs by the promulgation of it. Thus the zealous tribune was obliged day after day to enter the lifts with fresh adversaries; but he ever got the better of them both in point of eloquence and argument.

The people were charmed to hear bim maintain the cause of the unfortunate with so much success, and befte sed on him the highest commendations. The rich therefore had recourse to violence and calumny, in order to destroy, or at least to discredit, the tribune. It is faid they hired affaffins to difpatch him; but they could not put their wicked defign in execution, Gracchus being always attended to and from the roftra by a lard of about 4000 men. His adversaries therefore endeavoured to ruin his reputation by the blackest calumnies. They gave out that he aimed at monarchy; and published presended plots laid for crowning him king. But the people, without giving ear to such Rome. groundless reports, made it their whole business to encourage their tribune, who was hazarding both his life

and reputation for their fakes.

When the day came on which this law was to be accepted or rejected by the people affembled in the co-mitium, Gracchus began with haranguing the nighty crowd which an affair of fuch importance had brought together both from the city and country. In his speech he showed the justice of the law with so much eloquence, made fo moving a description of the miseries of the meaner fort of people, and at the same time fet forth in fuch odious colours the usurpation of the public lands, and the immense riches which the avarice and rapaciousness of the great had raked together, that the people, transported with sury, demanded with loud cries the billets, that they might give their fuffrages. Then Gracchus, finding the minds of the citizens in that warmth and emotion which was neceffary for the fuccess of his design, ordered the law to be read.

But unluckily one of the tribunes, by name Marcus Opposed by Octavius Cacina, who had always professed a great the tribuna friendship for Gracchus, having been gained over by the patricians, declared against the proceedings of his friend and colleague; and pronounced the word which had been always awful in the mouth of a tribune of the people, Veto, " I forbid it." As Octavius was a man of an unblameable character, and had hitherto been very zealcus for the publication of the law, Gracchus was greatly furprifed at this unexpected opposition from his friend. However, he kept his temper, and only defired the people to affemble again the next day to hear their two tribunes, one in defence of, the other in opposition to, the law proposed. The people met at the time appointed; when Graechus addressing himself to his colleague, conjured him by the mutual duties of their function, and by the bonds of their ancient friendthip, not to oppose the good of the people, whom they were bound in honour to protect against the usurpation of the great : nay, taking his colleague afide, he addreffed him thus, " Perhaps you are personally concerned to oppose this law; if so, I mean, if you have more than the five hundred acres, I myfelf, poor as I am, en-

Gracchus therefore had recourfe to another expedient; which was to fuspend all the magistrates in Rome from the execution of their offices. It was lawful for any tribune to take this step, when the passing of the law which he proposed was prevented by mere chicanery. After this, he affembled the people anew, and made a fecond attempt to fucceed in his defign. When all things were got ready for collecting the fuffrages, the rich privately conveyed away the urns in which the tablets were kept. This kindled the tribune's indignation, and the rage of the people. The comitium was like to become a field of battle, when two venerable fenators. Manlius and Fulvius, very feafonably interpoled; and throwing themselves at the tribune's feet, prevailed upon him to submit his law to the judgment of the confcript fathers. This was making the fenators judges in their own cause: but Greechus thought the law so un-

gage to pay you in money what you will lofe in land."

But Octavius, either out of shame, or from a principle

of honour, continued immoveable in the party he had

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leniably jon, that he could not personale boundf that they would specifit; and if they dol, he know that the incented mulittude would no lot per keep any measures

with them.

The fenate, who wanted nothing but to gain time, affected delays, and came to no refolution. There were indeed former among them, who, out of a principle of equity, were for paying some regard to the complaints of the tribune, and for facrificing their own interest to the relief of the diffrested. But the far greater part would not hear of any composition whatsoever. Hereunon Gracehus brought the affair anew before the people, and corneftly intreated his colleague Octavius to drop his oppolicion, in compation to the many unfortunate people for whom he interceded. He put him in mind of their ancient friendship, took him by the hand, and affectionately embraced him. But ftill Octavius was indexible. Hereupon Gracchus resolved to deprive Ostavius of his tribuneship, fince he alone obstinately withstood the defires of the whole body of fo great a people. Having therefore affembled the people, he told them, that fince his colleague and he were divided in opinion, and the republic fuffered by their division, it was the province of the tribes atlembled in comitia to re-establish concord among their tribunes. " If the cause I maintain (faid he) be, in your opinion, unjust, I am ready to give up my feat in the college. On the contrary, if you judge me worthy of being continued in your fervice in this station, deprive him of the tribuneship who alone obstructs my withes. As foon as you shall have nominated one to succeed him, the law will pass without opposition." Having thus spoken, he dismissed the affembly, after having fummoned them to meet again

And now Gracchus, being foured with the opposition collague, and being well apprifed that the law would pole it, refolved to revive it as it was at first passed, without abating any thing of its feverity. There was 110 exception in favour of the children in families; or r imburfement promifed to those who thould part with the lands they poffelf d above 5000 acres. The next day traor nary occasion, Gracelius made fresh applications to Octavius, but to no purpole; he oblimately perfilted "Judge you, (fild he, whi h of us deserves to be de-prived of his office." At these words the first tribe voted, and declared for the depolition of Octavius. Upon which Gracehus, furpending the ardour of the tribes, male another effort to bring over his opponent by gentle methods. But all his endeavours proving inch. tal, the other tribes went on to vote in their turns, and followed the example of the first. Of 35 tribes, 17 had a ready declared against Octavius, and the 18th was just going to determine the affair, when Granchus, bling willing to try once more whether he could reclim his colleague, fulpended the collecting of the fuffrages; and addresting Offavius in the most pressing terms, conjured him not to expere himfelf, by his obitinacy, to fo great a difgrace, nor to give him the grief of hiving call a blemili upon his colleague and friend, which neither time nor merit would ever wipe off. Octavia, how-

even, continuing obilinate, was deposed, and the law

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possed as Gran love h.d proposed it the last time. Rome The depoted to the was dragged from the roomaly the incenfed multitude, who would have infulled him further, had not the tenators and his friends facilitated

The Licinian law being thus revived with one confent both by the city and country tribes, Gracehus caused the people to appoint triumvirs, or three commissioners, to tailen its execution. In this committee the people gave Gracchus the first place; and he said interest enough to get his father-in-law Appius Claudius, and his brother Caius Gracehus, as pointed his colleagues. These three frent the whole funmer in travelling through all the Italian provinces, to examine what lands were held by any perion above 500 acres, in order to divide them among the poor citizens. When Gracchus returned from his progrefs, he found, by the death of his chief agent, the his allience had not abated either the hatred of the rich, or the love of the poor. toward him. As it plainly appeared that the deceafed had been poisoned, the tribune took this occasion to apply himself again to his protectors, and implore their affillance against the violence and treachery of his enemies. The populace, more attached after this accident to their hero than ever, declared they would fland by him to the last drop of their blood; and thus their zeal that the commissioners should likewife inquire what lands had been usurped from the republic. Il is was touching the fenators in a most tender point; for most to the republic. After all, the tri une, upon a frick inquiry, found that the lands taken from the rich would not be enough to content all the poor citizens. But the following accident eafed him of this difficulty, and enabled him to frop the murmurs of the malcontents among the people.

Attalus Philometer, king of Pergamus, having be-The treaqueathed his dominions and effects to the Romans. Eu-fares of Ardemus the Pergamean brought his treasures to Rome talus diat this time; and Gracchus immediately got a new law mong the paffed, enacting, that this money should be divided people by among the poor citizens who could not have lands; Grac has and that the difpofal of the revenues of Pergamus should not be in the fenate, but in the comitie. By these steps Gracchus most effectually humbled the fenate; who, in order to diferedit him among the people, gave out that Eud mes, who had brought the Alig's will to Rome, had left with Gra chus the royal dis lein and mantle of Attalus, which the law-making tribune was to use when he fliould be proclaimed kin, of R me. But thefe reports only ferved to put Grac l, s more upon his guard, and to inspire the people with authors of them. Gracehus being now, by his preer over the minds of the multitude, absolute master of their Appins Claudius to the confulate next year, of promoting his brother Caius to the tribuneflip, and getting hirsfelf continued in the same office. The aft was what most nearly concerned him; his person, as long as he was in office, being facred and inviolable As the fenate was very aftive in endeavouring to ge, such only elected into the college of tribunes as were enemies to Gracehus and his faction, the tribune left no ftone

who is depoled, and the law paffed.

unturned

Rome. unturned to fecure his election. He told the people, that the rich had refolved to affaffinate him as foon as he was out of his office; he appeared in mourning, as was the custom in the greatest calamities; and bringing his children, yet young, into the forum, recommended them to the people in fuch terms, as thowed that he despaired of his own preservation. At this fight the populace returned no answer, but by outcries and me-

naces against the rich. When the day appointed for the election of new tribunes came, the people were ordered to affemble in the capitol in the great court before the temple of Ju-piter. The tribes being met, Gracchus produced his petition, intreating the people to continue him one year longer in the office of tribune, in confideration of the great danger to which he was exposed, the rich having vowed his destruction as soon as his person should be no more facred. This was indeed an unufual request, it having been long customary not to continue any tribune in his office above a year. However, the tribes began to vote, and the two first declared for Gracchus. Hereupon the rich made great clamours; which terrified Rubrius Varro, who prefided in the college of tribunes that day, to such a degree, that he refigned his place to Q. Mummius, who offered to prefide in his room. But this raised a tumult among the tribunes themselves; so that Gracchus wisely dismissed the assembly, and ordered them to meet again the next day.

In the mean time the people, being fensible of what

importance it was to them to preserve the life of so powerful a protector, not only conducted him home. but watched by turns all night at his door. Next morning by break of day, Gracchus having affembled his friends, led them from his house, and posted one half of them in the comitium, while he went up himself with the other to the capitol. As soon as he appeared, the people faluted him with loud acclamations of joy. But scarcely was he placed in his tribunal, when Fulvius Flaccus a senator, and friend to Gracchus, breaking through the crowd, came up to him, and gave him notice, that the fenators, who were affembled in the temple of Faith, which almost touched that of Jupiter Capitolinus, had conspired against his

life, and were refolved to attack him openly on his very tribunal. Hereupon Gracchus tucked up his racy against robe, as it were, to prepare for a battle; and, after his life. his example, some of his party seizing the staves of the apparitors, prepared to defend themselves, and to repel force by force. These preparations terrified the other tribunes; who immediately abandoned their places in a cowardly manner, and mixed with the crowd; while the priests ran to shut the gates of the temple, for fear of its being profaned. On the other hand, the friends of Gracchus, who were dispersed by parties in different places, cried out, IVe are ready: What must we do? Gracchus, whose voice could not be heard by all his adherents on account of the tumult, the clamours, and the confused cries of the difterent parties, put his hand to his head; which was the fignal agreed on to prepare for battle. But fome of his enemies, putting a malicious confiruction upon that geflure, immediately flew to the fenate, and told the fathers, that the seditious tribune had called for the crown to be put upon his head. Hereupon the fenators, fancying they already faw the king of Pergamus's diadem on the tribune's head, and the royal Rome. mantle on his shoulders, resolved to give the conful leave to arm his legions, treat the friends of Gracchus as enemies, and turn the comitium into a field of battle.

But the conful Mutius Scavola, who was a prudent and moderate man, refused to be the instrument of their rash revenge, and to dishonour his consulate with the maffacre of a difarmed people. As Calpurnius Pifo, the other conful, was then in Sicily, the most turbulent among the fenators cried out, " Since one of our confuls is abfent, and the other betrays the republic, let us do ourselves justice; let us immediately go and demolish with our own hands this idol of the people." Scipio Nafica, who had been all along for violent measures, inveighed bitterly against the conful for refusing to succour the republic in her greatest distress. Scipio Nasica was the great-grandfon of Cneius Scipio, the uncle of the first Africanus, and confequently coufin to the Gracchi by their mother Cornelia. But nevertheless not one of the senators betrayed a more irreconcileable hatred against the tribune than he. When the prudent conful refused to arm his legions, and put the adherents of Gracchus to death contrary to the usual forms of justice, he set no bounds to his fury, but, rifing up from his place, cried out like a madman, " Since our conful betrays us, let those who love the republic follow me." Having uttered thefe words, he immediately walked out of the temple, attended by a great number of fenators.

Nafica threw his robe over his shoulders, and having A scuffle covered his head with it, advanced with his followers enfues, in into the crowd, where he was joined by a company of which the clients and friends of the patricians, armed with is killed. staves and clubs. These, falling indifferently upon all who flood in their way, dispersed the crowd. Many of Gracchus's party took to their heels; and in that tumult all the feats being overturned and broken, Nafica, armed with the leg of a broken bench, knocked down all who opposed him, and at length reached Gracchus.

One of his party feized the tribune by the lappet of his robe: but he, quitting his gown, fled in his tunic; and as he was in that confusion, which is inseparable from fear, leaping over the broken benches, he had the misfortune to flip and fall. As he was getting up again, he received a blow on the head, which flunned him: then his adverfaries rushing in upon him, with repeated

blows put an end to his life.

Rome was by his death delivered, according to Cicero, from a domestic enemy, who was more formidable to her than even that Numantia, which had first kindled his refentments. Perhaps no man was ever born with greater talents, or more capable of aggrandizing himfelf, and doing honour to his country. But his great mind, his manly courage, his lively, eafy, and powerful eloquence, were, fays Cicero, like a fword in the hands of a madman. Gracchus abused them, not in supporting an unjust cause, but in conducting a good one with too much violence. He went fo far as to make fome believe that he had really fomething in view besides the interest of the people whom he pretended to relieve; and therefore some historians have represented him as a tyrant. But the most judicious writers clear him from this imputation, and ascribe his first design of reviving the Licinian law to an eager defire of being re-

179 A conipivenged on the fenators for the affront they had very unjustly put upon him, and the consul Mancinus, as we have hinted above. The law he attempted to revive had an air of justice, which gave a fanction to his re-

venge, without casting any blemish on his reputation. The death of Gracchus did not put an end to the tu-His friends

maffacred. mult. Above 300 of the tribune's friends loft their lives in the affray; and their bodies were thrown, with that of Gracchus, into the Tiber. Nay, the fenate carried their revenge beyond the fatal day which had stained the Capitol with Roman blood. They fought for all the friends of the late tribune, and without any form of law affaffinated fome, and forced others into banishment. Caius Billius, one of the most zealous defenders of the people, was feized by his enemies, and thut up in a cask with fnakes and vipers, where he miferably perished. Though the laws prohibited any citizen to take away the life of another before he had been legally condemned, Nasica and his followers were acquitted by the fenate, who enacted a decree, justifying all the cruelties committed against Gracchus and

182 The difturbances increase.

his adherents. These disturbances were for a short time interrupted by a revolt of the flaves in Sicily, occasioned by the cruelty of their mafters; but they being foon reduced, the contests about the Sempronian law, as it was called, again took place. Both parties were determined not to yield; and therefore the most fatal effects ensued. The first thing of consequence was the death of Scipio Africanus the Second, who was privately strangled in his bed by some of the partisans of the plebeian party, about 129 B. C. Caius Gracchus, brother to him who had been formerly killed, not only undertook the revival of the Sempronian law, but proposed a new one, granting the rights of Roman citizens to all the Italian allies, who could receive no share of the lands divided in confequence of the Sempronian law. The confequences of this were much worse than the former; the flame fpread through all Italy; and the nations who had made war with the republic in its infancy again commenced enemies more formidable than before. Fregellæ, a city of the Volsci, revolted: but being suddenly attacked, was obliged to fubmit, and was rafed to the ground; which quieted matters for the present. Gracehus, however, still continued his attempts to humble the senate and the rest of the patrician body: the ultimate confequence of which was, that a price was let on his head, and that of Fulvius his confederate, no less than their weight in gold, to any one who should bring them

The custom to Opimius the chief of the patrician party. Thus the of proferip- custom of profeription was begun by the patricians, of tion begun which they themselves soon had enough. Gracchus and Fulvius were facrificed, but the diforders of the re-

public were not fo eafily cured.

The inundation of the Cimbri and Teutones put a ftop to the civil discords for some time longer; but they being defeated, as related under the article CIM-BRI and TEUTONES, nothing prevented the troubles from being revived with greater fury than before, except the war with the Sicilian flaves, which had again commenced with more dangerous circumstances than ever. But this war being totally ended about 99 B. C. no farther obstacle remained. Marius, the conqueror of Jugurtha " and the Cimbri, undertook the cause of the plebeians against the senate and patricians. Having affociated himfelf with Apuleius and Glaucia, two Rome. factious men, they carried their proceedings to fuch a length, that an open rebellion commenced, and Marius himfelf was obliged to act against his allies. Peace, however, was for the present restored by the massacre of Apuleius and Glaucia, with a great number of their followers; upon which Marius thought proper to leave

the city. While factious men thus endeavoured to tear the republic in pieces, the attempts of well-meaning people to heal those divisions served only to involve the state in calamities still more grievous. The confuls observed. that many individuals of the Italian allies lived at Rome, and falfely pretended to be Roman citizens. By means of them, it was likewise perceived, that the plebeian party had acquired a great deal of its power; as the votes of these pretended citizens were always at the fervice of the tribunes. The confuls therefore got a law paffed, commanding all those pretended citizens to return home. This was fo much refented by the Italian states, that an universal defection took place. A scheme was then formed by M. Livius Drusus, a tribune of the people, to reconcile all orders of men; but this only made matters worfe, and procured his own affassination. His death seemed a signal for war. The The focual Marfi, Peligni, Samnites, Campanians, and Lucanians, war. and in thort all the provinces from the river Liris to the Adriatic, revolted at once, and formed themselves into a republic, in opposition to that of Rome. The haughty Romans were now made thoroughly fensible that they were not invincible: they were defeated in almost every engagement; and must soon have yielded, had they not fallen upon a method of dividing their enemies. A law was passed, enacting, that all the nations in Italy, whose alliance with Rome was indifputable, should enjoy the right of Roman citizens. This drew off feveral nations from the alliance; and at the fame time, Sylla taking upon him the command of the Roman armies, fortune foon declared in favour of the latter.

The fuccess of Rome against the allies served only to bring greater miferies upon herfelf. Marius and Sylla became rivals; the former adhering to the people, and the latter to the patricians. Marius affociated with one of the tribunes named Sulpitius; in conjunction with whom he raifed fuch diffurbances, that Sylla was forced to retire from the city. Having thus driven off his rival, Marius got himself appointed general against Mithridates king of Pontus; but the foldiers refused See Porto obey any other than Sylla. A civil war immediately enfued, in which Marius was driven out in his turn, and a price fet upon his head and that of Sulpitius, with many of their adherents. Sulpitius was foon feized and killed; but Marius made his escape. In the mean time, however, the cruelties of Sylla rendered him obnoxious both to the fenate and people; and Cinna, a furious partifan of the Marian faction, being chofen conful, cited him to give an account of his conduct. Upon this Sylla thought proper to let out for Alia: Marius was recalled from Africa, whither he had fled : and immediately on his landing in Italy, was joined by a great number of thepherds, flaves, and men of desperate fortunes; fo that he foon faw himfelf at the head of a confiderable army.

Cinna, in the mean time, whom the fenators had de-X 2

Rome, posed and driven out of Rome, folicited and obtained a powerful army from the allies; and being joined by Sertorius, a most able and experienced general, the two, in conjunction with Marius, advanced towards the capital; and as their forces daily increased, a fourth by Cora, army was formed under the cummand of Papirius Cur-Marus, &. bo. The fenate railed fome forces to defend the cay; but the troops being vallly infector in number, a d likewife inclined to the contrary fide, they were obliged to open their gates to the contederates. Marius entered at the head of a numerous guard, composed of Bives, whom he called his Bardiwans, and whom he defigned to employ in acvenging himself on his enemies. The first order he gave these affordins was, to murder all wno came to fainte him, and were not anfivered with the like civility. As every one was forward to pay his compliments to the new tyrant, this order proved the deltrustion of valt numbers. At last these Bardiceans abandoned themselves to luch excesses in every kind of vice, that Cinna and Sertorius ordered their troops to fall upon them; which being intrantly put in execution, they were all cut off to a man.

By the destruction of his guards, Marius was reduced to the necessity of taking a method of gratifying his revenge fomewhat more tedious, though equaly effectual, A conference was held between the four chiefs, in which Marius feemed quite frantie with rage. Sertorius endeavoured to moder ite his fury ; but, being to murder without mercy all the fenators who had opposed the popular faction. This was immediately put in execution. A general flughter commenced, which lafted five days, and during which the greatest part of the conoxicus fenators were cut off, their heads fluck upon poles over-against the rostra, and their bodies dragged with hooks into the forum, where they were left to be devoured by dogs. Sylla's house was demolished, bis goods confiscated, and he himself declared an enemy to his country: however, his wife and children had the good fortune to make their escape .-This maffacre was not confined to the city of Rome. The foldiers, like as many blood-hounds, were difperfed over the country in fearch of those who fled. The neighbouring towns, villages, and all the highways, Iwarmed with afforfins; and on this occasion Plutarch observes with great concern, that the most facred ties of friendship and hospitality are not proof against treachery, in the day of advertity, for there were but very few who did not discover their friends who had fled to

them for shelter. This flaughter being over, Cinna named himfelf and Marius confuls for the enfuing year; and these tyrants feemed refulved to begin the new year as they had ended the old one : but, while they were preparing to renew their cruelties, Sylla, having proved victorious in the east, fent a long letter to the senate, giving an account of his many victories, and his refolution of returning to Rome, not to restore peace to his country, but to revenge himfelf of his enemies, i. e. to destroy those whom Marius had spared. This letter occasioned an univerfal terror. Marius, dreading to enter the litts with fuch a renowned warrior, gave himfelf up to exceffive drinking, and di d. His fon was affociated with Cinna in the government, though not in the confulfhip, and proved a tyrant no less cruel than his father. The

finate declared one Valerius Flaccus general of the for, Rome. ces in the east, and appointed him a confiderable army; but the troops all to a man deferted him, and joined Sylla. Soon after, Cinna declared himself conful a third time, and took for his colleague Papirius Carbo; but the citizens, dreading the tyranny of thete inhuman moniters, fled in crowds to Sylla, who was now in Greece. To him the fenate fent deputies, begging that he would have compathon on his country, and not carry his retentment to fuch a length as to begin a civil war: but he replied, that he was coming to Rome full of rage and revenge; and that all his enemies, if the Roman people contented to it, should perish either by the tword or the axes of the executioners. Upon this feveral very numerous armies were formed against him; but, through the misconduct of the generals who commanded them, thele armies were everywhere de, feated, or went over to the enemy. Pompey, after, wards fivled the Great, figualized himself in this war, and embraced the party of Sylla. The Italian nations took fome one fide and fome another, as their different inclinations led them. Cinna, in the mean time, was killed in a tuniult, and young Marius and Carbo fucceeded him; but the former baving ventured an engagement with Sylla, was by him deteated, and forced to fly

to Pranefie, where he was closely befieged. Thus was Rome reduced to the lowest degree of Rome in milery, when one Pontius Telefinus, a Samnite of great the atmost experience in war, projected the total ruin of the city tram Tele-He had joined, or pretended to join, the generals of the the Marian faction with an army of 40,000 men; and Samute. to relieve Marius. By this means he drew Sylla and Pompey away from the capital; and then, decamping in the night, overreached these two generals, and by break of day was within 10 furlongs of the Collatine gate. He then pulled off the mask; and declaring himfelf as much an enemy to Marius as to Sylla, told his troops, that it was not his defign to affait one Roman against another, but to destroy the whole race. " Let fire and fword (faid he) destroy all; let no quarter be given; mankind can never be free as long as one Roman is left alive."- Never had this proud metropolis been in greater danger; nor ever had any city a more narrow escape. The Roman youth marched out to oppose him, but were driven back with great flaughter. Sylla himself was deleated, and forced to fly to his camp. Telefinus advanced with more fury than ever ; but, in the mean time, the other wing of his army having been defeated by M. Crassus, the victorious general attacked the body where Telefinus commanded, and by putting them to flight, faved his country from the

most imminent danger. Sylla, having now no enemy, to fear, marched first Monstrons to Atemnæ, and thence to Rome. From the former crucky of city he carried 8000 priloners to Rome, and cauled Syila. them all to be maffacred at once in the circus. His cruelty next fell upon the Præncstines, 12,000 of whom were maffacred without mercy. Young Marius had killed himfelf, in order to avoid falling into the hands of fuch a cruel enemy. Soon after, the inhabitants of Norba, a city of Campania, finding themselves unable to reful the forces of the tyrant, let fire to their boules, and all perished in the fluxes. The taking of these cities put an end to the civil war, but not to the cruel.

185 Svila threavenge.

Rome.

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miclator.

ties of Sylla. Having affembled the people in the comitium, he told them, that he was refolved not to fipare a fingle perfor who had borne arms signification. This eruel refolution he put in execution with the most unrelensing risport; and having at Lift cut off all thole whom he thought capable of opposing him, Sylla cased himself to be declared perpetual dictator, or, in other words himself and thought consistent Research.

words, king and absolute fover ign of Rome.

He is proclaimed this time we may dute the loss of the Roman liberty.

Sylla indeed refigned his power in two years; but the citizens of Rome having once fabinitely, were ever after more inclined to fabinit to a miller. Through individuals retained he fame enthuff-tile notions of liberty as before, yet the minds of the generalité feem

from this time to have inclined towards monarchy. New matters were indeed already prepared for the republic, Caetar and Poimpey had eminently diltinguished themfelves by their marriad exploits, and were alreally rivals. They were, however, for fome time prevented from raining any disturbances by being kept at a distance from each other. See brins, one of the generals of the Marian faction, and the only one of them possessed either

rian faction, and the only one of them polletied either of honour or probing, had retired into Spain, where he erected a republic independent of Rome. Pompey and Metellus, two of the best reputed generals in Rome,

were fent againft him; but initead of conquering, they were on all occasions conquered by him, and obliged to abandon their enterprife with difgrace. At lat Sectotius was treacherously murdered; and the traitors, who

rius was treacheroufly murdered; and the traitors, who after his death ulurped the command, being totally deflitute of his abilities, were eafily defeated by Pompey:

flitute of his abilities, were eafily defeated by Pompey: and thus that general reaped an undeferved honour from concluding the war with fucces,

The Spanish war was fearce ended, when a very dangerous one was excited by Spartacus, a Thracian gladiator. For some time this rebel proved very successful; but at last was totally defeated and killed by Crass. The fugitives, however, ralled again, to the number of 5000; but, being totally defeated by Pompey, the latter took occasion from thence to claim the glory which was justiful due to Crassus. Being thus

ambition, he was cholen conful along with Craffus. Both generals were at the head of powerful armies; and a conteft between them immediately began about who should first lay down their arms. With difficulty they were in appearance reconciled, and immediately began to oppose one another in a new way. Pompey

become extremely popular, and fetting no bounds to his

courted the favour of the people, by reinstating the tribunes in their ancient power, which had been greatly abridged by Sylla. Craffus, though naturally covetous, entertained the populace with furprising profusion at 10,000 tables, and at the same time distributed corn

recootables, and at the fame time diftributed corn fufficient to maintain their families for three months—
Thee prodigious expences will feem lefs fuprifing, when we confider that Craffus was the richeft man in

Rome, and that his effate amounted to upwards of 7000 talents, i. e. 1,356.2501. flerling. Notwithlanding his utmoit efforts, however, Domey fill had the fuperiority; and was therefore proposed as a proper person to be employed for clearing the sea of prizets. In this

ty; and was therefore proposed as a proper person to be employed for clearing the seas of pirates. In this new flation a most extensive power was to be granted to bim. He was to have an absolute authority for hiree years over all the seas within the flatis or Pillas of

Hercules, and over all the countries for the space of Rome. 400 furlongs from the fea. He was empowered to raife as may foldiers and mariners as he thought proper; to take what fums of morey he pleafed out of the public treafury without being accountable for them; and to choose out of the fenate fitteen fenators to be his li-utenants, and to execute his orders when he himfelf could not be prefent. The fensible part of the people were against inveiting one ma with to much power; but the unthinking multitude rendered all opposition fruitless. The tribune R feius attemp ed to speak against it, but was prevented by the clamours of the people. He then' held up two of his fingers, to thow that he was for di viding that extensive commission between two persons : but on this the affembly burth out into fuch bideous out cries, that a crow flying accidentally over the comitium. was stanned with the noise, and fell down among the rabble. This law being agreed to, Pompey executed his commission fo much to the public fatisfaction, that on his return a new law was propoled in his favour. By this he was to be appointed general of all the forces in Asia; and as he was tlill to retain the forceignty of the feas, he was now in fact made fovereign of all the Roman empire .- This law was supported by Cicero and Cætar, the former afpiring at the confulate, and the latter pleafed to fee the Romans to readily appointing themfelves a master. Pompey, however, executed his commission with the utmost fidelity and success, completing the conquest of Pontus, Albania, Iberia, &c.

But while Pompey was thus aggrandifing himfelf, Conforacy the republic was on the point of being fubverted by a of Catiline, conspiracy formed by Lucius Sergius Catiline. He was descended from an illustrious family; but having quite ruined his estate, and rendered himself infamous by a feries of the most detestable crimes, he affociated with a number of others in circumstances fimilar to his own. in order to repair their broken fortunes by ruining their country. Their scheme was to murder the confuls together with the greatest part of the fenators, fet fire to the city in different places, and then feize the government. This wicked defign milicarried twice: but was not on that account dropped by the confpirators. Their party increased every day; and both Cæsar and Craffus, who fince the departure of Pompey had studied to gain the affections of the people as far as possible, were thought to have been privy to the conspiracy. At last, however, the matter was discovered by means of a young knight, who had indifferently revealed the fecret to his paramour. Catiline then openly took the field, and foon raifed a confiderable army: but was utterly defeated and killed about 62 B. C.; and thus the republic

which had been fuccelsfully begun by Sylla and Lu-

was freed from the prefent danger.

In the mean time, Ceefar continued to advance in popularity and in power. Soon after the defeat of Catiliue, he was created pontifex maximus; and after that was fent into Spain, where he fuidted feveral nations that had never before been fubject to Rome.—While he was thus employed, his rival Pompey returned from the eaft, and was received with the highest honours; buttough till as ambitious are ever, he now affected extraordinary modely, and declined accepting of the applante which was offered him. His sim was to affune a fovereign authority without feenings to define it; buts

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Pompey and Cratius affume great authori.y. Rome. he was foon convinced, that, if he defired to reign over his fellow-citizens, it must be by force of arms. He therefore renewed his intrigues, and spared no pains, however mean and fcandalous, to increase his popularity. Cæfar, on his return from Spain, found the fovereignty divided between Craffus and Pompey, each of whom was ineffectually struggling to get the better of the other. Cæsar, no less ambitious than the other two, proposed that they should put an end to their differences, and take him for a partner in their power. In fhort, he projected a triumvirate, or affociation of three perfons, (Pompey, Craffus, and himfelf), in which should be lodged the whole power of the fenate and people; and, in order to make their confederacy more lafting, they bound themselves by mutual oaths and promises to stand by each other, and fuffer nothing to be undertaken or carried into execution without the unanimous confent

> of all the three. Thus was the liberty of the Romans taken away a fecond time, nor did they ever afterwards recover it; though at prefent none perceived that this was the cafe, except Cato. The affociation of the triumvirs was for a long time kept fecret; and nothing appeared to the people except the reconciliation of Pompey and Craffus, for which the state reckoned itself indebted to Caefar. The first consequence of the triumvirate was the consulthip of Julius Cæfar. But though this was obtained by the favour of Pompey and Craffus, he found himself difappointed in the colleague he wanted to affociate with him in that office. He had pitched upon one whom he knew he could manage as he pleased, and distributed large fums among the people in order to engage them to vote for him. The fenate, however, and even Cato himself, resolved to defeat the triumvir at his own weapons; and having therefore fet up another candidate, distributed such immense sums on the opposite side, that Caefar, notwithstanding the vast riches he had acquired, was forced to yield. This defeat proved of small confequence. Cafar fet himfelf to engage the affections of the people; and this he did, by an agrarian law, fo effectually, that he was in a manner idolized. The law was in itself very reasonable and just; nevertheless, the fenate, perceiving the defign with which it was propofed, thought themselves bound to oppose it. Their opposition, however, proved fruitless: the conful Bibulus. who shewed himself most active in his endeavours against it, was driven out of the affembly with the greatest indignity, and from that day became of no confideration; fo that Cæfar was reckoned the fole conful.

> The next step taken by Cæsar was to secure the knights, as he had already done the people; and for this purpose he abated a third of the rents which they annually paid into the treasury; after which he governed Rome with an absolute sway during the time of his confulate. The reign of this triumvir, however, was ended by his expedition into Gaul, where his military exploits acquired him the highest reputation .-Pompey and Crassus in the mean time became consuls, and governed as despotically as Cæsar himself had done. On the expiration of their first consulate, the republic fell into a kind of anarchy, entirely owing to the diforders occasioned by the two late confuls. At last, however, this confusion was ended by raising Crassus and Pompey to the consulate a fecond time. This was no fooner done, that a new partition of the empire was

proposed. Craffus was to have Syria and all the eastern Rome. provinces, Pompey was to govern Africa and Spain, and Cæfar to be continued in Gaul, and all this for the fpace of five years. This law was paffed by a great majority; upon which Craffus undertook an expedition against the Parthians, whom he imagined he should eafily overcome, and then enrich himself with their spoils; Cæsar applied with great assiduity to the completing of the conquest of Gaul; and Pompey having nothing to do in his province, flaid at Rome to govern the republic

The affairs of the Romans were now haftening to a

crifis. Craffus, having oppreffed all the provinces of the caft, was totally defeated and killed by the Par-

thians ; after which the two great rivals Cæfar and \* See Para Pompey were left alone, without any third person who thia. could hold the balance between them, or prevent the Rivalihip deadly quarrels which were about to enfue. Matters, of Casar however, continued pretty quiet till Gaul was reduced and Pom-to a Roman province +. The question then was, whe-peyther Cæsar or Pompey should first resign the command † See Garl. of their armies, and return to the rank of private perfons. As both parties faw, that whoever first laid down his arms must of course submit to the other, both refufed to difarm themselves. As Cæsar, however, had amaffed immense riches in Gaul, he was now in a condition not only to maintain an army capable of vying with Pompey, but even to buy over the leading men in Rome to his interest. One of the confuls, named Æmilius Paulus, cost him no less than 1 500 talents, or 310,6251. sterling; but the other, named Marcellus, could not be gained at any price. Pompey had put at the head of the tribunes one Scribonius Curio, a young patrician of great abilities, but fo exceedingly debauched and extravagant, that he owed upwards of four millions and a half of our money. Crefar, by enabling him to fatisfy his creditors, and fupplying him with money to purfue his debaucheries, secured him in his interest; and Curio, without feeming to be in Cæfar's interest; found means to do him the most effential service. He proposed that both generals should be recalled; being well affured that Pompey would never consent to part with his army, or lay down the government of Spain with which he had been invested, so that Casfar might draw from Pompey's refusal a pretence for continuing himself in his province at the head of his troops. This propofal threw the opposite party into great embarrassments; and while both professed their pacific intentions, both continued in readiness for the most obstinate and bloody war .-Cicero took upon himself the office of mediator; but Pompey would hearken to no terms of accommodation. The orator, furprised to find him so obstinate, at the fame time that he neglected to flrengthen his army, asked him with what forces he designed to make head against Cæsar? To which the other answered, that he needed but stamp with his foot, and an army would start up out of the ground. This confidence he affumed because he persuaded himself that Cæsar's men would abandon him if matters came to extremities. Cæfar, however, though he affected great moderation, yet kept himself in readiness for the worst; and therefore, when the fenate paffed the fatal decree for a civil war, he was not in the least alarmed. This decree was issued in the The decree year 49 B. C. and was expressed in the following words; for a civil " Let the confuls for the year, the proconful Pompey, war.

The first triumvirate.

the pretors, and all those in or near Rome who have been confuls, provide for the public safety by the most proper means. This decree was no somer passed, than the conful Marcellus went, with his colleague Lentulus, to an house at a small distance from the town, where Pompey then was; and presenting him with a sword, "We require you (said he) to take upon you with this the defence of the republic, and the command of her troops." Pompey obeyed; and Cæsar was by the same decree divested of his office, and one Lucius Domitius appointed to succeed him, the new governor being empowered to raise 4000 men in order to take possession of his province.

War being thus resolved on, the senate and Pompey began to make the necessary preparations for opposing Cæfar. The attempt of the latter to withstand their authority they termed a tumult; from which contemptible epithet it appeared that they either did not know, or did not dread, the enemy whom they were bringing upon themselves. However, they ordered 30,000 Roman forces to be affembled, together with as many foreign troops as Pompey should think proper; the expence of which armament was defrayed from the public treasury. The governments of provinces, and all public honours, were bestowed upon such as were remarkable for their attachment to Pompey and their enmity to Cæfar. The latter, however, was by no means wanting in what concerned his own interest. Three of the tribunes who had been his friends were driven out of Rome, and arrived in his camp difguifed like flaves. Cæfar showed them to his army in this ignominious habit; and, fetting forth the iniquity of the fenate and patricians, exhorted his men to fland by their general under whom they had ferved fo long with fuccess; and finding by their acclamations that he could depend on them, he resolved to begin hostilities immediately.

The first design of Cæsar was to make himself master of Ariminum, a city bordering upon Cifalpine Gaul, and confequently a part of his province; but as this would be looked upon as a declaration of war, he refolved to keep his defign as private as possible. At that time he himfelf was at Ravenna, from whence he fent a detachment towards the Rubicon, defiring the officer who commanded it to wait for him on the banks of that river. The next day he affifted at a show of gladiators, and made a great entertainment. Towards the close of the day he rose from table, desiring his guests to stay till he came back, which he faid would be very foon; but, instead of returning to the company, he immediately fet out for the Rubicon, having left orders to some of his most intimate friends to follow him through different roads, to avoid being observed. Having arrived at the Rubicon, which parted Cifalpine Gaul from Italy, the fucceeding misfortunes of the empire occurred to his mind, and made him hefitate. Turning then to Asinius Pollio, " If I dont cross the river (said he), I am undone; and if I do cross it, how many calamities shall I by this means bring upon Rome!" Having thus spoken, he mused a few minutes; and then crying out, " The die is cast," he threw himself into the river, and croffing it, marched with all poffible speed to Ariminum, which he reached and surprised before daybreak. From thence, as he had but one legion with him, he dispatched orders to the formidable army he had left in Gaul to cross the mountains and join him.

The activity of Cæfar struck the opposite party with Rome. the greatest terror; and indeed not without reason, for they had been extremely negligent in making preparations against such a formidable opponent. Pompey himself, no less alarmed than the rest, lest Rome with a defign to retire to Capua, where he had two legions whom he had formerly draughted out of Cæfar's army. He communicated his intended flight to the fenate; but at the same time acquainted them, that if any magillrate or fenator refused to follow him, he should be treated as a friend to Cæfar and an enemy to his country. In the mean time Cæfar, having raifed new troops in Cifalpine Gaul, fent Marc Antony with a detachment to feize Aretium, and fome other officers to fecure Pifaurum and Fanum, while he himself marched at the head of the thirteenth legion to Auximum, which opened its gates to him. From Auximum he advanced into Pi-Takes fevecenum, where he was joined by the twelfth legion from ral towns. Transalpine Gaul. As Picenum readily submitted to him, he led his forces against Confinium, the capital of the Peligni, which Domitius Ahenobarbus defended with thirty cohorts. But Caefar no fooner invested it, than the garrison betrayed their commander, and delivered him up with many fenators, who had taken refuge in the place, to Casfar, who granted them their lives and liberty. Domitius, fearing the refentment of the conqueror, had ordered one of his flaves, whom he used as a physician, to give him a dose of poiton. When he came to experience the humanity of the conqueror, he lamented his misfortune, and blamed the hattiness of his own refolution. But his phyfician, who had only given him a fleeping draught, comforted him, and received his li-

berty as a reward for his affection. Pompey, thinking himfelf no longer fafe at Capua Befieges after the reduction of Corfinium, retired to Brundu-Pompey, after the reduction of Corinium, reured to Brunda who eleapers fium, with a defign to carry the war into the east, who eleapers fium, with a defign to carry the war into the east, who eleapers where all the governors were his creatures. Cæfar fol- gem. lowed him close; and arriving with his army before Brundusium, invested the place on the land-side, and undertook to that up the port by a staccado of his own invention. But, before the work was completed, the fleet which had conveyed the two confuls with thirty cohorts to Dyrrhachium being returned, Pompey refolved to make his escape, which he conducted with all the experience and dexterity of a great officer. He kept his departure very fecret; but, at the fame time, made all necessary preparations for the facilitating of it. In the first place, he walled up the gates, then dug deep and wide ditches cross all the streets, except only those two that led to the port; in the ditches he planted sharp pointed stakes, covering them with hurdles and After these precautions, he gave express orders that all the citizens should keep within doors, lest they should betray his design to the enemy; and then, in the space of three days, embarked all his troops, except the light-armed infantry, whom he had placed on the walls; and thefe likewife, on a fignal given, abandoning their posts, repaired with great expedition to the thips. Caefar, perceiving the walls unguarded, ordered his men to scale them, and make what haste they could after the enemy. In the heat of the pursuit, they would have fallen into the ditches which Pompey had prepared for them, had not the Brundusians warned them of the danger, and, by many windings and turnings, led them to the haven, where they found all the fleet under fail,

Hostilities begun by Cæsar. T 168

Rome. except two veffels, which had run aground in going out of the harbour. These Casar took, made the foldiers on board prifoners, and brought them ashore.

Cæfar, feeing himfelf, by the flight of his rival, mafter of all Italy from the Alps to the fea, was defirous to follow and attack him before he was joined by the fupplies which he expected from Afia. But being deftitute of shipping, he resolved to go first to Rome, and fettle fome fort of government there; and then pass into Spain, to drive from thence Pompey's troops, who had taken poffeifion of that great continent, under the command of Afranius and Petreius. Before he left Brundusium, he fent Scribonius Curio with three legions into Sicily, and ordered O. Valerius, one of his lieutenants, to get together what ships he could, and cross over with one legion into Sardinia. Cato, who commanded in Sicily, upon the first news of Curio's landing there, abandoned the island, and retired to the camp of the confuls at Dyrrhachium; and Q. Valerius no fooner appeared with his small fleet off Sardinia, than the Caralitini, now the inhabitants of Cagliari, drove out Aurelins Cotta, who commanded there for the fenate, and put Cæfar's lieutenant in possession both of their city and island.

In the mean time the general himself advanced towards Rome; and on his march wrote to all the fenators then in Italy, defiring them to repair to the capital, and affift him with their counsel. Above all, he was defirous to fee Cicero; but could not prevail upon him to return to Rome. As Cæfar drew near the capital, he quartered his troops in the neighbouring municipia; and then advancing to the city, out of a pretended respect to the ancient customs, he took up his quarters in the fuburbs, whither the whole city crowded to fee the famous conqueror of Gaul, who had been absent near ten years. And now fuch of the tribunes of the people as had fled to him for refuge reaffumed their functions, mounted the roffra, and endeavoured by their fpeeches to reconcile the people to the head of their party. Marc Antony particularly, and Cassius Longinus, two of Cuelar's most zealous partisans, moved that the fenate should meet in the suburbs, that the general might give them an account of his conduct. Accordingly, fuch of the fenators as were at Rome affembled; when Cae ar made a speech in justification of all his proceedings, and concluded his harangue with propoling a deputation to Pemper, with offers of an accommodation in an amicable manner. He even defired the conferint fathers, to whom in appearance he paid great deference, to nominate fome of their venerable body to carry proposals of peace to the confu's, and the general of the confular army; but none of the fenators would take upon him that commission. He then began to think of providing himself with the necessary sums for carrying on the war, and had recourse to the public treasury. But Metellus, one of the tribunes, opposed him : alleging a law forbidding any one to open the treatury, but in the refence and with the confent of the confuls. Cæfar, h wever, without regarding the tribune, went directly to the temple of Saturn, where the public money was kept. But the keys of the treafury laving been carried away by the conful Lentulus, he orde ed the doors to be broken open. This Metellus opposed : but Cælar, in a possion, laying Lis hand on his fword, threatened to kill him if he gave him any farther diffurbance; which fo terrified Metellus, that Rome, he withdrew. Cafar took out of the treatury, which was ever after at his command, an immenfe fum; fome fay, 300,000 pounds weight of gold. With this tupply himt if of money he raised troops all over Italy, and fent go-with movernors into all the provinces subject to the republic. ney here Casfar now made Marc Antony commander in chief the public

of the armies in Italy, fent his brother C. Antonius to treatury. govern Hyricum, affigned Chalpine Gaul to Licinius Crassus, appointed M. Armilius Lepidus governor of the capital; and having got together fone thips to cruife in the Adriatic and Mediterranean feas, he gave the command of one of his fleets to P. Cornelius Dolabella, and of the other to young Hortenfius, the fon of the famous orator. As Pompey had fent governors into the fame provinces, by this means a general war was kindled in almost all the parts of the known world. However, Cæfar would not trust any of his lieutenants with the conduct of the war in Spain, which was Pompev's favourite province, but took it upon himfelf; and having fettled his affairs in great hafte at Rome, returned to Ariminum, affembled his legions there, and passing the Alps, entered Transalpine Gaul. There he was informed that the inhabitants of Marfeilles had refolved to refuse him entrance into their city; and that L. Domitius Ahenobarbus, whom he had generously pardoned and fet at liberty after the reduction of Cor-finium, had fet fail for Marfeilles with feven galleys, having on board a great number of his clients and flaves, with a defign to raife the city in favour of Pompey. Casfar, thinking it dangerous to let the enemy take possession of such an important place, fent for the 15 chief magistrates of the crty, and advised them not to begin a war with him, but rather follow the example of Italy, and submit. The magistrates returned to the city, and soon after informed him that they were to stand neuter; but in the mean time Domitius arriving with his small squadron, was received into the city, and declared general of all their forces. Hereupon Casfar immediately invested the town with three legions, and ordered twelve galleys to be built at Arclas, now Arles, in order to block up the port. But as the fiege was like to detain him too long, he left C. Trebonius to carry it on, and D. Brutus to command the fleet, while he continued his march into Spain, where he began the war with all the valour, ability, and faccels of a great general. Pompey had three generals in this continent, which was divided into two Reman provinces. Varro commanded in Farther Spain; and Petreius and Afranips, with equal power, and two confide able armies, in Hither Spain. Crefar, while he was yet at Marfeilles, fent (). Fabius, one of his lieutenants, with three legions, to take possession of the passes of the Pyrences, which Afranius had feized. Fabius executed his commission with great bravery, entered Spain, and left the way open for Cæfar, who quickly followed him. As foon as be had croffed the mountains, he fent out fecuts to observe the fituation of the enemy; by whom he was informed, that Afranius and Petreius having joined their forces, confifing of five legions, 20 cenorts of the natives, and 5000 horfe, were advantageously posted on an hill of an of afeen in the neighbourhood of Herda, now Lerida, is Cataloria. Upon this advice Castar advanced within fight of the enemy, and encamped in a plain between the Sicoris and Cingo, now the Segro and Cinca. BeIs reduced to great diftrels in Spain.

tween the eminence on which Afranius had posted himfelf, and the city of Ilerda, was a finall plain, and in the middle of it a rising ground, which Cæsar attempted to feize, in order to cut off by that means the communication between the enemy's camp and the city, from whence they had all their provisions. This occasioned a flarp diffute between three of Cæfar's legions and an equal number of the enemy, which lafted five hours with equal fuccess, both parties claiming the victory. But after all, Afranius's men, who had first soized the post, maintained themselves in position of it in spite of Cafar's utmaft efforts. Two days after this battle, continual rains, with the melting of the fnow on the mountains, so swelled the two rivers between which Casfar was encamped, that they overflowed, broke down his bridges, and laid under water the neighbouring country to a great distance. This cut off the communication between his camp and the cities that had declared for him; and reduced him to fuch straits, that his army was ready to die for famine, wheat being fold in his eamp at 50 Roman denarii per bushel, that is, 11. 12s. 14d. sterling. He tried to rebuild his bridges, but in vain; the violence of the ftream rendering all his cudeavours fruitlefs.

Upon the news of Cæfar's diffres, Pompev's party at Rome began to take courage. Several perfons of diffinction went to congratulate Afranius's wife on the fuccefs of her hufband's arms in Spain. Many of the fenators who had hitherto stood neuter, hastened to Pompey's camp, taking it for granted that Caefar was reduced to the last extremity, and all hopes of his party loft. Of this number was Cicero; who, without any regard to the remonstrances of Atticus, or the letters Cefar himfelf wrote to him, defiring him to join nei-ther party, left Italy, and landed at Dyrrhachium, where Pompey received him with great marks of joy and friendthip. But the joy of Pompey's party was not long-lived. For Cæsar, after having attempted sehis difficul- veral times in vain to rebuild his bridges, caused boats ties, and re- to be made with all possible expedition; and while the enemy were diverted by endeavouring to intercept the succours that were sent him from Gaul, he laid hold of that opportunity to convey his boats in the night on carriages 22 miles from his camp; where with wonderful quickness a great detachment passed the Sicoris, and encamping on the opposite bank unknown to the enemy, built a bridge in two days, opened a communication with the neighbouring country, received the fupplies from Gaul, and relieved the wants of his foldiers. Cæfar being thus delivered from danger, purfued the armies of Afranius and Petreius with fuch fuperior address and conduct, that he forced them to submit without coming to a battle, and by that means be-came mafter of all Hither Spain. The two generals disbanded their troops, sent them out of the province, and returned to Italy, after having folemnly promifed never to affemble forces again, or make war upon Cæfar. Upon the news of the reduction of Hither Spain, the Spaniards in Farther Spain, and one Roman legion, deferted from Varro, Pompev's governor in that province, which obliged him to furrender his other legion and all his money.

> Cæfar having thus reduced all Spain in a few months, appointed Cassius Longinus to govern the two provinces with four legions, and then returned to Marfeilles; VOL XVIII. Part I

which city was just upon the point of furrendering after Rome a most vigorous resistance. Though the inhabitants had by their late treachery deserved a severe punishment, yet he granted them their lives and liberty; but flripped their arfenals of arms, and obliged them to deliver up all their thips. From Marfeilles Caefar marched into Cifalpine Gaul; and from thence haftened to Rome. where he laid the foundation of his future grandeur. He found the city in a very different state from that in which he had left it. Most of the fenators and magi-Returns to Arates were fled to Pompey at Dyrrhachium. How. Rome, and ever, there were ftill practors there; and among them is created M. Æmilius Lepidus, who was afterwards one of the dictator. triumvits with Octavius and Marc Antony. The preetor, to ingratiate himfelf with Cæfar, nominated him dictator of his own authority, and against the inclination of the fenate. Cæfar accepted the new dignity; but neither abused his power, as Sylla had done, nor retained it fo long. During the 11 days of his dictatorship, he governed with great moderation, and gained the affections both of the people and the patricians. He recalled the exiles, granted the rights and privileges of Roman citizens to all the Gauls beyond the Po, and, as pontifex maximus, filed up the vacancies of the facerdetal colleges with his own friends. Though it was expected that he would have absolutely cancelled all delits contracted fince the beginning of the troubles, he only reduced the interest to one fourth. But the chief use he made of his dictatorship was to preside at the election of confuls for the next year, when he got himfelf, and Servilius Ifauricus, one of his moll zealous partilans, premoted to that dignity,

And now being refolved to follow Pompey, and carry Follows the war into the cast, he set out for Brundusium, whi- Pempry ther he had ordered 12 legions to repair with all pof-into the fible expedition. But on his arrival he found only five eat. there. The real, being afraid of the dangers of the fea, and unwilling to engage in a new war, had marched leifurely, complaining of their general for allowing them no reflite, but hu rying them continually from one country to another. However, Caefar did not wait for them. but fet fail with only five legions and 600 horfe in the beginning of January. While the rest were waiting at Brundusium for thips to transport them over into Epirus, Cæfar arrived fafe with his five legions in Chaonia, the northern part of Epirus, near the Ceraunian mountains. There he lauded his troops, and fent the thips back to Brundusium to bring over the legions that were left behind. The war he was now entering upon was the most difficult he had yet undertaken. Pompey had for a whole year been affembling troops from all the eastern countries. When he left Italy, he had only five legions; but fince his arrival at Dyrrhachium he had been reinforced with one from Sicily, another from Crete, and two from Syria. Three thousand archers, fix cohorts of flingers, and feven thousand horse, had been fent him by princes in aliance with Rome. All the free cities of Ana had reinforced his army with their best troops; nay, if we give credit to an historical poet, fuccours were brought him from the Indus and the Ganges to the east, and from Arabia and Ethiopia to the fouth; at least it is certain, that Greece, Asia Minor, Syria, Palestine, Egypt, and all the nations from the Mediterranean to the Euphrates, took up arms in

his favour. He had almost all the Reman knights,

Over. ones duces all Spain.

Rem. that is, the flower of the young nobility, in his fquadrons, and his legions confitted mostly of veterans inured to dangers and the toils of war. Pompey himself was a general of great experience and address; and had under him some of the best commanders of the republic, who had formerly conducted armies themselves. As for his navy, he had above 500 thips of war, befides a far greater number of small vessels, which were continually crusting on the coasts, and intercepted such ships as carried arms or provitions to the enemy. He had likewife with him above 200 tenators, who formed a more numerous senate than that at Rome. Cornelius Lentulus and Claudius Marcellus, the last year's confuls, prefided in it; but under the direction of Pompey their protector, who ordered them to affemble at Theffalonica, where he built a stately hall for that purpose, There, in one of their affemblies, at the motion of Cato, it was decreed, that no Roman citizen thould be put to death but in battle, and that no city subject to the republic should be sacked. At the same time the confeript fathers affembled at Theffalonica decreed, that they alone represented the Roman fenate, and that those who refided at Rome were encouragers of tyranny, and friends to the tyrant. And indeed, as the flower of the nobility was with Pompey, and the most virtuous men in the republic had taken refuge in his camp, he was generally looked upon as the only hope and support of the public liberty. Hence many persons of eminent probity, who had hitherto flood neuter, flocked to him from all parts. Among these were young Brutus, who afterwards conspired against Cæsar, Tidius Sextius, and Labienus. Brutus, whose father had been put to death in Galatia by Pompey's order, had never fpoken to him, or fo much as faluted him fince that time: but as he now looked upon him as the defender of the public liberty, he joined him, facrificing therein his private refentment to the interest of the public. Pompey received him with great joy, and was willing to confer upon him fome command; but he declined the offer. Tidius Sextius, though extremely old and lame, yet left Rome, and went as far as Macedonia to join Pompey there. Labienus likewise forsook his old benefactor, under whom he had ferved during the whole course of the Gaulish war, and went over to his rival, though Cæfar had appointed him commander in chief of all the forces on the other fide the Alps. In fhort, Pompey's party grew into fuch reputation, that his cause was generally called the good coufe, while Cæfar's adherents were looked upon as enemies to their country, and abettors of tyranny

As foon as Cæfar landed, he marched directly to Oricum, the nearest city in Epirus, which was taken without opposition. The like fuccess attended him at Apollonia, which was in no condition to fland a fiege; and these two conquests opened a way to Dyrrhachium. where Pompey had his magazines of arms and provisions, This fuccess, however, was interrupted by the news that the fleet which he had fent back to Brundusium to transport the rest of his troops had been attacked by Bibulus, one of Pompey's admirals, who had taken 30, and inhumanly burnt them with the feamen on board. This gave Caefar great uneafiness, especially as he heard that Bibulus, with 110 ships of war, had taken possesfion of all the harbours between Salonium and Origum; so that the legions at Brundusium could not venture to cross the sea without great danger of falling into the Rome. enemy's hands. By this Caefar was fo much embarraffed, that he made propofals of accommodation upon very moderate terms; being no other than that both Pompey and he should disband their armies within three days, renew their former friendship with solemn oaths, and return together to Italy. These proposals were fent by Vibullius Rufus, an intimate friend of Pompey, whom Cæfar had twice taken prifoner. Pompey, however, probably elated with his late good fortune, anfwered that he would not hearken to any terms, left it should be faid that he owed his life and return to Italy to Cæfar's favour. However, the latter again fent one Vatinius to confer with Pompey about a treaty of peace. Labienus was appointed to receive the propofals; but while they were conferring together, a party of Pompey's men coming up to them, discharged their darts at Vatinius and those who attended him. Some of the guards were wounded, and Vatinius narrowly escaped with his life.

In the mean time Cæfar advanced towards Dyrrhachium, in hopes of furprising that important place; but Pompey unexpectedly appearing, he halted on the other fide of the river Apius, where he intrenched himfelf, as having but a fmall number of troops in comparison of the formidable army which attended Pompey. The latter, however, notwithstanding his superiority, durst not crofs the river in Cæfar's fight; fo that the two atmies continued for fome time quiet in their respective camps, Cæfar wrote letter after letter to Marc Antony, who commanded the legions he had left in Italy, to come to his affiftance; but receiving no answer, Cæsar disguised himself in the habit of a slave, and with all imaginable fecrecy went on board a fisherman's bark, with a design to go over to Brundusium, though the enemy's fleet was cruifing on the coasts both of Greece and Italy. This defign, however, miscarried, by reason of the boat being put back by contrary winds; and thus Casfar was restored to his foldiers, who had been very uneasy at his absence. He was no sooner landed than he dispatched Pollhumius, one of his lieutenants, with most preffing orders to Marc Antony, Gabinius, and Calenus, to bring the troops to him at all adventures. Gabinius, unwilling to expose all the hopes of his general to the hazards of the fea, thought it fafer to march a great way about by Illyricum, and therefore engaged all the legionaries he could to follow him by land. But the Illyrians, who had, unknown to him, declared for Pompey, fell unexpectedly upon him and killed him and his men, not one escaping Marc Antony and Calenus. who went by fea, were in the greatest danger from one of Pompey's admirals; but had the good luck to bring their troops fafe to shore at Nyphæum, in the neighbourhood of Apollonia. As foon as it was known that Antony was landed, Pompey marched to prevent his joining Caefar. On the other hand, Caefar instantly decamped, and hastening to the relief of his lieutenant, joined him before Pompey came up. Then Pompey, not caring to engage them when united, retired to an advantageous post in the neighbourhood of Dyrrhachium, known by the name of Asparagium, and there encamped. Caefar having thus at length got all his troops together, resolved to finish the war by one general action, and determine the fate of the world, either by his own death or by that of his rival. To this end he of-

Make- propofals of 2 c mmodation. which are rejected.

Belieges

fered Pompey battle, and kept his army a great while drawn up in fight of the enemy. But Pompey declining an engagement, he decamped, and turned towards Dyrrhachium, as if he defigned to surprise it, hoping by this means to draw Pompey into the plain. But Pompey, looking upon the taking of Dyrrhachium as a chimerical project, followed Cæfar at some distance, and letting him draw near to the city, encamped on a hill called Petra, which commanded the fea, whence he could be supplied with provisions from Greece and Asia, while Cæfar was forced to bring corn by land from Epi-

rus, at a vait expence, and through many dangers. This inconvenience put Caefar upon a new defign, which was to furround an army far more numerous than his own, and, by thutting them up within a narrow tract of ground, diffres them as much for want of forage as his troops were diffrested for want of corn. Purfuant to this delign, he drew a line of circumvallation Pompey in his camp. from the fea quite round Pompey's camp, and kept him fo closely blocked up, that though his men were plentifully fupplied with provisions by fea, yet the horses of his army began foon to die in great numbers for want of forage. Cæfar's men, though in the utmoit diffress for want of corn, yet bore all with incredible cheerfulness; protesting that they would rather live upon the bark of trees than fuffer Pompey to escape, now they had him in their power. Cefar tells us, that in this extremity fuch of the army as had been in Sardinia found out the way of making bread of a certain herb called clara, which they steeped in milk; and that when the enemy infulted them on account of the flarving condition which they were in, they threw feveral of these loaves among them, to put them out of all hopes of fubduing them by famine. " So long as the earth produces fuch roots (faid they), we will not let Pompey escape." At length Pompey, alarmed at the distempers which began to prevail in his army, made several attempts to break through the barriers that inclofed him, but was always repulfed with lofs. At length, being reduced to the utmost extremity for want of sorage, he refolved at all events to force the enemy's lines and escape. With the affistance, therefore, and by the advice of two deferters, he embarked his archers, flingers, and light-armed infantry, and marching himself by land at the head of 60 cohorts, went to attack that part of Crefar's lines which was next to the fea, and not yet quite finished. He fet out from his camp in the dead of the night, and arriving at the post he designed to force by break of day, he began the attack by fea and land at the fame time. The ninth legion, which defended that part of the lines, made for some time a vigorous reliffance; but being attacked in the rear by Pompey's men, who came by fea, and landed between Crefar's two lines, they fled with fuch precipitation, that the fuccours Marcellinus fent them from a neighbouring post could not stop them. The ensign who carried the eagle at the head of the routed legion was mortally wounded; but nevertheless, before he died, had prefence of mind enough to confign the eagle to the cavalry of the party, defiring them to deliver it to Caefar. Pompey's men purfied the fugitives, and made fuch a flaughter of them, that all the centurions of the first cohort were cut off except one. And now Pompey's army broke in like a torrent upon the posts Cæsar had fortified, and were advancing to attack Marcellinus, who guarded a neighbouring fort; but Marc Antony coming Rome very feafonably to his relief with 12 cohorts, they

Soon after Crefar himself arrived with a strong reinforcement, and posted himself on the thore, in order to Casta de prevent such attempts for the future. From this post he observed an old camp which he had made within the place where Pompey was inclosed, but afterwards ab ndoned. Upon his quitting it, Pompey had taken poffession of it, and left a legion to guard it. This post Carfar resolved to reduce, hoping to repair the loss he had fuffained on this unfortunate day, by taking the legion which Pompey had posted there. Accordingly, he advanced fecretly at the head of 33 cohorts in two lines: and arriving at the old camp before Pomper could have notice of his march, attacked it with great vigour, forced the first intrenchment, notwithstanding the brave refistance of Titus Pulcio, and penetrated to the fecond, whither the legion had retired. But here his fortune changed on a fudden. His right wing, in looking for an entrance into the camp, marched along the outfide of a trench which Cæfar had formerly carried on from the left angle of his camp, about 400 paces, to a neighbouring river. This trench they mittook for the rampart of the camp; and being led away by that mistake from their left wing, they were foon after prevented from rejoining it by the arrival of Pompey, who came up at the head of a legion and a large body of horse. Then the legion which Cæsar had attacked taking courage, made a brifk fally, drove his men back to the first intrenchment which they had seized, and there put them in great diforder while they were attempting to pass the ditch. Pompey, in the mean time, falling upon them with his cavalry in flank, completed their defeat; and then flying to the enemy's right wing, which had passed the trench mentioned above, and was thut up between that and the ramparts of the old camp, made a most dreadful slaughter of them. The trench was filled with dead bodies, many falling into it in that diforder, and others passing over them and pressing them to death.

In this diffress, Casfar did all he could to stop the flight of his legionaries, but to no purpose: the standard-bearers themselves threw down the Roman eagles when Cæfar endeavoured to ftop them, and left them in the hands of the enemy, who on this occasion took 32 flandards; a diffgrace which Cæfar had never fuffered before. He was himself in no small danger of falling by the hand of one of his own men, whom he took hold of when flying, bidding him fland and face about; but the man, apprehensive of the danger he was in, drew his fword, and would have killed him, had not one of his guards prevented the blow by cutting off his arm. Ciefar loft on this occasion 960 of his fout, 400 of his horse, 5 tribunes, and 32 centurions.

This loss and diffrace greatly mortified Crefar, but Heretieves did not discourage him. After he had by his lenity his affairs, and eloquent speeches recovered the spirit of his troops, he decamped, and retired in good order to Apollonia, where he paid the army, and left his fick and wounded. From thence he marched into Macedon, where Scipio Metellus, Pompey's father-in-law, was encamped. He hoped either to draw his rival into some plain, or to overpower Scipio if not affilted. He met with great

difficulties on his march, the countries through which

Is driven from fome

Rome he paffed refusing to fumply his army with provisions; to fuch a degree was his reputation funk fince his laft defeat! On his entering Theffaly he was met by Domitius, one of his lieutenants, whom he had fent with three legions to reduce Epirus. Having now got all his forces together, he marched directly to Gomphi, the fast town of Theffaly, which had been formerly in his interest, but now declared against him. Whereupon he attacked it with fo much vigour, that though the garriton was very numerous, and the walls were of an uncommon height, he made himfelf maiter of it in a few hours. From hence he marched to Metropolis, another confiderable town of Theffalv, which immediately furrendered; as did all the other cities of the country, except Lariffa, of which Scipio had made himfelf mafter.

On the other hand, Pompey being continually importuned by the fenators and officers of his army, left his camp at Dyrrhachium, and followed Cæfar, firmly resolved not to give him battle, but rather to diffress him by keeping close at his heels, fraitening his quarters, and cutting off his convoys. As he had frequent opportunities of coming to an engagement, but always declined it, his friends and Subalterns began to put ill

constructions on his dilatoriness to his face.

Thefe, together with the complaints of his foldiers, Pompey Thele, together with the complaints of his indicers, refolves to made him at length refolve to venture a general action. With this defign he marched into a large plain near the an engagecities of Pharlalia and Thebes; which latter was also called Philippi, from Philip king of Macedon, and the father of Peries, who, having reduced the Thebans, placed a colony of Macedonians in their city. This plain was watered by the Enipeus, and farrounded on all fides by high mountains; and Pompey, who was itill averse from venturing an engagement, pitched his camp on the declivity of a steep mountain, in a place altogether inaccessible. There he was joined by Scipio his father-in-law, at the head of the legions which he had brought with him from Syria and Cilicia. notwithstanding this reinforcement, he continued irrefolute, and unwilling to put all to the inne of a fingle action; being still convinced of the wildom of his maxim, that it was better to destroy the enemy by fatigues and want, than to engage an army of brave veterans, who were in a manner reduced to despair. As he put off from day to day, under various pretences, defconding into the plain where Caefar was encamped, his officers forced him to call a council of war, when all to a man were for venturing a general action the very next day. Thus was Pempey obliged to facrifice his own judgement to the blind ardour of the multitude; and the necessary measures were taken for a general en-

The event of this battle was in the highest degree fortunate for Crefar +; who refolved to purfue his ad-\* See Fhar-vantage, and follow Pompey to whatever country he flould retire. Hearing, therefore, of his being at Amphip is, he fent off his troops before him, and then embarked on beard a little frigate in order to crofs the Hellespont; but in the middle of the strait, he fell in with one of Pompey's commanders, at the head of ten thips of war. Cælar, noway terrified at the superiority of his force, bore up to him, and commanded him to fubmit. The other instantly obeyed, awed by the terror of Caefar's name, and furrendered himself and his Romes fleet at diferetion.

From thence he continued his voyage to Ephefus, then to Rhodes; and being informed that Pompey had been there before him, he made no doubt but that he was fled to Egypt; wherefore, losing no time, he fet fail for that kingdom, and arrived at Alexandria with about 4000 men; a very inconfiderable force to keep fuch a powerful kingdom under fubjection. But he was now grown to fecure in his good fortune, that he expected to find obedience everywhere. Upon his landing, the first accounts he received were of Pompey's miferable end, who had been affaffinated by orders of the treacherous king as foon as he went on fhore; and foon after one of the murderers came with his head and Is murdered ring as a most grateful present to the conqueror. But in Egypt. Caefar turned away from it wish horror, and shortly after ordered a magnificent tomb to be built to his memore on the foot where he was murdered; and a temple near the place, to Nemefis, who was the goddefs that punished those that were cruel to men in adver-

It should feem that the Egyptians by this time had fome hopes of breaking off all alliance with the Romans; which they confidered, as in fact it was, but a specious subjection. They first began to take offence at Casar's carrying the entigns of Roman power before him as he entered the city. Photinus, the cunuch, also treated him with difrespect, and even attempted his life. Casfar, however, concealed his resentment till he had a The Egypforce sufficient to punish his treachery; and sending tions out reprivately for the legions which had been formerly en-rel with rolled for Pompey's service, as being the nearest to Casfar, Egypt, he in the mean time pretended to repole an entire confidence in the king's minister. However, he foon changed his manner when he found himfelf in no danger from his attempts; and declared, that, as being

a Roman conful, it was his duty to fettle the succession to the Egyptian crown.

There were at that time two pretenders to the crown of Egypt: Ptolemy, the acknowledged king; and the celebrated Cleopatra his fifter; who, by the cuttom of the country, was also his wife, and, by their father's will, thered jointly in the fuccession. However, not being contented with a bare participation of power, she aimed at governing alone; but being opposed in her views by the Roman fenate, who confirmed her brother's title to the crown, the was banished into Syria with Ar-

fince her vounger fifter.

Crefar, however, gave her new hopes of obtaining the kingdom, and fent both for her and her brother to plead their cause before him. Photinus, the young king's guardian, who had long borne the most inveterate hatred as well to Casfar as to Cleopatra, diffained this propotal, and backed his refufal by fending an army of 20,000 men to befiege him in Alexandria. C. far and befie ee bravely repulfed the enemy for fome time; but finding him in the city of too great extent to be defended by fo fmall Alexandria. an army as he then had with him, he retired to the palace, which commanded the harbour, where he purpofed to make a fland. Achillas, who commanded the Egyptians, attacked him there with great vigour, and ftill aimed at making himself master of the fleet that lay before the palace. Crefar, however, too well knew the

importance

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Rome. i

importance of those fhips in the hands of an enemy; and therefore burnt them all in spite of every effort to prevent it. He next policifed himself of the ilde of Pharos, which was the key to the Alexandrian port, by which he was enabled to receive the slipplies fent him from all slides; and in the fittas ion he determined to withstand

the united force cola'l the Egyptians.

In the mean time, Cleopatra having heard of the prefent turn in her favour, refolved to depend rather on Caefar's favour for gaining the government than her own for as. She had, in fact, affembled an army in Svria to support her claims; but now judged it the wifest way to rely entirely on the decision of her felfelected judge. But no arts, as the jultly conceived, were to likely to induence Cuefar, as the charms of her person. The difficulty was how to get at Cae'ar, as her enemies were in poffession of all the avenues that led to the palace. For this purpose, the went on board a fmall vetfel, and in the evening landed near the palace; where, being wrapped up in a coverlet, she was carried by one Aincludorus into the very chamber of Caefar, Her address at first pleafed him; but her careffes, which were carried beyond the bounds of innocence, entirely brought him over to fecond her claims.

Waile Cie patra was thus employed in forwarding her own views, her filter Arimoe was also strenuously enhad found means, by the affiltance of one Ganymede her confidant, to make a large division in the Egyptian army in her favour; and foon after caufed Achillas to be murdered, and Ganymede to take the command in his stead, and to carry on the fiege with greater vigour than before. Ganymede's principal effort was by letting in the fea upon those canals which supplied the pa-Ince with fresh water; but this inconvenience Caefar remedied by digging a great number of wells. His next endeavour was to prevent the junction of Car's 24th legion, which he twice attempted in vain. He foon after made himfelf mafter of a bridge which joined the isle of Phares to the continent, from which post Caefar was refolved to dislodge him. In the heat of action, fome mariners came and joined the combatants; but being feized with a panic, inflantly fled, and fpread a general terror through the army. All Ciefar's endeavours to rally his forces were in vain, the confusion was past remedy, and numbers were drowned or put to the fword in attempting to escape; on which, seeing the irremediable diforder of his troops, he retired to a ship in order to get to the palace that was just opposite. However, he was no fooner on board than great crowds entered at the fame time with him; upon which, apprehenfive of the thip's finking, he jumped into the fea, and fram 200 paces to the ficet that lay before the pa-

The Alexandrians, finding their efforts to take the place in effectual, and avoured at leaft to get their king out of Cocfar's power, as he had feized upon his perfon in the beginning of their diffu es. For this purpole they made up of their undomary arts of diffimulation, profeding the utmost define for peace, and only wanting the presence of their lawful prince to give a fanction to the treaty. Cacfar, who was fensible of their perfidy, nevertheless concealed his suspicions, and gave them their king, as he was under no apprehensions from the abilities of a boy. Ptelemy, however, the instant he was

fet at liberty, influed of promoting peace, made every effort to give virgour to hottilities,

In this manner Crefar was becamed in for fome time: 116 is stated but he was at last relieved from this mortifying fitual-relieved, tion by Mithidates Pergamerius, one of his most fairhoft partizans; who, collecting a numerous string in Syria, marched into Egypt, took the city of Pelulium, repailed the Egyptian army with lofs, and at last, joining with Cufar, attacked their camp, and made a great flughter of the Egyptians. Poldeny himfelf, attempting to escape on board a vessel last was failing down the river, was drawned by the flirs's fluking; and Caefar thus became matter of all Egypt without any further

opposition. He therefore appointed, that Cleopatra, with her younger brother, who was then but an infant, thould jointly govern, according to the intent of their father's will; and drove out Arfinoe with Ganymede

into banishment.

Caefar now for a while feemed to relax from the usual activity of his conduct, captivated with the charms of Cleopatra. Inflead of quitting Egypt to go and quell the remains of Pompey's party, he abandoned himfelf to his pleafures, paffing whole nights in feafts with the young queen. He even resolved to attend her up the Nile into Ethiopia; but the brave veterans, who had long followed his fortune, boldly reprehended his conduct, and refused to be partners in so infamous an expedition. Thus, at length, roufed from his lethargy, he left Cleopatra, by whom he had a fon who was afterwards named Cæfario, in order to oppose Pharnaces the king of Pontus, who had now made fome inroads upon the dominions of Rome. Here he was attended with the greated fuccess, as we have related under the article Pontus; and having fettled affairs in this part of the empire, as well as time would permit, he embarked for Arrives in Italy, where he arrived fooner than his enemies could Italy, and expect, but not before his affairs there abfolutely re-undertakes quired his presence. He had been, during his abtence, an expedicreated conful for five years, dictator for one year, and tion into tribune of the people for life. But Autony, who in the Africa. mean time governed in Rome for him, had filled the city with riot and debauchery, and many commotions enfued, which nothing but the arrival of Clefer could appeafe. However, by his moderation and humanity, he foon reflored tranquillity to the city, fearce making any distinction between those of his own and the opposite party. Thus having, by gentle means, reflored his authority at home, he prepared to march into Africa, where Pompey's party had found time to rally under Scipio and Cato, affifted by Juba king of Mauritania, But the vigour of his proceedings had like to have been retarded by a mutiny in his own army. Those voteran legions, who had hitherto conquered all that came before them, began to murmur for not having received the rewards which they had expected for their pall fervices, and now infifted upon their difcharge. However, Caefar found means to quell the mutiny; and then, according to his usual diligence, landed with a small party in Africa, the rest of the army following soon after. After many movements and skirmishes, he resolved at last to come to a decifive battle. For this purpose he invefted the city of Thapfus, fuppoling that Scipio would attempt its relief, which turned out according to his expectation. Scipio, joining with the young king of Mauritania, advanced with his army, and encamping

himfelf.

Rome. near Cæfar, they foon came to a general battle. Cæfar's fuccels was as usual; the enemy received a com-Defeats the plete and final overthrow, with little loss on his fide. partifans of Juba, and Petreius his general, killed each other in defpair; Scipio, attempting to escape by sea into Spain, fell in among the enemy, and was flain; fo that, of all the generals of that undone party, Cato was now alone

remaining. This extraordinary man, having retired into Africa after the battle of Pharfalia, had led the wretched remains of that defeat through burning deferts and tracts infelted with ferpents of various malignity, and was now in the city of Utica, which he had been left to defend. Still, however, in love with even the show of Roman government, he had formed the principal citizens into a fenate, and conceived a refolution of holding out the town. He accordingly affembled his

fenators upon this occasion, and exhorted them to stand a fiege; but finding his admonitions ineffectual, he \* See Cato, stabbed himself with his sword \*. Upon his death, the war in Africa being completed, Cæfar returned in triumph to Rome; and, as if he had abridged all his former triumphs only to increase the splendor of this, the citizens were aftonished at the magnificence of the procession, and the number of the countries he had subdued. It lasted four days: the first was for Gaul, the second for Egypt, the third for his victories in Atia, and the fourth for that over Juba in Africa. To every one of his foldiers he gave a fum equivalent to about 1501. of our money, double that fum to the centurions, and four times as much to the superior officers. The citizens also shared his bounty; to every one of whom he distributed 10 bushels of corn, 10 pounds of oil, and a sum of money equal to about two pounds Sterling of ours. He, after this, entertained the people at about 20,000 tables, treated them with the combat of gladiators, and filled Rome with a concourse of spectators from every part of Italy.

The people now feemed eager only to find out new modes of homage and unufual methods of adulation for their great enflaver. He was created, by a new title, Magifler Morum, or Master of the Morals of the People; he received the title of Emperor, Father of his country; his person was declared sacred; and, in short, upon him alone were devolved for life all the great dignities of the state. It must be owned, however, that no fovereign could make better use of his power. He immediately began his empire by repressing vice and encouraging virtue. He communicated the power of judicature to the fenators and the knights alone, and by many fumptuary laws restrained the scandalous luxuries of the rich. He proposed rewards to all such as had many children; and took the most prudent methods of repeopling the city, that had been exhausted in the late commotions; and besides his other works, he greatly reformed the kalendar.

Having thus restored prosperity once more to Rome, he again found himfelf under a necessity of going into Spain, to oppose an army which had been raised there under the two fons of Pompey, and Labienus his former general. He proceeded in this expedition with his usual celerity, and arrived in Spain before the enemy thought him yet departed from Rome. Cneius and Sextus, Pompey's fons, profiting by their unhappy father's example, resolved as much as possible to protract the war; so that the first operations of the two armies were spent in fieges Rome. and fruitless attempts to surprise each other. At length Cæfar, after taking many cities from the enemy, and purfuing young Pompey with unwearied perfeverance. compelled him to come to a battle upon the plains of Munda.

After a most obstinate engagement, Casfar gained a Becomes complete victory (fee MUNDA);) and having now fub-mafter of dued all his enemies, he returned to Rome for the laft the whole time to receive new dignities and honours, and to enjoy his victory an accumulation of all the great offices of the state, at Munda, Still, however, he pretended to a moderation in the enjoyment of his power; he left the confuls to be named by the people; but as he possessed all the authority of the office, it from this time began to fink into contempt. He enlarged the number of fenators also; but as he had previously destroyed their power, their new honours were but empty titles. He took care to pardon all who had been in arms against him, but not till he had deprived them of the power of refiltance. He even fet up once more the statues of Pompey; which, however, as Cicero observed, he only did to secure his own. The rest of this extraordinary man's life was employed for the advantage of the state. He adorned the city with magnificent buildings; he rebuilt Carthage and Corinth, fending colonies to both cities; he undertook to level feveral mountains in Italy, to drain the Pontine marshes near Rome, and defigned to cut through the Ishmus of Pe-Ioponnesus. Thus he formed mighty projects and de-His vast figns beyond the limits of the longest life; but the great-defigns. eft of all was his intended expedition against the Parthians, by which he defigned to revenge the death of Craffus; then to pass through Hyrcania, and enter Scythia along the banks of the Caspian sea; from thence to open himfelf a way through the immeasurable forests of Germany into Gaul, and fo return to Rome. These were the aims of ambition : but the jealoufy of a few individuals put an end to them all.

generacy of the times, continued to load Cæsar with fresh honours, and he continued with equal vanity to receive them. They called one of the months of the year after his name; they stamped money with his image; they ordered his statue to be fet up in all the cities of the empire; they instituted public facrifices on his birthday; and talked, even his life-time, of enrolling him in the number of their gods. Antony, at one of their public festivals, foolishly ventured to offer him a diadem; but he put it back again, refufing it feveral times, and receiving at every refusal loud acclamations from the people. One day, when the fenate ordered him some particular honours, he neglected to rife from his feat; and from that moment is faid to have been marked for destruction. It began to be rumoured that he intended to make himself king; for though in sact he already was fo, the people, who had an utter aversion to the name, could not bear his assuming the title. Whether he really defigned to affume that empty honour must now for ever remain a fecret; but certain it is, that the unfulpecting opennels of his conduct marked fomething like a confidence in the innocence of his intentions. When informed by those about him of the jealousies of

many persons who envied his power, he was heard to

fay, That he had rather die once by treason, than to

live continually in the apprehension of it; and to con-

The fenate, with an adulation which marked the de-

217 heaped upon him at Rome.

Rome. 220 A confpiracy form-

ed against

him.

vince the world how little he had to apprehend from his enemies, he difbanded his company of Spanish guards.

which facilitated the enterprife against his life.

A deep-laid conspiracy was formed against him, composed of no lefs than 60 fenators. At the head of this conspiracy was Brutus, whole life Crefar had spared after the battle of Pharsfalia, and Cassius, who had been pardoned soon after, both pretors for the present year. Brutus made it his chief glory to have been desended from that Brutas who first gave liberty to Rome; and from a defire of following his example, broke all the ties of private friendship, and entered into a conspiracy which was to destroy his benefactor. Cassius, on the other hand, was impetuous and proud, and hated Cresar's person still more than his cause. He had often sought an opportunity of gratistying his revenge by affallination, which took rise rather from private than public motives.

The conspirators, to give a colour of justice to their proceedings, remitted the execution of this defign to the ides of March, the day on which it was reported that Cæfar was to be offered the crown. The augurs had foretold that this day would be fatal to him; and the night preceding, he heard his wife Calphurnia lamenting in her fleep, and being awakened, the confessed to him that she dreamt of his being affassinated in her arms. Thele omens, in some measure, began to change his intentions of going to the fenate, as he had refolved, that day; but one of the conspirators coming in, prevailed upon him to keep his resolution, telling him of the reproach which would attend his staying at home till his wife had lucky dreams, and of the preparations that were made for his appearance. As he went along to the fenate, a flave, who haftened to him with information of the conspiracy, attempted to come near him, but could not for the crowd. Artemidorus, a Greek philosopher, who had discovered the whole plot, delivered to him a memorial, containing the heads of his information; but Cælar gave it, with other papers, to one of his fecretaries without reading, as was usual in things of this nature. As foon as he had taken his place in the fenate, the conspirators came near him, under a pretence of faluting him; and Cimber, who was one of them, approached in a suppliant posture, pretending to fue for his brother's pardon, who was banithed by his order. All the conspirators seconded him with great tenderness; and Cimber, seeming to sue with still greater fubmillion, took hold of the bottom of his robe, holding him fo as to prevent his rifing. This was the fig-nal agreed on. Casca, who was behind, stabbed him, though slightly, in the shoulder. Castar instantly turned round, and with the ftyle of his tablet wounded him in the arm. However, all the conspirators were now alarmed; and inclosing him round, he received a fecond stab from an unknown hand in the breast, while Cassius wounded him in the face. He still defended himself with great vigour, rushing among them, and throwing down fuch as opposed him, till he saw Brutus among the conspirators, who, coming up, struck his dagger in his thigh. From that moment Cæsar thought no more of defending himfelf, but looking upon this conspirator, cried out, " And you too, Brutus!" Then covering his head, and forcading his robe before him in order to fall with greater decency, he funk down at the base of Pompey's statue, after receiving three-and-twenty wounds, in the 16th year of his age, and 4th of his reign.

As foon as the conspirators had dispatched Cuefar, Great conthey began to address themselves to the senate, in order suson occato vindicate the motives of their enterprife, and to ex-fioned by cite them to join in procuring their country's freedom; his death. but all the fenators who were not accomplices fled with fuch precipitation, that the lives of some of them were endangered in the throng. The people also being now alarmed, left their usual occupations, and ran tumultuoully through the city; fome actuated by their fears, and still more by a defire of plunder. In this state of confusion, the conspirators all retired to the capitol, and guarded its accesses by a body of gladiators which Brutus had in pay. It was in vain they alleged they only flruck for freedom, and that they killed a tyrant who nfurped the rights of mankind: the people, accustomed to luxury and cafe, little regarded their professions, dreading more the dangers of poverty than of subjection.

The friends of the late dictator now began to find that this was the time for coming into greater power than before, and for fatisfying their ambition under the veil of promoting justice. Of this number was Antony, whom we have already feen acting as a lieutenant under Cæfar. He was a man of moderate abilities and excessive vices; ambitious of power, but skilled in war, to which he had been trained from his youth. He was conful for this year; and refolved, with Lepidus, who was fond of commotions like himfelf, to feize this opportunity of assuming the sovereign power. Lepidus, therefore, took possession of the forum with a band of soldiers at his devotion; and Antony, being conful, was permitted to command them. Their first step was to possess themselves of all Cæsar's papers and money; and the next to convene the fenate, in order to determine whether Cæsar had been a legal magistrate or a tyrannical usurper, and whether those who killed him merited rewards or punithments. There were many of these who had received their premotions from Cæfar, and had The conacquired large fortunes in confequence of his appoint, spirators ments: to vote him an usurper, therefore, would be to pardoned endanger their property; and yet to vote him innocent, nate, might endanger the state. In this dilemma they seemed willing to reconcile extremes; wherefore they approved all the acts of Cæfar, and yet granted a general pardon to all the conspirators.

This decree was very far from giving Antony fatisfaction, as it granted fecurity to a number of men who were the avowed enemics of tyranny, and who would be foremost in opposing his schemes of restoring absolute power. As therefore the fenate had ratified all Crefar's acts without diffinction, he formed a scheme upon this of making him rule when dead as imperioufly as he had done when living. Being, as was faid, possessed of Cæsar's books of accounts, he so far gained upon his fecretary as to make him infert whatever he thought proper. By these means, great sums of money, which Cæfar never would have bestowed, were here distributed among the people; and every man who was averfe to republican principles was here fure of finding a gratuity. He then demanded that Cæfar's funeral obsequies should be performed; which the senate now could not decently forbid, as they had never declared him a tyrant. Accordingly, the body was brought

He is murdered.

=24 Antony inflames the people.

Rome. forth into the forum with the utmost folemnity; and Antony began his operations upon the passions of the people, by the prevailing motives of private interest. He first read Colar's will, in which he had left Octavius, his finter's grandson, his heir, permitting him to take the name of Casar; and three parts of his private fortune Brutus was to inherit in case of his death. The Roman people were left the gardens which he had on the other fide the Tiber; and every citizen, in particular, was to receive 300 festerces. This last bequest not a little contributed to increase the people's affection for their late dictator; they now began to confider Casfar as a father, who, not fatisfied with doing them the greateft good while living, thought of benefiting them even after his death. As Antony continued reading, the multitude began to be moved, and fighs and lamentations were heard from every quarter. Antony, feeing the audience tayourable to his defigns, now began to address the allembly in a more pathetic ftrain : he presented before them Cæfar's bloody robe, and, as he unfolded it, took care they should observe the number of slabs in it : he then displayed an image, which to them appeared the body of Czefar, all covered with wounds. The people could now no longer contain their indignation; they unanimously cried out for revenge; all the old foldiers who had fought under him, burnt, with his body, their coronets, and other marks of conquest with which he had honoured them. A great number of the first matrons in the city threw in their ornaments also: till at length, rage facceeding to forrow, the multitude ran with flaming brands from the pile to fet fire to the conspirators houses. In this rage of resentment, meeting with one Cinna, whom they miltook for another of the same name who was in the conspiracy, they tore him in pieces. The confpirators themselves, however, being well guarded, repulfed the multitude with no great trouble; but perceiving the rage of the people, they thought it fafett to retire from the city. Divine honours were then granted him; and an altar was erected on the place where his body was burnt, where afterwards was erected a column inscribed. To the father of his country.

He endeagroß the power entirely into his own hand.

In the mean time Antony, who had excited this yours to en- flame, resolved to make the best of the occasion. Having gained the people by his zeal in Casfar's cause. he next endeavoured to bring over the fenate, by a feeming concern for the freedom of the state. He therefore proposed to recal Sextus, Pompey's only remaining fon, who had concealed himfelf in Spain fince the death of his father: and to grant him the command of all the fleets of the empire. His next flep to their confidence, was the quelling a fedition of the people, who rose to revenge the death of Cæsar, and putting their leader Amathus to death, who pretended to be the fon of Marius. He after this pretended to dread the refentment of the multitude, and demanded a guard for the fecurity of his person. The senate granted his request; and, under this pretext, he drew round him a body of 6000 resolute men, attached to his interest, and ready to execute his commands. Thus he continued every day making rapid strides to absolute power; all the authority of government was lodged in his hands and those of his two brothers alone, who thared among them the confular, tribunitian, and prætorian power. His yows to revenge Caclar's death feemed either postponed, or totally forgotten; and his Rome. only aim feemed to be to confirm himfelf in that power which he had thus artfully acquired. But an obstacle to his ambition feemed to arife from a quarter on which he least expected it. This was from Octavius or Oc-15 opposed tavianus Cælar, afterwards called Augustus, who was the by Octavia grand-nephew and adopted fon of Cælar, and was atauus. Apollonia when his kinfman was flain. He was then about 18 years old, and had been fent to that city to improve himself in the study of Grecian literature. Upon the news of Cæfar's death, notwithstanding the earnest diffusions of all his friends, he resolved to return to Rome, to claim the inheritance, and revenge the death of his uncle. From the former professions of Antony, he expected to find him a warm affiltant to his aims; and he doubted not, by his concurrence, to take fignal vengeance on all who had a hand in the confpiracy. However, he was greatly disappointed. Antony, whose projects were all to aggrandize himself, gave him but a very cold reception, and, instead of granting him the fortune left him by the will, delayed the payment of it upon various pretences, hoping to check his ambition by limiting his circumstances. But Octavianus, instead of abating his claims, even fold his own patrimonial estate, to pay such legacies as Carfar had left, and particularly that to the people. By thefe means he gained a degree of popularity, which his enemies vainly laboured to diminish, and which in fact he had many other methods to procure. His convertation was elegant and infinuating, his face comely and graceful, and his affection to the late dictator fo fincere, that every person was charmed either with his piety or his address. But what added still more to his interest was the name of Cæfar, which he had affumed, and, in confequence of which, the former followers of his uncle now flocked in great numbers to him. All these he managed with such art, that Antony now began to conceive a violent jealoufy for the talents of his young opponent, and fecretly laboured to counteract all his defigns. In fact, he did not want reason; for the army near Rome, that had long wished to fee the conspirators punished, began to turn from him to his rival, whom they faw more fincerely bent on gratifying their defires. Antony having procured also the government of Hither Gaul from the people, two of his legions that he had brought home from his former government of Macedonia, went over to Octavianus, notwithflanding all his remonstrances to detain them. This produced, as usual, interviews, complaints, recriminations, and pretended reconciliations, which only tended to widen the difference; fo that, at length, both fides prepared for war. Thus the ftate was divided into three diffinct factions; that of Octavianus, who aimed at procuring Cæfar's inheritance, and revenging his death; that of Antony, whose fole view was to obtain absolute power; and that of the conspirators, who endeavoured to reflore the fenate to its former authority.

Antony being raifed by the people to his new government of Cifalpine Gaul, contrary to the inclinations of the fenate, refolved to enter upon his province immediately, and oppose Brutus, who commanded a fmall body of troops there, while his army was yet entire. He accordingly left Rome, and marching this ther, commanded Brutus to depart. Brutus, being

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being purhard by Antony, he was at left believed in the city of Mutina, of which he fent word to the

In the mean while, Octavianus, who by this time had railed a body of 10,000 men, returned to Rome; and being resolved, before he attempted to take vengeance on the confpirators, if possible to diminish the power of Antony, began by bringing over the fenate to fecond his deligns. In this he fucceeded by the credit of Cicero, who had long hated Antony because he thought him the enemy of the fiate. According ly, by means of his eloquence, a decree was passed, ordering Antony to raise the fiege of Mu ina, to evaquate Cifalpine Gaul, and to await the further orders of the fenate upon the banks of the Rubicon. Antony treated the order with contempt; and initead of obeying, began to show his displeasure at being hitherto to fubmithive. Nothing now therefore remained for the fenate but to declare him an enemy to the state, and to fend Octavianus, with the army he had raifed, to curb his infolence. The latter was very ready to offer his army for this expedition, in order to revenge his own private injuries, before he undertook those or the public. The two confuls, Hirtius and Panfa, joined all their forces; and thus combined, they marched at the head of a numerous army, against Antony, into Cifalpine Gaul. After one or two ineffectual conflicts, both armies came to a general engagement; in which Antony was defeated, and compelled to fly to Lepidus, who commanded a body of forces in Further Gaul. This victory, however, which promifed the fenate fo much fuccels, produced effects very different from their expectations. The two confuls were mortally wounded; but Pansa, previous to his death, called Octavianus to his bed-fide, and advised him to join with Antony, telling him, that the senate only defired to depress both, by opposing them to each other. The price of the dving conful funk deep on his fpirits; fo that from that time he only fought a pretext to break with them. Their giving the command of a party of his army to Decimus Brutus, and their denying him a triumph foon after, ferved to alienate his mind entirely from the senate, and made him resolve to join Antony and Lepidus. He was willing, however, to try the fenate thoroughly, before he came to an open rupture; wherefore he fent to demand the confulthin, which was refused him. He then thought himself obliged to keep no measures with that affembly, but privately sent to found the inclinations of Antony and Lepidus, concerning a junction of forces, and found them as eager to affift as the fenate was to oppose him. Antony was, in fact, the general of both armies, and Lepidus was only nominally to, for his foldiers refused to obey him upon the approach of the former. But being affured of the affiltance of Octavianus upon their arrival in Italy, they foon croffed the Alps with an army of 17 legions, breathing revenge against all who had opposed

The fenate now be: an, too late, to perceive their error in difobliging Octavianus; and therefore gave him the confulfhip which they had so lately resufed, and, to prevent his joining with Antony, flattered him with new honours, giving him a power superior to all law. The first use Octavianus made of his new authority was

unable to the him, retired with his way; but to proceed a low for the condemnation of B. and the Rose Call as; after of ich, he joined his force and those of

> The meeting of thef three usurpers of their coun-They we try's freedom was ne. r Mutina, upon a little a and of recovered, the river Panarus. Their mufual luspiciors were the and divine cause of their meeting in this place. Lepidus first en with Leritered, and, finding all things fafe, made the figual for dus. the other two to approach. Octavianus Legan the conference, by thanking Amony for his zeal in putting Decimus Bruns to death; who, being abandoned by his army, was taken as he was doligning to cleane into Macedonia, and beheaded by Autony's command. of it was, that the supreme authority should be lodged The . . . d in their hands, under the title of the triumvirate, for trianthe space of five years; that Antony should have rate. Gaul; Lepidus, Spain; and Ocavianus, Atuca, and the Mediterrane n itlands. As for Italy, and the eastern provinces, they were to remain in common, u til their general enemy was entirely fubdued. But the last article of their union was a dreadful one. It was agreed that all their enemies should be destroyed; of which each presented a lift. In these were comprised Crients not only the enemies, but the friends of the triumvi-of the trirate, fince the partifans of the one were often found univeramong the oppolers of the others. Thus Lepidus gave up his brother Paulus to the vengernce of his colleague; Antony permitted the profeription of his uncle Lucius; and Octavianus delivered up the great Cicero. The most facred rights of nature were violated; 300 fenators, and above 2000 knights, were included in this terrible profcription; their fortunes were confilcated, and their murderers enriched with the spoil. Rome foon felt the effects of this infernal union, and the horrid cruelties of Marius and Sylla were renewed As many as could escape the cruelty of the triums is, fled thither into Macedonia to Brutus, or found refuge with young Pompey, who was now in Sicily, and covered the Mediterranean with his numerous navv. Their cruelties were not aimed at the men alone; but the fofter fex were in danger of being marked as objects either of avarice or refentment. They made out a lift of 1400 women of the best quality, and the richest in the city, who were ordered to give in an account of their fortunes, to be taxed in proportion. But this feemed fo unpopular a measure, and was fo firmly opposed by Hortenfia, who spoke ag inft it, that, inflead of 1400 women, they were content to tax only 4no. However, they made up the deficiency, by extending the tax upon men; near 100,000, as well citizens as firangers, were compelled to furnish supplies to the full version of their country's freedom. At la i, both the avarice and vengeance of the triumviri teem c'are that the profcription was at an end; and thus having deluged tile city with blood, Octavianes and Autony, leaving Lepidus to defend Rome in their abfence, marched with their army to oppose the confpiraters, who were now at the head of a formidable army in Brutus and Caffius, the principal of thefe, upon the They

death of Cæfar, being compelled to quit Rome, went appoind to into Greece, where they perfuaded the Roman fludents Britus and at Athens to declare in the cause of freedom; then Canau.

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their defigns.

parting,

Reme. parting, the former raifed a powerful army in Macedonia and the adjacent countries, while the latter went into Syria, where he foon became mafter of 12 legions, and reduced his opponent Dolabella to fuch firaits Smyrna, the fight of fuch a formidable force began to revive the declining spirits of the party, and to re-unite the two generals fill more closely, between whom there had been some time before a slight misunderstanding. In short, having quitted Italy like distress-ed exiles, without having one single foldier or one town that owned their command, they now found themselves at the head of a flourishing army, furnished with all the necessaries for carrying on the war, and in a condition to support a contest where the empire of the world depended on the event. This fuccefs in raifing levies was entirely owing to the justice, moderation, and great humanity of Brutus, who in every instance seemed studious of the happiness of his country.

It was in this flourishing state of their affairs that the conspirators had formed a resolution of going against Cleopatra, who, on her fide, had made great preparations to affilt their opponents. However, they were diverted from this purpole by an information that Octavianus and Antony were now upon their march, with 40 legious to oppose them. Brutus now, therefore, moved to have their army pass over into Greece and Macedonia, and there meet the enemy; but Cassius so far prevailed as to have the Rhodians and Lycians first reduced, who had refused their usual contribution. This expedition was immediately put in execution, and extraordinary contributions were raifed by that means, the Rhodians having fearce any thing left but their lives \*. The Lycians fuffered fill more feverely; for having that themselves up in the city of Xanthus, they defended the place against Brutus with such fury, that neither his art nor intrcaties could prevail upon them to furrender. At length, the town being fet on fire, by their attempting to burn the works of the Romans, Brutus, instead of laying hold on this opportunity to fform the place, made every effort to preferve it, intreating his foldiers to try all means of extinguishing the fire: but the desperate phrenzy of the citizens was not to be mollified. Far from thinking themselves obliged to their generous enemy for the efforts which were made to fave them, they resolved to perish in the flames. Wherefore, instead of extinguishing, they did all in their power to augment the fire, by throwing in wood, dry reeds, and all kinds of fuel. Nothing could exceed the diffress of Brutus upon feeing the townsmen thus resolutely bent on destroying themselves : he rode about the fortifications, firetching out his hands to the Xanthians, and conjuring them to have pity on themfelves and their city; but, infenfible to his expostulations, they rushed into the slames with desperate obstinacy, and the whole foon became an heap of undiffinguifhable ruin. At this horrid freetacle, Brutus offered a reward to every foldier who would bring him a Lycian alive. The number of those whom it was possible to fave from their own fury amounted to no more than

Brutus and Cashus met once more at Sardis, where, after the usual ceremonies were passed between them. they resolved to have a private conference together, when, after much altercation, they were at fast per- Rome. feetly reconciled. After which, night coming on, Caffins invited Brutus and his friends to an entertainment. Upon retiring home it was, that Brutus, as Plutarch tells the flory, faw a spectre in his tent. It was in Brutus sees the dead of the night, when the whole camp was per-a spectre. feetly quiet, that Brutus was employed in reading by a lamp that was just expiring. On a sudden he thought he heard a noise as if somebody entered; and looking towards the door, he perceived it open. A gigantic figure, with a frightful aspect, stood before him, and continued to gaze upon him with filent feverity. At last Brutus had courage to speak to it: " Art thou a deemon or a mortal man? and why comest thou to me?" "Brutus," replied the phantom, "I am thy evil genius, thou shalt see me again at Philippi." "Well then," answered Brutus, without being discomposed, "we shall meet again." Upon which the phantom vanished; and Brutus calling to his fervants, asked if they had feen any thing; to which replying in the negative, he again refumed his studies. But as he was struck with so strange an occurrence, he mentioned it the next day to Caffius, who, being an Epicurean, afcribed it to the effect of imagination too much exercised by vigilance and anxiety. Brutus appeared fatisfied with this folution of his late terrors; and, as Antony and Octavianus were now advanced into Macedonia, they foon after paffed over into Thrace, and advanced to the city of Philippi, near which the forces of the triumvirs were posted.

A battle foon enfued; which the republicans were defeated, and Cassius killed, as is related in the article

The first care of Brutus, when he became the fole The regeneral, was to affemble the dispersed troops of Caf-publicans fius, and animate them with fresh hopes of victory. As defeated. they had loft all they poffessed by the plundering of their camp, he promised them 2000 denarii each man to make up their leffes. This once more inspired them with new ardour; they admired the liberality of their general, and with loud shouts proclaimed his former intrepidity. Still, however, he had not confidence fufficient to face the adverfary, who offered him battle the enfuing day. His aim was to starve his enemies, who were in extreme want of provisions, their fleet having been lately defeated. But his fingle opinion was overruled by the reft of his army, who now grew every day more confident of their strength, and more arrogant to their new general. He was, therefore, at last, after a respite of 20 days, obliged to comply with their solicitations to try the sate of the battle. Both armies being drawn out, they remained a long while opposite to each other without offering to engage. It is faid that he himfelf had loft much of his natural ardour by having again feen the spectre the night preceding: however, he encouraged his men as much as poffible, and gave the fignal for battle within three hours. of funfet. Fortune again declared against him; and They are the two triumviri expressly ordered by no means to suf-defeated a fer the general to cscape, for fear he should renew the second war. Thus the whole body of the enemy feemed chief-time. ly intent on Brutus alone, and his capture seemed inevitable. In this deplorable exigence, Lucilius his friend refolved, by his own death, to effect the general's delivery. Upon perceiving a body of Thracian borfe

\* See Rhodes.

closely pursuing Brutus, and just upon the point of taking him, he boldly threw himfelf in their way, telling them that he was Brutus. The Thracians, overjoved with fo great a prize, immediately dispatched some of their companions, with the news of their fuccels, to the army. Upon which, the ardour of the purfuit now abating, Antuny marched out to meet his prisoner; fome filently deploring the fate of fo virtuous a man; others reproaching that mean defire of life for which he conlented to undergo captivity. Antony now feeing the Thracians approach, began to prepare himself for the interview; but the faithful Lucilius, advancing with a cheerful air, owned the deceit that he had put upon him: on which the triumvir, ftruck with fo much fidelity, pardoned him upon the spot; and from that time forward loaded him with benefits, and honoured him with his friendship.

In the mean time Brutus, with a fmall number of friends, passed over a rivulet, and, night coming on, sat down under a rock which concealed him from the purfuit of the enemy. After taking breath for a little time, be fent out one Statilius to give him some information of those that remained; but he never returned, being killed by a party of the enemy's horse. Brutus judging very rightly of his fate, now resolved to die likewise. and spoke to those who stood round him to lend him their last fad affistance. None of them, however, would render him so melancholy a piece of service. At last one Strato, averting his head, prefented the fword's point to Brutus; who threw himfelf upon it, and imme-

diately expired.

From the moment of Brutus's death the triumviri began to act as fovereigns, and to divide the Roman dominions between them, as theirs by right of conquest. However, though there were apparently three who thus participated all the power, yet, in fact, only two were actually possessed of it; fince Lepidus was at first admitted merely to curb the mutual jealousy of Antony and Octavianus, and was possessed neither of interest in the army nor authority among the people. Their first care was to punish those whom they had formerly marked for vengeance. The head of Brutus was fent to Rome to be thrown at the foot of Cæfar's statue. His ashes, however, were sent to his wife Portia, Cato's daughter, who afterwards killed herfelf by fwallowing burning coals. It is observed, that of all those who had a hand in the death of Caefar, not one

died a natural death.

The power of the triumviri being thus established upon the ruins of the commonwealth, Antony went into Greece, and fpent fome time at Athens, converfing among the philosophers, and affifting at their disputes in person. From thence he passed over into Asia, where all the monarchs of the east, who acknowledged the Roman power, came to pay him their obedience. In this manner he proceeded from kingdom to kingdom, attended by a crowd of fovereigns, exacting contributions, distributing favours, and giving away crowns with capricious infolence. He presented the kingdom of Cappadocia to Sylenes, in prejudice of Ariarathes, only because he found pleasure in the beauty of Glaphyra, the mother of the former. He fettled Herod in the kingdom of Judea, and supported him against every opposer. But among all the fovereigns of the cast who shared his favours, none had to large a part as Cleopatra, the cele- R m brated queen of Egypt.

It happened that Serapion, her governor in the island of Cyprus, had formerly furnished some success to the conspirators; and it was thought proper that the should answer for his conduct on that occasion. Accordingly, having received orders from Antony to come and clear herfelf of this imputation of infidelity, the readily complied, equally confcious of the goodness of her cause and the power of her beauty. She had already experienced Has an inthe force of her charms upon Caefar and Pompey's eldeft terriew fon ; and the addition of a few years fined that time had with Gleonot impaired their luttre. Antony was now in Tarfus, a "atra. city of Cilicia, when Cleopatra refolved to attend his court in person. She failed down the river Cydnus, at the mouth of which the city flood, with the most sumptuous pageantry. Her galley was covered with gold; the fails were of purple, large, and floating in the wind. The oars of filver kept tune to the found of flutes and cymbals. She herfelf lay reclined on a couch foangled with stars of gold, and with such ornaments as poets and painters had usually ascribed to Venus. (In each fide were boys like cupids, who fanned her by turns; while the most beautiful nymphs, dressed like Nereids and Graces, were placed at proper diffances around her. Upon the banks of the river were kept burni g the most exquisite perfumes, while an infinite number of people gazed upon the fight. Antony was captivated with her beauty; and, leaving all his business to fatisfy his passion, shortly after followed her into Egypt.

While he thus remained idle, Octavianus, who took upon him to lead back the veteran troops and fettle them in Italy, was affiduoufly employed in providing for their subsistence. He had promised them lands at home, as a recompense for their past services; but they could not receive new grants, without turning out the former inhabitants. In consequence of this, multitudes of women, with children in their arms, whose tender years and innocence excited universal compaffion, daily filled the temples and the streets with their diffresses. Numbers of husbandmen and thepherds came to deprecate the conqueror's intention, or to obtain an habitation in some other part of the world. Amongst this number was Virgil the poet, who in an humble manner begged permission to retain his patrimonial farm : Virgil obtained his request; but the rest of his countrymen, of Mantua and Cremona, were turned out

without mercy.

Italy and Rome now felt the most extreme miseries; Misties the infolent foldiers plundered at will; while Sextus unamed Pompey, being mafter of the fea, cut off all foreign by the Rocommunication, and prevented the people's receiving mans. their usual supplies of corn. To these mischiess were added the commencement of another civil war. Fulvia, the wife of Antony, who had been left behind him at Rome, had felt for some time all the rage of jealousy, and re'olved to try every method of bringing back her husband from the arms of Cleopatra. She confidered a breach with Octavianus as the only probable means of roufing him from his lethargy; and accordingly, with the affiltance of Lucius her bro her in law, who was then conful, and entirely devoted to her interest, she hegan to fow the feeds of diffention. The pretent ways that Antony should have a share in the distribution of

Brutus kills hime felf.

Antony's extravagance.

1 180 T

pey went to fecure his newly ceded province to his interest. It was on this quarter that fresh motives were given for renewing the war. Antooy, who was oblig d by treaty to quit Peloponnefus, refused to evacuate

it till Pompey had fatished him for fuch debts as were due to him from the inhabitants. This Pompey would by no means compay with; but immediately fitted out ting off fuch corn and provisions as were configued to I aly. Thus the grievances of the poor were again re-

newed; and the people began to complain, that initead of three tyrants they were now oppressed by four. In this exigence, Octavianus, who had long medi-

tated the best means of diminishing the number, re olved to begin by getting rid of Pompey, who kept the flate in continual alarms. He was mafter of two fleets; one of which he had caused to be built at Ravenna; and another which Menodorus, who revolted from Pompey, brought to his aid, His first attempt was to invade Sicily; but being overpowered in his passage by Pompey, and afterwards thattered in a florm, he wasobliged to defer his defigns to the enfining year. During this interval be was reinforced by a fleet of 120ships, given him by Antony, with which he resolved once more to invade Sicily on three feveral quarters-But fortune feemed ftill determined to oppose him. He was a fecond time disabled and fhattered by a fform : which fo raifed the vanity of Pompey, that he began to tayle himfelf the fon of Nepiune. However, Och vianus was not to be intimidated by any diffraces; for he gave the command of both to Agrippa, his faithful friend and affociate in war. Agrippa proved hisfelf worthy of the trust reposed in him : he began his operations by a victory over Pompey; and, though he was shortly after worsted himself, he soon after gave his advertary a complete and final overthrow. Thus undone, Pompey resolved to fly to Antony, from whom he expected refuge, as he had formerly obliged that triumvir by giving protection to his mother. However, he tried once more, at the head of a finall body of men, to make himfelf independent, and even furprifed Antony's officers who had been fent to accept of his fubmillions. Nevertheless, he was at last abandoned by Sextus his foldiers, and delivered up to Titus, Antony's lieute- Pompeius nant, who shortly after caused him to be slain.

The death of this general removed one very power, and taken ful obstacle to the ambition of Octavianus, and he re-primer. folved to take the earliest opportunity to get rid of the rest of his associates. An offence was soon furnished by Lepidus, that ferved as a fufficient protext for depriving him of his share in the triumvirate. Being now at the head of 22 legions, with a flrong body of cavalry, he idly supposed that his present power was more than an equivalent to the popularity of Od vianus. He therefore refolved upon adding Sicily, where he then was, to his province; pretending a right, as having first invaded it. His colleague fent to expossulate upon these proceedings; but Lepidus siercely replied, 'that he was determined to have his share in the administration, and would no longer fubmit to let one alone poffefs all the authority.' Octavianus was previously informed of the disposition of Lepidus's soldiers; for he

had, by his fecret intrigues and largefles, entirely at-

tached them to himself. Wherefore, without further

Rone, lands as well as Octavianus. This produced ome negociations between them; Octavianus offered to make the veterans themfolives umpires in the dispute. Lucius refused to acquiesce; and being at the head of more than fix legions, molly composed of fuch as had been difthus to accept of whatever terms he should offer. Thus a new war was excited between Octavianus and Antony; or, at leath, the generals of the latter affumed victorious: Lucius was hemmed in between two armies, and conftrained to re reat to Perufia, a city of Etruria, where he was closely befieged by the opposite party. He made many delperate fallies, and Fulvia did all in her power to relieve him, but without fuccefs. He was at last, therefore, reduced to such extremity by famine, that he came out in person and delivered himself up to the mercy of the conqueror. Octavianus received him very honourably, and generously pardoned him and all his followers. Thus having concluded the war in a few months, he returned in triumph to Rome.

> Antony, who, during this interval, was revelling in all the studied luxuries procured him by his insidious mistress, having heard of his brother's overthrow, and his wife's being compelled to leave Italy, was rejolved to copole Ostavianus without delay. He accordingly will at the head of a confiderable fleet from Alexandriz to Tyre, from thence to Cyprus and Rhodes, and had an inter iew with Fulra, his wife at Athens. He much blamed her for occasioning the late diforders, testified the u'most contempt for her person, and, leaving her upon her death-bed at Sievon, haftened into Italy to fight Octavianus. They both met at Brundufium; and it was now thought that the flames of a civil war were going to blaze out once more. The forces of Antony were numerous, but mostly newly raifed; however, he was affelted by Sextus Pompeius, who in these oppositions of interes's was daily coming into power. Octavianus was at the head of those veterans who had always been irrefilible, but who feemed no way disposed to fight against Antony their former general. A negociation was therefore proposed; and a reconciliation was effected. All offences and affronts were mutually forgiven; and to cement the union, a marriage was concluded between Antony and Octavia, the fifter of Octavianus. A new division of the Roman empire was made between them; Octavianus was to have the command of the west, Antony of the east, while Lepidus was obliged to content himfelf with the provinces in Africa. As for Sextus Pompeius, he was permitted to retain all the islands he had already possessed, together with Peloponnesus: he was also granted the privilege of demanding the confulship in his absence, and of discharging that office by any of his frie ds. It was likewife stipulated to leave the fea open, and pay the people what corn was due out of Sicily. Thus a general peace was concluded, to the great fati faction of the people, who now expected a ceffation from all their calamities,

This calm leemed to continue for fome time: Antony led his forces against the Parthians, over whom his lieutenant, Ventidius, had gained great advantages. Octavianus drew the greatest part of his army into Gaul, where there were some disturbances; and Pom-

The chaded ancw.

delay, he with great boldness went alone to the camp of Levilus, and with no other affidance than is priv. te o unties, and the authority he had gained by his former victories, he refuly d to depose his rival. The foldiers throng d round him with the most dutiful alacrity, while Le das hattened to prevent their co chion. But Octivian is, though he received a wound from one of the centurions, went with great presence of mind to the place where the military enfigns were planted, and, ounfining o e of them in the air, all the legionary foldiers ran in crowds and faluted him as their general. Lepidus being thos abandoned by his men, divetted himfelf of all the marks of his authority, which he could no longer keep, and fubmishively threw himself at the feet of Oct vianes. This general fuared his life, notwithflanding the remondrances of his army; but deprived him of all his tormer authority, and

banished him to Circaum.

Octavianus was received upon his return to Rome with universal joy; the fenators met him at the gates, ed, crowned with garlands of flowers : and after having returned thanks to the gods, waited upon him to his palace. There remained now but one obflacle to his ambition, which was A cony, whom he resolved to remove, and for that purpole began to render his character as contemptible as he possibly could at Rome. In fact, Antony's conduct did not a little contribute to promote the endeavours of his ambitious partner in the flate. He had marched against the Parthians with a prodigious army; but was forced to return with the loss of the fourth part of his forces, and all his baggage \*. This extremely diminished his reputation; but his making a triumphal entry into Alexandria foon after, entirely difguited the citizens of Rome. However. Antony feemed quite regardless of their refentment : totally difregarding the bufiness of the state, he fpent whole days and nights in the company of Cleopatra, who fludied every art to increase his passion, and vary his entertainments. Not contented with sharing in her company all the delights which Egypt could afford, Antony was resolved to enlarge his sphere of luxury, by granting her many of those kingdoms which belonged to the Roman empire. He gave her all Phrenicia, Celo-Syria, and Cyprus; with a great part of Cilicia, Arabia, and Judea; gifts which he had no right to bestow, but which he pretended to grant in imitation of Hercules. This complication of vice and folly at length totally exasperated the Romans; and Octavianus, willing to take advantage of their refentment, took care to exaggerate all his defects. At length, when he found the people fufficiently irritated against him, he resolved to fend Octavia, who was then at Rome, to Antony, as if with a view of reclaiming her husband; but, in fact, to furnish a sufficient pretext of declaring war against him, as he knew she would be

difmiffed with contempt.

Antony was now in the city of Leucopolis, revelling with his infidious paracour, when he heard that Octavia was at Athens, upon her journey to viit him. This was very unwelcome news to him as well as to Cleopatra; who, fearing the charms of her rival, endeavoured to convince Antony of the strength of her paffion. He frequently caught her in teas, which she seemed as if willing to hide; and often intreated her to sell him the

cause, which she stemed willing to suppress. These artifices, together with the ceaterels flattery and importunity of her creatures, prevailed to much upon Anony's without teeing her, and a tucked himfelf ttill more clofely to Cleopatra than before. His ridiculous pallion now began to have no bounds. He refolved to own her for his wife, and entirely to reondiate Octavia. He Divorces accordingly affembled the people of Alexan ris in the day public theatre, where was raifed an alcove of filver, un-ris Class der which were placed two thrones of gold, one for para. himself and the other for Cleopatra. There he seated himfelf, dreifed like Becchis, while Cleopatra fat beside him cooled in the ornaments and attributes of Isis, the declared her queen of all the countries which he had already bestowed upon her; while he affociated Cielario, her ton by Colar, as her partner in the government. gave the title of king of kings, with very extensive dominio is; and, to crown his abhirdities, he fent a minute account of his proceedings to the two confuls at mary dignity; new luxuries and pageantries were now therefore fludied, and new marks of profution found out: not less than 60,000l. of our money were lavilled upon one fingle entertainment; it is faid, upon this occasion, that Cicopatra dissolved a pearl of great value in vinegar, and drank it off. But we are told of one circumilance that might well reprefs their delights, and teach mankind to relish the beverage of virtue, however fimple, above their greatest luxuries. He was sufpicious of being poiloned in every meal; he feared Cleopatra, whom he so much loved, and would eat nothing without having it previously tasted by one of his attendants.

In the mean time Octavianus had now a fufficient Octavianus pretext for declaring war; and informed the fenate of referees to his intentions. However, he deferred the execution of upon him. his defign for a while, being then employed in quelling an infurrection of the Illyrians. The following year was chiefly taken up in preparations against Antony, who, perceiving his defign, remonstrated to the fenate, that he had many causes of complaint against his coileague, who had feized upon Sicily without offering him a thare; alloging that he had also dispossessed Levidus, and kept to himself the province he had commanded; and that he had divided all Italy among his own foldiers, leaving nothing to recompense those in Asia. To this complaint Octavianus was contented to make a farcattic answer; implying, that it was abfurd to complain of his distribution of a few trifling districts in Italy, when Antony having conquered Parthia, he might now reward his foldiers with cities and provinces. The farcasm upon Antony's misfortunes in Parthia so provoked him, that he ordered Canidius, who commanded his army, to march without intermission into Europe; while he and Cleopatra followed to Samos, in order to prepare for carrying on the war with vigour. When arrived there, it was ridiculous enough to behold the odd mixture of preparations for pleasure and for war. On one fide all the kings and princes from Europe to the Euxine fea had orders to fend him thither supplies both of men, provisions and arms; on the other side, all the comedians, dancers, buildons, and muficians of

Lepidus defeated and banithed.

An'ony's imprudent conduct.

\* See Parthia.

Greece, were ordered to attend him. Thus, frequently, when a fhip was thought to arrive laden with foldiers, arms, and ammunition, it was found only filled with players and theatrical machinery. When news was expected of the approach of an army, messengers only arrived with tidings of a fresh quantity of venilon. The kings who attended him endeavoured to gain his favour more by their entertainments than their warlike preparations; the provinces strove rather to please him by facrificing to his divinity, than by their alacrity in his defence; fo that tome were heard to fay, "What rejoicings would not this man make for a victory, when he thus triumphs at the eve of a dangerous war !" In thort, his best friends now began to forfake his in-

His delay at Samos, and afterwards at Athens, where he carried Cleopatra to receive new honours, was extremely favourable to the arms of Octavianus. This general was at first scarcely in a disposition to oppose him, had he gone into Italy; but he foon found time to put himself in a condition for carrying on the war, and fhortly after declared it against him in form. All Antony's followers were invited over to join him, with great promises of rewards: but they were not declared enemies, partly to prevent their growing desperate, and partly to give a show of moderation to his own party. At length both found themselves in readiness to begin the war, and their armies were answerable to the empire they contended for. The one was followed by all the forces of the east; the other drew all the strength of the west to support his pretensions. Antony's force composed a body of 100,000 foot and 12,000 horse; while his fleet amounted to 500 ships of war. The army of Octavianus mustered but 80,000 foot, but equalled his adverfary's in the number of cavalry; his fleet was but half as numerous as Antony's; however, his ships were better built, and manned with better soldiers.

240 Antony Actium.

The great decifive engagement, which was a naval defeated at one, was fought near Actium, a city of Epirus, at the entrance of the gulf of Ambracia. Antony ranged his ships before the mouth of the gulf; and Octavianus drew up his sleet in opposition. Neither general affumed any fixed station to command in; but went about from hip to thip wherever his prefence was neceffary. In the mean time, the two land armies, on opposite sides of the gulf, were drawn up, only as spectators of the engagement; and encouraged the fleets by their shouts to engage. The battle began on both fides with great ardour, and after a manner not practifed upon former occasions. The prows of their veffels were armed with brazen points; and with thefe they drove furiously against each other. In this conflict the ships of Antony came with greater force, but those of Octavianus avoided the shock with greater dexterity. On Antony's fide, the sterns of the ships were raifed in form of a tower; from whence they threw arrows from machines for that purpole. Those of Octavianus made use of long poles hooked with iron, and fire pots. They fought in this manner for some time with equal animofity; nor was there any advantage on either fide, except a fmall appearance of diforder in the centre of Antony's fleet. But all of a fudden Cleopatra determined the fortune of the day. She was feen flying from the engagement attended by 60 fail; flruck, perhaps, with the terrors natural to her fex : but what in- Rome. creased the general amazement was, to behold Antony himself following soon after, and leaving his fleet at the mercy of the conquerors. The engagement, notwithstanding, continued with great obstinacy till five in the evening; when Antony's forces, partly constrained by the conduct of Agrippa, and partly perfuaded by the promifes of Octavianus, fubmitted to the conqueror. The land forces foon after followed the example of the navy; and all yielded to the conqueror without firiking

a blow the fourth day after the battle. When Cleopatra fled, Antony purfued her in a five-

oared galley; and coming along fide of her fhip entered, without feeing or being feen by her. She was in the stern, and he went to the prow, where he remained for some time filent, holding his head between his hands. In this manner he continued three whole days: during which, either through indignation or shame, he neither faw nor spoke to Cleopatra. At last, when they were arrived at the promontory of Tenarus, the queen's female attendants reconciled them, and every thing went on as before. Still, however, he had the confolation to suppose his army continued faithful to him; and accordingly dispatched orders to his lieutenant Canidius to conduct it into Afia. However, he was foon undeceived when he arrived in Africa, when he was informed of their fubmission to his rival. This account fo transported him with rage, that he was hardly prevented from killing himfelf; but at length, at the entreaty of his friends, he returned to Alexandria, in a very different fituation from that in which he had left it fome time before. Cleopatra, however, feemed to retain that fortitude in her misfortunes which had utterly abandoned her admirer. Having amaffed confiderable riches by means of confifcation and other acts of violence, the formed a very fingular and unheard of project; this was to convey her whole fleet over the ishmus of Suez into the Red fea, and thereby fave herfelf in another region beyond the reach of Rome, with all her treasures. Some of her vessels were actually transported thither, purfuant to her orders; but the Arabians having burnt them, and Antony diffuading her from the defign, five abandoned it for the more improbable scheme of defending Egypt against the conqueror. He resolves She omitted nothing in her power to put his advice in to defend practice, and made all kinds of preparations for war; against the at least hoping thereby to obtain better terms from Oc-conquerortavianus. In fact, she had always loved Antony's fortunes rather than his person; and if she could have fallen upon a method of faving herfelf, though even at his expence, there is no doubt but the would have embraced it with gladness. She even fill had fome hopes from the power of her charms, though she was arrived almost at the age of 40; and was defirous of trying upon Octavianus those arts which had been so successful with the greatest men of Rome. Thus, in three embaffies which were fent one after another from Antony to his rival in Afia, the open had always her fecret agents, charged with particular propofals in her name. Antony defired no more than that his life might be spared, and to have the liberty of passing the remainder of his days in obfeurity. To these proposals Octavianus made no reply. Cleopatra fent him also public proposals in fayour of her children; but at the fame time privately refigned him her crown, with all the enfigns of royalty.

Pelufium

given up to Octavi-

anus.

To the queen's public proposal no answer was given; to her private offer he replied, by giving her affurances of his favour in case she fent away Antony or put him to death. These negociations were not so private but they came to the knowledge of Antony, whole jealouly and rage were now heightened by every concurrence. He built a small folitary house upon a mole in the fez; and there he passed his time, shunning all commerce with mankind, and professing to imitate Timon the man-hater. However his furious jealouly drove him even from this retreat into fociety; for hearing that Cleopatra had many iccret conferences with one Thyrfus, an emissary from Octavianus, he feized upon him, and having ordered him to be cruelly scourged, he fent him back to his patron. At the fame him he fent letters by him, importing, that he had chattifed Thyrfus for infulting a man in his misfortunes; but withal he gave his rival permission to avenge himself, by scourging Hipparchus, Antony's freeman, in the fame manner. The revenge, in this case, would have been highly pleafing to Antony, as Hipparchus had left him to join the fortunes of his more fuccelsful rival.

Meanwhile, the operations of the war were carried vigorously forward, and Egypt was once more the theatre of the contending armies of Rome. Gallus, the lieutenant of Octavianus, took Paretonium, which opened the whole country to his incursions. On the other fide, Antony, who had still considerable forces by fea and land, wanted to take that important place from the enemy. He therefore marched towards it, flattering himfelf, that as foon as he should show himfelf to the legions which he had once commanded, their affection for their ancient general would revive. He approached therefore, and exhorted them to remember their former vows of fidelity. Gallus, however, ordered all the trumpets to found, in order to hinder Antony from being heard, fo that he was obliged to retire.

Octavianus himfelf was in the mean time advancing with another army before Pelufium, which, by its strong situation, might have retarded his progress for fome time. But the governor of the city, either wanting courage to defend it, or previously instructed by Cleopatra to give it up, permitted him to take poffeffion of the place; fo that Octavianus had now no obflacle in his way to Alexandria, whither he marched with all expedition. Antony, upon his arrival, fallied out to oppose him, fighting with great desperation, and putting the enemy's cavalry to flight. This flight advantage once more revived his declining hopes; and, being natually vain, be re-entered Alexandria in triumph. Then going, all armed as he was, to the palace, he embraced Cleopatra, and presented he. a so'dier who had diffinguished himself in the late engagement. The queen rewarded him very magnificently; prefenting him with an head-piece and breaft-plate of gold. With thefe, however, the foldier went off the next night to the other army. Antony could not bear this defection without fresh indignation; he resolved, therefore, to make a bold expiring effort by fea and land, but previoufly offered to fight his adversary in fingle combat. Octavianus too well knew the inequality of their fituations to comply with this forlorn offer; he only, therefore, coolly replied, that Antony had ways enough to

The evening before the day appointed for the last

desperate attempt, he ordered a grand entertainment to Rome. be prepared. At day-break he potted the few troops he had remaining upon a rifing ground near the city: Antony defrom whence he fent orders to his galleys to engage the ted by enemy. There he waited to be a spectator of the com-his fleet. bat; and, at first, he had the fatisfaction to fee them advance in good order; but his approbation was foon turned into rage, when he faw his thins only faluting those of Octavianu, and both fleets uniting together, and failing back into the harbour. At the very fame time his cavalry deferted him. He tried, however, to lead on his infantry; which were easily vanquished, and he himfelf compelled to return into the town. His anger was now ungovernable; he could not help crying out aloud as he paffed, that he was betraved by Cleopatra, and delivered by her to those who, for her fake alone, were his enemies. In these suspicions he was not deceived; for it was by fecret orders from the outen

that the fleet had paffed over to the enemy,

of Antony's jealoufy; and had, some time before, prepared a method of obviating any fudden fallics it might produce. Near the temple of Ifis she had erected a building, which was feemingly defigned for a fepulchre. Hither the removed all her treasure and most valuable effects, covering them over with torches, faggots, and other combuttible matter. This fepulchre the defigned to answer a double purpose; as well to foreen her from the fudden refortments of Antony, as to make Octavianus believe that the would burn all her treasures in case he refused her proper terms of capitulation. Here, therefore, the retired from Antony's prefent fury; shutting the gates, which were fortified with bolts and bars of iron: but in the mean time gave orders that a report should be spread of her death .-This news, which foon reached Antony, recalled all his former love and tenderness. He now lamented her death with the same violence he had but a few minutes before seemed to defire it; and called one of his freedmen, named Eros, whom he had by oath engaged to kill him whenever fortune should drive him to this last refource. Eros being now commanded to perform his promife, this faithful follower drew the fword, as if going to execute his orders; but turning his face, plunged it into his own bosom, and died at his master's feet. Antony for a while hung over his faithful fervant, and, commending his fidelity, took up the fword, Stabehimwith which flabbing himfelf in the belly, he fell back-felt with ward upon a little couch. Though the wound was his tword. mortal, yet the blood stopping he recovered his spirits, and earnedly conjured those who were come into the room to put an end to his life; but they all fled, being feized with fright and horror. He therefore continued in agonies for lome time; till he was informed by one of the queen's fecretaries that his miftrefs was fill alive. He then carneftly defired to be carried to the place where the was. They accordingly brought him to the gate of the sepulchre; but Cleopatra, who would not permit it to be opened, appeared at the window, and threw down cords in order to pull him up. In this manner, aftited by her two female attendants, the raifed him all bloody from the ground; and while yet sulpended in the air, he continued firetching out his hands to encourage her. Cleopatra and her maids had only juil frength fufficient to raife him; and at last, with much flraining, they

He dies.

effected their purpose, and carried him to a couch, on which they gently laid him. Here the gave way to her forrow, tearing her clothes, beating her breaft, and kiffing the wound of which he was dying. She called upon him as her lord, her hutband, her emperor, and feemed to have forgot her own diffrestes in the greatness of his fufferings. Antony entreated her to moderate the transports of her grief, and asked for some wine. After he had drank, he entreated Cleopatra to endeavour to preferve her life, if the could 30 it with honour; and recommended Proculus, a friend of Octavianus, as one the might rely on to be her interceifor. Just as he had done speaking, he expired; and Proculus made his appearance by command of Octavianus, who had been informed of Antony's desperate conduct. He was fent to try all means of getting Cleopatra into his power; his master having a double motive for his iolicitude on this occasion : one, to prevent her destroying the treafures the had taken with her into the tomb; the other, to preferve her perion as an ornament to grace his triumph. Cleopatra, however, was upon her guard, and would not confer with Proculus, except through the gate, which was well fecured. In the mean time, while he defignedly drew out the conference to some length, and had given Gallus, one of his fellow foldiers, directions to carry on the conversation in his absence, he entered with two more by the window at which Antony had been drawn up. As foon as he was entered, he ran down to the gate; and one of the women crying out, that they were taken alive, Cleopatra, perceiving what had happened, drew a poniard, and attempted to flab her-

to acquaint his mafter with his proceedings. Octavianus was extremely pleafed at finding her in his power : he fent Epaphroditus to bring her to his palace, and to watch her with the utmost circumspection. He was likewise ordered to use her, in every respect, with that deference and fubmillion which were due to her rank, and to do every thing in his power to render her captivity agreeable. She was permitted to have the hononr of graning Antony the rites of burial, and furnished with every thing she defired, that y as becoming his dignity to receive, or her love to offer. Yet fill the languished under her new confinement. Her excessive forrow, her many losses, and the blows she had given her bosom, produced a fever which she seemed villing to increase. She resolved to abstain from taking any nourishment, under the pretence of a regimen neces-fary for her disorder; but Octavianus being made acquainted with the real motive by her physician, began to threaten her with regard to her children, in case the perfifted. This was the only punishment that could now affect her; the allowed herfeli to be treated as they thought proper, and received whatever was preferiled for her recovery,

felf; but Proculus prevented the blow, and gently remon-

strated that she was cruel in refusing so good a prince

as his mafter was the pleasure of displaying his clemen-

cy. He then forced the poniard out of her hand, and

examined her clothes to be certain she had no poison

about her. Thus leaving every thing fecured, he went

In the mean time Octavianus made his entry into Alexandria; taking care to mitigate the fears of the inhabitants, by converfing familiarly as he went along with Areus, a philosopher, and a native of the place.

The citizens, however, trembled at his approach ; and when be placed himielt upon the tribunal, they profliated themselves, with their faces to the ground, before him, like criminals who waited the lentence of their execution. Octavianus preciently ordered them to rife; telling them, that three movives induced him to pardon them: His respect for Alexander, who was the fourtier of their city; his admiration of its beauty; and bis friendthip for Areus, their fellow-citizen. Two only of particular note were put to death upon this occasion; Amony's eldelt fon Antvllus, and Cariario, the fon of Julius Cæfar; both betraved into his hands by their respective tutors, who themselves suffered for their periody fhortly after. As for the rest of Cleopaura's children, he treated them with great gentleness, leaving them to the care of those who were entrusted with their education, who had orders to provide them with every thing fuitable to their birth. When the was recovered from her late indisposition, he came to visit her in person .--Cleopatra had been preparing for this interview, and made use of every method she could think of to propitiate the conqueror, and to gain his affection; but in vain. However, at his departure, Octavianus imagined that he had reconciled her to life, and to the indignity of being shown in the intended triumph, which he was preparing for on his return to Rome: but in this he was deceived. Cleopatra, all this time, had kept a correfpondence with Dolabella, a young Roman of high birth, in the camp of Octavianus; who, perhaps, from compassion, or stronger motives, was interested in the misfortunes of that princefs. From him the learnt the intentions of Octavianus, and that he was determined to fend her off in three days, together with her children, to Rome. She now therefore determined upon dying ; but previously intreated permission to pay her oblations at Antony's tomb. This request being granted her, the was carried with her two female attendants to the stately monument where he was laid. There the threw herfelf upon his coffin, bewailed her captivity, and renewed her protestations not to furvive him. She then crowned the tomb with garlands of flowers; and having kiffed the coffin a thousand times, she returned home to execute her fatal refultion. Having bathed, and ordered a fumptuous banquet, the attired herelf in the most splendid manner. She then scasted as vin. 1; and foon after ordered all but her two attendants, Charmion and Iras, to leave the room. Then, having previoutly, ordered an afo to be fecretly conveyed to her in a basket of fruit, the sent a letter to Octavianus, informing him of her fatal purpose, and desiring to he buried in the same temb with Artouv. Octavianus, upon recei- 212 ving this letter, inftantly dispatched mellengers to pre. Her death, vent her, but they arrived too late. Upon entering the chamber, they beheld Cleopatra lying dead upon a gilded couch, arrayed in her royal tobes. Near her, Iras, one of her faithful attendant was three hed liveles at the feet of her mistress; and Charmion lerfelf, almost expiring, was settling the diagen to on Cleopatra's head. She died or the age of thirty one, after having reigned twenty to ves Her deep put an end to the mon rehy in Egypt, which had flourished there from time immemorial. OPavisnus feemed much to ubled at Clearatra's

death, as it deprived him of a principal ornament insins intended

Cleopatra

intended triumph. However, the manner of it a good deal exalted her character among the Romans, with whom fuicide was confidered as a virtue. Her dying request was complied with, her body being laid by Antony's, and a magnificent funeral prepared for her and

her two faithful attendants.

After having fettled the affairs of Egypt, he left Alexandria in the beginning of September, in the . year of Rome 720, with a defign to return through Syria, Afia Minor, and Greece, to Italy. On his arrival at Antioch, he found there Tiridates, who had been railed to the throne of Parthia in opposition to Phrahates, and likewise ambassadors from Phrahates, who were all come on the fame errand; to wit, to folicit the affittance of the Romans against each other. Octavianus gave a friendly answer both to Tiridates and the ambaffadors of Phrahates, without intending to help either; but rather with a defign to animate the one against the other, and by that means to weaken both, fo far as to render the Parthian name no longer formidable to Rome. After this, having appointed Melfala Corvinus governor of Syria, he marched into the province of Afia, properly fo called, and there took up his winter quarters. He spent the whole winter in settling the affairs of the feveral provinces of Afia Minor and the adjacent islands; and early in the spring passed into Greece, whence he fet out for Rome, which he entered in the month Sextilis, afterwards called duguff, in three triumphs, which were celebrated for three days together.

And now Octavianus was at the height of his wifees. fole fovereign, fole mafter, of the whole Roman empire. But, on the other hand, the many dangers which atof refigning tend an usurped power, appearing to him in a stronger light than ever, filled his mind with a thousand perplex-ing thoughts. The natural aversion of the Romans to a kingly government, their love of liberty, and the ides of March, when his father Julius was murdered in full fenate by those very men whom he thought the most devoted to his person, made him fear there might arise another Brutus, who, to restore liberty to his country, might affaffinate bim on his very throne. This he knew had happened to Julius Cæfar; whereas Sylla, after having laid down the authority he had ufurped, died peaceably in his bed in the midst of his enemies. The passion of fear outweighed in his soul the charms of a diadem, and inclined him to follow the example of Sylla. He was indeed very unwilling to part with his authority; but fear began to get the better of his ambition. However, before he came to any resolution, he thought it advisable to confult his two most intimate and trufty friends, Agrippa and Mæcenas; the former no lefs famous for his probity than his valour; and the latter a man of great penetration, and generally efteemed the most refined politician of his age. Agrippa enlarged on the many and almost inevitable dangers which attend monarchy, insupportable to a free people, and to men educated in a commonwealth. He did not forget the examples of Sylla and Cæfar; and closed his speech with exhorting Offavianus to convince the world, by restoring liberty to his country, that the only motive for his taking up arms was to revenge his father's death.

> Mæcenas, on the other hand, remonstrated to him, that he had done too much to go back; that, after VOL. XVIII. Part I.

fo much bloodined, there could be no fafety for him Rome, but on the throne; that, if he divested himself of the fovereign power, he would be immediately profecuted But is difby the children and friends of the many illustrious per-funded from fons whom the misfortunes of the times had forced him it by M.z. to facrifice to his fafety; that it was abfolutely neces. cenas. fary for the welfare and tranquillity of the republic, that the fovereign power should be lodged in one perfon, not divided among many, &c. Octavianus thanked them both for their friendly advice, but showed himself inclined to follow the opinion of M.eccnas; whereupon that able minister gave him many wife instructions and rules of government, which are related at length by Dio Cassius, and will ever be looked upon as a masterpiece in politics. Among other things he told him, That he could not fail of being successful in all his undertakings, happy in his lifetime, and famous in history after his death, if he never deviated from this rule; to wit, To govern others as he would wish to be governed himself, had he been born to obey and not to command. He added, That if, in taking upon him the fovereign power, he dreaded the name of king, a name so odious in a commonwealth, he might content himself with the title of Cafar or Imperator, and under that name, which was well known to the Romans, enjoy all the authority of a king.

This advice Octavianus followed, and from that time laid afide all thoughts of abdirating the fovereign power; but, to deceive the people into a belief that they Mill enjoyed their ancient government, he continued the old magistrates, with the same name, pomp, and ornaments, but with just 25 much power as he thought fit to leave them. They were to have no military power, but only their old jurisdiction of deciding finally all causes, execut such as were capital; and though some of these last were lest to the governor of Rome, yet the chief he reserved for himself. He paid great court to the people: the very name that covered his usurpation was a compliment to them; for he affected to call it the power of the tribuneship, though he acted as absolutely by it as if he had called it the dictatorial power. He likewife won the hearts of the populace by cheapness of provisions and plentiful nurkets; he frequently entertained them with shows and sports; and by these means kept them in good-humour, and made them forget ufurpation, flavery, and every public evil; people in eafe and plenty being under no temptation of inquiring into the title of their prince, or refenting acts of power which

they do not immediately feel.

As for the senate, he filled it with his own creatures. raifing the number of the confcript fathers to 1000. He supplied several poor senators with money out of the treasury to discharge the public offices, and on all occasions affected a high regard for that venerable body; but at the same time divested them of all power. and reduced them to mere cyphers. To prevent them from raifing new diffurbances in the diffant provinces, he issued an edict, forbidding any senator to travel out of Italy without leave, except fuch as had lands in Sicily, or Narbonne Gaul, which at that time comprehended Languedoc, Provence, and Dauphing. To these provinces, which were near Italy, and in a perfect flate of tranquillity, they had full liberty to retire when they pleafed, and live there upon their estates. Before he ended his fixth confu! hip, he took a ce. i.. of the peo-

Octaviaaus has thoughts his power. R 12 ple, which was 41 years after the last; and in this the number of the men fit to bear arms amounted to 463,000, the greatest that had ever been found before. He likefenate for his victory at Actium; and it was ordered, leges of priefts being appointed to take care of them; to wit, the pontifices, the augurs, the feptemvirs, and quindecimvirs. The more to gain the affections of the people, he annuiled, by one edict, the many fevere and unjust laws which had been enacted during the triumvirate. He raifed many public buildings, repaired the old ones, and added many flately ornaments to the city, which at this time was, if we may give credit to fome ancient writers, about 50 miles in compass, and contained near four millions of fouls, reckoning men, women, children, and flaves. He attended bufinefs, reformed abuses, showed great regard for the Roman name, procured public abundance, pleasure, and jollity, often appearing in person at the public diversions, and in all things studying to render himself dear to the po-

> And now Octavianus, entering upon his feventh confulfhip with M. Agrippa, the third time conful, and finding all things ripe for his defign, the people being highly pleased with his mild government, and the fenate filled with his creatures, whose fortunes depended upon his holding the power he had usurped, went by the advice of Agrippa and Mæcenas to the fenatehouse; and there, in a studied speech, offered to resign his authority, and put all again into the hands of the people upon the old foundation of the commonwealth; being well apprifed, that the greater part of the confcript fathers, whose interests were interwoven with his, would unanimously press him to the contrary: Which happened accordingly; for they not only interrupted him while he was fpeaking, but, after he had done, unanimously befought him to take upon himself alone the whole government of the Roman empire. He, with a sceming reluctance, vielded at last to their request, as if he had been compelled to accept of the fovereignty. By this artifice he compaffed his defign, which was, to get the power and authority, which he had usurped, confirmed to him by the enate and people for the space . f 10 years: for he would not accept of it for a longer rm, pretending he should in that time be able to fettle Il things in fuch peace and order that there would be to further need of his authority; but that he might then eafe himfelf of the burden, and put the governacut again into the hands of the fenate and people. This method he took to repler the yoke less heavy; out with a defign to renew his leafe, if we may be allowed the expression, as soon as the ten years were expired; which he did accordingly from ten years to ten years as long as he lived, all the while governing the whole Roman empire with an absolute and uncontrouled power. With this new authority the fenate refolved to diffinguish him with a new name. Some of the conscript fathers proposed the name of Romulus, thereby to import that he was another founder of Rome; others offered other titles; but the venerable name of Augustus, proposed by Manutius Plancus, feemed preferable to all the rest, as it expressed more dignity and reverence than authority, the most facred things, such as temples, and places confecrated by augurs, being termed

by the Romans Augusta. Octavianus himself was in- Rome? clined to assume the name of Romulus; but, searing he should be suspected of affecting the kingdom, he declined it, and took that of Augustus, by which we shall henceforth diftinguish him.

Though the whole power of the fenate and people was now vested in Augustus, yet, that he might seem to there it with the conferint fathers, he refused to govern all the provinces; affigning to the fenate fuch as were quiet and peaceable; and keeping to himfelf those which, bordering upon barbarous nations, were most exposed to troubles and wars, saying. He defired the fathers might enjoy their power with eafe and fafety. while he underwent all the dangers and labours: but, by this politic conduct, he fecured all the military power to himself: the troops lying in the provinces he had chosen; and the others, which were governed by the fenate, being quite destitute of forces. The latter were called fenatorial, and the former imperial, provinces. Over the provinces of both forts were fet men of diffinction, to wit, fuch as had been confuls or prætors, with the titles of proconful and proprator; but the government of Egypt was committed to a private knight, Augustus fearing lest a person of rank, depending upon the wealth and fituation of that country, might raife new diffurbances in the empire. All thefe governors held their employment only for a year, and were upon the arrival of their fuccessors to depart their provinces immediately, and not fail to be at Rome within three months at the farthest. This division of the provinces was made, according to Ovid, on the ides of Jamuary; whereas he was vested by the fenate and people with the fovereign power on the feventh of the ides of the fame month, as is manifest from the Narbonne marbles; and from that time many writers date the years of his empire. Thus ended the greatest commonwealth, and at the same time began the greatest monarchy, that, had ever been known; a monarchy which infinitely excelled in power, riches, extent, and continuance, all the empires which had preceded it.

It comprehended the greatest and by far the best part Extent. &c. of Europe, Afia, and Africa, being near 4000 miles in of the Rolength, and about half as much in breadth. As to the man emyearly revenues of the empire, they have by a moderate computation been reckoned to amount to forty millions of our money. But the Romans themselves now ranheadlong into all manner of luxury and effeminacy. The people were become a mere mob; those who were wont to direct mighty wars, to raife and depose great kings, to beflow or take away potent empires, were fo funk and debauched, that, if they had but bread and shows, their ambition went no higher. The nobility were indeed more polite than in former ages; but at the fame time idle, venal, vicious, infensible of private virtue, utter frangers to public glory or difgrace, void of zeal for the welfare of their country, and folely intent on gaining the favour of the emperor, as knowing that certain wealth and preferment were the rewards of ready fubmission, acquiescence, and flattery. No wonder, therefore, that they loft their liberty, without be-

ing ever again able to retrieve it. Augustus, now absolute master of the Roman em- vulitary pire, took all methods to ingratiate himself with hiselablish foldiers, by whose means he had attained such a height ments of of power. With this view, he disperfed them through Augustus.

o arcept

256 He takes the title of Augustus.

different parts of Italy in 32 colonies, that he mis ht the more easily reassemble them on proper occusions. kept 23 legions contlantly on foot, 17 of which reas in Europe; viz. eight on the Rhine, four on the Danube, three in Spain, and two in D. Imitia. The ter eight were fent into Afia and Africa; four of them being quartered in the neighbourhood of the Eup 1tes, two in Egypt, and two in Affica Propria, that is, the ancient dominions of Carthage. All thele for amounting to 170,650 men, were constantly kept on neighbourhood of Rome were always quartered 12 cohorts, that is, about 10,000 men; nine of which were called prætorian cohorts; the other three, city colort. There were established as a guard to the emperor, and to maintain peace and tranquillity in the city, but had throughout the empire. Befides thefe, Augustus conflantly kept at fea two powerful navies; the one riding at anchor near Ravenna in the Adriatic fea, to command Dalmatia, Greece, Cyprus, and the rest of the eastern provinces; the other at Misenum in the Mediterranean, to keep in awe the western parts of the empire. They were likewife to keep the feas clear of pirates, to convoy the veffels which brought to Rome the annual tributes from the provinces beyond fea, and to transport corn and other provisions necessary for the relief and fublishence of the city. As to the civil government, Augustus enacted several new laws, and reformed some of the old ones: however, he affected to do nothing without the advice of the fenate; who were fo well pleased with the complaisance showed them on all occafions, that to the rell of his titles they added that of Pater Patrix, or " Father of his Country."

regard to the civil and military establishments of the empire, turned his arms against the Spanish nations called the Cantabrians and Afterians, who had never been fully fubdued. The war, however, terminated as usual, in favour of the Romans; and these brave nations were forced to receive the yoke, though not without the most violent resistance on their part, and the utmost difficulty on that of the Romans (See ASTURIA). By this and his other conquells the name of Augustus became so celebrated, that his friendship was courted by the most distant monarchs. Phrahates king of Parthia confented to a treaty with him upon his own Parthia and terms, and gave him four of his own fons with their wives and children as hostages for the performance of the articles; and as a further inflance of his respect, he delivered up the Roman eagles and other enfigns which had been taken from Craffus at the battle of Carries. He received also an embassy from the king of India, with a letter written in the Greek tongue, in which the Indian monarch informed him, that " though he reigned over 600 kings, he had fo great a value for the friendship of Augustus, that he had fent this embaffy on fo long a journey on purpose to defire it of him; that he was ready to meet him at whatfoever place he pleased to appoint; and that, upon the first notice, he was ready to affirt him in whatever was right." This letter he fubferihed by the name of Porus king of India. Of the ambassadors who set out from India, three only reached the prefence of Augustthe, who was at that time in the iffund of Samo, the

And now Augustus having fettled all things with

others dying by the way. Of the three movings one was named Zarmar, a symmologhith, who followed the campeter to Athens, and there built hinfelf in has prefence; it being ou tomary for the gymnolo, hit's to just

The Roman empire had now extended itself fo far, Theen, po to it by nature; and as foon as this was the cafe, it the wort began to be attacked by those radions which in pro-bilities of time were to overthrow it. The Germans, by which name the Romans confounded a great number of nations dwelling in the northern parts of Europe, began to make incurfices into Gaul. Their first at-tempt happened in the year 17 B. C. when they at driven back with great lofs. Soon after this tale Rhæti, who feem to have inhabited the country bordering on the lake of Constance, invaded haly, where they committed dreadful devultations, putting all the maleto the fword without didinction of rank or age; nay, we are told, that, when women with child happened to fall into their hands, they confulted their augurs whether the child was male or female; and if they pronounced it a male, the mother was immediately maffacred. Against these barbarians Augustus sent Drufus the fecond fon of the empress Livia; who, though very young, found means to gain a complete victory with very little loss on his part. Those who escaped took the road to Gaul, being joined by the Vindelici, another nation in the neighbourhood; but Tiberius, the elder brother of Drufus, marched against ti, Vindelici, and Norici, three of the most barbarous nations in those parts, were sain to ful mit to the plea-fure of the emperor. To keep their country in awe, road from thence into Noricum and Rhee in. One of rum; both of which are now known by the names of

Augul us, who had long fince obtained all the tem- Augulors now com to assume those of the fairtual kind also being in the year 13 B. C. ore ted Postifex Maximus: virtue of this office he corrected a very gross millake in the Roman kilendar; for the punifices, having, for the fpace of 36 years, that is, ever face the reformation by Julius Ciefar, made every third year a learn year, infleed of every fourth, twelve days had been inferred inflead of nine, fo that the Reman year confifted of three days more than it ought to have done. These three

His friendthip courted

fuperfluous days having been thrown out, the form of the year has ever fince been regularly observed, and is fill known by the name of the old flyle in ale among us. On this occasion he gave his own name to the month of August, as Julius Coelar had formerly done to the month of July.

Tiberius grippa.

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tire to

Rhodes,

In the year II B. C. Agrippa died, and was fucfucceeds A- ceeded in his high employment of governor of Rome, by Tiberius; but, before invefting him with this ample power, the emperor caused him to-divorce his wife Agrippina (who had already brought him a fon, and was then big with child), in order to marry Julia the widow of Agrippa and daughter of the emperor. Julia was a princess of an infamous character, as was known to almost every body excepting Augustus himself; however, Tiberius made no hefitation, through fear of difobliging the emperor.

The emperor now fent his two fons Tiberius and Drusus against the northern nations. Tiberius reduced the Pannonians, who had attempted to shake off the yoke after the death of Agrippa. Drufus performed great exploits in Germany; but while he was confidering whether he should penetrate further into these northern countries, he was seized with a violent fever, which carried him off in a few days. He was fucceeded in his command by Tiberius, who is reported to have done great things, but certainly made no

permanent conquetts in Germany. However, he was honoured with a triumph, and had the tribunitial power for five years conferred upon him; which was no forner done, than, to the great furptife of Augustus and the leave to re whole city, he defired leave to quit Rome and retire to Rhodes. Various reasons have been assigned for this extraordinary resolution: some are of opinion that it was in order to avoid being an eye-witnes of the de-

baucheries of his wife Julia, who fet no bounds to her lewdness; though others imagine that he was offended at the honours which Augustus had conferred on

his grandchildren, especially at his flyling them princes of the Roman youth; which left him no hopes of enjoying the fovereign power. However, Augustus positively refused to comply with his request, and his mother Livia used her utmost endeavours to disfusde him from his resolution : but Tiberius continued obstinate; and, finding all other means ineffectual, at last that himself up in his house, where he abstained four whole days from nourithment. Augustus, perceiving that he could not get the better of his obstinate and in-

flexible temper, at last complied with his request. Tiberius foon grew weary of his retirement, and, giving out that he had left Rome only to avoid giving umbrage to the emperor's two grandchildren, defired leave 15 confined to return; but Augustus was so much displeased with his having obstinately insisted on leaving Rome, that he obliged him to remain at Rhodes for feven years longer. His mother, with much ado got him declared

the emperor's lieutenant in those parts; but Tiberius, dreading the refentment of his father-in-law, continued to aft as a private perfor during the whole time of his

flay there.

A profound peace now reigned throughout the whole empire; and in consequence of this the temple of Janus was flut, which had never before happened fince the time of Numa Pompilius. During this pacific interval, the Saviour of mankind was born in Judees, as is recorded in the facred history, 748 years af- Rome. ter the foundation of Rose by Rosenlas. Three years after, Tiberius returned to the city, by permillion of Birth of Augustus, who yet would not allow him to bear any Christ. public office; but in a thort time, Lucius Crefar, one of the emperor's grandchildren, died, not without fufpicions of his being poiloned by Livia. Tiberius showed fuch great concern for his death, that the affection of Augustus for him returned; and it is faid that he would at that time have adopted Tiberius, had it not been for giving umbrage to his other grandfon Caius Coefer. This obstacle, however, was soon after removed; Cains being taken off also, not without great furpicions of Livia, as well as in the former case. Auguffus was exceedingly concerned at his death, and immediately adopted Tiberius as his fon; but adopted Augustus # also Agrippa Pothumius, the third fon of the farvous adopts Ti-Agrippa; and obliged Tiberius to adopt Germanicus berius as his the fon of his brother Drufus, though he had a fon of fon-

his own named Drufus; which was a great mortification to him. As to Agrippa, however, who might have been an occasion of jealousy, Tiberius was soon freed from him, by his difference and banishment, which very foon took place, but on what account is not

The northern nations now began to turn formidable: and though it is pretended that Tiberius was always fuccefsful against them, yet about this time they gave the Romans a most terrible everthrow; three legions and fix cohorts, under Quintilius Varus, being almost entirely cut in pieces. Augustus set no bounds to his grief on this fatal occasion. For some months he let his hair and beard grow, frequently tearing his garments, knocking his head against the wall, and crying out like a distracted person, " Restore the legions, Varus!" Tiberius, however, was foon after fent into Germany; and for his exploits there he was honoured with a triumph. Augustus now took him for his colleague in the fovereignty; after which he fent Germanicus against the northern barbarians, and Tiberius into Illyricum. This was the last of his public acts; Death of for having accompanied Tiberius for part of his jour-Auguitus, ney, he died at Nola in Campania, in the 76th year of his age, and 56th of his reign. Livia was faspected of having haftened his death by giving him poisoned figs. Her reason for this was, that she feared a reconciliation between him and his grandfon Agrippa, whom he had banished, as we have already related. Some months before, the emperor had paid a vifit to Agrippa, unknown to Livia, Tiberius, or any other person, excepting one Fabius Maximus. This man, on his return home, discovered the secret to his wife, and she to the empress. Augustus then perceiving that Fabius had betrayed him, was so provoked, that he banished him from his prefence for ever; upon which the unfortunate Fablus, unable to furvive his difgrace, laid violent hands on himfelf.

Tiberius, who fucceeded to the empire, refolved to. fecure himself on the throne by the murder of Agrippa; whom accordingly he caused to be put to death by a military tribune. Though this might have been a sufficient evidence of what the Romans had to expect, the death of Augustus was no sooner known, than the confuls, fenators, and knights, to use the expression of Tacitus, ran headlong into flavery. The two confuls

Auguitus for leven years.

Distinshintion of Tiberius.

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gions.

first took an oath of fidelity to the emperor, and then administered it to the fenate, the people, and the foldiery. Tiberius behaved in a dark mysterious manner, taking care to rule with an absolute sway, but at the same time seming to helitate whether he should accept the favereign power or not; infomuch that one of the fenators took the liberty, to tell him, that other men were flow in performing what they had promifed, but he was flow in promiting what he had already per-formed. At laft, however, his modefly was overcome, and he declared his acceptance of the fovereignty in the following words: " I accept the empire, and will hold it, till fach time as you, confeript fathers, in your great prudence, shall think proper to give repose to my old age."

Tiberius had scarcely taken possession of the throne, Revolt of the Patinowhen news were brought him that the armies in Panmian and nonia and Germany had mutinied. In Pannonia, three German lelegions having been allowed fome days of relaxation from their usual duties, either to mourn for the death of Augustus, or to rejoice for the accession of Tiberius, grew turbulent and feditious. The Pannonian mutipeers were headed by one Percennius, a common foldier; who, before he ferved in the army, had made it his whole business to form parties in the theatres and playhouses to his or applaud such actors as he liked or difliked. Inflamed by the speeches of this man, they openl; revolted; and though Tiberius himfelf wrote to them, and fent his fon Drafus to endeavour to quell the tumult, they maffacred fome of their officers, and infulted others, till at last, being frightened by an eclipse of the moon, they began to show some figus of repostance. Of this favourable difpolition Drulus took advantage; and even got the ringleaders of the revolt condemned

and executed. Immediately after this they were again

terrified by fuch violent florms and dreadful rains, that

they quietly submitted, and every thing in that quarter

was restored to tranquillity. The revolt of the German legions threatened much more danger, as they were more numerous than those of Pannonia. They proceeded nearly in the same way as the Pannonian legions, falling upon their othicers, especially the centurions, and beating them till they almost expired, drove them out of the camp, and fome of them were even thrown into the Rime. Germanions, who was at that time in Gaul, hadened to the camp on the first news of the disturbance; but being unable to prevail on them to return to their duty, he was obliged to feign letters from Tiberius, granting all their demands. These were, That all those who had served 20 years should be discharged; that such as had ferved 16 thould be deemed yeterans; and that fome legacies which had been left them by Augustas should not only be paid immediately, but doubled. This last article he was obliged to discharge without delay out of the money which he and his hiends had brought to defray the expences of their journey; and on receiving it, the troops quietly retired to their winter-quarters. But, in the mean time, some deputies sont either by Tiberius or the fenate, probably to quell the fedition, occafioned fresh disturbances; for the legionaries, ta-king it into their heads that these deputies were come to revoke the concessions which Germanicus had made, were with difficulty prevented from tearing them in pieces; and, notwithflanding the utmost endeavours of

Germanicus, behaved in fuch an outrageous manner, that the general thought proper to feud off his wife Agrippina, with her infant fon Claudius, the herfelf at the same time being big with child. As the was attended by many women of diffinction, wives of the chief officers in the camp, their tears and lamentations in parting with their hufbands occasioned a great uproar, and ' drew together the foldiers from all quarters. . A new feene entard, which made an impression even upon the most obstinate. They could not behold, without shame and compaffion, so many women of rank travelling thus forlorn, without a centurion to attend them, or a foldier to guard them; and their general's wife among the refl, carrying her infant child in her arms, and preparing to fly for shelter against the treachery of the Roman legions. This made fuch a deep impression on the minds of many of them, that fonce ran to flop her, while the reft recurred to Germanicus, earnefilly intreating him to recall his wife, and to prevent her from being obliged to feek a fanctuary among foreigners. The general improved this favourable disposition, and in a fhort time they of their own accord feized and maffacred the ringleaders of the revolt. Still, howa ever, two of the legions continued in their disobedience. Against them therefore Germanicus determined to lead those who had returned to their duty. With this view he prepared veffels; but before he embarked his troops, he wrote a letter to Caesina who commanded them, acquainting him that he approached with a powerful army, resolved to put them all to the fixerd without diffinction, if they did not prevent him by taking vengeance on the guilty themselves. This letter Czecina communicated only to the chief officers and fuch of the foldiers as had all along disapproved of the revolt, exhorting them at the fame time to enter into an affociation against the feditious, and put to the fword fuch as had involved them in the prefent ignominy and guilt. This propolal was approved of, and a The revolt cruel maffacre immediately took place; infomuch that quelled by when Germanicus came to the camp, he found the a dreadfut greatest part of the legions destroyed. This greatly af master :fe led the humane Germanicus, who caused the bodies of the flain to be burnt, and celebrated their obsequies with the usual folemnities; however, the fedition was thus effectually quelled, after which he led his army into Germany. There he performed many great exploits \*; but kill all that he could perform was far from " See Comfreeing the empire from fo dangerous and troublesome and enemy. In the year 19, he died, of poilon, as was fuppoled, given by Pifo, his partner in the government of Syria, to which Germanicus had been promoted after his return from the north.

In the mean time, Tiberius, though he affected tocourt the favour of the people by various methods, yet showed himself in general such a cruck and bloodthirfly tyrant, that he became the object of universalabhorrence. Though he had hated Germanicus in his. heart, he punished Pifo with death; but in about a rafter the death of Germanicus, having now no crueltyobject of jerlouly to keep him in awe, he began to rant. pull off the mails, and appear more in his natural character than before. He touk upon himfelf the inter-, pretation of all political measures, and began daily to 1 diminish the authority of the senate; which design . was much facilitated, by their own aptitude to fla-

Rome.

very; fo that he despised their meanness, while he enjoyed its effects. A law at that time substitled, which made it treason to form any sipurious attempt against the majesty of the people. Therius affurned to himself the interpretation and enforcement of this law; and extended it not only to the cases which restly affected the safety of the thate, but to every conjuncture that could possibly be favourable to his hatred or suspicious. All freedom was now therefore banished from convivial meetings, and diffishence reigned amongst the dearest relations. The law of offended maight being revived, many persons of distinction sell a facri-

272 Sejanus a wicked m nifter.

In the beginning of these cruelties, Tiberius took into his considence Sejanus, a Roman knight, but by birth, a Volscian, who found out the method of gaining his considence, by the most refined degree of diffinulation, being an over-match for his malter in his own arts. He was made by the emperor captain of the Prestorian guards, one of the most considential trusts in the state, and extolled in the senate as a worthy affociate in his labours. The fervile senators, with ready adulation, set up the statues of the favourite beside those of Tiberius, and seemed eager to pay him similar honours. It is not well known whether he was the adviser of all the cruelties that enfued soon after; but certain it is, that, from the beginning of his ministry, Tiberius seemed to become more statly sufficience.

It was from fuch humble beginnings that this minifter even ventured to aspire at the throne, and was refolved to make the emperor's foolish confidence one of the first steps to his ruin. However, he considered that cutting off Tiberius alone would rather retard than promote his defigns while his fon Drufus and the children of Germanicus were yet remaining. He therefore began by corrupting Livia, the wife of Drufus; whom, after having debauched her, he prevailed upon to poifon her husband. This was effected by means of a flow poison (as we are told), which gave his death the appearance of a cafual diftemper. Tiberius, in the mean time, either naturally phlegmatic, or at least not much regarding his fon, bore his death with great tranquillity. He was even heard to jest upon the occasion; for when the ambaffadors from Troy came fomewhat late with their compliments of condolence, he answered their pretended distresses, by condoling with them also upon the death of Hector.

make his next attempt upon the children of Germanicus, who were undoubted fucceffors to the empire. However, he was fruitrated in his defigns, both with regard to the fidelity of their governors, and the chifting of Agrippina their mother. Whereupon he refolved upon changing his aims, and removing Tiberius out of the city 5 by which means he expected more frequent opportunities of putting his defigns into execution. He therefore uled all his address to perfude Tiberius to retire to fome agreeable retreat, remote from Rome. By this he expected many advantages, fince there could be no sec-less to the emperor but by him. Thus all letters being conveyed to the prince by foldiers at his own devotion, they would past through his hands; by which

means he must in time become the fole governor of the

impire, and at last be in a capacity of removing all ob-

Sejanus having fucceeded in this, was refolved to

stacles to his ambition. He now therefore began to in- Rome. finuate to Tiberius the great and numerous inconveniences of the city, the fatigues of attending the fenate, and the feditious temper of the inferior citizens of Rome. Tiberius 16-Tiberius, either preveiled upon by his perfuafions, or ties from purfuing the natural turn of his temper, which led to inleft Rome, and went into Camparia, under pretence of dedicating temples to Jupiter and Augustus. After this, though he removed to feveral places, he never returned to Rome; but spent the greatest part of his time in the island of Caprea, a place which was rendered as infamous by his pleafures as deteftable by his cruelties, which were shocking to human nature. Buried in this lets of the miferies of his fubiects. Thus an infurrection of the Jews, upon placing his statue in Jerusalem, under the government of Pontius Pilate, gave him no fort of uneatiness. The falling of an amphitheatre at Fidenæ, in which 50,000 perfons were either killed or wounded. no way affected his repose. He was only employed in studying how to vary his odious pleasures, and forcing his feeble frame, shattered by age and former debaucheries, into the enjoyment of them. Nothing can prefent a more horrid picture than the retreat of this impure old man, attended by all the ministers of his perverted appetites. He was at this time 67 years old; his perfon was most displeasing; and some fay the disagreeablenefs of it, in a great meafure, drove him into retirement. He was quite bald before; his face was all broke out into ulcers, and covered over with platters; his body was bowed forward, while its extreme height and leanness increased its deformity. With such a person, and His abonia mind fill more hideous, being gloomy, fuspicious, and nable con-

cruel, he fat down with a view rather of forcing his ap. duct in his petites than fatisfying them. He fpent whole nights in retreat. debaucheries at the table; and he appointed Pomponius Flaccus and Lucius Pifo to the first posts of the empire. for no other merit than that of having fat up with him two days and two nights without interruption. Thefe he called his friends of all hours. He made onc Novelius Torgnatus a prætor for being able to drink off five bottles of wine at a draught. His luxuries of another kind were still more detestable, and feemed to increase with his drunkenness and gluttony. He made the most eminent women of Rome subservient to his lusts; and all his inventions only feemed calculated how to make his vices more extravagant and abominable. The numberless obfeene medals dug up in that island at this day bear witnels at once to his shame, and the veracity of the historians who have described his debaucheries. In flort, in this retreat, which was furrounded with rocks on every fide, he quite gave up the bufiness of the empire; or, if he was ever active, it was only to do milchief. But, from the time of his retreat, he became more cruel, and Sejanus always endeavoured to increase his diffrusts. Secity, who converted the most harmless actions into subjects of offence. If any perfon of merit teflified any con-cern for the glory of the empire, it was immediately confirmed into a defign to obtain it. If another fpoke with regret of former liberty, he was supposed to aim at re-effablishing the commonwealth. Every action became liable to forced interpretations; joy expressed an hore of the prince's death; melancholy, an envying of

273 His infomous conduct.

Rome. his prosperity. Sejanus found his aim even day facceeding; the wretched emperor's terrors on on infrument that he wrought upon at his pleafore, and by which he levelled every obttacle to his defigns. But the chief objects of his jealoufy were the children of Germanicus, whom he refolved to jut out of the way. He therefore continued to render them obnox out to the emperor, to alarm him with falle reports of their ambition, and to terrify them with alarms of his intended cruelty. By these means, he so contrived to widen the breach, that he actually produced on both fides those dispositions which he pretended to obviate; till at 1-ngth, the two princes Nero and Drufus were declared encmies to the state, and afterwards starved to death in prison; while Agrippina their mother was fent into ba-

Germanideath.

nishment. In this manner Sejanus proceeded, removing all who flood between him and the empire, and every day increafing in confidence with Tiberius, and power with the fenate. The number of his flatues exceeded even those of the emperor; people swore by his fortune, in the fame manner as they would have done had he been actually upon the throne, and he was more dreaded than even the tyrant who actually enjoyed the empire. But greatness of his downfall. All we know of his first difgrace with the emperor is, that Satrius Secundus was the man who had the boldness to accuse him. Antonia, the mother of Germanicus, seconded the accusation. What were the particulars of his crimes, we cannot learn: but certain it is, that he attempted to usurp the empire. by aiming at the life of Tiberius. He was very near dispatching him, when his practices were discovered, and his own life was substituted for that against which he simed. Tiberius, fenfible of the traitor's power, prohended. He granted him new honours at the very time he refolved his death, and took him as his colleague in the confulfhip. The emperor's letter to the fenate began only with flight complaints against his friend, but ended with an order for putting him in prison. He intreated the fenators to protect a poor old man, as he was, abandoned by all; and, in the mean time, prepared thips for his flight, and ordered foldiers for his fecurity. The fenate, who had long been jealous of the favourite's power, and dreaded his cruelty, immediately took this opportunity of going beyond their orders. Inflead of fentencing him to imprisonment, they directed his execution. A firange revolution now appeared in the city; of those numbers that but a moment before were preffing into the presence of Sejanus, with offers of service and adulation, not one was found that would feem to be of his acquaintance: he was deferted by all; and those who had formerly received the greatest benefits from him, feemed now converted into his most inveterate enemies. As he was conducting to execution, the people loaded him with infult and execuation. He attempted to hide his face with his hands; but even this was denied him, and his hands were fee red. Nor did the rage of his enemies fubfile with his death; his body was ignominiously dragged about the fireets, and his

His death only lighted up the emperor's rage for further executions. The prifons were crowded with pretended accomplices in the conspiracy of Sejenus. Tiberius b. gan to grow we ty of particular executors; Rome Le therefore gove order that all the accused flood! he put to death together without further examination. Of M, from 20 fenators, whom he chofe for his council, he put 16 in ty of to dea h. "Let them hate me peried he) follong as the ne they obey me." He llen averred, that Priam was a happy man, who outlived all his poderity. In this manner there was not a day without I me barbarous execution, in which the fufferers were obliged to undergo the mot shameful indignities and exquisite torm n s. When one Camillus had killed himfelf to avoid the torture: " Ah (cried Tiberius), how that man has been able to escape me!" When a prisoner earnestly intreated that he would not defer his death : " No (cried the tyrant), I am not sufficiently your friend, to shorten your torment." He often fatisfied his eyes with the tortures of the wretches that were put to death before him; and in the days of Suctonius the rock was to be feen, from which he ordered fuch as had displeased him to be thrown headlong. As he was one day examining fome persons upon the rack, he was told that an old friend of his was come from Rhodes to fee him. Tiberius supposing him brought for the purpose of information, immediately ordered him to the torture; and when he was convinced of his miftake, he ordered him to be put to death, to prevent farther discovery.

In this manner did the tyrant continue to torment others, although he was himfelf ftill more tortured by his own fuspicions; fo that in one of his letters to the fenate, he confessed that the gods and goddesses had so afflicted and confounded him, that he knew not what or how to write. In the mean time, the frontier provinces were invaded with impunity by the barbarians. Macha was feized on by the Dacians and Sarmatians; Gaul was wasted by the Germans, and Armenia conquered by the king of Parthia. Tiberius, however, was fo much a flave to his brutal appetites, that he left his provinces wholly to the care of his lieutenants, and they were intent rather on the accumulation of private fortune than the falety of the flate. Such a total diforder in the empire produced fuch a degree of anxiety in him who governed it, that he was heard to with, that heaven and earth right perish when he died. At length, however, in the 22d year of his reign, he began to feel the approaches of his diffolution, and all his appetites totally to forf ke him. He now, therefore, found it was time to think of a fucceffor, and hefitated for a long while, whether he should choose Caligula, whose vices were too apparent to escape his observation. He had been often heard to fay, that this youth had all the faults of Sylla, without his virtues; that he was a ferpent that would fling the empire, and a Phaeton that would fet the world in a flame. However, notwith arding all his well-grounded apprehensions, he named him for his change f ecoffor; willing, perhaps, by the enormity of Caligu-Carrola for la's conduct to cover the memory of his own,

But though he thought fit to choose a successor, he concealed his approaching decline with the utmost care, as if he was willing at once to hide it from the wood and himfelf. He long had a contempt for physic and refused the advice of such as attended him; he can feemed to t ke a pleasure in being present at the sports of the foldiers, and ventured himself to thre vajeve n at a boar that was let loofe before him. The court which he made upon this occasion caused a para in he

Sejanus diff graced and

fide, which haftened the approaches of death; fill, however, he seemed willing to avoid his end; and strove. by change of place, to put off the inquietude of his own reflections. He left his favourite island, and went upon the continent, where he at last fixed at the promontory of Milenum. It was here that Charicles, his phylician. pretending to kils his hand, felt the failure of his pulle ; and appriled Macro, the emperor's prefent favourite. that he had not above two days to live. Tiberius, on the contrary, who had perceived the art of Charicles, did all in his power to impress his attendants with an opinion of his health: he continued at table till the evening; he faluted all his guests as they left the room. and read the acts of the fenate, in which they had abfolved fome perions he had written against, with great indignation. He refolved to take figual vengeance of their difobedience, and meditated new schemes of cruelty, when he fell into fuch faintings, as all believed were fatal. It was in this fituation, that, by Macro's advice, Caligula prepared to fecure the fuccession. He received the congratulations of the whole court, caused himself to be acknowledged by the Prætorian foldiers, and went forth from the emperor's apartment amidft the applaufes of the multitude; when all of a fudden he was informed that the emperor was recovered, that he had begun to speak, and defired to eat. This unexpected account filled the whole court with terror and alarm : every one who had before been earnest in testifying their joy, now re-affumed their pretended forrow, and left the new emperor, through a feigned folicitude for the fate of the old. Caligula himself seemed thunderstruck; he preferved a gloomy filence, expecting nothing but death, instead of the empire at which he had aspired. Macro. however, who was hardened in crimes, ordered that the dying emperor should be dispatched, by smothering him with pillows, or, as others will have it, by poifon. In this manner Tiberius died, in the 78th year of his age,

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time.

after reigning 22. The Romans were, at this time, arrived at their high-Corruptions of the Ro- est pitch of esterninacy and vice. The wealth of almost mans at this every nation of the empire, having, for some time, circulated through the city, brought with it the luxuries peculiar to each country; fo that Rome prefented a detestable picture of various pollution. In this reign lived Apicius, so well known for having reduced gluttony into a fystem; some of the most notorious in this way, thought it no shame to give near 100 pounds for a single fish, and exhaust a fortune of 50,000 pounds in one entertainment. Debaucheries of every other kind kept pace with this; while the deteftable folly of the times thought it was refining upon pleasure to make it unnatural. There were at Rome men called Spintria, whose fole trade it was to fludy new modes of pleasure; and these were universally favourites of the great. The senators had long fallen from their authority, and were no less enranged from their integrity and honour. Their whole fludy feemed to be, how to invent new ways of flattering the emperor, and various methods of tormenting his supposed enemies. The people were still more corrupt : they had, for some years, been accustomed to live in idleness, upon the donations of the emperor; and, being fatisfied with subliftence, entirely gave up their freedom. Too effeminate and cowardly to go to war, they only railed against their governors; so that they were bad foldiers and feditious citizens. In the

18th year of this monarch's reign, Christ was crucified. Rome. Shortly after his death, Pilate is faid to have written to Tiberius an account of bis passion, resurrection, and Clarist crue miracles; upon which the emperor made a report of caried. the whole to the fenate, defiring that Christ might be accounted a god by the Romans. But the fenate being displeased that the proposal had not come first from themselves, refused to allow of his apotheosis; alleging an ancient law, which gave them the superintendance in all matters of religion. They even went fo far, as by an edict to command that all Christians should leave the city: but Tiberius, by another edict, threatened death to all fuch as should accuse them; by which means they continued unmolested during the rest of his

No monarch ever came to the throne with more advantages than Caligula. He was the fon of Germanicus, who had been the darling of the army and the people. He was bred among the foldiers, from whom he received the name of Caligula, from the fhort bufkin, called caling, that was worn by the common centinels, and which was also usually worn by him. As he approached Rome, the principal men of the state went out in crowds to meet him. He received the congratulations of the people on every fide, all equally pleased in being free from the cruelties of Tiberius. and in hoping new advantages from the virtues of his

fucceffor.

Caligula feemed to take every precaution to imprefa them with the opinion of a happy change. Amidit the rejoicings of the multitude, he advanced mourning, with the dead body of Tiberius, which the foldiers brought to be burnt at Rome, according to the cuftom of that time. Upon his entrance into the city, he was received with new titles of honour by the fenate, whose chief employment feemed now to be, the art of increasing their emperor's vanity. He was left co-heir with Gemellus, grandfon to Tiberius; but they fet afide the nomination, and declared Caligula sole successor to the empire. The joy for this election was not confined to the narrow bounds of Italy; it spread through the whole empire, and victims without number were facrificed upon the occasion. Some of the people, upon his going into Campania, made vows for his return; and shortly after, when he fell fick, the multitudes crowded whole nights round his palace, and fome even devoted themselves to death in case he recovered, setting up bills of their resolutions in the streets. In this affection of the citizens, ftrangers themselves seemed ambitious of sharing. Artabanus, king of Parthia, fought the emperor's alliance with affiduity. He came to a personal conference with one of his legates; passed the Euphrates, adored the Roman eagles, and kiffed the emperor's images; fo that the whole world feemed combined to praise him for virtues which they supposed him to possess.

The new emperor at first feemed extremely careful of Caligula the public favour; and having performed the funeral fo-begins to lemnities of Tiberius, he hastened to the islands of Pan-reign dataria and Pontia, to remove the after of his mother well and brothers, exposing himself to the dangers of tempeftuous weather, to give a lustre to his piety. Having brought them to Rome, he inflituted annual folemnities in their honour, and ordered the month of September

to be called Germanicus, in memory of his father.

to kill his alverfacy, by which he obtained a rate fe don from his vow. Gemellus was the next who forced" from the tyraut's inhumanity. The pretence against him was, that he had withed the emperor might not recover, and that he had taken a counter-poilon to fecure him from any fecret attempts against his life. Cali u.a ordered him to kill himself; but as the unfortunate youth was ignorant of the manner of doing it, the emperor's messengers foon instructed him in the fatal lesson. Silenus, the emperor's father-in-law, was the next that was put to death upon flight suspicions; and Gercinus, a fenator of noted integrity, refuling to witness fallely against him, shared his fate. After these followed a crowd of victims to the emperor's avarice or fuspicion. The pretext against them was their enmity to his family; and in proof of his acculations he produced those very memorials which but a while before he pretended to have burnt. Among the number of those who were

ite of Tiberius, and the person to whom Caligula owed his empire. He was accused of many crimes, some of which were common to the emperor as well as to him, and his death brought on the ruin of his whole family.

facrificed to his jealouty, was Macro, the late favour-

These cruelties, however, only seemed the first fruits of a mind naturally timid and fuspicious: his vanity and profusion soon gave rife to others which were more atro-

cious, as they fprung from less powerful motives. His pride first began by assuming to himself the title of ruler, which was usually granted only to kings. He would also have taken the crown and diadem, had he not been advised that he was already superior to all the monarchs of the world. Not long after, he assumed divine honours, and gave himself the names of such divinities as he thought most agreeable to his nature. For this purpose he caused the heads of the statues of Jupiter and fome other gods to be struck off, and his own to be put in their places. He frequently feated himself between Caftor and Pollux, and ordered all who came to their temple to worship, should pay their adorations only to him; nay, at last he altered their temple to the form of a portico, which he joined to his palace, that the

very gods, as he faid, might ferve him in the quality of porters.

He was not less notorious for the depravation of his appetites than for his ridiculous prefumptions. Neither person, place, nor sex, were obtacles to the indulgence of his unnatural luts. There was scarcely a lady of any quality in Rome that escaped his lewdness; and, indeed, fuch was the degeneracy of the times, that there were few ladies who did not think this differace an honour. He committed incest with his three fifters, and at public feat's they lay with their heads upon his bo'om by turns. Of thele he proftituted Livih and Agrippina to his vile companions, and then blanked them as adultereffes and conspirators against his person. As for Drufilla, he took her from her husband Longinus, and kept her as his wife. Her he loved fo affectionately, that, being fick, he appointed her as heirefs of his empire and fortune; and the happening to die before him, he made her a goddess. Nor did her example when living, appear more dangerous to the people than her divinity when dead. To mourn for her death was a crime, as the was become a goddels; and to rejoice for her divinity was capital, because the was dead. Nav, even fi-

Thele ceremonies being over, he conferred the fane honours upon his grandmother Autonia, which had before been given to Livia; and ordered all informations to be burnt, that any ways exposed the enemies of his family. He even refuted a paper that was offered him, tending to the discovery of a conspiracy against him; alleging, That he was confcious of nothing to deferve any man's hatred, and therefore had no fears from their machinations. He caused the intitutions of Augustus, which had been difused in the reign of Tiberius, to be revived; undertook to reform many abuses in the state, and severely punished corrupt governors. Among others, he banished Pontius Pilate into Gaul, where this unjust magistrate afterwards put an end to his life by fuicide. He banished the spintriæ, or inventors of abominable recreations, from Rome; attempted to restore the ancient manner of electing magistrates by the suffrages of the people; and gave them a free jurisdiction, without any appeal to himself. Although the will of Tiberius was annulled by the fenate, and that of Livia suppressed by Tiberius, yet he caused all their legacies to be punctually paid; and in order to make Gemellus amends for milling the crown, he caused him to be elected Princeps Juventutis, or principal of the youth. He restored fome kings to their dominions who had been unjustly dispossessed by Tiberius, and gave them the arrears of their revenues. And, that he might appear an encourager of every virtue, he ordered a female flave a large furn of money for enduring the most exquisite torments without discovering the secrets of her master. So many conceilions, and fuch apparent virtue, could not fail of receiving just applause. A shield of gold, bearing his image, was decreed to be carried annually to the Capitol, attended by the fenate and the fons of the nobility finging in praise of the emperor's virtues. It was likewife ordained, that the day on which he was appointed to the empire should be called Pubitia; implying, that when he came to govern, the city received a new foundation.

In less than eight months all this shew of moderation and clemency vanished; while furious passions, unexampled avarice, and capricious cruelty, began to take their turn in his mind. As most of the cruelties of Tiberius arole from suspicion, so most of those committed by Caligula took rife from prodigality. Some indeed affert, that a diforder which happened foon after his accellion to the empire, entirely discomposed his under-

ftanding. However this may be, madness itself could fearcely dictate cruelties more extrave rant, or inconfiftencies more ridiculous, than are imputed to him; fome of them appear almost beyond belief, as they seem entiraly without any motive to incite such barbarities.

The shift object of his cruelty was a person named Palitus, who had devoted himself to death, in case the emperor, who was then fick, should recover. When Caligula's health was re-established, he was informed of the zeal of Politus, and actually compelled bim to complatodis vow. This ridiculous devotee was therefore ked round the city, by children, adorned with chaplets, and then put to death, being thrown headlong from the ramparts. Another, named Secundus, had vowed to fight in the amphitheatre upon the fame occasion. To this he was also compelled, the emperor himself chaosing to be a free later of the combat. However, he was more fortunate than the former, being so fuccessful as

most outrageous tyRome. Ience itself was an unpardonable insensibility, either of the emperor's lofs or his fifter's advancement. Thus he made his fifter subservient to his profit, as before he had done to his pleasure; raising vast sums of money by granting pardons to fome, and by conficating the goods of others. As to his marriages, whether he contracted them with greater levity, or diffolved them with greater injustice, is not easy to determine. Being present at the nuptials of Livia Oreftilla with Pifo, as foon as the folemnity was over, he commanded her to be brought to him as his own wife, and then difmiffed her in a few days. He foon after banished her upon suspicion of cohabiting with her husband after she was parted from him. He was enamoured of Lollia Paulina, upon a bare relation of her grandmother's beauty; and thereupon took her from her hufband, who commanded in Macedonia; notwithstanding which, he repudiated her as he had done the former, and likewife forbade her future marrying with any other. The wife who caught most firmly upon his affections was Milonia Caesonia. whose chief merit lay in her perfect acquaintance with all the alluring arts of her fex, for the was otherwise possessed neither of youth nor beauty. She continued with him during his reign; and he loved her fo ridiculously, that he fometimes showed her to his foldiers dreffed in armour, and fometimes to his companions stark naked.

But of all his vices, his prodigality was the most remarkable, and that which in some measure gave rise to the rest. The luxuries of former emperors were simplicity itself, when compared to those which he practised. He contrived new ways of bathing, where the richest oils and most precious perfumes were exhausted with the utmost profusion. He found out dishes of immense value; and had even jewels, as we are told, diffolved among his fauces. He sometimes had services of pure gold presented before his guests instead of meat; observing, that a man should be an economist or an em-

For feveral days together he flung confiderable fums of money among the people. He ordered ships of a prodigious bulk to be built of cedar, the stems of ivory inlaid with gold and jewels, the fails and tackling of various filks, while the decks were planted with the choicest fruit trees, under the shade of which he often dined. Here, attended by all the ministers of his pleafures, the most exquisite singers, and the most beautiful youths, he coasted along the shore of Campania with great splendor. All his buildings seemed rather calculated to raife aftonishment, than to answer the purposes of utility. But the most notorious instance of his fruitless profusion was the vast bridge at Puteoli, which he undertook in the third year of his reign. To fatisfy his defire of being mafter as well of the ocean as the land, he caused an infinite number of ships to be fastened to each other, so as to make a stoating bridge from Baise to Puteoli, across an arm of the sea three miles and a half broad. The ships being placed in two rows, in form of a crescent, were secured to each other with anchors, chains, and cables. Over these were laid vast quantities of timber, and upon that earth, so as to make the whole refemble one of the fireets of Rome. He next caused several houses to be built upon his new bridge, for the reception of himself and his attendants, into which fresh water was conveyed by pipes from land.

He then repaired thither with all his court, attended by Rome. prodigious throngs of people, who came from all parts to be spectators of such an expensive pageant. It was there that Caligula, adorned with all the magnificence of eastern royalty, fitting on horseback with a civic crown and Alexander's breattplate, attended by the great officers of the army, and all the nobility of Rome, entered at one end of the bridge, and with ridiculous importance rode to the other. At night, the number of torches and other illuminations with which this expenfive firucture was adorned, east fuch a gleam as illuminated the whole bay, and all the neighbouring mountains. This feemed to give the weak emperor new cause for exultation; boatting that he had turned night into day, as well as fea into land. The next morning he again rode over in a triumphal chariot, followed by a numerous train of charioteers, and all his foldiers in glittering armour. He then ascended a rostrum erected for the occasion, where he made a solemn oration in praise of the greatness of his enterprise, and the affiduity of his workmen and his army. He then diffributed re-wards among his men, and a splendid feast succeeded, In the midst of the entertainment many of his attendants were thrown into the fea; feveral ships filled with spectators were attacked and funk in an hostile manner; and although the majority escaped through the calmness of the weather, yet many were drowned; and fome who endeavoured to fave themselves by climbing to the bridge, were struck down again by the emperor's command. The calmness of the sea during this pageant, which continued for two days, furnished Caligula with fresh opportunities for boasting; being heard to fay, " that Neptune took care to keep the fea fmooth and ferene, merely out of reverence to him."

Expences like thefe, it may be naturally supposed, mud have exhausted the most unbounded wealth : in fact, after reigning about a year, Caligula found his revennes totally exhaufted; and a fortune of about 18,000,000 of our money, which Tiberius had amaffed together, entirely fpent in extravagance and folly. Now, therefore, his prodigality put him upon new methods of supplying the exchequer; and as before his profusion, so now his rapacity became boundless. He put in practice all kinds of rapine and extortion; while his principal fludy feemed to be the inventing new impofts and illicit confifcations. Every thing was taxed, to the very wages of the meanest tradesman. He caused freemen to purchase their freedom a second time; and poifoned many who had named him for their heir, to have the immediate possession of their fortunes. He set up a brothel in his own palace, by which he gained confiderable sums by all the methods of prostitution. He also kept a gaming-house, in which he himself presided, scrupling none of the meanest tricks in order to advance his gains. On a certain occasion having had a run of ill luck, he saw two rich knights passing through his court; upon which he fuddenly rofe up, and caufing both to be apprehended, conflicated their estates, and then joining his former companions, boafted that he never had a better throw in his life. Another time, wanting money for a flake, he went down and caused severalnoblemen to be put to death; and then returning, told the company that they fat playing for trifles while he had won 60,000 festerces at a cast.

Such insupportable and capricious cruelties produced

Rome- many fecret conspiracies against him; but these were tain and

for a while deferred, upon account of his intended ex-Ridiculous Ridiculous undertook in the third year of his reign. For this puragainst Bri- pose, he cansed numerous levies to be made in all parts of the empire; and talked with fo much resolution, that it was univerfally believed he would conquer all before him. His march perfectly indicated the inequality of his temper: fometimes it was fo rapid, that the cohorts were obliged to leave their standards behind them; at other times it was fo flow, that it more refembled a pompous procession than a military expedition. In this disposition he would cause himself to be carried on eight men's shoulders, and order all the neighbouring cities to have their streets well swept and watered to defend him from the dust. However, all these mighty preparations ended in nothing. Instead of conquering Britain, he only gave refuge to one of its banished princes; and this he described in a letter to the fenate, as taking possesfion of the whole island. Instead of conquering Germany, he only led his army to the fea shore in Batavia. There disposing his engines and warlike machines with great folemnity, and drawing up his men in order of battle, he went on board his galley, with which coasting along, he commanded his trumpets to found and the fignal to be given as if for an engagement; upon which, his men having had previous orders, immediately fell to gathering the shells that lay upon the shore into their helmets, terming them the fooils of the conquered ocean, worthy of the palace and the capital. After this doughty expedition, calling his army together as a general after victory, he harangued them in a pompous manner, and highly extolled their atchievements; and then diffributing money among them, difmiffed them with orders to be joyful, and congratulated them upon their riches. But that fuch exploits should not pass without a memorial, he caused a lofty tower to be erected by the seafide; and ordered the galleys in which he had put to fea to be conveyed to Rome in a great measure by land.

After numberless instances of folly and cruelty in this expedition, among which he had intentions of destroying the whole army that had formerly mutinied under his father Germanicus, he began to think of a triumph. The fenate, who had long been the timid ministers of his pride and cruelty, immediately set about confulting how to fatisfy his expectations. They confidered that a triumph would, even to himself, appear as a burlefque upon his expedition: they therefore decreed him only an ovation. Having come to this resolution, they fent him a deputation, informing him of the honours granted him, and the decree, which was drawn up in terms of the most extravagant adulation. However, their flattery was far from fatisfying his pride, He confidered their conduct rather as a diminution of his power, than an addition to his glory. He therefore ordered them, on pain of death, not to concern themfelves with his honours; and being met by their messengers on the way, who invited him to come and partake of the preparations which the fenate had decreed, he informed them that he would come; and then laying his hand upon his fword, added, that he would bring that also with him. In this manner, either quite omitting his triumph, or deferring it to another time, he entered the city with only an ovation; while the fenate paffed

the whole day in acclamations in his praise, and speech- Rome. es filled with the maft excessive flattery. This conduct in some measure served to reconcile him, and soon after their excessive zeal in his cause entirely gained his fayour. For it happened that Protogenes, who was one of the most intimate and the most cruel of his favourites. coming into the house, was fawned upon by the whole body of the fenate, and particularly by Proculus. Whereupon Protogenes with a fierce look, asked how one who was fuch an enemy to the emperor could be fuch a friend to him? There needed no more to excite the fenate against Proculus. They instantly seized upon him, and violently tore him in pieces; plainly showing by their conduct, that tyranny in a prince produces cruelty in those whom he governs .- It was after returning from this extravagant expedition, that he was waited upon by a deputation of the Jews of Alexandria, who came to deprecate his anger for not worshipping his divinity as other nations had done. The emperor gave them a very ungracious reception, and would probably have destroyed their countrymen if he had not foon after been cut off.

This affair of the Jews remained undecided during his reign; but it was at last fettled by his fuccessor to their fatisfaction. It was upon this occasion that Philo made the following remarkable answer to his associates, who were terrified with apprehensions of the emperor's indignation: " Fear nothing (cried he to them), Caligula, by declaring against us, puts God on our side."

The continuation of this horrid reign feemed to threaten universal calamity: however, it was but short. A conspi-There had already been feveral conspiracies formed to racy formdestroy the tyrant, but without success. That which ed against at last succeeded in delivering the world of this montter, the was concerted under the influence of Cassius Cherea, tribune of the prætorian bands. This was a man of experienced courage, an ardent admirer of freedom, and confequently an enemy to tyrants. Besides the motives which he had in common with other men, he had received repeated infults from Caligula, who took all occasions of turning him into ridicule, and impeaching him of cowardice, merely because he had an effeminate voice. Whenever Cherea came to demand the watchword from the emperor, according to custom, he always gave him either Venus, Adonis, or some such, implying esseminacy and softness. He therefore secretly imparted his defigns to feveral fenators and knights, whom he knew to have received personal injuries from Caligula, or to be apprehensive of those to come. Among these was Valerius Afiaticus, whose wife the emperor had debauched. Annius Vincianus, who was suspected of baving been in a former conspiracy, was now defirous of really engaging in the first defign that offered. Besides thele, were Clemens the prefect; and Califfus, whose riches made him obnoxious to the tyrant's refentment.

While these were deliberating upon the most certain and speedy method of destroying the tyrant, an unexpected incident gave new thrength to the conspiracy. Pompedius, a fenator of diffinction, having been accused before the emperor, of having spoken of him with difrespect, the informer cited one Quintilia, an actress, to confirm his acculation. Quintilia, however, was poffeffed of a degree of fortitude not eafily found. She denied the fact with obstinacy; and being put to the torture at the informer's request, the bore the severest tor-B b 2

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Meanness

of the fe-

mate.

Rome. ments of the rack with unshaken constancy. But what is most remarkable of ner resolution is, that she was acquainted with all the particulars of the confpiracy; and although Cherea was appointed to prefide at her certure, the reveiled nothing; on the contrary, when the was led to the rack, the trod upon the toe of one of the confpirators, intimating at once her knowledge of the confederacy, and her own resolution not to divulge it. In this manner the fuffered until all her limbs were diflocated; and in that deplorable state was presented to the emperor, who ordered her a gratuity for what the had fuffered. Cherea could now no longer contain his indignation at being thus made the inflrument of a tyrant's cruelty. He therefore proposed to the conspirators to attack him as he went to offer facrifices in the capitol, or while he was employed in the fecret pleafures of the palace. The rest, however, were of opinion, that it was best to fall upon him when he should be unattended; by which means they would be more certain of fuccefs. After feveral deliberations, it was at last resolved to attack him during the continuance of the Palatine games, which lasted four days; and to strike the blow when his guards should have the least opportunity to defend him. In confequence of this, the three first days of the games passed without assorting that opportunity which was so ardently defired. Cherea now, therefore, began to apprehend, that deferring the time of the conspiracy might be a mean to divulge it: he even began to dread, that the honour of killing the tyrant might fall to the lot of fome other person more bold than himself. Wherefore, he at last reloted to defer the execution of his plot only to the day following, when Caligula should pass through a private gallery, to some baths not far distant from the pa-

The last day of the games was more splendid than murdered, the reft; and Caligula feemed more sprightly and condescending than usual. He took great amusement in feeing the people feramble for the fruits and other rarities thrown by his order among them; and feemed no way apprehensive of the plot formed for his destruction. In the mean time, the conspiracy began to tranfpire; and had he possessed any friends, it could not have failed of being discovered. The conspirators waited a great part of the day with the most extreme anxiety; and at one time Caligula feemed resolved to spend the whole day without any refreshment. This unexpected delay entirely exasperated Cherea; and had he not been restrained, he would have gone and perpetrated his defign in the midft of all the people. Just at that inflant, while he was yet hefitating what he should do, Afprenas, one of the conspirators, perfuaded Caligula to go to the bath and take fome flight refreshment, in order to enjoy the rest of the entertainment with greater relish. The emperor therefore rising up, the conspirators used every precaution to keep off the throng, and to furround him, under pretence of greater affiduity. Upon entering into the little vaulted gallery that led to the bath, he was met by a band of Grecian children who had been instructed in finging, and were come to perform in his presence. He was once more therefore going to return into the theatre with them, had not the leader of the band excufed himfelf, as having a cold. This was the moment that Cherea feized to strike him to the ground; crying out, " Tyrant, think upon this." Immediately after, the other con. R mr. spirators rushed in; and while the emperor continued to refift, crying out, that he was not yet dead, they dispatched him with 30 wounds, in the 29th year of his age, after a thort reign of three years ten months and eight days. With him, his wife and infant daughter alto perified; the one being stabbed by a centurion, the other having its brains dathed out against the wall. His coin was also melled down by a decree of the fenate; and fuch precautions were taken, that all feemed willing, that neither his features nor his name might be transmitted to posterity.

As foon as the death of Caligula was made public, it Great conproduced the greatest confusion in all parts of the city, fusion en-The conspirators, who only aimed at destroying a ty-fues on his rant without attending to a fuccessor, had all longht fafety by retiring to private places. Some thought the report of the emperor's death was only an artifice of his own, to fee how his enemies would behave, Others averted that he was still alive, and actually in a fair way to recover. In this interval of suspense, the German guards finding it a convenient time to pillage, gave a loofe to their licentiousness, under a presence of revenging the emperor's death. All the contpirators and lengtors that fell in their way received no mercy : Afprenas, Norbanus, and Anteius, were cut in pieces. However, they grew calm by degrees, and the fenate was perjuitted to affemble, in order to deliberate upon what was necessary to be done in the prefent cmergency.

In this deliberation, Saturninus, who was then coned in raptures of Cherea's fortitude, alleging that it deferved the highest reward. This was a language highly pleafing to the fenate. Liberty now became the favourite topic; and they even ventured to talk of extinguishing the very name of Cæfar. Impressed with this refolution, they brought over some cohorts of the city to their fide, and boldly feized upon the Capitol. But it was now too late for Rome to regain her priffine freedom; the populace and the army opposing their endeavours. The former were still mindful of their ancient hatred to the fenate; and remembered the donations and public spectacles of the emperors with regret. The latter were fensible they could have no power but in a monarchy; and had fome hopes that the election of the emperor would fall to their determination. In this opposition of interests, and variety of opinions, chance feemed at last to decide the fate of the empire. Some foldiers happening to run about the palace, discovered Claudius, Çaligula's uncle, lurking in a fecret place, where he had hid himself through fear. Of this perforage, who had hitherto been despifed for his imbecility, they refolved to make an emperor: and accordingly carried him upon their shoulders to the camp, where they proclaimed him at a time he expected nothing but death.

The senate now, therefore, perceiving that force Claudius alone was likely to fettle the fuccession, were resolved nade emto fubmit, fince they had no power to oppose. Clau-percidius was the person most nearly allied to the late emperor, then living; being the nephew of Tiberius, and the uncle of Calignia. The senate therefore passed a decree, confirming him in the empire; and went foon after in a body, to render him their compelies ho-

mage. Cherea was the first who fell a facrifice to the perlou'y of this new monarch. He met death with all the fortitude of an encient Roman; delling to die by the fame fword with which he had killed Caligula. Lupus, his iriend, was put to death with him; and Sabinus, one of the conspirators, laid visions hands on

measure affected all the faculties bo h of his body and mind. He was continued in a state of pupillage much longer than was usual at that time; and seemed, in every part of his life incapal le of e nducli, g himfelf. Not that he was entirely destitute of as derivending, fince he had made a tolerable proficiency in the Greek and Latin languages, and even wrote a hit ory of his own time; which, however destitute of other merit, was not contemptible in point of style. Nevertheless, with this share of e-udition, he was unable to advance himself in the flate, and feemed utterly neglected un-til he was placed all at once at the head of affairs. The commencement of his reign gave the most promiadmin itra- fing hopes of a happy continuance. He began by passing an act of oblivion for all former words and acof his reign, tions, and diffunulted all the cruel edicts of Caligula. He forbade all persons, upon fevere penalties, to facrifice to him as they had done to Caligula; was affiduous in hearing and examining complaints; and frequently administered justice in person; tempering by his mildness the severity of the law. We are told of his bringing a woman to acknowledge her fon, by adjudging her to marry him. The tribunes of the people coming one day to attend him when he was on the tribunal, he courteously excused himself for not having room for them to fit down. By this deportment he fo much gained the affections of the people, that upon a vague report of his being flain by furprife, they ran about the streets in the utmost rage and consternation, with horrid imprecations against all such as were acceffary to his death; nor could they be appealed, until they were affored, with certainty, of his fafety. He took a more than ordinary care that Rome flould be continually furplied with corn and previsions, fecuring the merchants against pirates. He was not less affiduous in his buildings, in which he excelled almost all that went before him. He constructed a wonderful aquæduct, called after his own name, much furpsfling any other in Rome, either for workmanship or plentiful fupply. It brought water from 40 miles diffance, through great mountains, and over do p valleys; being built on stately arches, and furnishing the highest parts of the city. He made also an haven at Ostia; a work of fuch immense exnence, that his fuccessors were unable to maintain it. But his greatest work of all was the draining of the lake Tucinus, which was the largest in Italy, and bringing its water into the Tiber, in order to ftrengthen the current of that river. For effecting this, among other vast difficulties, he mined through a mountain of stone three miles broad, and kept' 30,000 men employed for 11 years together.

To this folicitude for the internal advantages of the flate, he added that of a watchful guardianship over the provinces. He restored Judea to Herod Agrippa, which Caligula had taken from Herod Antipas, his uncle, the man who had put John the Baptist to death, and who was banished by order of the present emperor. Rome. Claudius also restored such princes to their kingdoms as had been unjustly disposeded by his predecessors; but deprived the Lycians and Rhodians of their liberty, for having promoted infurrections, and crucified fome citizens of Rome.

He even undertook to gratify the people by foreign His ext diconquelt. The Britons, who had, for near 100 years, ton a at f been left in fole poffetfion of their own itland, began Britain to feek the mediation of Rome, to quell their intenine commotions. The principal man who defred to fubject his native country to the Roman dominion, was one Bericus, who, by many arguments, perluaded the emperor to make a delcent upon the illand, magnifying the advantages that would attend the conqueil of it. In pursuance of his advice, therefore, Plautius the piætor was ordered to pass over into Gaul, and make preparations for this great expedition. At first, indeed, his foldiers feemed backward to embark; declaring, that they were unwilling to make war beyond the limits of the world, for so they judged Britain to be. However, they were at last persuaded to go; and he Britons, under the conduct of their king Cynobelinus. were several times overthrown. And these successes soon after induced Claudius to go into Britain in perfon. upon pretence that the natives were still feditious, and had not delivered up fome Roman fugitives who had taken shelter among them; but for a particular account of the exploits of the Romans in this island, fee the article ENGLAND.

But though Claudius gave in the beginning of his Is induced reign the highest hopes of a happy continuance, he by his tafoon began to leffen his care for the public, and to commit commit to his favourites all the concerns of the empire, many acts This weak prince was unable to act but under the di- of crue by. rection of others. The chief of his directors was his wife Meffalina: whose name is almost become a common appellation to women of abandoned characters, . However, the was not less remarkable for her cruelties than her lufts; as by her intrigues the dethroved many of the most illustrious families of Rome. Subordinate to her were the emperor's freedmen; Pallas, the treafurer; Narciffus, the fecretary of tlate; and Calliflus, the mafter of the requests. These entirely governed Claudius; fo that he was only left the fatigues of ceremony, while they were policiled of all the power of

It would be tedious to enumerate the various ernelties which these infidious advisers obliged the feeble emperor to commit: those against his own family will fuffice. Appius Silanus, a person of great merit, who had been married to the emperor's mother-in-law, was put to death upon the fuggestions of Messalina. After him he flew both his fons-in-law, Silanus and Pompey, and his two nieces the Livias, one the daughter of Drufus, the other of Germanicus; and all without permitting them to plead in their defence, or even without affigning any cause for his displeasure. Great faling and her minions; who bore so great a sway in the finte, that all offices, dignities, and governments, were entirely at their disposal. Every thing was put to fale; they took money for pardons and penalties; and accumulated, by these means, such vast sums, that the wealth of Crasfus was confidered as nothing in con-

Rome, parison. One day, the emperor complaining that his exchequer was exhaufted, he was ludicroufly told, that it might be fufficiently replenished if his two freedmen would take him into partnership. Still, however, during fuch corruption, he regarded his favourites with the highest esteem, and even solicited the senate to grant them peculiar marks of their approbation. Thefe disorders in the ministers of government did not fail to produce conspiracies against the emperor. Statius Corvinus and Gallus Affinius formed a conspiraty against him. Two knights, whose names are not told us, privately combined to affaffinate him. But the revolt which gave him the greatest uneafiness, and which was punished with the most unrelenting severity, was that of Camillus, his lieutenant-general in Dalmatia. This general, incited by many of the principal men of Rome, openly rebelled against him, and assumed the title of emperor. Nothing could exceed the terrors of Claudius, upon being informed of this revolt: his nature and his crimes had disposed him to be more cowardly than the rest of mankind; so that when Camillus commanded him by letters to relinquish the empire, and retire to a private station, he feemed inclined to obey. However, his fears upon this occasion were soon removed: for the legions which had declared for Camillus being terrified by fome prodigies, fhortly after abandoned him; fo that the man whom but five days before they had acknowledged as emperor, they now thought it no infamy to destroy. The cruelty of Meffalina and her minions upon this occasion seemed to have no bounds. They fo wrought upon the emperor's fears and fuspicions, that numbers were executed without trial or proof; and scarce any, even of those who were but suspected, escaped, unless by ransoming their lives with their fortunes.

Their infamous conduct.

But fuch cruelties as thefe, the favourites of the emperor endeavoured to establish his and their own authority: but in order to increase the necessity of their asfistance, they laboured to augment the greatness of his terrors. He now became a prey to jealoufy and difquietude. Being one day in the temple, and finding a fword that was left there by accident, he convened the senate in a fright, and informed them of his danger. After this he never ventured to go to any feast without being furrounded by his guards, nor would he fuffer any man to approach him without a previous fearch. Thus wholly employed by his anxiety for felfprefervation, he entirely left the care of the state to his favourites, who by degrees gave him a relish for slaughter. From this time he seemed delighted with inflicting tortures; and on a certain occasion continued a whole day at the city Tibur, waiting for a hangman from Rome, that he might feast his eyes with an execution in the manner of the ancients. Nor was he less regardless of the persons he condemned, than cruel in the infliction of their punishment. Such was his extreme stupidity, that he would frequently invite those to supper whom he had put to death but the day before; and often denied the having given orders for an execution, but a few hours after pronouncing fentence. Suetonius affures us, that there were no less than 35 senators, and above 300 knights, executed in his reign; and that fuch was his unconcern in the midst of flaughter, that one of the tribunes bringing him an account of a certain fenator who was executed, he quite

forgot his offence, but calmly acquiefced in his punish- Rome. In this manner was Claudius urged on by Meffalina Extrava-

to commit cruelties, which he confidered only as whole-gant lewdfome feverities; while, in the mean time, she put no ness of the bounds to her enormities. The impunity of her part empress vices only increasing her confidence to commit new Mcffalina. her debaucheries became every day more notorious, and her lewdness exceeded what had ever been seen at Rome. She caused some women of the first quality to commit adultery in the presence of their husbands, and destroyed fuch as refused to comply. After appearing tor fome years infatiable in her defires, the at length fixed her affections upon Cains Silius, the most beautiful youth in Rome. Her love for the young Roman feemed to amount even to madness. She obliged him to divorce his wife Junia Syllana, that the might entirely poffess him herself. She obliged him to accept of immense treasures and valuable presents; cohabiting with him in the most open manner, and treating him with the most shameless familiarity. The very imperial ornaments were transferred to his house; and the emperor's flaves and attendants had orders to wait upon the adulterer. Nothing was wanting to complete the infolence of their conduct, but their being married together; and this was foon after effected. They relied upon the emperor's imbecility for their fecurity, and only waited till he retired to Oftia to put their illjudged project in execution. In his absence, they celebrated their nuptials with all the ceremonies and fplendor which attend the most confident security. Messalina gave a loose to her passion, and appeared as a Bacchanalian with a thyrsus in her hand; while Silius assumed the character of Bacchus, his body being adorned with robes imitating ivy, and his legs covered with bulkins. A troop of fingers and dancers attended, who heightened the revel with the most lascivious fongs and the most indecent attitudes. In the midst of this riot, one Valens, a buffoon, is faid to have climb. ed a tree; and being demanded what he faw, answered that he perceived a dreadful florm coming from Offia. What this fellow spoke at random was actually at that time in preparation. It feems that fome time before there had been a quarrel between Messalina and Narcisfus, the emperor's first freedman. This subtle minister therefore defired nothing more than an opportunity of ruining the empress, and he judged this to be a most favourable occasion. He first made the discovery by means of two concubines who attended the emperor, who were instructed to inform him of Messalina's marriage as the news of the day, while Narciffus himself stepped in to confirm their information. Finding it operated upon the emperor's fears as he could wish, he resolved to alarm him still more by a discovery of all Meffalina's projects and attempts. He aggravated the danger, and urged the expediency of speedily punishing the dilinquents. Claudius, quite terrified at so unexpected a relation, supposed the enemy were already at his gates; and frequently interrupted his freedman, by asking if he was still master of the empire. Being affured that he yet had it in his power to continue fo, he refolved to go and punish the affront offered to his dignity without delay. Nothing could exceed the consternation of Messalina and her thoughtless companions, upon being informed that the empeRome, ror was coming to diffurb their festivity. Every one move in the senate, that he should be compelled to take Rome. retired in the utmost confusion. Silius was taken. Meffalina took shelter in some gardens which she had lately feized upon, having expelled Afiaticus the true owner, and put him to death. From thence she sent Britannicus, her onle fon by the emperor, with Octavia her daughter, to intercede for her, and implore his mercy. She foon after followed them herfelf; but Narciffus had fo fortified the emperor against her arts, and contrived fuch methods of diverting his attention from her defence, that the was obliged to return in defpair. Narcissus being thus far successful, led Claudius to the house of the adulterer, there showing him the apartments adorned with the spoils of his own palace; and then conducting him to the prætorian camp, revived his courage by giving him affurances of the readiness of the foldiers to defend him. Having thus artfully wrought upon his fears and refentment, the wretched Silius was commanded to appear; who, making no defence, was instantly put to death in the emperor's presence. Several others shared the same sate; but Meffalina still flattered herself with hopes of pardon. She refolved to leave neither prayers nor tears unattempted to appeale the emperor. She fometimes even gave a loofe to her refentment, and threatened her accufers with vengeance. Nor did she want ground for entertaining the most favourable expectations. Claudius having returned from the execution of her paramour, and having allayed his refentment in a banquet, began to relent. He now therefore commanded his attendants to apprife that miferable creature, meaning Meffalina, of his resolution to hear her accusation the next day, and ordered her to be in readiness with her defence. The permission to defend herself would have been fatal to Narciflus; wherefore he rushed out, and ordered the tribunes and centurions who were in readiness to execute her immediately by the emperor's command. Claudius was informed of her death in the midst of his banquet; but this infensible idiot showed not the least appearance of emotion. He continued at table with his usual tranquillity; and the day following, while he was fitting at dinner, he asked why Messalina was ablent, as if he had totally forgotten her crimes and her punishment.

Claudius being now a widower, declared publicly, that as he had hitherto been unfortunate in his marriages, he would remain fingle for the future, and that he would be contented to forfeit his life in case he broke his resolution. However, the resolutions of Claudius were but of short continuance. Having been accuflomed to live under the controll of women, his present freedom was become irksome to him, and he was entirely unable to live without a director. His freedmen therefore perceiving his inclinations, refolved to procure him another wife; and, after some deliberation, they fixed upon Agrippina, the daughter of his bro-The empether Germanicus. This woman was more practifed in for matries vice than even the former empress. Her cruelties were Agrippina. more dangerous, as they were directed with greater caution: she had poisoned her former husband, to be at liberty to attend the calls of ambition; and, perfect. ly acquainted with all the infirmities of Claudius, only made use of his power to advance her own. However, as the late declaration of Claudius feemed to be an obstacle to his marrying again, persons were suborned to

a wife, as a matter of great importance to the commonwealth; and fome more determined flatterers than the rest left the house, as with a thorough resolution, that inflant, to confirmin him. When this decree paffed in the senate, Claudius had scarce patience to contain lumfelf a day before the celebration of his nuntials. However, fuch was the detestation in which the people in general held these incestuous matches, that though they were made lawful, yet only one of his tribunes, and one of his freedmen, followed his example.

Claudius having now received a new director, fubmitted with more implicit obedience than in any former part of his reign. Agrippina's chief aims were to gain the fuccession in favour of her own fon Nero, and to fet afide the claims of young Britannicus, son to the emperor and Messalina. For this purpose she married Nero to the emperor's daughter Octavia, a few days after her own marriage. Not long after this, the urged the emperor to strengthen the succession, in imitation of his predecessors, by making a new adoption; and caused him take in her son Nero, in some measure to divide the fatigues of government. Her next care was to increase her son's popularity, by giving him Seneca for a tutor. This excellent man, by birth a Spaniard, had been banithed by Claudius, upon the false testimony of Messalina, who had accused him of adultery with Julia the emperor's niece. The people loved and admired him for his genius, but still more for his strict morality; and a part of his reputation necessarily devolved to his pupil. This subtle woman was not less affiduous in pretending the utmost affection for Britannicus; whom, however, she resolved in a proper time to destroy: but her jealousy was not confined to this child only; the, thortly after her accession, procured the deaths of feveral ladies who had been her rivals in the emperor's affections. She displaced the captains of the guard, and appointed Burrhus to that command; a person of great military knowledge, and ftrongly attached to her interests. From that time she took less pains to difguise her power, and frequently entered the Capitol in a chariot; a privilege which none before were allowed, except of the facerdotal order.

In the 12th year of this monarch's reign, she perfuaded him to restore liberty to the Rhodians, of which he had deprived them fome years before; and to remit the taxes of the city Ilium, as having been the progenitors of Rome. Her delign in this was to increase the popularity of Nero, who pleaded the cause of both cities with great approbation. Thus did this ambitious woman take every step to aggrandize her fon, and was even contented to become hateful herfelf

to the public, merely to increase his popularity. Such a very immoderate abuse of her power served at last to awaken the emperor's suspicions. Agrippina's imperious temper began to grow insupportable to him and he was heard to declare, when heated with wine, that it was his fate to fuffer the diforders of his wives, and to be their executioner. This expression funk deep on her mind, and engaged all her faculties to prevent the blow. Her first care was to remove Narciffus, whom the hated upon many accounts, but particularly for his attachment to Claudius. This minifler, for some time, opposed her designs; but at length thought fit to retire, by a voluntary exile, into Campa-

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By whom he is poinia. The unhappy emperor, thus exposed to all the machinations of his infidious confort, feemed entirely regardless of the danger that threatened his defiringtion. His affection for Britannicus was perceived every day to increase, which served also to increase the vigireceand jealoufy of Agrippina. She now, therefore, resolved not to defer a crime which the had meditated a long while before; namely, that of poisoning her husband. She for fome time, however, debated with herfelf in what manner she should administer the poifon; as the feared too ftrong a dofe would discover her treachery, and one too weak might fail of its effects. At length the determined upon a poifon of fingular efficacy to destroy his intellects, and yet not suddenly to terminate his life. As the had been long converfant in this horrid practice, the applied to a woman called Locusta, notorious for assisting on such occasions. The poison was given to the emperor among mushrooms, a dish he was particularly fond of. Shortly after having eaten, he dropped down infenfible; but this caufed no alarm, as it was usual with him to fit eating till he had stupified all his faculties, and was obliged to be carried off to his bed from the table. However, his constitution seemed to overcome the effects of his potion, when Agrippina refolved to make fure of him: wherefore the directed a wretched phytician, who was her creature, to thrust a poisoned feather down his throat, under pretence of making him vomit; and thus dispatched him.

The reign of this emperor, feeble and impotent as he was, produced no great calamities in the flate, fince his cruelties were chiefly levelled at those about his person. The list of the inhabitants of Rome at this time amounted to fix millions eight hundred and forty-four thoufand fouls; a number little inferior to all the people of England at this day. The general character of the times was that of corruption and luxury: but the military spirit of Rome, though much relaxed from its former feverity, still continued to awe mankind; and though during this reign, the empire might be justly faid to be without a head, yet the terror of the Roman

name alone kept the nations in obedience.

Claudius being destroyed, Agrippina took every precaution to conceal his death from the public, until she had fettled her measures for fecuring the fuccession. A firong guard was placed at all the avenues of the palace, while the amufed the people with various reports; at one time giving out that he was fill alive; at another, that he was recovering. In the meanwhile, the made fure of the person of young Britannicus, under a pretence of affection for him. Like one overcome with the extremity of her grief, she held the child in her arms, calling him the dear image of his father, and thus preventing his ofcape. She used the same precautions with regard to his fifters, Octavia and Antonia; and even ordered an entertainment in the palace. as if to amuse the emperor. At last, when all things were adjusted, the palace gates were thrown open, and reeds to the Nero, accompanied by Burrhus, prefect of the Prætorian guards, issued to receive the congratulations of the people and the army. The cohorts then attending, proclaimed him with the loudest acclamations, though not without making some inquiries after Britanoicus. He was carried in a chariot to the rest of the army; wherein having made a fpeech proper to the occasion, and promifing them a donation, in the manner of his predecessors, he was declared emperor by the army, the fenate, and the people.

Nero's first care was, to show all possible refeet to the deceased emperor, in order to cover the guilt of his death. His oblequies were performed with a pomp equal to that of Augustus: the young emperor pronounced his funeral oration, and he was canonized among the gods. The funeral oration, though spoken by Nero, was drawn up by Seneca; and it was remarked, that this was the first time a Roman emperor needed the affist-

ance of another's elequence.

Nero, though but 17 years of age, began his reign with the general approbation of mankind. As he owed the empire to Agrippina, so in the beginning he submitted to her directions with the most implicit obedience. On her part, the feemed refolved on governing with her natural ferocity, and confidered her private animolities as the only rule to guide her in public justice. Immediately after the death of Claudius, the caufed Silanus, the pro-conful of Afia, to be affaffinated upon very flight fufpicions, and without ever acquainting the em-peror with her defign. The next object of her refentment was Narciffus, the late emperor's favourite; a man equally notorious for the greatness of his wealth and the number of his crimes. He was obliged to put an end to his life by Agrippina's order, though Nero re-

fused his consent. This bloody onfet would have been followed by His excelmany feverities of the fame nature, had not Senecatest admiand Burrhus, the emperor's tutor and general, oppo-niftration fed. These worthy men, although they owed their for five rife to the empress, were above being the inftruments years. of her cruelty. They, therefore, combined together in an opposition; and gaining the young emperor on their fide, formed a plan of power, at once the most merciful and wife. The beginning of this monarch's reign, while he continued to act by their counfels, has always been confidered as a model for succeeding princes to govern by. The famous emperor Traian ufcd to fav, "That for the first five years of this prince all other governments came flort of his." In fact, the voung monarch knew fo well how to conceal his innate depravity, that his nearest friends could scarcely perceive his virtues to be but assumed. He appeared just, liberal, and humane. When a warrant for the execution of a criminal was brought to him to be figned, he was heard to cry out, with feeming concern, " Would

plaufe for the regularity and justice of his administration; he replied with fingular modesty, " That they should defer their thanks till he had deferved them." His condescension and affability were not less than his other virtues; fo that the Romans began to think, that the clemency of this prince would compensate for the tyranny of his predeceffors.

to Heaven that I had never learned to write!" The

fenate, upon a certain occasion, giving him their ap-

In the mean time, Agrippina, who was excluded from any thare in government, attempted, by every possible method, to maintain her declining power. Perceiving that her fon had fallen in love with a freedwoman, named Acle, and dreading the influence of a concubine, the tried every art to prevent his growing petfion. However, in to corrupt a court, it was no difficult matter for the emperor to find other confi-

He prowokes his mother.

dants ready to affet him in his withes. The gratification of his pallion, therefore, in this inftance, only ferved to increase his hatred for the empress. Nor was it long before he gave evident marks of his difubedie to, by displacing Pallas her chief favourite. It was upon this occasion that the first perceived the total declention of her authority; which threw her into the most ungovernable fury. In order to give terror to her rage, the proclaimed that Bri annicus, the real heir to the throne, was thill living, and in a condition to receive his father's empire, which was now possessed by an usurper. She threatened to go to the camp, and there expose his baseness and her own, invoking all the furies to her affidunce. These menaces served to alarm the suspicious of Nero; who, though apparently guiled by his governors, yet had begun to give way to his natural depravity. He, therefore, determined his prother, upon the death of Britannicus, and contrived to have him poiloned at a public banquet. Agrippina, however, ttill retained her natural ferocity: the took every opportunity of ooliging and flattering the tribunus and centurions; the he ped up tre-fures with a rapacity beyond her natural avarice; all her actions feemed calculated to raife a faction, and make herfelf formidable to the emperor. Whereupon Nero commanded her German grand to be taken from her, and obliged her to lodge out of the pri ce. He and foronde particular ptrfons to visit her, and went hillsfelf but narely and ce.em bioully to pay her his reflects. S. e now, therefore, began to find, hat, with the emperor's faveur, the had lott the affiliaity of her friends. She was even accused by S.lina of confpiring against her son, and of defigning to marry Pl utius, a person descended from Augustus, and making him emperor. A fhort time after, Pallas, her favourite, together with Burrhus, were arraigned for a fimilar offence, and intending to fet up Cornelius Sylla. These informations being proved void of any foundation, the informers were banished; a punishment

ness of the offence. Shameful

behaviour

of the em-

perer.

As Nero increased in years, his crimes seemed to increase in equal proportion. He now began to find a pleasure in running about the city by night, difguifed like a flave. In this vile habit he entered taverns and brothels, attended by the lewd ministers of his pleafures, attempting the lives of fuch as opposed him, and frequently endangering his own. In imitation of the emperor's example, numbers of profligate young men infested the firects likewise; so that every night the city was filled with tumult and diforder. However, the people bore all these levities, which they ascribed to the emperor's youth, with patience, having occasion every day to experience his liberality, and having also been gratified by the abolition of many of their taxes, The provinces also were no way affected by these riots; for except disturbances on the fide of the Parthians, which were foon suppressed, they enjoyed the most perfect tranquilli y.

which was confidered as very inadequate to the great-

But those sensualities, which, for the first four years of his reign, produced but few diforders, in the fifth became alarming. He first began to transgress the bounds of deceney, by publicly abandoning Octavia, his present wife, and then by taking Poppea, the wife of his favourite Otho, a woman more celebrated for

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her beauty than her virtues. This was another grating Rome circumstance to Agrippina, who vainly used all her interest to disgrace Poppea, and reinstate herself in her fon's loft favour. Hillorians affert, that the even offered to fatisfy his passion herself by an incestuous compliance; and that, had not Seneca interpoled, the fon would have joined in the mother's crime. This, however, does not feem probable, fince we find Poppea victorious, foon after, in the contention of interests; and at last impelling Nero to parricide, to fatisfy her revenge. She began her arts by urging him to divorce his present wife, and marry herself: the reproached him as a pupil, who wanted not only power over others, but liberty to direct himfelf. She infinuated the dangerous deligns of Agrippina; and, by degrees, accustomed his mind to reflect on particide without horror. His cruelties agai. It his mother began rather by various circumstances of petry malice than by any downright injury. He encouraged feveral persons to tease her with litigious fuits; and employed feme of the meanest of the people to fing fatitical fongs against her, under her windows: but, at last, finding these inessectual in breaking her spirit, he resolved on putting her to death. His first attempt was by poifon; but this, though twice repeated, proved ineffectual, as the had fortified her conflictation against it by antidotes. This failing, a ship was contrived in fo artificial a manner as to fall to pieces in the water; on board of which the was invited to fail to the coasts of Calabria. However, this plot was as ineffectual as the former: the mariners, not being apprifed of the fecret, diffurbed each other's operations; fo that the flap not finking as readily as was expected, Agrippina found means to continue fivining, till file was taken up by some trading vessels palling that way. Nero finding all his muchinations were discovered, refolved to throw off the night, and put her openly to death, without further delay. He therefore cauled a report to be spread, that the had conspired against him. and that a poniard was dropped at his feet by one who pretended a command from Agrippina to affaffinate him. In consequence of this, he applied to his governors Seneca and Burrhus, for their advice how to act, and their assistance in ridding him of his fears. Things were now come to such a crisis, that no middle way could be taken; and either Nero or Agrippina was to fall. Seneca, therefore, kept a profound filence; while Burrhus, with more refolution, refused to be perpetrator of fo great a crime; alleging, that the army was entirely devoted to all the descendants of Cæsar, and would never be brought to imbrue their hands in the blood of any of his family. In this embarraffment, Anicetus, the contriver of the ship above-mentioned, offered his fervices; which Nero accepted with the greatest joy, crying out, " That then was the first moment he ever found himself an emperor." This freedman, therefore, taking with him a body of foldiers, furrounded the house of Agrippina, and then forced open the doors. The executioners having dispatched Cautes his her with feveral wounds, left her dead on the couch, and be murderwent to inform Nero of what they had done. Some ed. historians say, that Nero came immediately to view the body; that he continued to gaze upon it with pleafure, and ended his horrid furvey, by coolly observing, that he never thought his mother had been so handsome .--However

However this be, he vindicated his conduct next day to the fenate; who not only excused, but applauded his

Folly and impiety.

All the bounds of virtue being thus broken down, meannes of Nero now gave a loose to his appetites, that were not only fordid but inhuman. There feemed an odd contraft in his disposition; for while he practised cruelties which were fufficient to make the mind shudder with horror, he was fond of those amusing arts that soften and refine the heart. He was particularly addicted, even from childhood, to music, and not totally ignorant of poetry. But chariot-driving was his favourite pursuit. He never missed the circus, when chariot-races were to be exhibited there; appearing at first privately, and foon after publicly; till at last, his passion increasing by indulgence, he was not content with being merely a spectator, but resolved to become one of the principal performers. His governors, however, did all in their power to restrain this perverted ambition; but finding him refolute, they inclosed a space of ground in the valley of the Vatican, where he first exhibited only to fome chofen spectators, but shortly after invited the whole town. The praises of his flattering subjects only filmulated him fill more to these unbecoming pursuits; fo that he now refolved to assume a new character, and to appear as a finger upon the stage.

His passion for music, as was observed, was no less natural to him than the former; but as it was lefs manly, fo he endeavoured to defend it by the example of some of the most celebrated men, who practised it with the same fondness. He had been instructed in the principles of this art from his elaldhood; and upon his advancement to the empire, he had put himfelf under the most celebrated maders. He patiently submitted to their instructions, and used all those methods which singers practife, either to mend the voice, or improve its volubility. Yet, notwithstanding all his assiduity, his voice was but a wretched one, being both feeble and unpleafant. However, he was refolved to produce it to the public, fuch as it was; for flattery, he knew, would fupply every deficiency. His first public appearance was at games of his own institution, called juveniles; where he advanced upon the stage, tuning his instru-ment to his voice with great appearance of skill. A group of tribunes and centurions attended behind him; while his old governor Burrhus stood by his hopeful pupil, with indignation in his countenance, and praifes

He was defirous also of becoming a poet: but he was unwilling to undergo the pain of fludy, which a proficiency in that art requires; he was definous of being a poet ready made. For this purpole, he got together feveral persons, who were confidered as great wits at court, though but very little known as fuch to the These attended him with verses which they had composed at home, or which they blabbed out extemporaneously; and the whole of their compositions teing tacked together, by his direction, was called a poem. Nor was he without his philosophers also; he took a pleafure in hearing their debates after supper, but he heard them merely for his amufement.

Furnished with fuch talents as these for giving pleafure, he was refolved to make the tour of his empire, and give the most public difplay of his abilities wherever he came. The place of his first exhibition,

upon leaving Rome, was Naples. The crowds there Rome were so great, and the curiofity of the people so earnost in licaring him, that they did not perceive an earthquake that happened while he was finging. His defire of gaining the superiority over the other afters was truly ridiculous; he made interest with his judges, reviled his competitors, formed private factions to fupport him, all in imitation of those who got their livelihood upon the stage. While he continued to perform, no man was permitted to depart from the theatre, upon any pretence whatfoever. Some were fo fatigued with hearing him, that they leaped privately from the walls, or pretended to fall into fainting fits, in order to be carried out. Nay, it is faid, that feveral women were delivered in the theatre. Soldiers were placed in feveral parts to observe the looks and gestures of the spectators, either to direct them where to point their applaufe, or restrain their displeasure. An old senator, named Vejpalian, afterwards emperor, happening to fall afteep upon one of these occasions, very narrowly escaped with

After being fatigued with the praifes of his countrymen, Nero refolved upon going over into Greece, to receive new theatrical honours. The occasion was this. The cities of Greece had made a law to fend him the crowns from all the games; and deputies were accordingly difpatched with this (to him) important embaffy. As he one day entertained them at his table in the most sumptuous manner, and converfed with them with the utmost familiarity, they intreated to hear him fing. Upon his complying, the artful Greeks testified all the marks of ecstafy and rapture. Applauses so warm were peculiarly pleafing to Nero: he could not refrain from crying out, That the Greeks alone were worthy to hear him; and accordingly prepared without delay to go into Greece, where he fpent the whole year enfuing. In this journey, his retinue refembled an army in number; but it was only composed of fingers, dancers, taylors, and other attendants upon the theatre-He paffed over all Greece, and exhibited at all their games, which he ordered to be celebrated in one year. At the Olympic games he refolved to show the people fomething extraordinary; wherefore; he drove a chariot with 10 horses; but being unable to sustain the violence of the motion, he was driven from his feat. The fpectators, however, gave their unanimous applaufe, and he was crowned as conqueror. In this manner he obtained the prize at the Ishmian, Pythian, and Nemean games. The Greeks were not sparing of their crowns; he obtained 1800 of them. An unfortunate singer happened to oppose him on one of these occasions, and exerted all the powers of his art, which, it appears, were prodigious. But he feems to have been a better finger than a politician; for Nero ordered him to be killed on the fpot. Upon his return from Greece, he entered Naples, through a breach in the walls of the city, as was customary with those who were conquerors in the Olympic games. But all the fplendor of his return was referved for his entry into Rome. There he appeared feated in the chariot of Augustus, dressed in robes of purple, and crowned with wild olive, which was the Olympic garland. He bore in his hand the Pythian crown, and had 1100 more carried before him .-Befide him fat one Diodorus, a mufician; and behind him followed a band of fingers, as numerous as a legion, who fung in honour of his victories. The fenate. the knights, and the people, attended this puerile pageant, filling the air with their acclamations. The whole city was illuminated, every freet fmoked with incenfe; wherever he paffed, victims were flain; the pavement was firewed with faffron, while garlands of flowers, ribbons, fowls, and pasties, (for so we are told), were showered down upon him from the windows as he paffed along. So many honours only inflamed his defire of acquiring new; he at last began to take lessons in wreftling; willing to imitate Hercules in firength, as he had rivalled Apollo in activity. He also caused a lion of pasteboard to be made with great ait, against which he undauntedly appeared in the theatre, and flruck

it down with a blow of his club. Barming of

But hls cruelties even outdid all his other extravagancies, a complete lift of which would exceed the limits of the present article. He was often heard to observe, that he had rather be hated than loved. When one happened to fay in his prefence, That the world might be burned when he was dead: "Nay," replied Nero, "let it be burnt while I am alive." In fact, a great part of the city of Rome was confumed by fire shortly after. This remarkable conflagration took place in the 11th year of Nero's reign. The fire began among certain shops, in which were kept such goods as were proper to feed it; and spread every way with such amazing rapidity, that its havock was felt in diltant ffreets, before any measures to stop it could be tried. Befides an infinite number of common houses, all the noble monuments of antiquity, all the stately palaces, temples, porticoes, with goods, riches, furniture, and merchandife, to an immense value, were devoured by the flames, which raged first in the low regions of the city, and then mounted to the higher with such terrible violence and impetuofity, as to fruthrate all relief. The shrieks of the women, the various efforts of some endeavouring to fave the young and tender, of others attempting to affift the aged and infirm, and the hurry of fuch as itrove only to provide for themselves, occasioned 2 mutual interruption and univerfal confusion. Many, while they chiefly regarded the danger that purfued them from behind, found themselves suddenly involved in the flames before and on every fide. If they escaped into the quarters adjoining, or into the parts quite remote, there too they met with the devouring flames. At last, not knowing whither to fly, nor where to feek functuary, they abandoned the city, and repaired to the open fields. Some, out of despair for the loss of their whole fubflance, others, through tendernels for their children and relations, whom they had not been able to fnatch from the flames, fuffered themselves to perith in them, though they might eafily have found means to escape. No man dared to flop the progress of the fire, there being many who had no other business but to prevent with repeated menaces all attempts of that nature; nay, some were, in the face of the public, feen to throw lighted firebrands into the houses, loudly-declaring that they were authorifed fo to do; but whether this was only a device to plunder the more freely, or in reality they had fuch orders, was never certainly known.

Nero, who was then at Antium, did not offer to return to the city, till he heard that the flames were advancing to his palace, which, after his arrival, was, in spite of all opposition, burnt down to the ground,

with all the houses adjoining to it. However, Nero, af- Rome, fecting compassion for the multitude, thus vagabond and bereft of their dwellings, laid open the field of Mars, and all the great edinces erected there by Agrippa, and even his own gardens. He likewife caused tabernacles to be reared in halte for the reception of the forlorn populace; from Oilia, too, and the neighbourniture and necessaries, and the price of corn was contidetably leffened. But these bounties, however generous and popular, were boftowed in vain, because a report was spread abroad, that, during the time of this general conflagration, he mounted his domeltic flage, and fung the destruction of Troy, comparing the present defolation to the celebrated calamities of antiquity. At length, on the fixth day, the fury of the flames was Ropped at the foot of Mount Efquiline, by levelling with the ground an infinite number of buildings; fo that the fire found nothing to encounter but the open fields and empty air.

But scarce had the late alarm ceased, when the fire broke out anew with fresh rage, but in places more wide and spacious; whence fewer persons were destroyed, but more temples and public porticoes were overthrown. As this fecond conflagration broke out in cer tain buildings belonging to Tigellinus, they were both generally ascribed to Nero; and it was conjectured, that, by deftroying the old city, he simed at the glory of building a new one, and calling it by his name. Of the fourteen quarters into which Rome was divided, four remained entire, three were laid in ashes, and, in the fe ven others, there remained here and there a few houf miferably thattered, and half confumed. Among the many ancient and stately edifices, which the rage of the flames utterly confumed, Tacitus reckons the temple dedicated by Servius Tullius to the Moon; the temple and great altar confectated by Evander to Hercules; the chapel vowed by Romulus to Jupiter Stator; the court of Numa, with the temple of Veila, and in it the tutelar gods peculiar to the Romans. In the fame fate were involved the inestimable treasures acquired by fo many victories, the wonderful works of the best painters and sculptors of Greece, and, what is still more to be lamented, the ancient writings of the celebrated authors, till then preferved perfectly entire. It was ob-

Upon the rains of the demolished city, Nero found-New's guled a palace, which he called his golden house; though den pe aceit was not fo much admired on account of an immense profusion of gold, precious slones, and other inestimable ornaments, as for its vall extent, containing fpacious fields, large wildernesses, artificial lakes, thick woods, orchards, vineyards, hills, groves, &c. entrance of this stately edifice was wisle enough to receive a coloffus, reprefenting Nero, 120 feet high : the galleries, which confitted of three rows of tall pillars, were each a full mile in length; the lakes were encompassed with magnificent buildings, in the manner of cities; and the woods flocked with all manner of wild beafts. The houfe itself was tiled with gold : the walls were covered with the fame metal, and richly adorned with pr cious flones and mother of pearl, which in those d ye was valued above gold: tile timber-work and ceil-

ferved, that the fire began the fame day on which the

Gauls, having formerly taken the city, burnt it to the

ing: of the rooms were inlaid with gold and ivory t the roof of one of the banqueting-rooms refembled the firmament both in its figure and motion, turning inceffantly about night and day, and showering all forts of fiveet waters. When this magnificent flructure was finished. Nero approved of it only so far as to fav. that at length he began to lodge like a man. Pliny tells us, that this palace extended quite round the city. Nero, it feems, did not finish it; for the first order Otho figned was, as we read in Suctonius, for fifty millions of fefferces to be employed in perfecting the golden palace which

307 Findertakes to cut a canal from A vernus to

Nero had begun. The projectors of the plan were Severus and Color. two bold and enterprifing men, who foon after put the emperor upon a ftill more expensive and arduous enterthe Tiber, taking, namely, that of cutting a canal through hard rocks and Reep mountains, from the lake Avernus to the mouth of the Tiber, 160 miles in length, and of fuch breadth that two galleys of five ranks of oars might eafily pass abreast. His view in this was to open a communication between Rome and Campania, free from the troubles and dangers of the fea; for this very year, a great number of veffels laden with corn were thipwrecked at Mifenum, the pilots choosing rather to venture out in a violent florm, than not to arrive at the time they were expected by Nero. For the executing of this great undertaking, the emperor ordered the prifoners from all parts to be transported into Italy; and fuch as were convicted, whatever their crimes were, to be condemned only to his works. Nero, who undertook nothing with more ardour and readiness than what was deemed impossible, expended incredible sums in this rash undertaking, and exerted all his might to cut through the mountains adjoining to the lake Avernus; but, not being able to remove by art the obilacles of nature, he was in the end obliged to drop the enter-

The ground that was not taken up by the foundations of Nero's own palace, he affigned for houses, which were not placed, as after the burning of the city by the Gauls, at random, and without order; but the streets were laid out regularly, spacious and straight; the edifices restrained to a certain height, perhaps of 70 feet, according to the plan of Augustus; the courts were widened; and to all the great houses which stood by themselves, and were called iffes, large porticoes were added, which Nero engaged to raise at his own expence, and to deliver to each proprietor the fquares about them clear from all rubbish. He likewise promifed rewards according to every man's rank and fubstance; and fixed a day for the performance of his promife, on condition that against that day their several houses and palaces were finished. He moreover made the following wife regulations to obviate fuch a dreadful calamity for the future; to wit, That the new buildings flould be raifed to a certain height without timber: that they should be arched with stone from the quarries of Gabii and Alba, which were proof against fire; that over the common springs, which were diverted by private men for their own uses, overseers should be placed to prevent that abuse; that every citizen should have ready in his house some machine proper to extinguish the fire; that no wall should be common to two Loufes, but every house be inclosed within its own prouliar walls, Scc. Thus the city in a fhort time role out Romes of its ashes with new luttre, and more beautiful than ever. However, some believed, that the ancient formwas more conducive to health, the rays of the fun being hardly felt on account of the narrowness of the fireets, and the height of the buildings, whereas now there was no shelter against the scorching heat. We are told, that Nero deligned to extend the walls to Oftia, and to bring from thence by a canal the fea into the

The emperor used every art to throw the odium of

this conflagration upon the Christians, who were at that time gaining ground in Rome. Nothing could be more dreadful than the perfecution raifed against them upon this false accusation, of which an account is given under the article Ecclesiaftical HISTORT. Hitherto, The confoihowever, the citizens of Rome feemed comparatively ex-racy of Pife. empted from his cruelties, which chiefly fell upon ffrongers and his nearest connections; but a conspiracy formed against him by Pifo, a man of great power and integrity, which was prematurely discovered, opened a new train of suspicions that destroyed many of the principal families in Rome. This conspiracy, in which feveral of the chief men of the city were concerned, was first discovered by the indifereet zeal of a woman named Epicharis, who, by fome means now unknown, had been let into the plot, which the revealed to Volutius, a tribune, in order to prevail upon him to be an accomplice. Volutius, inflead of coming into her defign, went and discovered what he had learned to Nero, who immediately put Epicharis in prifon. Soon after, a freedman belonging to Scænius, one of the accomplices, made a farther discovery. The confpirators were examined apart; and as their testimonies differed, they were put to the torture. Natalis was the first who made a confession of his own guilt and that of many others. Seenius gave a lift of the conspirators still more ample. Lucan, the poet, was amongst the number ; and he, like the reft, in order to fave himfelf, ftill farther enlarged the catalogue, naming, among others, Attilia, his own mother. Epicharis was now, therefore, again called upon and put to the torture; but her fortitude was proof against all the tyrant's cruelty; neither scourging nor turning, nor all the malicious methods used by the executioners, could extort the smallest confession. She was therefore a manded to prison, with orders to have her tertures renewed the day following. In the meantime, the fourd an opportunity of firangling herfelf with her handkerchief, by hanging it against the back of her chair. On the discoveries already made, Pifo, Lateranus, Fennius Rufus, Subrius Flavius, Sulpicius Afper, Vettinus the conful, and numberless others, were all executed without mercy. But the two most remarkable perforages who fell on this occasion were Seneca the philosopher, and Lucan the poet, who was his nephew. It is not certainly known whether Seneca was really concerned in this confpiracy or not .--This great man had for fome time perceived the outrageous conduct of his pupil; and, finding himfelf incapable of controlling his favage disposition, had retired from court into folitude and privacy. However, his retreat did not now protect him; for Nero, either having real testimony against him, or else hating him for his virtues, fent a tribune to inform him that he was fulpected.

308 Roine rebuilt.

Rome. full-celed as an accomplice, and foon after fent him an order to put himself to death, with which he com-

In this manner was the whole city filled with flaughter, and frightful inflances of treachery. No mailer was fecure from the venge ince of his flaves, nor even parents from the bafer attempts of their children. Not only throughout Rome, but the whole country round. bodies of foldiers were leen in pursuit of the suspected and the guilty. Whole crowds of wretches loaded with chains were led every day to the gates of the palare, to wait their fentence from the tyratt's own lips. He always prefided at the torture in person, attended by Tigellinus, captain of the guard, who, from being the most abandoned man in Rome, was now become his principal minister and favourite.

Nor were the Roman provinces in a better fituation than the capital city. The example of the tyrant feemed to influence his governors, who gave inflances not only of their rapacity, but of their cruelty, in every part of the empire. In the feventh year of his reign, the Britons revolted, under the conduct of their queen \* See Eng. Boadicea \*; but were at last so completely defeated, that ever after, during the continuance of the Romans among

them, they loft not only all hopes, but even all defire of

A war also was carried on against the Parthians for against the the greatest part of this reign, conducted by Corbulo; who, after many fuccesses, had dispossessed Tiridates, and fettled Tigranes in Armenia in his room, Tiriof the Parthiens into that country; but being once more opposed by Corbulo, the Romans and Parthians came to an agreement, that Tiridates should continue to govern Armenia, upon condition that he should lay down his crown at the feet of the emperor's flatue, and receive it as coming from him; all which he shortly after performed. A ceremony, however, which Nero defired to have repeated to his person; wherefore by letters and promifes he invited Tiridates to Rome, granting him the most magnificent supplies for his journey. Nero attended his arrival with very fumptuous preparations. He received him feated on a throne, accompanied by the fenate flancing round him, and the whole army drawn out with all imaginable it lendour .-Tiridates ascended the throne with great reverence; and approaching the emperor fell down at his feet, and in the mod shiell terms ackn wledged himfelf his flive. Noro raifed him up, telling him with count arrogence, that he did well, and that by his submission he had gained a kingdom which his anceflors could never as uire by their arms. He then placed the crown on his head, and, after the most costly ceremonies and entertainments, he was fent back to Armenia, with incredible fums of money to defray the expences of his return.

In the 12th year of this emperor's reign, the Jews Roman governor. It is faid that Florus, in particular, was arrived at that degree of tyranny, that by public proclamation he gave permission to plunder the country, provided he received half the fpoil. These oppresfions drew fuch a train of calamities after them, that the fufferings of all other nations were flight in comparifon to what this devoted people afterwards endured, as is related under the article JEWs. In the mean time,

Nero proceeded in his cruelties at Rome with unabated Rome.

The valiant Corbulo, who had gained fo many victories over the Parthians, could not escare his fury. Nor did the empress Popp on herfelf escape; whom, in a fit of anger, he kicked when the was or gnant, by which the miscarried and died. At last the Romans began to grow weary of fuch a moniter, and there appeared a ge-

neral revolution in all the provinces.

The first appeared in Gaul, under Julius Vindex, Revolt of who commanded the legions there, and publicly proteit. Vindex in ed against the tyrannical government of Nero. He ap. Gaul, of freeing the world from an oppreffor; for when it was told him that Nero had fet a reward upon his head of 10,000,000 of fefterces, he made this gallant anfiver, " Whoever brings me Nero's head, fhall, if he pleafes, have mine." But still more to show that he was not actuated by motives of private ambition, he proclaimed Sergius Galba emperor, and invited him to join in the revolt. Galbr, who was at that time governor of Spain, was equally remarkable for his wisdom in peace and his courage in war. But as all talents under corrupt princes are dangerous, he for fome years

nalizing his valour. He now therefore, either through the caution attending old age, or from a total want of ambition, appeared little inclined to join with Vindex, and continued for fome time to deliberate with his friends

on the part he should take.

In the mean time, Mero, who had been apprifed of the proceedings against him in Gaul, appeared totally regardlets of the danger, privately flattering himfelf that the suppression of this revolt would give him an opportunity for fresh confiscations. But the actual revolt of Gilba, the news of which arrived foon after, affected him in a very different manner. The reputation of that and of general was fuch, that from the moment he declared Galba. against him, Nero considered himself as undone. He received the account as he was at supper; and inflantly, struck with terror, overturned the table with his foot, breaking two crystal vales of immense value. He then fell into a ween; from which when he recovered, he tore his clothes, and ftruck his head, crying out, " that he was utterly undone." He then began to meditate flaughters more extensive than he yet had committed. He refolved to maffacre all the governors of provinces, to defiroy all exiles, and to murder all the Gauls in Rome, as a pumiliment for the treachery of their countrymen. In fhort, in the wildness of his rage, he thought of poisoning the who'e senate, of burning the city, and turning the lions kept for the purpoles of the theatre out upon the people. These designs being impracticable, he refolved at last to face the danger in person. But his very preparations served to mark the infatoation of his mind. His principal care was, to provide waggons for the convenient carriage of his mufical instruments; and to dress out his concubines like Amazons, with whom he intended to face the enemy. He also made a resolution, that if he came off with safety and empire, he would appear again upon the theatre with the lute, and would equip himfelf as a panto-

While Nero was thus frivolously employed, the revolt became

Sucreis Parthians,

311 Revoit of the Jews. 314 Thicrable

Rome became general. Not only the armies in Spain and Gaul. but also the legions in Germany, Africa, and Lusitania, declared against him. Virginius Rusus alone, who commanded an army on the Upper Rhine, for a while continued in suspense; during which his forces, without his permission, falling upon the Gauls, routed them with great flaughter, and Vindex flew himfelf. But this ill faccess no way advanced the interests of Nero; he was fo deteiled by the whole empire, that he could find none of the armies faithful to him, however they might difagree with each other. He therefore called for Lotruation of cufta to furnish him with poilon; and, thus prepared for the worst, he retired to the Servilian gardens, with a resolution of flying into Egypt. He accordingly dispatched the freedmen, in whom he had the most confidence, to prepare a fleet at Offia; and in the meanwhile founded, in person, the tribunes and centurions of the guard, to know if they were willing to share his fortunes. But they all excused themselves, under divers pretexts. One of them had the boldness to answer him by part of a line from Virgil: Usque adeone miserum est mori ? " Is death then fuch a misfortune ?" Thus deftitate of every resource, all the expedients that cowardice, revenge, or terror could produce, took place in his mind by turns. He at one time resolved to take refuge among the Parthians; at another, to deliver himfelf up to the mercy of the infurgents: one while, he determined to mount the rostrum, to ask pardon for what was past, and to conclude with promises of amendment for the future. With these gloomy deliberations he went to hed; but waking about midnight, he was furprifed to find his guards had left him. The præto-rian foldiers, in fact, having been corrupted by their commander, had retired to their camp, and proclaimed Galba emperor. Nero immediately fent for his friends to deliberate upon his present exigence; but his friends also forsook him. He went in person from house to house; but all the doors were shut against him, and none were found to answer his inquiries. While he was purfuing this inquiry, his very domestics followed the general defection; and having plundered his apartment, escaped different ways. Being now reduced to despe-ration, he defired that one of his favourite gladiators might come and dispatch him : but even in this request there was none found to obey. "Alas! (cried he) have I neither friend nor enemy?" And then running desperately forth, he seemed resolved to plunge headlong into the Tiber. But just then his courage beginning to fail him, he made a fudden stop, as if willing to recollect his reason; and asked for some secret place, where he might re-assume his courage, and meet death with becoming fortitude. In this diffress, Phaon, one of Lis freedmen, offered him his country-house, at about four miles ditlant, where he might for some time re-main concealed. Nero accepted his offer; and, halfdreffed as he was, with his head covered, and hiding his face with a handkerchief, he mounted on horseback, attended by four of his domestics, of whom the wretched Sporus was one. His journey, though quite thort, was crowded with adventures. Round him he heard nothing but confused noises from the camp, and the cries of the foldiers, imprecating a thousand evils upon his head. A passenger, meeting him on the way, cried, "There go men in pursuit of Nero." Another asked him, if there was any news of Nero in the city? His

horse taking fright at a dead body that lay near the Rome? road, he dropped his handkerchief; and a foldier that was near, addressed him by name. He now therefore quitted his horse, and forsaking the highway, entered a thicket that led towards the back part of Phaon's house, through which he crept, making the best of his way among the reeds and brambles, with which the place was overgrown. When he was arrived at the back part of the house, while he was waiting till there should be a breach made in the wall, he took up some water in the hollow of his hands from a pool to drink; faying, "To this liquor is Nero reduced." When the hole was made large enough to admit him, he crept in upon all-fours, and took a thort repose upon a wretched pallet, that had been prepared for his reception. Being prefled by hunger, he demanded fomewhat to eat: they brought him a piece of brown bread, which he refused; but he drank a little water. During this interval, the fenate finding the prætorien guards had taken part with Galba, declared him emperor, and condemned Nero to die more majorum; that is, "according to the rigour of the ancient laws." These dreadful tidings were quickly brought by one of Phaon's flaves from the city. while Nero yet continued lingering between his hopes and his fears. When he was told of the refolution of the fenate against him, he asked the messenger what he meant by being punished " according to the rigour of the ancient laws?" To this he was answered, that the criminal was to be ftripped naked, his head was to be fixed in a pillory, and in that possure he was to be scourged to death. Nero was so terrified at this, that he feized two poniards which he had brought with him, and examining their points, returned them to their fheaths, faying, that the fatal moment was not yet arrived. However, he had little time to spare; for the foldiers who had been fent in purfuit of him were just then approaching the house: wherefore hearing the found of the horses seet, he set a dagger to his throat, with which, by the afficience of Epaphroditus, his freedman and fecretary, he gave himfelf a mortal wound. He was not quite dead when one of the cen- His death. turions entering the room, and pretending he came to his relief, attempted to stop the blood with his clock, But Nero, regarding him with a stern countenance, faid, "It is now too late. Is this your fidelity?"-Upon which, with his eyes fixed, and frightfully flaring, he expired, in the 32d year of his age, and the 14th of his reign.

Galba was 72 years old when he was declared em-Uneafiness peror, and was then in Spain with his legions. How-of Galba in ever, be foon found that his being raifed to the throne the hainwas but an inlet to new disquietudes. His first embar-ning of his rassiment arose from a disorder in his own army; for upon his approaching the camp, one of the wings of horse repenting of their choice, prepared to revolt, and he found it no eafy matter to reconcile them to their duty. He also narrowly escaped affassination from some flaves, who were presented to him by one of Nero's freedmen with that intent. The death of Vindex also ferved to add not a little to his disquietudes; so that, upon his very entrance into the empire he had fome thoughts of putting an end to his own life. But hearing from Rome that Nero was dead, and the empire

transferred to him, he immediately assumed the title and

enligns of command. In his journey towards Rome

Rome. he was met by Rufus Virginius, who, finding the fenate had decreed him the government, came to yield him obedience. This general had more than once refused the empire himself, which was offered him by his foldiers; alleging, that the fenate alone had the difpofal of it, and from them only he would accept the honour.

317 Faults in his admini Aration.

Galba having been brought to the empire by means of his army, was at the fame time willing to suppress their power to commit any future disturbance. His first approach to Rome was attended with one of those rigorous strokes of justice which ought rather to be denominated cruelty than any thing elfe. A body of mariners, whom Nero had taken from the oar and enlifted among the legions, went to meet Galba, three miles from the city, and with loud importunities demanded a confirmation of what his predecessor had done in their favour. Galba, who was rigidly attached to the ancient discipline, deserred their request to another time. But they, confidering this delay as equivalent to an abfolute denial, infifted in a very difrespectful manner; and fome of them even had recourse to arms; whereupon Galba ordered a body of horse attending him to ride in among them, and thus killed 7000 of them; but not content with this punishment, he afterwards ordered them to be decimated. Their infolence demanded correction; but fuch extensive punishments deviated into cruelty. His next then to curb the infolence of the foldiers, was his discharging the German cohort, which had been establithed by the former emperors as a guard to their perfons. Those he sent home to their own country unrewarded, pretending they were disassected to his person. He feemed to have two other objects also in view; namely, to punish those vices which had come to an enormous height in the last reign, with the strictest severity; and to replenish the exchequer, which had been quite drained by the prodigality of his predecessors. But these attempts only brought on him the imputation of feverity and avarice; for the ftate was too much corrupted to admit of fuch an immediate transition from vice to virtue. The people had long been maintained in floth and luxury by the prodigality of the former emperors, and could not think of being obliged to feek for new means of sublistence, and to retrench their fuperfluities. They began, therefore, to fatirize the old man, and turn the simplicity of his manners into ridicule. Among the marks of avarice recorded of him, he is faid to have grouned upon having an expensive foup ferved up to his table; he is faid to have prefented to his fleward, for his fidelity, a plate of beans; a famous player upon the flute, named Canus, having greatly delighted him, it is reported, that he drew out his purfe, and gave him five-pence, telling him, that it was private and not public money. By fuch ill-judged frugalities, at fuch a time, Gulba be on to lofe his popularitv; and he, who before his accession was esteemed by all, being become emperor, was confidered with ridicule and contempt. But there are fome circumflances alleged against him, less equivocal than those tritling ones already mentioned. Shortly after his coming to Rome, the people were prefented with a most grateful spest, ele, which was that of Locusta, Elius, Policletus, Petromius, and Petinus, all the bloody ministers of Nero's eruelty, drawn in fetters through the city, and publicly executed. But Tigellinus, who had been more aftive

than all the reft, was not there. The crafty villain had Rome. taken care for his own fafety, by the largeness of his bribes : and though the people cried out for vengeance against him at the theatre and at the circus, yet the emperor granted him his life and pardon. Helotus the eunuch, also, who had been the instrument of poifoning Claudius, elcaped, and owed his fafety to the proper application of his wealth. Thus, Ly the inequality of his conduct, he became despicable to his subjects. At one time shewing himself severe and frugal, at another remils and prodigal; condemning feme illuftrious persons without any hearing, and pardoning others though guilty: in short, nothing was done but by the mediation of his favourites; all offices were venal, and all punishments redeemable by money.

Affairs were in this unfettled posture at Rome, when the provinces were yet in a worfe condition. The fuccess of the army in Spain in choosing an emperor induced the legions in the other parts to wish for a finitlar opportunity. Accordingly, many feditions were kindled, and feveral factions promoted in different parts of the empire, but particularly in Germany. There were then in that province two Roman armies; the one which had lately attempted to make Rufus Virginius emperor, as has been already mentioned, and which was commanded by his lieutenant; the other commanded by Vitellius, who long had an ambition to obtain the empire for himself. The former of these armies despising their present general, and confidering themselves as suspected by the emperor for having been the last to acknowledge his title, resolved now to be foremost in denying it. Accordingly, when they were fummoned to take the oaths of homage and fidelity, they refused to acknowledge any other commands but those of the senate. This refusal they backed by a message of the prætorian bands, importing, that they were refolved not to acquiefce in the election of an enperor created in Spain, and defiring that the fenate

Galba being informed of this commotion, was fenfible, that, besides his age, he was less respected for want of an heir. He refolved therefore to put what he had formerly defigned in execution, and to adopt fome person whose virtues might deserve such advancement, and protect his declining age from danger. His favourites understanding his determination, infantly resolved to give him an heir of their own choosing; fo that there arose a great contention among them upon this occasion. Otho made warm application for himfelf; alleging the great fervices he had done the cmperor, as being the first man of note who came to his affidance when he had declared against Nero. However, Galba, being fully refolved to confult the public good alone, rejected his fuit; and en a day appointed ordered Pilo Lucinianus to attend him. The character given by historians of Pifo is, that he was every way worthy of the honour defigned him. He was noway related to Galba; and had no other interest but merit to recommend him to his favour. Taking this youth therefore by the hand, in the presence of his friends, he adopted him to fucceed in the empire, giving him the most wholesome lessons for guiding his future conduct. Pifo's conduct showed that he was highly deferving this diffinction: in all his depertment there appeared such modelly, firmness, and equility of

avarice. The adoption therefore of Pife was but coldly

mind, as befooke him rather capable of discharging, than ambitious of obtaining, his prefent dignity. But the army and the fenate did not feem equally diffuterefted upon this occasion; they had been fo long used to bribery and corruption, that they could now bear no emperor who was not in a capacity of fatisfying their

received; for his virtues were no recommendation in a nation of universal depravity.

318 Otho declared emperer.

dered.

Otho now finding his hopes of adoption wholly frustrated, and still further stimulated by the immense load of debt which he had contracted by his riotous way of living, resolved upon obtaining the empire by force, fince he could not by peaceable fuccession. In fact, his circumflances were fo very desperate, that he was heard to fav. that it was equal to him whether he fell by his enemies in the field or by his creditors in the city. He therefore raifed a moderate fum of money, by felling his interest to a person who wanted a place; and with this bribed two subaltern officers in the prætorian bands, fupplying the deficiency of largeffes by promifes and plaufible pretences. Having in this manner, in less than eight days, corrupted the fidelity of the foldiers, he fiele fecretly from the emperor while he was facrificing; and affembling the foldiers, in a fhort speech urged the crucities and avarice of Galba. Finding these his invectives received with universal shouts by the whole army, he entirely threw off the mask, and avowed his intentions of dethroning him. The foldiers being ripe for fedition, immediately feconded his views; taking Otho upon their fhoulders, they instantly proclaimed him emperor; and, to strike the citizens with terror, carried him with their fwords drawn into the camp.

319 Galba mur-Galba, in the mean time, being informed of the revolt of the army, feemed utterly confounded, and in want of fufficient resolution to face an event which he should have long foreseen. In this manner the poor old man continued wavering and doubtful; till at lafi, being deluded by a false report of Otho's being flain, he rode into the forum in complete armour, attended by many of his followers. Just at the same instant a body of horse sent from the camp to destroy him entered on the opposite side, and each party prepared for the encounter. For some time hostilities were sufpended on each fide; Galba, confused and irrefolute, and his antagonists struck with horror at the baseness of their enterprise. At length, however, finding the emperor in some measure deserted by his adherents, they rushed in upon him, trampling under foot the crowds of people that then filled the forum. Galba feeing them approach, feemed to recollect all his former fortitude; and bending his head forward, bid the affaffins firike it off if it were for the good of the people. This was quickly performed; and his head being fet upon the point of a lance, was presented to Otho, who ordered it to be contemptuoufly carried round the camp: his body remaining exposed in the streets till it was buried by one of his flaves. He died in the 73d year of

> No fooner was Galba thus murdered, than the fenate and people ran in crowds to the camp, contending who flould be foremost in extolling the virtues of the new emperor, and depressing the character of him they had fo unjustly destroyed. Each laboured to ex-

cel the rest in his inflances of homage; and the less his Reme. affections were for him, the more did he indulge all the vehemence of exaggerated praife. Otho finding himfelf furrounded by congratulating multitudes, immediately repaired to the fenate, where he received the titles usually given to the emperors; and from thence returned to the palace, feemingly refolved to reform his life, and assume manners becoming the greatuels of his station.

He began his reign by a fignal instance of clemency, in pardoning Marius Celius, who had been highly favoured by Galba; and not contented with barely forgiving, he advanced him to the highest honours; asferting, that "fidelity deferved every reward." This act of elemency was followed by another of juffice. equally agreeable to the people. Tigellinus, Nero's favourite, he who had been the promoter of all his cruelties, was now put to death; and all fuch as had been unjuftly banished, or firipped, at his infligation, during Nero's reign, were restored to their country and fortimes.

In the mean time, the legions in Lower Germany Vitelius having been purchased by the large gifts and specious revelus. promifes of Vitellius their general, were at length induced to proclaim him emperor; and regardless of the fenate, declared that they bad an equal right to appoint to that high station with the cohorts at Ronie. The news of this conduct in the army foon fyread conflernation throughout Rome; but Otho was particularly flruck with the account, as being apprehensive that nothing but the blood of his countrymen could decide a contest of which his own ambition only was the cause. He now therefore sought to come to an agreement with Vitellius; but this not fucceeding, both fides began their preparations for war. News being received that Vitellius was upon his march to Italy, Otho departed from Rome with a vaft army to oppofe him. But though he was very powerful with regard to numbers, his men, being little used to war, could not be relied on. He seemed by his behaviour senfible of the disproportion of his forces; and he is faid to have been tortured with frightful dreams and the most uneasy apprehensions. It is also reported by fome, that one night fetching many profound fighs in his fleep, his fervants ran haltily to his bed fide, and found him firetched on the ground. He alleged he had feen the ghost of Galba, which had, in a threatening manner, beat and pushed him from the bed; and he afterwards used many expiations to appeale it. However this be, he proceeded with a great flow of courage till he arrived at the city of Brixellum, on the river Po, where he remained, fending his forces before him under the conduct of his generals Suetonius and Celfus, who made what hafte they could to give the enemy battle. The army of Vitellius, which confifled of 70,000 men, was commanded by his generals Valens and Cecina, he himself remaining in Gaul in or-der to bring up the rest of his forces. Thus both sides hastened to meet each other with so much animosity and precipitation, that three confiderable battles were fought in the space of three days. One near Placentia, another near Cremona, and a third at a place called Coffor; in all which Otho had the advantage. But these successes were but of short-lived continuance; for Valens and Cecina, who had hitherto acted feparately, joining

his age, after a thort reign of feven months.

joi. it & their forces, and reinforcing their maies with ment. Otho, who by this time had joined his army not withft inding their late loffes, inclined to come to a battle, refolved to call a council of war to determine upon the proper meatures to be taken. His generals were of opinion to protract the war : but others, whuse inexperience had given them confidence, declared, that nothing but a battle could relieve the mileries of the fate; protefling, that Fortune, and all the gods, with the divisity of the emperor himfelf, favoured the defign, and would undaubtedly profper the enterprise. In this advice Otho acquiefced: he had been for fome time fo un. iv under "he war, that he feemed willing to exchan e fuspense for danger. However, he was for farrounded with flatterers, that he was prohibited from being perforally prefent in the engagement, but prevailed upon to referve himself for the fortune of the empire, and wait the event at Brixellum. The affairs of both armies being thus adjusted, they came to an engagement at Bedriacum; where, in the beginning, At length, the superior discipline of the legions of Vigreat confusion towards Bedriaeum, being pursued with

battle with great impatience, and feemed to tar his mefforgers with delay. The first account of his defeat was brought him by a common foldier, who had escaped from the field of battle. However, Otho, who was full furrounded by flatterers, was defired to give no credit to a base fugitive, who was guilty of falsehuod only to cover his own cowardice. The foldier, however, still perfifted in the veracity of his report; and, finding none inclined to believe him, immediately fell upon his fword, and expired at the emperor's feet. Otho was fo much firuck with the death of this man, that he cried out, that he would cause the ruin of no more fuch valient and worthy foldiers, but would end the contest the shortest way; and therefore having exhorted his followers to fubmit to Vitellius, he put an end to his

own life.

It was no fooner known that Otho had killed himfell, then all the foldiers repaired to Virginius, the comn order of the German legions, earneftly intreating him to take ajon him the rains of government; or at leaft, intreating his mediation with the generals of Vitellius in their favour. Upon his declining their request, Rubrius Callus, a person of considerable note, undertook their embaliy to the generals of the conquering army; and forn after obtained a pardon for all the adherents of

Vitellins was immediately after declared emperor by the fena'e; and received the marks of diffinction which were now accustomed to follow the appointment of the Brengest sid . At the fime time, Italy was severely d'Irest d by the foldiers, who committed such outrages as exceeded all the oppressions of the most calamitous war. Vitellius, who was yet in Gaul, refolved, before be fet out for Rome, to purish the proctorian cohorts, who had been the instruments of all the late diffur ances in the state. He therefore caused them to be do in ed, are 'deprived of the name and honour of soldiers. He Vol. XVIII. Part !. also ordered it of those who were not by the direction

As he approched swards Rome, her fall to also the towns with all in Inable folendor, of part of by water was in pair of tale is, alorsed will, and of

with the lie ntiousness of their le aviour.

as a place he came to govern with justice, but : 1 ow 1 that become his own by the laws of concacl. He marched through the streets mounted on horieback, all in armour; the fenate and p ople going before him, as if the captives of his late victory. He the next d y made the fenate a fpeeth, in which he marnihed his own actions, and promiled them extraordinary advantages from his administration. He then harangued the people, who, being now long accustomed to flatter all in

tiate themselves in the do sucheries of the city, grew to the totally unfit for war. The principal abouts of the trate to a more were managed by the lowest wretches. Vitellius, more abandoned than they, gave himfelf up to all kin to of laxury and profuseness; but gluttony was hir favour te ing, in order to renew his meals at pleasure. His entertainments, though feldom at his own ciet, were prodigiously expensive; he frequently invited himself to the tables of his subjects, breakfailing with one, di ing with another, and supping with a third, all in the same day. The most memorable of the'e entertai ments was that made for him by his brother on his arrivel at Rome. In this were ferved up 2000 feveral dithes of fish, and 7000 of fowl, or the most valuable kinds. But in one particular dish he seemed to have autdone all the former profusion of the most luxuious Romans. This diff, which was of fuc a magnitude as to be called the flield of Minerva, was filled with an olio made from the founds of the fifth called fearri, the brains of ph afints and woodcocks, the tongues of the most colly birds, and the spawn of lampreys brought from the Cal-pian sea. In order to cook this dish proventy, a furmace was built in the fields, as it was too l at crany kitchen to contain it.

In this manner did Vitellius proceed; fo the Jufe would not have been fufficient to have maint ined his gluttony. All the attendants of his court fught to raile themselves, not by their virtues and abiliti s, but the fumptuousness of their entertainments. This ir digality produced its attendant, want; and that, in turn,

These who had formerly been his afficial were now destroyed without mercy. Going to visit me of them in a violent fever, he mit sled joifon with I's water, and delivered it to lum with his own hands. Hnever pardoned those money-lenders who came to demand payment of his former debts. One of the it to be carried off to execution; but thortly at the onmanding him to be brought back, we mand his aften !.

Rome. ants thought it was to pardon the unhappy creditor, Vitellius gave them foon to understand that it was merely to have the pleasure of feeding his eyes with his torments. Having condemned another to death, he executed his two fons with him, only for their prefuming to intercede for their father. A Roman knight being dragged away to execution, and crying out that he had made the emperor his heir, Vitellius demanded to fee the will, where finding himself joint heir with another, he ordered both to be executed, that he might enjoy the legacy without a partner.

By the continuance of fuch vices and cruelties as these he became odious to all mankind, and the astrologers began to prognofficate his ruin. A writing was fet up in the forum to this effect; "We, in the name of the ancient Chaldeans, give Vitellius warning to depart this life by the kalends of October." Vitellius, on his part, received this information with terror, and ordered all the aftrologers to be banished from Rome. An old woman having foretold, that if he furvived his mother, he should reign many years in happiness and security, this gave him a desire of putting her to death; which he did, by refusing her sustance, under the pretence of its being prejudicial to her health. But he foon faw the futility of relying upon fuch vain prognostications; for his foldiers, by their cruelty and rapine, having become insupportable to the inhabitants of Rome, the legions of the East, who had at first acquiefced in his dominion, began to revolt, and shortly after unanimously resolved to make Vespasian emperor.

Vespasian, who was appointed commander against the problaimed rebellious Jews, had reduced most of their country, excent Jerusalem, to subjection. The death of Nero, however, had at first interrupted the progress of his arms, and the fuccession of Galba gave a temporary check to his conquefts, as he was obliged to fend his fon Titus to Rome, to receive that emperor's commands. Titus, however, was fo long detained by contrary winds, that he received news of Galba's death before he fet fail. He then resolved to continue neuter during the civil wars between Otho and Vitellius and when the latter prevailed, he gave him his homage with reluctance, But being defirous of acquiring reputation, though he difliked the government, he determined to lay fiege to lerufalem, and actually made preparations for that great undertaking, when he was given to understand that Vitellius was detested by all ranks in the empire. These marmurings increased every day, while Vefpasian secretly endeavoured to advance the discontents of the army. By these means they began at length to fix their eyes upon him as the person the most capable and willing to terminate the mileries of his country, and put a period to the injuries it fuffered. Not only the legions under his command, but those in Maesia and Pannonin, came to the fame refolution, fo that they declared themselves for Velpasian. He was also without his own consent proclaimed emperor at Alexandria, the army there confirming it with extraordinary applaule, and paying their accustomed homage. Still, bowever, Velpasian seemed to decline the honour done him; till at length his foldiers compelled him, with their threats of immediate death, to accept a title which, in all probability, he withed to enjoy. He now, therefore, called a council of war ; where it was refolved, that his fon Titus thould carry on the war against the Jews; and that Mutianus, one of his generals, should, with the greatest part of his Rome. legions, enter Italy; while Vespasian himself should levy forces in all parts of the east, in order to reinforce them in case of necessity.

During these preparations, Vitellius, though buried in floth and luxury, was resolved to make an effort to defend the empire; wherefore his chief commanders, Valens and Cecina, were ordered to make all possible preparations to refift the invaders. The first army that entered Italy with an hostile intention was under the command of Antonius Primus, who was met by Cecina near Cremona. A battle was expected to enfue; but a negociation taking place, Cecina was prevailed upon to change fides, and declare for Vespasian. His army, however, quickly repented of what they had done; and imprisoning their general, attacked Antonius, though without a leader. The engagement continued during Vitellius the whole night: in the morning, after a short repast defeated. both armies engaged a fecond time; when the foldiers of Antonius faluting the rifing fun, according to cuftom, the Vitellians supposing that they had received new reinforcements, betook themselves to slight, with the loss of 30,000 men. Shortly after, freeing their general Cecina from prison, they prevailed upon him to intercede with the conquerors for pardon; which they obtained, though not without the most horrid barbarities committed upon Cremona, the city to which they had retired for shelter.

When Vitellius was informed of the defeat of his army, his former infolence was converted into an extreme of timidity and irrefolution. At length he commanded Julius Prifcus and Alphenus Varus, with fome forces that were in readiness, to guard the passes of the Apennines, to prevent the enemy's march to Rome; referv-ing the principal body of his army to fecure the city, under the command of his brother Lucius. But being perfuaded to repair to his army in person, his presence only served to increase the contempt of his foldiers. He there appeared irrefolute, and still luxurious, without counsel or conduct, ignorant of war, and demanding from others those instructions which it was his duty to give. After a fhort continuance in the camp, and understanding the revolt of his fleet, he returned once more to Rome : but every day only ferved to render his affairs fill more desperate; till at last he made offers to Vespasian of resigning the empire, provided his life were granted, and a fullicient revenue for his support. In order to enforce his request, he issued from his palace in deep mourning, with all his domestics weeping round him. He then went to offer the fword of justice to Cecilius, the conful; which he refufing, the abject emperor prepared to lay down the enfigns of the empire in the temple of Concord. But being interrupted by some, who cried out, That he himself was Concord; he refolved, upon fo weak an encouragement, still to maintain his power, and immediately prepared for his

During this fluctuation of counfels, one Salinus, who had advised Vitellius to refign, perceiving his desperate fituation, refolved, by a bold step, to oblige Vespasian, and accordingly seized upon the Capitol. But he was The Capipremature in his attempt; for the foldiers of Vitellius to burnt. attack d him with great fury, and, prevailing by their numbers, foon laid that beautiful building in aftes. During this dreadful conflagration, Vitellius was featl-

Dreadful

fituation

of Rome.

Rome ing in the palace of Tiberius, and beholding all the horrors of the affault with great fatisfaction. Sabinus was taken prisoner, and shortly after executed by the emperor's command. Young Domitian, his nephew. who was afterwards emperor, escaped by flight, in the habit of a prieft; and all the rell who furvived the fire were put to the fword.

But this success served little to improve the affairs of Vitellius. He vainly fent messenger after messenger to bring Velpalian's general, Antonius, to a compolition. This commander gave no answer to his requelts, but still continued his march towards Rome. Being arrived before the walls of the city, the forces of Vitellius were refolved upon defending it to the utmost extremity. It was attacked on three fides with the utmost fury; while the army within, fallying upon the befiegers, defended it with equal obstinacy. The battle lasted a whole day, till at latt the befieged were driven into the city, and a dreadful flaughter made of them in all the streets, which they vainly attempted to defend. In the mean time, the citizens flood by, looking on as both fides fought; and, as if they had been in a theatre, clapped their hands; at one time encouraging one party, and again the other. As either turned their backs. the citizens would then fall upon them in their places of refuge, and so kill and plunder them without mercy. But what was still more remarkable, during these dreadful flaughters both within and without the city. the people would not be prevented from celebrating one of their riotous feasts, called the Saturnalia; so that at one time might have been feen a strange mixture of mirth and milery, of cruelty and lewdness; in one place, buryings and flaughters; in another, drunkenness and feasting; in a word, all the horrors of a civil war, and all the licentiousness of the most abandoned

fecurity! During this complicated scene of misery, Vitellius retired privately to his wife's house, upon Mount Aventine, deligning that night to fly to the army commanded by his brother at Tarracina. But, quite incapable, through fear, of forming any resolution, he changed his mind, and returned again to his palace, now void and desolate; all his flaves forfaking him in his distress, and purposely avoiding his presence. There, after wandering for some time quite disconsolate, and fearing the face of every creature he met, he hid himfelf in an obfoure corner, from whence he was foon taken by a party of the conquering foldiers. Still, however, willing to add a few hours more to his miferable life, he begged to be kept in prison till the arrival of Vespasian at Rome, pretending that he had fecrets of importance to discover. But his entreaties were vain: the foldiers binding his hands behind him, and throwing an halter round his neck, led him along, half naked, into the public forum, upbraiding him, as they proceeded, with all those bitter reproaches their malice could fuggeft, or his own cruelties deferve. They also tied his hair backwards, as was usual with the most infamous malefactors, and held the point of a fword under his chin, to prevent his hiding his face from the public. Some cast dirt and filth upon him as he passed, others struck him with their hands; fome ridiculed the defects of his person, his red fiery face, and the enormous greatness of his belly. At length, being come to the place of punishment, they killed him with many blows; and then dragging the dead body

through the streets with an hook, they threw it, with Rome. all possible ignominy, into the river Tiber. Such was the miferable end of this emperor, in the 57th year of his age, after a thort reign of eight mouths and five

Vitellius being dead, the conquering army purfued Dreadful their enemies throughout the city, while neither houses cruelties nor temples afforded refuge to the fugitives. The practifed fireets and public places were all strewed with dead diers. each man lying flain where it was his misfortune to be overtaken by his unmerciful purfuers. But not only the enemy fuffered in this manner, but many of the citizens, who were obnoxious to the foldiers, were dragged from their houses, and killed without any form of trial. The heat of their refentment being fomewhat abated. they next began to feek for plunder; and under pretence of fearthing for the enemy, left no place without marks of their rage or rapacity. Befides the foldiers. the lower rabble joined in these detestable outrages; fome flaves came and discovered the riches of their mafters; fome were detected by their nearest friends; the whole city was filled with outery and lamentation; infomuch, that the former ravages of Otho and Vitellius were now confidered as flight evils in comparison.

Upon the arrival of Mutianus, general to Vefpafian, these slaughters ceased, and the state began to assume the appearance of former tranquillity. Vefpafian was Vefpafian declared emperor by the unanimous confent both of the proclaimed fenate and the army; and dignified with all those titles, Rome. which now followed rather the power than the merit of those who were appointed to govern. Messengers were dispatched to him into Egypt, desiring his return, and tellifying the utmost defire for his government. However, the winter being dangerous for failing, he deferred his voyage to a more convenient feafon. Perhaps, allo, the diffentions in other parts of the empire retarded his return to Rome; for one Claudius Civilis, in Lower Revolt of Germany, excited his countrymen to revolt, and de Cavilis stroyed the Roman garrisons, which were placed in different parts of that province. But, to give his rebellion an air of justice, he caused his army to swear allegiance to Vespasian, until he found himself in a condition to throw off the mask. When he thought bimfelf futhciently powerful, he disclaimed all submission to the Roman government; and having overcome one or two of the lieutenants of the empire, and being joined by fuch of the Romans as refused obedience to the new emperor. he boldly advanced to give Cerealis, Vespasian's general, battle. In the beginning of this engagement, he feem ed fuccelsful, breaking the Roman legions, and putting their cavalry to flight. But at length Cerealis by his conduct turned the fate of the day, and not only routed the enemy, but took and destroyed their camp. This engagement, however, was not decifive; feveral others entued with doubtful fuccefs. An accommodation at length took place. Civilis obtained peace for his countrymen, and pardon for himtelf; for the Roman empire was, at this time, fo toro by its own divisions, that the barbarous nations around made incursions with impunity, and were fure of obtaining peace whenever they thought proper to demand it.

During the time of thele commotions in Germany, Irruption the Sarmatians, a barbarous nation in the north-east of of the Sarthe empire, fuddenly passed the river Iser, and marched matians. into the Roman dominions with fuch celerity and fury,

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as : deftroy feveral garrifons, and an army order the command of Fonteius Agrippa. They were driven back by Rubrius Gallus, Vefpafian's lieutenant, into their native foreffs; where feveral attempts were made to confine them by garrifons and forts, placed along the cononce found the way into the empire, never after delified from invading it upon every opportunity, till at le: th

they overran and destroyed it entirely.

Vespasian continued some months at Alexandria in Egypt, where it is faid he cured a blind and a lame man by touching them. Before he fet out for Rome, he gave his fon Titus the command of the army which was to lay fiege to Jerufalem; while he himfelt went forward, and was met many miles from Rome by all the fenate, and near half the inhabitants, who gave the fincerest testimonies of their joy, in having an emperor of such great and experience I virtues. Nor did he in the least disappoint their expectations; being equally affiduous in rewarding merit, and pardoning his adverfaries; in reforming the manners of the citizens, and tetting them

In the mean time, Titus carried on the war against the Jews with vigour, which ended in the terrible de-After which his foldiers would have crowned Titus as conqueror; but he refused the honour, alleging that he was only an instrument in the hand of Heaven, that ananifeltly declared its wrath against the Jews. At Home, however, all mouths were filled with the praifes of the conqueror, who had not only showed himfelf an excellent general, but a courageous combatant: his return, therefore, in triumph, which he did with his fawere esteemed valuable or beautiful among men were rought to adorn this great occasion. Among the rich mails were exposed vait quantities of gold taken out of the temple; but the book of their law was not the were deferibed all the victories of Titus over the Jews, which remains almost entire to this very day, Vefpatian likewife built a temple to Peace, wherein were deposited most of the Jewish spoils; and having now calmed all the commotions in every part of the empire, he that up the temple of Janus, which had been open about

five or fix years. Vespasian having thus given security and peace to the empire, refolved to correct numberless abuses which had grown up under the tyranny of his predecessors. To effect this with greater eafe, he joined Titus with him in the confulfhip and tribunitial power, and in fome meafure admitted him a partner in all the highest offices of the state. He began with restraining the licentiousness of the army, and foreing them back to their priffine discipline. He abridged the processes that had been carried to an unreasonable length in the courts of justice. He took care to rebuild fuch parts of the city as had fuffered in the late commotions; particularly the Capitol, which had been lately burnt; and which he now restored to more than former magnificence. He likewife built a funous amphitheatre, the ruins of which are to this day an evidence of its ancient grandeur. The other ruinous cities of the empire also thared his paternal care; he improved fuch as were declining, adorned Reme. others, and built many anew. In fuch acts as thele he palled a long reign of elemency and moderation; to that it is faid, no man suffered by an unjust or a levere de-

cree during his administration. Julius Sabinus feems to be the only person who was adventures treated with greater rigour than was usual with this cm- and death peror. Sabinus was commander of a small army in of Julius Sa-

Gaul, and had declared himfelf emperor upon the death binus, of Vitellius. But his army was thortly after overcome by Veipafian's general, and he himfelf compelled to feek falcty by flight. He wandered for tome time but finding the purtnit every day become cloter, he was obliged to hide Limfelt in a cave; and in it he remained concealed for no lefs than nine years, attended all the time by his faithful wife Empona, who provided provifions for him by day, and repaired to him by night. She was at last discovered in the performance of this pious office, and Sabinus was taken prisoner and carried to Rome. Great intercession was made to the emperor in his behalf: Empona herfelf appearing with her two children, and imploring her Luthand's pardon. Let neither her tears nor intreaties could prevail; Sabinus had been too dangerous a rival for mercy; fo that, though the and her children were spared, her hutband

But this feems to be the only inflance in which he recommend lius, his avewed enemy, to be married nato a noble la- 4 . thes & mily, and he him elt provided her a fritable fortune. "5"-1"-One of N ro's fewants coming to beg for pard m for ". having once rudely thruit him out of the palace, and is-

fulted him when in office, Vefpafian only took his rediffained to punish the guilty, frying, That they derefertment; as they feemed to envy him a cignity of which he daily experienced the uncafinels. His liberality towards the encouragement of arts and learning was not less than his elemency. He fettled a conflict falary of 100,000 fefterees upon the teachers of rhetoric. He was particularly favourable to Josephus, tle Jewish historian. Quintilian the orator, and Pliny the naturalift, flourished in his reign, and were highly effectied by him. He was no lefs an encourager of all other artificers from all parts of the world, making them confiderable prefents, as he found occasion.

Yet all his numerous rets of generofity and magnificence could not preferve his character from the imputation of rapacity and avarice. He revived many obtolete methods of tanation; and even boutht and fold commodities himself, in order to increase his fortule. He is charged with advancing the most avaricious governors to the provinces, in order to there their plunder on their return to Rome. He descended to some very unnfual and diffioneurable imports, even to the laving a tax upon urine. When his fon Titus remonfleated against the meanness of such a tax, Velpalian taking a piece of money, demanded if the fmell offended him; and then added, that this very money was produced by urine. But in excuse for this, we must observe, that the exchequer, when Vefpasian came to the throne,

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was fo much exhausted that he infort a the fenale that it would require a poly of three handred mitlions (of our money) to re-e tablish the common reach, This necessity must naturally produce more num rius and heavy taxations than the empire had hitherto experienced: but while the provinces were thus oh. ed to contribute to the support of his power, he to a every precaujon to provide for their fafety; fo that we find but two infurrections in this reign .- In the fourth year of his reign, Antiochus king of Comagena, holding a private correspondence with the Parthians, the declared enemies of Rome, was taken priliner in Cilicia, by Pyrrhus the governor, and fent bound to Rome. But Vespasian generously prevented all ill treatment, by giving him a refidence at Lacedemon, and aboving him a revenue fuita le to his dignity. About the lame time also, the A in, a bar arous people innabiting and invaded the kill dom of Media. From thence patfing into Armenia, after great ravages, they overthreav Ticidates, the king of that country with prodigious flughter. Tites was at length fent to chattife their infolence: but the b rbarians retired at the approach of the Roman army, leaded with plunder; being compelled to wait a more favourable opportunity of renewing their irruptions. These incursions, however, were but a transient from, the effects of which were foon repaired by the emperor's moderation and affiduity. We are told, that he row formed and efiablished a thousand nations, which had fearcely before amounted to 200. No provinces in the empire lay out of his view and protection. He had, during his whole reign, a particular regard to Britain; his genefals, Petilius Cerealis, and Julius Frontinus, brought the greatest part of the island into subjection; and Agricola, who succeeded foon after, completed what they had begun. See Exc-

In this manner, having reigned 10 years, loved by his fabicats, and deferring their affection, he was fur prifed by an incircofition at Campania, which he at once declared would be fatal, crying out, in the frieit of Fagani'm, " Methicks I am going to be a ced." Removing from thence to the city, and a terwards to a country fest near Reate, he was there taken with a flux, which brought him to the last extremity. However, perceiving his end approach, and just going to expire, he cried out, that an emperor ought to die standing; wherefore, rolling himfelf upon his feet, he expired in

the hands of those that suftained him.

Titus being joyfully received as emperor, notwithcred to the flanding a flight opposition from his brother Domitian, who maintained that he himself was appointed, and that Titus had falfified the will, began his reign with every virtue that I reams an emperor and a man. During the life of his father there had been many imputations against him; but upon his exaltation to the throne he feemed entirely to take leave of his former vices, and became an example of the greatest moderation and hun. nity. He had long loved Berenice, filler to Agrippa king of Indea, a woman of the greatest beauty and allurements. But knowing that the connection with her was entirely difagreeable to the people of Home, he fent her away, notwithstanding their mutual passion and the many arts the used to induce him to change his refolutions. He next discarded all those who had been the former minister f his pleasures, and to bore to rofity, procured him the love of all good men, and the tions fee ned calculated to enture. As he came to the he was resolved to use every method to increase it. He therefore took particular care to punish all informers, falle witnesses, and promoters of diffension, co d mning them to be forurged in the most public streets, next to be dragged through the theatre, and then to he banifl: ed to the uninhabited parts of the empire, and fold as being, never to fend any petitioner diffictished away. One night, recollecting that he had done nothing beneficial to mankind the dry preceding, he cried out among h's friends, "I have lost a day. A fentence too remarkable not to be universally known.

In this reign, an eruption of Moant Ve uvius did Vi

fending its aftes into countries more than 100 miles favior. diftant. Upon this memorable occasion, Pliny the macuriofity to observe the eruption, he was faffocated in the flames \*. There happened also about this time a \* Sec II. fire at Rome, which continued three days and nights "... fuccesfively, which was followed by a plague, in which 10,000 men were buried in a day. The emperor, however, did all that lay in his power to repair the damage fustained by the public; and, with respect to the city, declared that he would take the whole lofs of it upon These disasters were in some measure cou ter- Agricola balanced by the successes in Britain, under Agricola. " 20 This excellent general having been fent into that coun-the Entry towards the latter end of Vespasian's reign, showed leas Vales, were the first that were subdued. He then made a descent up a Mora, or the island of Angle ea himfelf mafter of the whole count v, he took overv my duce fome share of politenes among those whom had conquered. He exhorted them, both y advice and example, to build temples, theatres, and flately houses. He caused the fons of their nobility to be infiructed in the liberal arts; he had them tought the Latin language, and induced them to imitale the Roman modes of dreffing and living. Thus, by degrees, this barbarous people began to affume the luvurious manners of their conquerors, and in time even outdid them in all the refinements of fenfual pleaf re. For the success in Britain, Titus was reluted emperor the 15th time; but he did not long furvive his honours, bei frized with a violent fever at a little diffance fr m Rome. Perceiving his death to approach, he der ared, that during the whole course of his life he knew but of one action which he repented of; but that action he did not think proper to express. Shortly after, he died not without suspicion of treachery from his brother Domition, who had long withed to govern) in the 11th year

Title fac-

tian.

Rome. of his age, having reigned two years two months and

twenty days. The love which all ranks of people bore to Titus, Succeeded facilitated the election of his brother Domitian, notby Domiwithflanding the ill opinion many had already conceived of him. His ambition was already but too well known, and his pride foon appeared upon his coming to the throne; having been heard to declare, that he had

given the empire to his father and brother, and now received it again as his due.

The beginning of his reign was univerfally acceptable to the people, as he appeared equally remarkable for his elemency, liberality, and justice. He carried his abhorrence of cruelty fo far, as at one time to forbid the facrificing of oxen. His liberality was fuch, that he would not accept of the legacies that were left him by fuch as had children of their own. His justice was fuch, that he would fit whole days and reverse the partial featences of the ordinary judges. He appeared very careful and liberal in repairing the libraries which had been burnt, and recovering copies of fuch books as had been loft, fending on purpose to Alexandria to transcribe them. But he soon began to show the natural deformity of his mind. Inflead of cultivating literature, as his father and brother had done, he neglected all kinds of study, addicting himself wholly to the meaner pursuits, particularly archery and gaming. No emperor before him entertained the people with such various and expensive shows. During these diversions he distributed great rewards; sitting as president himfelf, adorned with a purple robe and crown, with the priefts of Jupiter and the college of Flavian priefts about him. The meannels of his occupations in folitude were a just contrast to his exhibitions in public oftentation. He ufually fpent his hours of retirement in catching flies, and sticking them through with a bodkin; so that one of his fervants being asked if the emperor was alone, he answered, that he had not so much as a fly to bear him company. His vices feemed every day to increase mous vices, with the duration of his reign; and as he thus became more odious to his people, all their murmurs only ferved to add ffrength to his suspicions, and malice to his oruclty. His ungrateful treatment of Agricola feemed the first symptom of his natural malevolence. Domitian was always particularly fond of obtaining a military reputation, and therefore jealous of it in others. He had marched fome time before into Gaul, upon a pretended expedition against the Catti, a people of Germany; and, without ever feeing the enemy, refolved to have the honour of a triumph upon his return to Rome. For that purpose he purchased a number of slaves, whom he dreffed in German habits; and at the head of this miferable procession entered the city, amidst the apparent acclamations and concealed contempt of all his fubjects; The faccesses, therefore, of Agricola in Britain affected him with an extreme degree of envy. This admirable general, who is scarce mentioned by any writer except Tacitus, purfued the advantages which hehad already obtained. He routed the Caledonians; overcame Galgacus, the British chief, at the head of 30,000 men; and afterwards fending out a fleet to fcour \* See Scot- the coast, first discovered Great Britain to be an island . He likewise discovered and subdued the Orkneys, and thus reduced the whole into a civilized province of the Roman empire. When the account of these successes

was brought to Domitian, he received it with a feeming Rome. pleasure, but real uneasiness. He thought Agricola's rifing reputation a reproach upon his own inactivity; and, instead of attempting to emulate, he resolved to suppress the merit of his services. He ordered him, therefore, the external marks of his approbation, and took care that triumphant ornaments, statues, and other honours, should be decreed him; but at the same time he removed him from his command, under a pretence of appointing him to the government of Syria, By these means, Agricola furrendered up his government to Saluftius Lucullus, but foon found that Syria was otherwife disposed of. Upon his return to Rome, which was privately and by night, he was coolly received by the emperor; and dying some time after in retirement, it was supposed by some that his end was hastened by Domitian's direction.

Domitian foon after found the want of fo experienced Many bara commander in the many irruptions of the barbarous barous nanations that furrounded the empire. The Sarmatians vade the in Europe, joined with those in Asia, made a formi-empire. dable invasion; at once destroying a whole legion, and a general of the Romans. The Dacians, under the conduct of Decebalus their king, made an irruption, and overthrew the Romans in feveral engagements. Losses were followed by losses, so that every season became memorable for fome remarkable overthrow. At last, however, the state making a vigorous exertion of its internal power, the barbarians were repelled, partly by force and partly by the affiftance of money, which only ferved to enable them to make future invasions to greater advantage. But in whatever manner the enemy might have been repelled, Domitian was refolved not to lose the honour of a triumph. He returned in great folender to Rome ; and not contented with thus triumphing twice without a victory, he refolved to take the furname of Germanicus, for his conquest over a people with

whom he never contended. In proportion as the ridicule increased against him, his pride feemed every day to demand greater homage. He would permit his flatues to be made only of gold and filver; affumed to himfelf divine honours; and ordered that all men should treat him with the same appellations which they gave to the divinity. His cruelty was not behind his arrogance; he caused numbers of the most illustrious fenators and others to be put to death upon the most trisling pretences. Salustius Lucullus, his lieutenant in Britain, was destroyed only for having given his own name to a new fort of lances of his own invention. Junius Rufticus died for publishing a book, in which he commended Thrasea and Priscus, two philosophers who opposed Vespasian's coming to the

throne. Such cruelties as thefe, that feem almost without a motive, may naturally be supposed to have produced rebellion. Lucius Antonius, governor in Upper Germany, knowing how much the emperor was deteiled at home, affumed the entigns of imperial dignity. As he was at the head of a formidable army, his fuccefs remained long doubtful; but a fudden overflowing of the Rhine dividing his army, he was let upon at that juncture by Normandus, the emperor's general, and totally routed. The news of this victory, we are told, was brought to Rome by fupernatural means, on the fame day that the battle was fought Domatian's feverity

345 Nis enor-

Land.

Reme.

347 Monitrous eruelty of the empefor. was greatly increased by this success, of thort duration, In order to discover those who were accomplices with the adverse party, he invented new tortures, fometimes entting off the hands, at other times thrusting fire into the privities, of the people whom he suspected of being his enemies. During these cruckties, he aggravated their guilt by hypocrify, never pronouncing fentence without a preamble full of gentleness and mercy. He was particularly terrible to the fenate and nobility, the whole body of whom he frequently threatened entirely to extirpate. At one time, he furrounded the fenatehouse with his troops, to the great consternation of the fenators. At another, he resolved to amuse himself with their terrors in a different manner. Having invited them to a public entertainment, he received them all very formally at the entrance of his palace, and conducted them into a spacious hall, hung round with black, and illuminated by a few melancholy lamps, that diffused light only sufficient to show the horrors of the place. All around were to be feen nothing but coffins, with the names of each of the fenators written upon them, together with other objects of terror, and infirmments of execution. While the company beheld all the preparations with filent agony, feveral men, having their bodies blackened, each with a drawn fword in one hand and a fizming torch in the other, entered the hall, and danced round them. After fome time, when the guests expected nothing less than inflant death, well knowing Domitian's capricious cruelty, the doors were fet open, and one of the fervants came to inform them. that the emperor gave all the company leave to with-

These cruelties were rendered still more odious by his luft and avarice. Frequently after prefiding at an execution, he would retire with the lewdest proffitutes, and use the same baths which they did. His avarice, which was the confequence of his profusion, knew no bounds. He seized upon the estates of all against whom he could find the finallest pretentions; the must tristing action or word against the majesty of the prince was fufficient to ruin the possessor. He particularly exacted large fums from the rich Jews; who even then began to practife the art of peculation, for which they are at present so remarkable. He was excited against them, not only by avarice, but by jealoufy. A prophecy had been long current in the cast, that a person from the line of David should rule the world. Whereupon, this faspicious tyrant, willing to evade the prediction, commanded all the Jews of the lineage of David to be diligently fought out, and put to death. Two Chriftians, grandfons of St Jude the apofile, of that line, were brought before him; but finding them poor, and no way ambitious of temporal power, he dismissed them, confidering them as objects too mean for his jealoufy. However, his perfecution of the Christians was more fevere than that of any of his predecessors. By his letters and edicts they were banished in several parts of the empire, and put to death with all the tortures of ingenious cruelty. The predictions of Chaldeans and affrologers also, concerning his death, gave him most violent apprehensions, and kept him in the most tormenting diffusietude, As he approached towards the end of his reign, he would permit no criminal, or prifoner, to be brought into his presence, till they were bound in such a manner as to be incapable of injuring him; and he generally fecuted their chains in his own Rome. Hands. His jealoufies increafed to that degree, that he ordered the gallery in which he walked to be fet round with a pellucid flone, which ferved as a mirror to reflect the perfons of all fuch as approached him from behind.

Every omen and prodigy gave him fresh anxiety. But a period was foon to be put to this monfter's A confuicruelty. Among the number of those whom he at once racy formcarefied and suspected, was his wife Domitia, whom ed against he had taken from Hlus Lama her form him. he had taken from Ælius Lama, her former husband. This woman, however, was become obnoxious to him, for having placed her affections upon one Paris, a player; and he refolved to dispatch her, with several others that he either hated or fulpected. It was the tyrant's method to put down the names of all fuch as he intended to defiroy in his tablets, which he kept about him with great circumspection. Domitia, fortunately happening to get a fight of them, was ftruck at finding her own name in the catalogue of those fated to destruction. She showed the fatal list to Nurbanus and Petronius, præfects of the prætorian bands, who found themselves set down; as likewise to Stephanus, the comptroller of the household, who came into the conspiracy with alacrity. Parthenius also, the chief chamberlain, was of the number. Thefe, after many confultations, determined on the first opportunity to put their defign in execution; and at length fixed on the 18th day of September for the completion of their attempt. Domitian, whose death was every day foretold by the aitrologers, who, of confequence, must at last be right in their predictions, was in some measure apprehensive of that day; and as he had been ever timorous, so he was now more particularly upon his guard. He had some time before secluded himself in the most secret recesses of his palace; and at midnight was fo affrighted as to leap out of his bed, inquiring of his attendants what hour of the night it was. Upon their falfely affuring him that it was an hour later than that which he was taught to apprehend, quite transported, as if all danger was paft, he prepared to go to the bath. Just then, Parthenius his chamberlain came to inform him that Stephanus the comptroller of his household defired to speak to him upon an affair of the utinoit importance. The emperor having given orders that his attendants should retire, Stephanus entered with his hand in a fearf, which he had worn thus for fome days, the better to conceal a dagger, as none were permitted to approach the emperor except unaimed .--He hegan by giving information of a pretended confpiracy, and exhibited a paper in which the particulars were specified. While Domitian was reading the con-He is man tents with an eager curiofity, Stephanus drew his daged red ger, and thruck him in the groin. The wound not being mortal, Domitian caught hold of the affathin, and threw him upon the ground, calling out for affatance. He demanded also his sword, that was usually placed under his pillow; and a boy who attended in the .part-. ment running to fetch it, found only the feablard, for Parthenius had previously removed the blade. The ftruggle with Stephanus Hill continued : Domitian tiid kept him under, and at one time attempted to wred the dagger from his hand, at another to tear out his eves with his fingers. But Parthenius, with his freedmad, a gladiator, and two fubaltern officers, now coming in,

ran all furioutly upon the emperor, and dispatched his

He perfecutes the Lews and Christians. Rome, with many wounds. In the mean time, tome of the officers of the guard being alarmed, came to his affiltance, but too late to fave him; however, they flew Ste-

phanus on the fpot.

When it was publicly known that Domitian was flain, the joy of the fenate was fo great, that being affembled with the utmost haste, they begen to load his memory with every reproach. His flatues were commanded to be taken down; and a decree was made, that all his inferiptions should be erased, his name struck out of the registers of fame, and his funeral omitted. The people, who now took little part in the affairs of government, looked on his death with indifference; the foldiers alone, whom he had loaded with favours, and enriched by largeffes, fincerely regretted their benefactor. The fenate, therefore, refolved to provide a fucceffor before the army could have an opportunity of taking the appointment upon themselves: and Cocceius Nerva was choten to the empire the very

day on which the tyrant was flain.

Nerva was of an illustrious family, as most fay, by birth a Spaniard, and above 65 years old when he was called to the throne. He was, at that time, the most remarkable man in Rome, for his virtues, moderation, and respect to the laws; and he owed his exaltation to the blameless corduct of his former life. When the fenate went to pay him their fubmissions, he received them with his accustomed humility; while Arius Antonius, his mo't intimate friend, having embraced him with great familiarity, congratulated him on his accession to the enspire: and indeed no emperor had ever shewn himself more worthy of the throne than Nerva; his only fault being that he was too indulgent,

T. great

Nerva

and often made a prey by his infidious courtiers.

However, an excess of indul ence and humanity were faults that Rome could eafily pardon, after the cruelties of fuch an emperor as Domitian. Being long accustomed to tyranny, they regarded Nerva's gentle reign with rapture, and even gave his imbeeility the name of benevolence. Upon coming to the throne, he folemply fwore that no fenator of Rome should be put to death by his command, during his reign, though they gave ever fo just a cause. He conferred great favours, and bestowed large gifts, upon his particular friends. His liberality was to extensive, that, upon his ind promotion to the empire, he was confirmined to fell his gold and filver plate, with his other rich moveables, to enable him to continue his abcralities. He released the cities of the empire from many fevere impositions, which had been laid upon them by Vefpulian; took off a rigorous tribute, which had been laid upon carriages; and reffered those to their property who had been unjustly dispossessed by Domitian.

During his fluort reign he made feveral good laws. Ile particularly prohibited the castration of male children; which had been likewife condemned by his predecessor, but not wholly removed. He put all those flaves to death who had, during the last reign, informed against their masters. He permitted no statues to be erected to honour him, and converted into money fue's of Domitian's as had been frared by the fenate. He fold many rich robes, and much of the splendid furniture of the palace, and retrenched fever l unreasonable expences at court. At the fame time, he had fo little regard for money, that when Herodes Atticus, one of his fubicion, had found a large treasure, and Rome. wrote to the emperor how to dipore of it, he received " for answer, that he might use u; but the finder fill ina private person, Nerva, admiri g h's hours'y, wrote him word, that then he might ab

A life of fuch generolity and mildne's was not, however, without its enemies. Calpurnius Craffus, with fome others, formed a dangerous confliracy to deftrov him; but Nerva would use no therity; he refled fatisfied with banishing those who were culoable, though But the most dangerous infurraction against his interests was from the practorian bands; who, headed by Cafparius Olianus, infifted upon revenging the late emperor's death, whole memory was fill dear to them from his frequent liberalities. Nerva, whose kindness to good men rendered him still more obnoxious to the vicious, did all in his power to flop the progress of this infurrection; he prefented himself to the mutinous soldiers, and, opening his bosom, defired them to firike there, rather than be guilty of fo much injutlice. The foldiers, however, paid no regard to his remonstrances; but, feizing upon Petronius and Parthenius, flew them in the most ignominious manner. Not content with this, they even compelled the emperor to approve of their fedition, and to make a speech to the people, in which he thanked the cohorts for their fidelity. So difagreeable a constraint upon the emperor's inclinations was, in the end, attended with the most happy effects, as it caused the adoption of Trajan to succeed him in the empire. Nerva perceived that in the present turbulent Adopt disposition of the times, he stood in need of an assistant Irajan as in the empire, who might thate the fatigues of govern-his fuccesment, and contribute to keep the licentious in awe. For for. this purpose, setting aside all his own relations, he fixed upon Ulpius Trajan, an utter stranger to his family, who was then governor in Upper Germany, to fucceed him. Having put his determination in execution, and performed the accustomed solemnities, he instantly sent off ambaffadors to Cologne, where Trajan then resided, intreating his affifrance in punishing those from whom he had received fuch an infult. The adoption of this admirable man, proved fo great a curb to the licenticusness of the soldiery, that they continued in perfect obedience during the rest of this reign; and Casparius being fent to him, was, by his command, either banished or put to death.

The adopting Trajan was the last public act of Death & Nerva. In about three months after, having put him- werva. felf in a violent paffion with one Regulus a fenator, ho was feized with a fever, of which he shortly after died, after a short reign of one year four months and nine days. He was the first foreign emperor who reigned in Rome, and justly reputed a prince of great generofity and moderation. He is also celebrated for his wildom, though with less reason, the greatest instance he gave of it, during his reign, being in the choice of his fucceffor.

Trajan's family was originally from Italy, but he him-Great q felf was born in Seville in Spain. He very early ac-1 ties of companied his father, who was a general of the Ro-Trajan. mans, in his expeditions along the Euphrates and the Rhine; and while yet very young, acquired a confiderable reputation for military accomplishments. He enured his body to fatigue; he made long marche on

Rome. foot; and laboured to acquire all that skill in war which was necessary for a commander. When he was made geperal of the army in Lower Germany, which was one of the most considerable employments in the empire, it made no alteration in his manners or way of living; and the commander was feen noway differing from the private tribune, except in his fuperior wildom and virtues. The great qualities of his mind were accompanied with all the advantages of perfon. His body was majeffic and vigorous; he was at that middle time of and the caution of age, being 42 years old. To thefe qualities were added, a modely that feemed peculiar to himfelf alone; so that mankind found a pleasure in praifing those accomplishments of which the possessor fremed no way confcious. Upon the whole, Trajan is diffinguished as the greatest and the best emperor of Rome. Others might have equalled him in war, and fome might have been his rivals in clemency and goodnefs; but he feems the only prince who united thefe talents in the greatest perfection, and who appears equally to engage our admiration and our regard. Upon being informed of the death of Nerva, he prepared to return to Rome, whither he was invited by the united intreaties of the state. He therefore began his march with a discipline that was for a long time unknown in the armies of the empire. The countries through which he paffed were neither ravaged nor taxed, and he entered the city, not in a triumphant manner, though he had deferved it often, but on foot, attended by the civil officers of the state, and followed by his soldiers, who marched filently forward with modelly and refee t. It would be tedious and unnecessary to enter into a detail of this good monarch's labours for the state. His application to bufinefs, his moderation to his enemies, his modesty in exaltation, his liberality to the deferving, and his frugality in his own expences; thefe have all been the subject of panegyric among his contemporaries, and they continue to be the admiration of potterity. Upon giving the prefect of the pretorian band the fword, according to custom, he made use of this remarkable expression, " Take this sword, and use it, if I have merit, for me; if otherwife, against me." After which he add d, That he who gave laws was the first who was bound to observe them. His failings were his love of women, which, however, never hurried him beyond the bounds of decency; and his immoderate passion for war, to which he had been bred up from his childhood. The first war he was engaged in after his coming to the throne was with the Ducians, who, during the reign of Domitian, had committed numberless ravages upon the provinces of the empire. He therefore raifed a powerful army, and with great expedition marched into those barbarous countries, where he was vigorously opposed by Decebalus, the Dacian king, who for a long time withflood his boldest efforts; but was at last entirely reduced, and his kingdom made a Roman province, See Dacta. At his return to Rome, he entered the city in triumph; and the rejoicings for his victories lasted for the space of 120 days.

Having thus given peace and prosperity to the empire, Trajan continued his reign, loved, honoured, and almost adored, by his subjects. He adorned the city with public buildings; he freed it from fuch men as Eved by their vices; he enter zined persons of merit

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with the utmost familiarity; and so little feared his Rome. enemies, that he could fearcely be induced to suppose that he had any.

It had been happy for this great prince's memory, He perfeif he had shown equal elemency to all his subjects; but, cutes the about the ninth year of his reign, he was perfuaded to Christiacs look upon the Christians with a suspicious eye, The extreme veneration which he professed for the religion of the empire, fet him fe luloufly to oppole every innovation, and the progress of Christianity seemed to alarm him. A law had for some time before been passed, in which all Heteriæ, or focieties diffenting from the effablished religion, were considered as illegal, being reputed numeries of impossure and sedition. Under the function of this law, the Christians were perfecuted in all parts of the em, ire. Great numbers of them were put to death, as well by popular tuniults as by edicls and judicial proceedings. However, the perfecution ceafed after some time; for the emperor having advice from Pliny, the proconful in Bithynia, of the innocence and fimplicity of the Christians, and of their inoffentive and moral way of living, he suspended their punishments. But a total stop was put to them upon Tiberianus the governor of Palestine's fending him word, That he was wearied out with executing the laws against the Galileans, who crouded to execution in fuch multitudes. that he was at a lofs how to proceed. Upon this information, the emperor gave orders, that the Christians thould not be fought after; but if any offered themfelves, that they thould fuffer. In this manner the rage of perfecution ceased, and the emperor found leifure to turn the force of his arms against the Armenians and Parthians, who now began to throw off all fubmiffion to Rome.

While he was employed in these wars, there was a Insurred dreadful infurrection of the Jews in all parts of the em- tion of the pire. This wretched people, still infatuated, and ever Jews. expeding fome figual deliverer, took the advantage of Trajan's absence in the east to massacre all the Grecks and Remans whom they got into their power, without reluctance or mercy. This rebellion first began in Cyrene, a Roman province in Africa; from thence the fiame extended to Egypt, and next to the iff and of Cyprus. These places were in a manner dispeopled with ungovernable fury. Their barbarities were fuch, that they are the flesh of their enemies, wore their skins, fawed them afunder, cast them to wild beasts, made them kill each other, and fludied new torments by which to destroy them. However, these cruelties were of no long duration: the governors of the respective provinces making head against their tumultuous fury, foon treated them with a retaliation of cruelty, and put them to death, not as human beings, but as outrageous pefts to fociety. As the Jews had practifed their cruclties in Cyprus particularly, a law was publicly enacted, by which it was made capital for any Jew to fet foot on

the ifland. During these bloody transactions, Trajan was pro-Successes of fecuting his fuccesses in the east. His first march was Trajan in into Armenia, the king of which country had disclaimed the east. all alliance with Rome, and received the enfigns of rovalty and dominion from the monarch of Parthia. However, upon the news of Trajan's expedition, his fears were fo great, that he abandoned his country to the invaders; while the greatest part of his governors and Еe

nobility

Rome, nobility came submissively to the emperor, acknowledging themselves his subjects, and making him the most costly presents. Having in this manner taken possession of the whole country, and gotten the king into his power, he marched into the dominions of the king of Parthia. There entering the opulent kingdom of Melopotamia, he reduced it into the form of a Ro-man province. From thence he went against the Parthians, marching on foot at the head of his army; in this manner croffing the rivers, and conforming to all the severities of discipline which were imposed on the meanest foldier. His successes against the Parthians were great and numerous. He conquered Syria and Chaldea, and took the famous city of Babylon. Here, attempting to cross the Euphrates, he was opposed by the enemy, who were refolved to flop his paffage: but he fecretly caused boats to be made upon the adjoining mountains; and bringing them to the water fide, paffed his army with great expedition, not, however, without great flaughter on both fides. From thence he traversed tracts of country which had never before been invaded by a Roman army, and feemed to take a pleafure in purfuing the same march which Alexander the Great had formerly marked out for him. Having passed the rapid streams of the Tigris, he advanced to the city of Ctefiphon, which he took, and opened himfelf a passage into Persia, where he made many conquests, that were rather splendid than serviceable. After subduing all the country bordering on the Tigris, he marched fouthward to the Persian gulf, where he subdued a monarch who poffessed a confiderable island made by the divided streams of that river. Here, winter coming on, he was in danger of losing the greatest part of his army by the inclemency of the climate and the inundations of the river. He therefore with indefatigable pains fitted out a fleet, and failing down the Persian gulf, entered the Indian ocean, conquering, even to the Indies, and subduing a part of them to the Roman empire. He was prevented from purfuing further conquests in this distant country, both by the revolt of many of the provinces he had already fubdued, and by the fcarcity of provisions, which feemed to contradict the reports of the fertility of the countries he was induced to invade. The inconveniences of increafing age also contributed to damp the ardour of this enterprise, which at one time he intended to pursue to the confines of the earth. Returning, therefore, along the Persian gulf, and fending the senate a particular account of all the nations he had conquered, the names of which alone composed a long catalogue, he prepared to punish those countries which had revolted from him. He began by laying the famous city of Edesia, in Mefopotamia, in ashes; and in a short space of time, not only retook all those places which had before acknowledged subjection, but conquered many other provinces, fo as to make himself master of the most fertile kingdoms of all Afia. In this train of fucceffes he fcarce met with a repulse, except before the city Atra, in the deferts of Arabia. Wherefore judging that this was a proper time for bounding his conquefts, he refolved to give a master to the countries he had subdued. With this resolution he repaired to the city Cteliphon, in Perfia; and there, with great ceremony, crowned Parthemassates king of Parthia, to the great joy of all his fubjects. He established another king also over the

kingdom of Albania, near the Caspian sea. Then Rome. placing governors and lieutenants in other provinces. he resolved to return to his capital in a more magnificent manner than any of his predecessors had done before him. He accordingly left Adrian general of all his forces in the east; and continued his journey towards Rome, where the most magnificent preparations were made for his arrival. But he had not proceeded farther than the province of Cilicia, when he found himself too weak to travel in his usual manner. He therefore caused himself to be carried on ship-board to the city of Seleucia, where he died of apoplexy, having been once before attacked by that diforder. During the time of his indisposition, his wife Plotina constantly attended near him; and, knowing the emperor's diflike to Adrian, it is thought forged the will, by which he was adopted to succeed.

Trajan died in the 63d year of his age, after a reign He dies of nineteen years fix months and fifteen days. How and is fuchighly he was esteemed by his subjects appears by their ceeded by manner of bleffing his fucceffors, always wishing them Adrian. the fortune of Augustus, and the goodness of Trajan. His military virtues, however, upon which he chiefly valued himfelf, produced no real advantages to his

country; and all his conquests disappeared, when the power was withdrawn that enforced them.

Adrian was by descent a Spaniard, and his ancestors were of the same city where Trajan was born. He was nephew to Trajan, and married to Sabina his grand-niece. When Traian was adopted to the empire, Adrian was a tribune of the army in Mæsia, and was sent by the troops to congratulate the emperor on his advancement. However, his brother-in-law, who defired to have an opportunity of congratulating Trajan himfelf, supplied Adrian with a carriage that broke down on the way. But Adrian was resolved to lose no time, and performed the rest of the journey on foot. This assiduity was very pleasing to the emperor; but he disliked Adrian from several more prevailing motives. His kinsman was expensive, and involved in debt. He was, besides, inconstant, capricious, and apt to envy another's reputation. These were faults that, in Trajan's opinion, could not be compensated either by his learning or his talents. His great skill in the Greek and Latin languages, his intimate acquaintance with the laws of his country and the philosophy of the times, were no inducement to Trajan, who, being bred himfelf a foldier, defired to have a military man to fucceed him. For this reason it was that the dying emperor would by no means appoint a fucceffor; fearful, perhaps, of injuring his great reputation, by adopting a person that was unworthy. His death, therefore, was concealed for fome time by Plotina his wife, till Adrian had founded the inclinations of the army, and found them firm in his interests. They then produced a forged instrument, importing that Adrian was adopted to succeed in the empire. By this artisce he was elected by all orders of the flate, though then absent from Rome, being left at Antioch as general of the forces in the eaft.

Upon Adrian's election, his first care was to write the fenate, excusing himself for assuming the empire without their previous approbation; imputing it to the hafty zeal of the army, who rightly judged that the fenate ought not long to remain without a head. He

then

He abaneast in conquest, of Trajan.

then began to purfue a course quite opposite to that of his predecessor, taking every method of declining war. and promoting the arts of peace. He was quite fatisfied with preferving the ancient limits of the empire. and feemed no way ambitious of extensive conquest. For this reason he abandoned all the conquests which dons all the Trajan had made, judging them to be rather an inconvenience than an advantage to the empire; and made the river Euphrates the boundary of the empire, placing the legions along its banks to prevent the incur-

fions of the enemy. Having thus fettled the affairs of the eaft, and leaving Severus governor of Syria, he took his journey by land to Rome, fending the aihes of Trajan thither by sca. Upon his approach to the city, he was informed of a magnificent triumph that was preparing for him; but this he modestly declined, defiring that those honours might be paid to Trajan's memory which they had defigned for him. In confequence of this command, a most superb triumph was decreed, in which Trajan's statue was carried as a principal figure in the procession, it being remarked that he was the only man that ever triumphed after he was dead. Not content with paying him these extraordinary honours, his ashes were placed in a golden urn, upon the top of a column 140 feet high. On this were engraven the particulars of all his exploits in baffo relievo; a work of great labour, and which is still remaining. These testimonies or respect to the memory of his predeceffor did great honour to the heart of Adrian. His virtues, however, were contrasted by a strange mixture of vices; or to say the truth, he wanted frength of mind to preferve his general rectitude of character without deviation. As an emperor, however, his conduct was most admirable, as ail his public transactions appear dictated by the foundest policy and the most disinterested wisdom. But these being already enumerated under the article ADRIAN, it would be fuperfluous to repeat them in this place. He was succeeded by Marcus Antoninus, afterwards furnamed the Pious, whom he had adopted fome time before his death. See ANTONINUS

From the beginning of the reign of Antoninus Pius,

we may date the decline of the Roman empire. From the time of Caefar to that of Traian, icarce any of the emperors had either abilities or inclination to extend the limits of the empire, or even to defend it against the barbarous nations who furrounded it. During all this space, only some inconsiderable provinces to the northward of Italy, and part of the island of Britain. had been subjugated. However, as yet, nothing was loil; but the degeneracy and corruption of the people had fown those feeds of diffolution which the empire quickly began to feel. The diforders were grown to fuch an height, that even Trajan himfelf could not cure them. Indeed his ealtern conquetts could fearce have been preferved though the republic had been existing in all its glory; and therefore they were quietly refigned by his fuceesfor Adrian, as too diltant, disastected, and ready to be overrun by the barbarous nations. The province of Dacia, being nearer to the centre of government, was more eafily preferved; and of confequence remained for a long time subject to Rome. During the 23 years of the reign of Antoninus, few remarkable events happened. The historians of those times are excessive in their praises of his justice, generofity, and other virtues, both public and private. He put a stop to the perfecution of the Christians, which raged in the time of Trajan and Adrian, and reduced the Brigantes, a tribe of Britons, who had revolted. During his reign, feveral calamities be-fel the empire. The Tioer, overflowing its banks, laid the lower part of Rome under water. The inundation was followed by a fire, and this by a famine, which fwept off great numbers, though the emperor took the utmost care to supply the city from the most distant provinces. At the same time the cities of Narbonne in Gaul, and Antioch in Syria, together with the great square in Carthage, were destroyed by fire; however, the emperor foon restored them to their former condition. He died in the year 163, univerfally lamented by his subjects, and was succeeded by Marcus Aurelius, furnamed the Philosopher, whom he had adopted towards the latter end of his reign.

The transactions of this emperor the reader will find related under the article ANTONINUS Philosophus

E c 2

After

(A) As, after the death of Marcus Aurelius, the Roman empire declined very fast, it may not be amis here to give fome account of the military and other establishments of the Roman emperors. Mr Gibbon observes, that, in the times of the commonwealth, the use of arms was confined to those who had some property to defend, and an interest in maintaining the laws which were proposed to be enacted. But, as the public freedom declined, and war became degraded into a trade, those who had the property of the country chose rather to hire others than to expose their own persons, as is the case with our modern armies. Yet, even after all confideration of property had been laid afide among the common foldiers, the officers continued to be chosen from among those who had a liberal education, together with a good stare of property. However, as the common foldiers, in which the frength of an army conflits, had now no more of that virtue called patriorifm, the legions which were formerly almost invincible, no longer fought with the fame ardour as before. In former times, the profellion of a soldier was more honourable than any other; but, when the soldiers came to be looked upon as hirelings, the honour of the profession funk of course, and, by this means, one of the strongest motives which the foldiers had to submit to their severe discipline, and exert themselves against their enemies, was removed. On the very first entrance of a soldier into the Roman service, a solemn oath was administered to him, by which he engaged never to defert his flandard; to submit his own will to that of his leaders, and to facrifice his life" for the fafety of the emperor and the empire. The attachment which the Romans had to their flandards was indeed aftonishing. The golden engle, which appeared in the front of the legion, was almost an object of adoration with them; and it was effected impious, as well as ignominious, to abandon that facred en-

Gaufes of the decline of the Roman empire.

Some. TAfter this death of Marcus Aurelius, his fon Con- ther grand for prone to vice, that he was generally he l Roman modus forceeded to the imperial throne without oppo- lieved to have been the ion, not of Margus Auralius, filten. He was in every respect unworthy of his fa- but of a celebrated gladiator, with whom the empress

firm in the time of danger. The centurions had a right to punish with blows, the generals with death; and it was an inflexible maxim of the Roman difcipline, that a good toldier should dread his officers much more than

Notwithstanding all this, so sensible were the Romans of the infusficiency of mere valour without skill, that military exercises were the unremitted object of their discipline. The recruits and young toldiers were confamily trained both in the morning and evening; and even the veterans were not excused from the daily repetition of their exercise. Large sheds were erected in the winter-quarters of the troops, that these useful labours might not be interrupted by tempelluous weather, and the weapons-used in the time initiations of war were always twice as heavy as those made use of in real action. The foldiers were diligently instructed to march, to run, kap, swim, carry heavy burdens, and handle every species of weapon either for offence or defence; to form a variety of evolutions; and to move to the found of flutes in the pyrrhic or martial dance. It was the policy of the ableit generals, and even of the emperors themselves, to encourage these military studies by their presence and example; and we are informed that Adrian, as well as Trajan, frequently condefeended to instruct the unexperienced foldiers, to reward the diligent, and fometimes to dispute with them the prize of superior strength and dexterity. Under the reigns of those princes, the science of tactics was cultivated with success; and, as long as the empire retained any vigour, their military instructions were respected as the most perfect model of Roman

From the foundation of the city, as the Romans had in a manner been continually engaged in war, many alterations had taken place in the constitution of the legions. In the time of the emperors, the heavy-armed infantry, which composed its principal strength, was divided into 10 cohorts and 55 companies, under the orders of a correspondent number of tribunes and centurions. The first cohort, which always claimed the post of honour and the cuffody of the eagle, was formed of 1105 foldiers, the most approved for valour and fidelity. The remaining nine cohorts conflited each of 555; and the whole body of legionary infantry conflited of 6100 men. Their arms were uniform, and excellently adapted to the nature of their fervice; an open helmet with a lofty creft; a breaftplate or coat of mail; greaves on their legs, and a large buckler on their left arm. Their buckler was of an oblong and concave figure, four feet in length, and two and an half in breadth; framed of a light wood; covered with a bull's hide, and ftrongly guarded with brafs plates. Befides a lighter spear, the legionary carried the pilum, a ponderous javelin about fix feet long, and terminated by a maily triangular point of fleel 18 inches in length. This weapon could do execution at the distance of 10 or 12 paces; but its stroke was so powerful, that no cavalry durst venture within its reach, and scarce any armour could be formed proof against it. As fonn as the Roman had darted his pilum, he drew his fword, and rushed forward to close with the enemy. It was a thort well-tempered Spanish blade with a double edge, and equally calculated for the purposes of pushing and flyiking; but the foldier was always initructed to prefer the former use of his own weapon, as his body remained thereby the less exposed, while at the same time he intlicted a more dangerous wound on his adversary, The legion was ufually drawn up eight deep; and the regular distance of three feet was left between the files and ranks. Thus the foldier possessed a five space for his arms and motions; and sufficient intervals were allowed, through which feafonable reinforcements might be introduced to the relief of the combatants. The cavalry, without which the force of the legion remained imperfect, was divided into ten troops or fquadrons: the first, as the companion of the first cohort, consisted of 132 men; whilst each of the other nine amounted only to 66. The entire establishment formed a body of 726 horse, naturally connected with its respective legion; but occaflowally acting in the line, and composing a part of the wings of the army. The cavalry of the ancient republic was composed of the noblest youths of Rome and Italy, who, by performing their military services on horseback, prepared themselves for the offices of senator and con'ul; but after the alteration of manners and government which took place at the end of the commonwealth, the most wealthy of the equalitian order were engaged in the administration of justice and of the revenue; and, whenever they embraced the profession of arms, they were immediately entrufted with a troop of horse or a cohort of soot, and the cavalry, as well as the infantry, were recruited from the provinces. The horses were bred for the most part in Spain, or in Cappadocia. The Roman troopers definited the complete armour which encumbered the cavalry of the east. Instead of this, their arms confilted only of an h-lmet, on oblong shield, light boots, and a coat of mail. A javelin and a long broadfword were their principal offensive weapons. They seem to have borrowed the use of lances and iron maces from

Befides the legionaries, the Romans, effecially in the times of the emperors, began to take auxiliaries into their pay. Confiderable levies were regularly made among those provincials who had not yet attained to the rank. of Roman citizens. Many dependent princes and communities, differred round the frontiers, were permitted, for a while, to hold their freedom and fecurity by the tenure of military fervice. Even felect troops of barbarians were convelled to enter into the fervice; which was afterwards found to be a most destructive expedient, not caly as it carried the Roman military skill among barbarians who were otherwise unacquainted with it, but it b. e these auxiliaries themselves frequent opportunities of revolting, and at last of dethroning the emperors at pleafure, and even of overturning the empire itself. The number of auxiliaries was seldom inscrior to that of

Rome. Faufting was supposed to be intimate. According to man blood, and capable from his infancy of the most Rome.

Mr. Gibbon, however, Commodus was not, as has been inhaman actions. Nature had formed him of a weak, represented, a tiger born with an infatate thirst of hu- rather than a wicked disposition. His simplicity and

the legionaries themselves. The bravest and most faithful bands among them were placed under the command of prefects and centurions, and feverely trained in the arts of Roman discipline; but the far greater part retained, those arms which they had used in their native country. By this institution, each legion, to whom a certain number of auxiliaries was allotted, contained within itself every species of lighter troops, and of missile weapons; and was capable of encountering every nation with the advantages of its respective arms and discipline. Nor was the legion destitute of what, in modern language, would be styled a train of artillery. This confisted of 10 military engines of the largest fize, and 56 fm iller ones; but all of them, either in an oblique or horizontal manner. ditcharged fromes and darts with irrefulible violence.

The camp of a Roman legion prefented the appearance of a fortified city. As foon as the space was marked out, the pioneers carefully levelled the ground, and removed every impediment that might interrupt its perfect regularity. Its form was an exact quadrangle; and it may be computed that a fquare of 700 yards was fufficient for the encamement of 20,000 Romans, though a fimilar number of modern troops would expose to the enemy a front of more than treble that extent. In the midft of the camp, the practorium, or general's tent, arofe above the others; and the cavalry, infantry, and auxiliaries, had each their respective stations appointed them. The streets were broad, and perfectly flraight; and a vacant space of 200 feet was left on all fides between the tents and ramwere trough and percently trangerty and a vacant space of 200 feet was need on an index servers are tents and rampart. The rumpert lifelf was 12 feet bigh, armed with a line of firong and intricate palifades, and defended by a ditch 12 feet deep and as much broad. This labour was performed by the legions themselves, to whom the use of the spade and the pick-axe was no less familiar than that of the sword or pilum. Whenever the trumpet gave the fignal of departure, the camp was almost inflantly broke up, and the troops fell into their ranks without delay or confusion. Befides their arms, which the foldiers scarcely considered as an incumbrance, they were laden with their kitchen-furniture, the instruments of fortification, and provisions for many days. Under this weight, which would oppress a modern soldier, they were taught to advance by a regular step, near 20 miles in fix hours. On the appearance of an enemy, they threw afide their baggage, and, by only and rapid evolutions, converted the column of march into an order of battle. The flingers and archers Exirmithed in the front; the auxiliaries formed the first line, and were seconded or sustained by the legions. The cavalry covered the slanks, and the military engineers were placed in the rear.

The numbers of the Roman armies are not easily calculated with any tolerable accuracy. We may compute, however, that the legion, which confided of 6831 Romans, might, with its attendant auxiliaries, amount to 12.500 men. The peace establishment of Adrian and his successors was composed of no fewer than 30 of these formidable brigades; and most probably formed an army of 370,200 men. Instead of being confined within the walls of fortified cities, which the Romans confidered as the refuge of weakness or pufillanimity, the legions were encamped on the banks of the great rivers, and along the frontiers of the barbarians. Three legions were fufficient for Britain. The principal strength lay upon the Rhine and Danube, and consisted of 16 legions, disposed in the following proportions: two in the Lower, and three in the Upper Germany; one in Rheetia; one in Noricum; four in Pannonia; three in Mæsa; and two in Dacia. The defence of the Euphrates was intrusted to eight legions, fix of whom were placed in Syria, and the other two in Cappadocia. With regard to Egypt, Africa, and Spain, as they were far removed from any important scene of war, a large legion maintained the domettic tranquillity of each of those great provinces. Laly was defended by the city cohorts and practorian guards formerly mentioned. These differed polling from the legions in their arms and institutions, except in a more splendid appearance, and a lefs rigid discipline.

The Roman navy, though fufficient for every useful purpose of government, never seemed adequate to the greatnels of the empire. The policy of the emperors was directed only to preferve the peaceful dominion of the Mediterranean fea, which was included within their dominious, and to protect the commerce of their fubicets. Two permanent flects were flationed by Augustus, one at Ilavenna on the Adriatic, and the other at Milenum in the bay of Nacles. A very confiderable force was also stationed at Frejus in Provence; and the Euvine was guarded by 40 fbi s and 3000 foldiers. To all these we may add the fleet which preserved the communication between Gaul and Britain, and a great number of veffels con tently maintained on the Rhine and Danube to hards the enemy, or intercept the passinge of the barbarians. The whole military establishment by sea and land amounted to about 450,000 men.

It was not, however, to this formidable power alone that the empire owed its greatness. The policy of the laws ! contributed as much to its funport as the martial establishment itself. According to Mr Gibbon, though the provinces might occasionally fuffer from the partial abuse of delegated authority, the general principle of government was wife, simple, and beneficent. Among these beneficent principles he rickons that of universal toleration; but to this there were feveral exceptions: for the British Druids were perfecuted and deflroved by the Romans on account of their religion; the Egyptians and Jews were formetimes perfecuted; and the Christians were frequently fo, and that even under the very best emperors, Trajan and Marcus Aurelius. However, as a very general toleration of religidus fentiments did take place under the heathen emperors of Rome, we must certainly look upon the as one of the causes of the prosperity of the empire.

Another thing which greatly contributed to the firength and profperity of the empire, was the extending of the freedom .

Rome. timidity rendered him the flave of his attendants, who habit, and at length became the ruling paffion of his Rome. gradually corrupted his mind. His cruelty, which at foul." But, however this may be, it is certain that the' first obeyed the dictates of others, degenerated into actions of this emperor were flagitious almost beyond Monttrous cruelty of Commodus.

freedom of Rome to fo many people. "The narrow policy (fays Mr Gibbon) of preferving, without any foreign mixture, the pure blood of the ancient citizens, had checked the fortune and haftened the ruin of Athens and Sparta. During the most flourishing era of the Athenian commonwealth, the number of citizens decreased gradually from about 30,000 to 21,000. If, on the contrary, we fludy the growth of the Roman republic, we may discover, that notwithstanding the incessant demands of wars and colonies, the citizens, who, in the time of Servius Tuilius, amounted to no more than 83,000, were multiplied, before the end of the focial war, to the number of 463,000 men able to bear arms in the service of their country. When the allies of Rome claimed an equal share of honours and privileges, the fenate preferred the chance of war to a concession; however, at last, all the Italian states, except the Samnites and Lucanians, were admitted into the bosom of the republic, and soon contributed to the ruin of public freedom. When the popular affemblies had been suppressed by the administration of the emperors, the conquerors were distinguished from the vanquished nations only as the first and most honourable order of subjects; and their increase, however rapid, was no longer exposed to the same dangers. Yet the princes who adopted the maxims of Augustus, guarded with the frietest care the dignity of the Roman name, and diffused the freedom of the city with a prudent liberality.

4 Till the privileges of the Romans had been progressively extended to all the inhabitants of the empire, an important distinction was preserved between Italy and the provinces. The estates of the Italians were exempted from taxes, and their persons from the arbitrary jurisdiction of governors. From the foot of the Alps to the extremity of Calabria, all the natives of Italy were born citizens of Rome. The provinces of the empire were destitute of any public force or conflitutional freedom. The free flates and cities, which had embraced the cause of Rome, were insensibly sunk into real servitude. The public authority was everywhere engressed by the ministers of the fenate and of the emperors, and that authority was absolute. But the same salutary maxims of government which had fecured the peace and obedience of Italy, were extended to the most distant conquests. A nation of Romans was gradually formed in the provinces, by the double expedient of introducing colonies, and of admitting the most

faithful and deserving provincials to the freedom of Rome.

" So fensible were the Romans of the influence of language over national manners, that it was their most ferious care to extend, with the progress of their arms, the use of the Latin tongue. The eastern provinces, however, were less docile in this respect than the western ones; and this obvious difference made a distinction between the two portions of the empire, which became very remarkable when it began to decline. Nor was the influence of the Greek language and fentiments confined to the narrow limits of that once celebrated country. Their empire, by the progress of colonies and conquest, had been diffused from the Adriatic to the Euphrates and Nile. Afia was covered with Greek cities, and the long reign of the Macedonian kings had introduced a filent revolution into Syria and Egypt. In their pompous courts, those princes united the elegance of Athens with the luxury of the east; and the example of the court was imitated, at an humble distance, by the higher ranks of their subjects. Such was the general division of the Roman empire into the Latin and Greek languages; to which we may add a third diffinction for the body of the natives in Syria, and especially in Egypt. The use of their ancient dialects, by fecluding them from the commerce of mankind, checked the improvements of these barbarians. The flothful effeminacy of the former exposed them to the contempt, the fullen ferocionsness of the latter excited the aversion, of the Roman conquerors. They seldom defired or deserved the freedom of the city; and it is remarked, that more than 230 years elapsed after the ruin of the Ptolemies, before a native Egyptian was admitted into the fenate of Rome.

"The number of fubjects who acknowledged the laws of Rome, of citizens, of provincials, and of flaves, cannot now be fixed with fuch accuracy as the importance of the object would deferve. We are informed, that when the emperor Claudius exercifed the office of cenfor, he took an account of 6,945,000 Roman citizens; . who, with the proportion of women and children, must have amounted to about 20.000,000 of fouls. The multitude of subjects of an inferior rank was uncertain and sluctuating: but after weighing with attention every circumflance which could influence the balance, it feems probable that there existed, in the time of Claudius, about twice as many provincials as there were Roman citizens, of either fex, and of every age; and that the flaves were at least equal in number to the free inhabitants of the Roman world. The total amount of this imperfect calculation would rife to about 120 millions of perfons; a degree of population which possibly exceeds: that of modern Europe, and forms the most numerous society that has ever been united under the same system of ; government.

" Domestic peace and union were the natural consequences of the moderate and comprehensive policy embraced by the Romans. The vanquished nations, blended into one great people, refigned the hope, nay even the with, of refuming their independence, and fearcely confidered their own existence as distinct from the existence of Rome. The established authority of the emperors pervaded, without an effort, the wide extent of their dominions, and was exercised with the same facility on the banks of the Thames, or of the Nile, as on those of the Tiber The legions were defined to ferve against the public enemy, and the civil magistrate seldom required the aid of a military force.

" It was fearcely possible that the eyes of contemporaries should discover in the public felicity the latent causes of decay and corruption. This long peace, and the uniform government of the Romans, introduced a flow and a Rome. a parallel. Many very strange instances of his crucky are related by the ancients. He is faid to have cut afunder a corpulent man whom he faw walking along the threet; partly, to try his own thrength, in which he greatly excelled; and partly, as he himself owned, out of curiofity, to fee his entrails drop out at once. He took pleafure in cutting off the feet, and putting out the eyes, of such as he met in his rambles through the city; telling the former, after he had thus maimed them, that now they belonged to the nation of Monopadii; and the latter, that they were now become Lufcinii, alluding to the word lufcus, "one-eyed." Some he murdered because they were negligently dressed; others, because they seemed to be trimmed with too much nicety. He pretended to great skill in furgery, especially at letting blood: but sometimes, instead of eafing by that means those whom he visited, or who were prevailed upon to recur to him, he cut off, by way of diversion, their ears and noses. His lewdness and debaucheries were equally remarkable, and equally infamous. However, he is faid to have been exceedingly well skilled in archery, and to have performed incredi-ble feats in that way. He excelled all men in strength; and is faid to have run an elephant through with his fpear, and to have killed in the amphitheatre 100 lions, one after another, and each of them at one blow. Forgetful of his dignity, he entered the lifts with the common gladiators, and came off conqueror 735 times; whence he often subscribed himself in his letters, the conqueror of 1000 gladiators.

The public transactions of this reign were but very Rome. few. Soon after his father's death, Commodus concluded a peace with the Marcomanni, Quadi, &c. on He conthe following conditions. I. That they should not cludes a fettle within five miles of the Danube. 2. That they peace with should deliver up their arms, and supply the Romans the barbawith a certain number of troops when required. 3. rians. That they should assemble but once a month, in one place only, and that in presence of a Roman centurion. 4. That they thould not make war upon the Jazyges, Buri, or Vandals, without the confent of the people of Rome. On the other hand, Commodus promifed to abandon, which accordingly he did, all the cattles and fortreffes held by the Romans in their country, excepting such as were within five miles of the Danube. With the other German nations, whom his father had almost entirely reduced, he concluded a very dithonourable peace; nay, of some he purchased it with large fums of money.

Soon after the return of the emperor to Rome, his filter Lucilla, perceiving that he was univerfally abhorted on account of his cruelty, formed a confpiracy againth his life. Among the confpitators were many fenators of diffinction. It was agreed among them that they should fall upon the emperor while he was going to the amphitheatre through a marrow and dark pallage; and that Claudus Pompeianus, to whom Lucilla abbetrothed her daughter, thould give the first blow. But he, instead of striking at once, showed him the naked dagger, and cried out, "This prefent the senate lends

you :17

feeret poison into the vitals of the empire. The minds of men were gradually reduced to the same level; the fire of genius was extinguished, and even the military spirit evaporated. The natives of Europe were brave and robust. Spain, Gaul, Britain, and Illyricum, supplied the legions with excellent soldiers, and constituted the real strength of the monarchy. Their personal valour remained; but they no longer possessible that public courage which is nourished by the love of independence, the sense of anismal honour, the presence of danger, and the habit of command. They received laws and governors from the will of their sovereign, and trusted for their defence to a mercenary army. The posterity of skeir boldest leaders were contented with the rank of citizens and subjects. The most alphing spirits restored to the court or standard of the emperors; and the deferted provinces, deprived of political strength or union, insensibly sunk into the languid indifference of pri-

"The love of letters, almost inseparable from peace and refinement, was fashionable among the subjects of Adrian and the Antonines; who were themselves men of learning and curiosity. It was diffused over the whole extent of their empire; the most northern tribes of Britons had acquired a taste for rhetoric; Homer as well as Virgil were transcribed and studied on the banks of the Rhine and Danube; and the most liberal rewards fought out the faintest glimmerings of literary merit. The sciences of physic and astronomy were cultivated with some degree of reputation; but, if we except Lucian, an age of indolence passed away without producing a single writer of genius who deserved the attention of posterity. The authority of Plato, of Aristotle, of Zeno, and Epicurus, ftill reigned in the schools; and their systems, transmitted with blind deference from one generation of discioles to another, precluded every generous attempt to correct the errors or enlarge the bounds of the human mind. The beauties of the poets and orators, instead of kindling a fire like their own, produced only servile imitations; or, if any ventured to deviate from these models, they deviated at the same time from good sense and propriety. The provincials of Rome, trained by an uniform artificial education, were engaged in a very unequal competition with those bold ancients, who, by expressing their genuine seelings in their native tongue, had already occupied every place of honour. The name of poet was almost forgotten; that of orator was usurped by the fophists. A cloud of critics, of compilers, of commentators, darkened the face of learning, and the decline of genius was foon followed by the corruption of tafte.

<sup>6</sup> Longinus obferves and himents the degeneracy of his contemporation, which debaded their findiments, encreated their courage, and derireffed their tulents; comparing them to pigmles, whose flature has been diminified by conflant prefure on their limbs. This diminutive flature of mankind was conflantly finking below the old flandard, and the Roman world was indeed peopled by a race of pigmies; when the fierce giants of the north broke in and mended the puny breed. They retrored a manify facedom; and, after the revolution of ten centuries, fies-

dom became the happy parent of tafte and fcience."

Rame. you !" fo that the guards had time to refcue the emperor, and to feize the conspirators, who were soon after put to death. The emperor banished his fifter to the island of Caproze, where he soon after caused her to be

privately mindered.

The favourite minister of Commodus was one Perennis; who in oppression and cruelty seems to have been nothing inferior to those of the most tyrannical emperors. During the first part of the reign of Commodus, he ruled with an absolute sway; but at last was tom in pieces by the enraged foldiery, whom he had offended by his too great feverity. He was fucceeded in his place by a freedman named Cleander; for the emperor himfelf was so much taken up with his pleafures, that he could not bestow even a moment on the affairs of state. The new minister abused his power in a more flagrant manner than even his predeceffor had done. By him all things were openly fet to fale; offices, provinces, public revenues, justice, and the lives of men both innocent and guilty. The minister, who ruled the emperor without controul, infused such terrors into his tix crous mind, that he changed the captains of his guards almost continually. One Niger enjoved the dignity only fix hours; another only five days; and feveral others a flill shorter space. Most of those officers left their lives along with their employments; being accused of treason by Cleander, who continually folicited, and at last obtained, that important post for himfelf

Revolt of Maternus.

In the year 187 happened a remarkable revolt. One Maternus, a common foldier, having fled from his colours, and being joined by many others guilty of the fame crime, grew in a fhort time fo powerful, the banditti flocking to him from all parts, that he overran and plundered great part of Gaul and Spain; stormed the ftrongest cities; and struck the emperor and people of Rome with fuch terror, that troops were raifed, and armies dispatched against him. Pescennius Niger was fent to make head against him in Gaul, where he became very intimate with Severus, who was then governor of Lyons, and who wrote a letter to the emperor, commending the prudent and gallant behaviour of Niger in pursuing the rebels. Maternus, finding himself reduced to great straits, divided his men into several finall bands, and marched privately with them by different ways into Italy; having nothing less in view than to murder the emperor during the folemnity which was kept annually in honour of the mother of the gods, and on his death to feize upon the empire for himfelf. They all arrived at Rome undiscovered; and several of his men had already mixed themselves with the empezor's guards, when others of his own party betraved him. He was immediately feized and executed; and his death put an end to the diffurbances which fome of his followers had begun to raife in other provinces. In the same year broke out the most dreadful plague, fays Dio Caffius, that had been known. It lasted two or three years; and raged with the greatest violence at Rome, where it frequently carried off 2000 persons a-day. The following year, a dreadful fire, which confumed a great part of the city, was kindled by lightning; and at the same time the people were afflicted with a dreadful famine, occasioned, according to some authors, by Cleander, who, having now in view nothing less than the fovereignty itself, bought up underhand all the corn, in order to raise the price of it, and gain Rome. the affections of the foldiery and people by diffributing it among them. Others tell us, however, that Papirius Dionyfius, whose province it was to supply the city with provisions, contributed towards the famine, in order to make the people rife against Cleander. Be this as it will, the populace ascribed all their calamities to this hated minister; and one day, while the people were celebrating the Circenfian games, a troop of children, having at their head a young woman of an extraordinary flature and herce aspect, entering the circus, began to utter aloud many bitter invectives and dreadful curfes against Cleander; which being for fome time answered by the people with other invectives and curses, the whole multitude arose all of a sudden, and flew to the place where Cleander at that time refided with the emperor. There, renewing their invectives, they demanded the head of the minister who had been the occasion of so many calamities. Hereupon Cleander ordered the prætorian cavalry to charge the multitude; which they did accordingly, driving them with great flaughter into the city. But the populace discharging showers of stones, bricks, and tiles, from the tops of the houses and from the windows, and the city-guards at the same time taking part with the people, the prætorian horfe were foon obliged to fave themfelves by flight : nor was the flaughter ended till the emperor, apprifed of the tumult, caused the head of Cleander to be flruck off and thrown out to the enraged favourite concubine, Lætus captain of the guards, and

populace. The emperor himfelf did not long furvive Comm Cleander; being cut off by a conspiracy of Marcia his murdered.

No fooner was the death of Commodus known, than

Eclectus his chamberlain.

the fenate affembled, and declared him a public enemy, loading him with curses, ordering his fratues to be broken to pieces, and his name to be rafed out of all public inscriptions; and demanded his body, that it might be dragged through the fireets, and thrown into the Tiber. But Helvius Pertinax, whom the conspirators Pertinax had previously designed for the empire, and who had raised to the already affumed it, prevented fuch an outrage, by let-empire. ting the fenators know that Commodus was already buried. This extraordinary personage had passed through many changes of fortune. He was originally the fon of an enfranchifed flave, called Ælius, who only gave him to much learning as to qualify him for keeping a little shop in the city. He then became a schoolmaster, afterwards studied the law, and after that became a foldier; in which flation his behaviour was fuch as caused him to be soon made captain of a cohort against the Parthians. Being thus introduced to arms, he went through the usual gradation of military preferment in Britain and Moefia, until he became the commander of a legion under Aurelius. In this station he performed such excellent services against the barbarians, that he was made conful, and fucceffively governor of Dacia, Syria, and Afia Minor. In the reign of Commodus he was banished; but soon after recalled, and fent into Britain to reform the abuses in the army. In this employment his usual extraordinary fortune attended him: he was opposed by a fedition among the legions, and left for dead among many others that were flain. However, he got over this danger, feverely punished the mutineers, and establish-

Rome. ed regularity and discipline among the troops he was fent to command. From thence he was removed into Africa, where the fedition of the foldiers had like to have been as fatal to him as in his former government. Removing from Africa, and fatigued with an active life, he betook himfelf to retirement: but Commodus, willing to keep him thill in view, made him prefect of the city; which employment he filled, when the confpirators fixed upon him as the properest person to succeed to the empire.

> His being advanced by Commodus only served to increase his fears of falling as an object of his suspicions; when therefore the confpirators repaired to his house by night, he confidered their arrival as a command from the emperor for his death. Upon Latus entering his apartment, Pertinax, without any show of fear, cried out. That for many days he had expected to end his life in that manner, wondering that the emperor had deferred it to long. However, he was not a little furprifed when informed of the real cause of their visit; and being ftrongly urged to accept of the empire, he at last complied with their offer.

Being carried to the camp, Pertinax was proclaimed emperor: foon after the citizens and fenate confented; the joy for the election of a new fovereign being scarcely equal to that for the death of the former. The provinces quickly followed the example of Rome; fo that he began his reign with univerfal fatisfaction to the whole

empire, in the 68th year of his age.

Nothing could exceed the wisdom and justice of this monarch's reign the short time it continued. He punished all those who had served to corrupt the late emperor, and disposed of his ill-got possessions to public uses. He attempted to restrain the licentiousness of the prætorian bands, and put a trop to the injuries and infolences they committed against the people. He fold most of the buffoons and jesters of Commodus as slaves; particularly fuch as had obscene names. He continually frequented the fenate as often as it fat, and never refused an audience even to the meanest of the people. His fuccefs in foreign affairs was equal to his internal policy. When the barbarous nations abroad had certain intelligence that he was emperor, they immediately laid down their arms, well knowing the opposition they were to expect from fo experienced a commander. His great error was avarice; and that, in some measure, served to hasten his ruin.

The prætorian foldiers, whose manners he had attempted to reform, having been long corrupted by the indulgence and profusion of their former monarchs, began to hate him for the parlimony and discipline he had introduced among them. They therefore resolved to dethrone him; and for that purpose declared Maternus, an ancient fenator, emperor, and endeavoured to carry him to the camp to proclaim him. Maternus, however, was too just to the merits of Pertinax, and too faithful a fubject, to concur in their feditious defigns; wherefore escaping out of their hands, he fled, first to the emperor, and then out of the city. They then nominated one Falco, another fenator; whom the fenate would have ordered for execution, had not Pertinax interpoled, who declared that during his reign no fenator should suffer death.

The prætorian foldiers then refolved unanimously not to use any secret conspiracies, or private contrivances, Vol. XVIII. Part I.

but boldly to feize upon the emperor and empire at Rome. once. They accordingly, in a tumultuous manner, marched through the freets of Rome, and entered the Is murderpalace without opposition. Such was the terror at their ed by the approach, that the greatest part of the emperor's attendants fortook him; while those who remained earnestly toldiers. intreated him to fly to the body of the people and interest them in his defence. However, he rejected their advice; declaring, that it was unworthy his imperial dignity, and all his past actions, to tave himself by flight. Having thus resolved to face the rebels, he had tome hopes that his presence alone would terrify and confound them. But what could his former virtues, or the dignity of command, avail against a tumultuous rabble. nurled up in vice, and ministers of former tyranny One Thrafius, a Tungrian, struck him with his lance on the breaft, crying out, " The foldiers fend you this," Pertinax finding all was over, covered his head with his robe, and funk down, mangled with a multitude of wounds, which he received from various affaffins. Eclectus, and some more of his attendants, who attempted to defend him, were also flain; his fon and daughter only escaped, who happened to be lodged out of the palace. Thus, after a reign of three months, Pertinax fell a facrifice to the licentious fury of the prætorian army. From the number of his adventures, he was called the tennis-ball of Fortune; and certainly no man ever experienced fuch a variety of fituations with fo blameless a character.

The foldiers having committed this outrage, retired The empire with great precipitation; and getting out of the city exposed to to the reit of their companions, expeditionly fortified tale, and their camp, expecting to be attacked by the citizens. Didius Ju-Two days having passed without any attempt of this lianus. kind, they became more infolent; and willing to make use of the power of which they found themselves posfessed, made proclamation, that they would fell the empire to whoever would purchase it at the highest price. In confequence of this proclamation, fo odious and unjust, only two bidders were found; namely, Sulpicianus and Didius Julianus: The former, a confular perfon, præfect of the city, and fon-in-law to the late cmperor Pertinax; the latter, a confular person likewise, a great lawyer, and the wealthiest man in the city. He was fitting with some friends at dinner when the proclamation was published; and being charmed with the profpect of unbounded power, immediately role from table and hastened to the camp. Sulpicianus was got there before him; but as he had rather promifes than treasure to bestow, the offers of Didius, who produced immense sums of ready money, prevailed. He was received into the camp by a ladder, and they inflantly fwore to obey him as emperor. From the camp he was attended by his new electors into the city; the whole body of his guards, which confilled of 10,000 men, ranged around him in fuch order as if they had prepared for battle, and not for a peaceful ceremony. The citizens, however, refuted to confirm his election; but rather curfed him as he passed. Upon being conducted to the fenate-house, he addressed the few fenators that were present in a very laconic speech: " Fathers, you want an emperor; and I am the fittest perion you can choose." But even this, thort as it feems, was unnecessary, fince the senate had it not in their power to refuse their approbation. His spee h Ff

360 His exceltent reign.

Rome. being backed by the army, to whom he had given about a million of our money, fucceeded. The choice of the foldiers was confirmed by the lenate, and Didius was acknowledged emperor, now in the c7th year of his

> It should feem by this weak monarch's conduct when of an empire rather a pleafure thin a toil. Inflead of attempting to gain the hearts of his subjects, he gave himfelt up to eate and inactivity, utterly regardless of the duties of his station. He was mild and gentle indeed; neither injuring any nor expecting to be injured. But that avarice, by which he became epulent, flill followed him in his exaltation; fo that the very feldiers who elected him, foon began to detest him for those qualities, fo very opposite to a military character. The people also, against whose consent he was chosen, were no less inimical. Whenever he islued from his palace, they openly poured forth their imprecations against him; crying out, that he was a thief, and had stolen the empire. Didius, however, in the true spirit of a trader, patiently bore it all; fometimes beckoning them with fmiles to approach him, and teftifying his regard by

every kind of fubmission.

Prf en lus While Didius was thus contemptuously treated at pire, disclaimed his authority, and boldly resolved to attempt the throne for themselves. These were, Pescencomm nder of the German legions. Niger was belived by the people for his clemency and valour; and the report of his proposing Pertinax for his model, and refolving to revenge his dea h, gained him univerfal offeem among the people. Being thus apprifed of their inclinations, he eafily induced his army in Syria to proclaim ledged by all the kings and potentates in Afia, who fent their ambaffadors to him as their lawful prince. The pleasure of being thus treated as a monarch, in some tirely fatisfied with the homage of those about him, he neglected the opportunities of suppressing his rivals; and gave himfelf up to luxury and feafling at Antioch. The conduct of Severus, an African by birth, was very different. Being proclaimed by his army, he began by promifing to revenge the death of Pertinax, and took upon him his name. He next fecured the fidelity of all the strong places in his province; and then resolved, with the utmost expedition, to march with his whole

Jul 373 depoted and put to death.

force directly to Rome. In the mean time, Didius, who difregarded the attempts of Niger, was greatly slarmed at those of Severus. He first, with many folicitations, procured the fenate to proclaim him a traitor. He then applied himfelf to make the necessary provisions to oppose him, in which he found nothing but disappointment. The cohosts that elected him were enervated by vice and luxury; the people deteffed his cause; and the cities of Italy had long been dififed to the arts of war. Some advis d tim to march forward, and neet Severus as he w. c.off g the Alps; others were for fiding the generals upon that expedition. The unfortunate Didius, unequal to the task of empire, and quite confounded with the multiplicity of counsels, could take no other resolution but that of awaiting his rival's coming at Rome. Accordingly, fcon after being informed of his approach, he obtained the conjent of the fenate to fend his ambaliadors, offering to make him a partner of the empire. But Severus rejected this offer, conscious of his own firength, and of the weakness of the propoter. The formte foon appeared of the fame fentiments; and matter, began to abandon him, alleging, that he who could not defend the empire was not worthy to govern it. Didius vainly enueavoured to reduce them to their duty, first by intreaties, and then by threats; but these only ferved to haften his defiruction. The fenate being called together, as was formerly practifed in the times of the commonwealth by the confuls, they unanimously decreed, That Didius should be deprived of the empire, and that Severus should be proclaimed in his flead. They then commanded Didius to be flain; and fent mellengers for this purpole to the palace, where they found him difarmed, and weeping among a few friends that fill adhered to his interest. When the executioners began to prepare for their fatal errand, he exposulated with them, demanding what crime lie had committed? He could not be perfuaded to think, that paying his money, and receiving an empire in exchange, delerved to levere a punishment. The executioners, however, were neither able nor willing to enter into the merits of the cause; they presently led him into the fectet taths of the palace, and obliging him to firetch his neck forwards, after the manner of condemned criminals, flruck off his head, and placed it up

The fenate having thus dispatched Didius, fent am-Sevens debaffadors to Severus, yie'ding him obedience, granting cl red emhim the entigns and the usual titles of empire, and in peror. forming him of the death of Didius. Severus, who was now about 47 years of age, received them with all tinued his march towards Rome. As he came near the torian foldiers who had lately fold the empire come forth unarmed to meet him. These though fensit le of their danger, had no other rel urce left but compliance; and to welcome his approach. Severes, however, fcon showed how little capable their prefent fubmiffion was to atone for their past offences: after upbraiding them, in a short speech, with all their crimes, he comm nded them to be inflantly flripped of their military habits, deprived of the name and honour of foldiers, and banished 100 miles from Rome. He then entered the city in a military manner, took post stion of the paloce, and promited the fenate to co auch himfelf with clemency and justice. However, though he united great vigour with the most refined policy, vet his African curing lebrated for his wit, learning, and prudence; but equ. lcommand, by feizing all the children of fuch as had employments or authority in the eath, and de ained them as pledges for their fathers loyalty. He next upplied the

city with corn; and then with all possible ! edition marched against Niger, who was full confidered and honoured as emperor of the call.

One of the chief obstacles to his march was, the leaving behind him Clodius Albinus, commander of the legions in Britain, whom he by all means withed to fecure in hi, interests. For this end, he endeavoured to prevail upon him, by giving him hopes of facceeding to the empire; influenting, that he himfell was duelining, and his children were as yet but infants. To deceive him still farther, he wrote in the fame style to the fenate, gave him the title of Cefar, and ordered money to be coined with his image. Thele artifices ferving to hill Albinus into falie fecurity, Severus marched against Niger with all his forces. After fome undecitive conflicts. the last great battle that was fought between these extraordinary men was upon the plains of Iffus, on the very fpot where Alexander had formerly conquered Darius. Besides the two reat armies drawn up on the finite numbers of people, who were merely led by curiofity to become spectators of an engagement that was to determine the empire of the world. Severus was conqueror; and Niger's head being tiruck off by fome folthrough the camp on the point of a lance.

This victory secured Severus in the possession of the throne. However, the Parthians, Perfians, and fome other neighbouring nations, took up arms, under a pretence of vindicating Niger's caule. The emperor marched against them in person, had many engagements with as enlarged the empire, and established peace in the

Aroyed.

Niger being no more, Severus now turned his views against Albinus, whom he resolved by every means to under a pretence of bringing him letters, but in reality to dispatch him. Albinus being apprised of their deand proclaining hi nfelf emperor. Nor was he without a powerful army to support his pretentions; of which Severus being fenfible, bent his whole force to oppose him. From the east he continued his course across the ftraits of Byzantium, into the most western parts of Europe, without intermission. Albinus being informed of his approach, went over to meet him with his forces into Gaul; fo that the campaign on both fides was carried on with great vignur. Fortune feemed for a while variable; but at last a decifive engagement came on, which was one of the most deforate recorded in the Roman history. It lasted from morning till night, wi wout any feeming advantage on either fide; at length the troops of Severus began to fly, and he himf If he ning to fall from his horfe, the army of Al in sori d out, Victory. But the engagement was foon renewed with vivour by Lætus, one of Severus's commanders, who came up with a body of referve, d figning to deftroy both parties and make himself emperor. This attempt, though defigned against both, turned out entirely to the advantage of Severus. He therefore again charged with fuch fury and exactness, that he foon plucked the victory from those who but a flort time before fe med conquerors; and pursuing them into the city of Lyons, took Albinus prifoner, . . d cut off his

head; treating I dead boly with infile the colin Reme. ly flow from a nean and revengeful tear er. All the lenators who were than in battle he ordered to be quar-

rewards and honours; giving them fuch pirily s as of the state. For the foldiers, who had his herto il as d made arbiters of the fate of emperors; as a see thall henceforward behold them fetting them up, and de-

way to his natural turn for conquell, and to opic - his arms against the Parthians, who were then invacing the frontiers of the empile. Having therefore previously given the governme t of domestic policy to one Plautianus, a particular favor rite of bis, to whole daus ter he married his fon Caracalla, he fet out for the caft, : He forced submission from the king of Armenia, deftroyed feveral cities in Arabia Fellx, landed on the Parthian coalts, took and plundered the femous city Ctefiphon, marched back through Palefline and Eavpt, and at length returned to Rome in triumph.

During this interval, Plautianus, who was left to direct the affairs of Rome, began to think of aspiring to the empire himself. Upon the emperor's return, he emfon Caracalla. The tribune feemed cheerfully to underwith it, informed Severus of his favourite's treachery. He at first received it as an improbable story, and as the artifice of some one who cavied his favourite's fortune. to corduct Plautianus to the emperor's apartments. With this intent, the tribune went and amused him with a pretended account of his killing the emperor and his fon, defiring him, if he thought it fit to fee them dead, to come with him to the palace. As Plautianus ardently defired their deaths, he readily gave credit to this relation; and following the tribune, he was conducted at midnight into the innermost recesses of the palace. But what must have been his disappointment, when, in lead of finding the emperor lying dead, as he and Severus, furrounded by his friends, prepared in array to receive him. Being asked by the emperor, with a flern countenance, what had brought him there at that unfeafonable time? he was at first utterly confounded; wherefore, not knowing what excuse to make, he ingenuously confessed the whole, intreating forgiveness for what he had intended. The emperor feemed in the beginning inclined to pardon; but Caracalla his fon, who ir in the e rieft age showed a disposition to cruelty, fourned him away in the mir'ft of his fupplications, and with his fword ran him il rough the body.

a'sle time in vifiting fome cities in Italy, permitting none of his officers to fell places of truft or d'gnite, and cifirst ing juffice with the fleicheft impartiality. He took fuch in exact order in managing his exchequer,

Exmedition of Severus into Britoin

Rome. that, notwithstanding his great expences, he left more money behind him than any of his predeceffors. His armies also were kept upon the most respectable footing; fo that he feared no invalion. Being equally attentive to the prefervation of all parts of the empire, he refolved to make his last expedicion into Britain, where the Romans were in danger of being destroyed or compelled to fly the province. Wherefore, after appointing his two fons Caracalla and Geta joint fuccessors in the empire, and taking them with him, he landed in Britain, to the great terror of fuch as had drawn down his refentment. Upon his progress into the country, he left his fon Geta in the fouthern part of the province, which had continued in obedience, and marched with his fon Caracalla against the Caledonians, In this expedition, his army fuffered prodigious hardflips in purfuing the enemy; they were obliged to hew their way through intricate forests, to drain extensive marshes, and form bridges over rapid rivers; fo that he loft 50,000 men by fatigne and fickness. However, he supported all these inconveniences with the greatest bravery; and is faid to have profecuted his fuccesses with fuch vigour, that he compelled the enemy to fue for peace; which they obtained, not without the furrender of a confiderable part of their country. We must here observe, however, that the Picts and Caledonians are fo often confounded together by historians, that many mistakes have thence arisen concerning the progress and conquests of the Romans in the north of Britain. But from the boundary formed by the famous wall of Severus (fee SE-VERUS'S Wall), we must conclude, that no part of Caledonia, properly fo called, had been either on this or any other occasion ceded to him; and there is reason to believe, that he rather received checks from the people of that territory, than was ever able to make any confiderable impression upon them. Be this, however, as it may, after having made peace, and built his wall, he retired to York; where, partly through grief at the irreclaimable life of Caracalla, he found himfelf daily declining, having already lost the use of his feet. To add to the diffress of his fituation, he was informed that the foldiers had revolted, and declared his fon emperor. In this exigence, he feemed once more to recal his natural vigour; he got himself immediately put into his letter, and commanded the new emperor, with the tribunes and centurions, to be brought before him. Though all were willing to court the favour of the young emperor, fuch was the authority of Severus, that none dared to disabey. They appeared before him confounded and trembling, and implored pardon upon their knees, Upon which, putting his hand to his head, be cried out, " Know, that it is the head that governs, and not the feet." However, foon perceiving his diforder to increase, and knowing that he could not outlive it, he called for poifon; which being refused him, he loaded his stomach with food; which not being able to digest, it foon brought him to his end, in the 65th year of bis age, after an active though cruel reign of about 18

378 Caracalla and Geta being acknowledged as emperors Caracalla and Geta by the army, began to show a mutual hatred to each fucceed. other even before their arrival at Rome. Their only agreement was, in resolving to deify Severus their father; but foon after, each fought to attach the fenate

and army to his own particular interest. They were

of very opposite dispositions: Catacalla was sierce and Romes cruel to an extreme degree; Geta was mild and merciful; fo that the city fron found the dangerous effects of being governed by two princes of equal power and coutrary inclinations.

But this opposition was of no long continuance; for Gera mur-Caracalla being resolved to govern alone, furiously en-dered by tered Geta's apartment, and, followed by ruffians, flew Caracalla. him in his mother's arms. Having committed this detestable murder, he issued with great haste from the palace, crying out, That his brother would have flain him; and that he was obliged, in felf-defence, to reta-liate the intended injury. He then took refuge among the prætorian cohorts, and in a pathetic tone began to implore their affiftance, still making the fame excuse for his conduct. To this he added a much more prevailing argument, promising to bestow upon them the largefles usually given upon the election of new emperors, and diffributing among them almost all the treafures which had been amaffed by his father. By fuch perfuafives the foldiers did not hefitate to proclaim him fole emperor, and to ftigmatize the memory of his brother Geta as a traitor and an enemy to the commonwealth. The fenators were foon after induced, either through favour or fear, to approve what had been done by the army : Caracalla wept for the death of his brother whom he had flain; and, to carry his hypocrify to the utmost extreme, ordered him to be adored as a

Being now emperor, he went on to mark his course Who proves with blood. Whatever was done by Domitian or Nero a most fell short of this monster's barbarities. Lætus, who first bloody tyadvised him to murder his brother, was the first who fell rant. a facrifice to his jealoufy. His own wife Plantina followed. Papinian, the renowned civilian, was beheaded for refusing to write in vindication of his cruelty; anfwering the emperor's request, by observing, That it was much easier to commit a parricide than to defend it. He commanded all governors to be flain that his brother had appointed; and deftroyed not lefs than 2000 perfons who had adhered to his party. Whole nights were fpent in the execution of his bloody decrees; and the dead bodies of people of all ranks were carried out of the city in carts, where they were burnt in heaps, without any of the ceremonies of a funeral. Upon a certain occasion, he ordered his foldiers to set upon a crowded audience in the theatre, only for discountenancing a charioteer whom he happened to favour. Perceiving himself hated by the people, he publicly said, that he could infure his own fafety though not their love; so that he neither valued their reproaches nor

feared their hatred. This fafety which he fo much built upon was placed in the protection of his foldiers. He had exhausted His extrathe treasury, drained the provinces, and committed a wegant solthouland acts of rapacity, merely to keep them stedfast y, cruelty in his interests; and being disposed to trust himself and treawith them particularly, he resolved to lead them upon a vifit through all the provinces of the empire. He first went into Germany; where, to oblige the natives, he dressed himself in the habit of their country. From thence he travelled into Macedonia, where he pretended to be a great admirer of Alexander the Great; and among other extravagancies caused a statue of that monarch to be made with two faces; one of which re-

fembled

377 Severus dies.

fembled Alexander and the other himfelf. He was for corrupted by flattery, that he called himfelf Alexander; walked as he was told that monarch had walked; and, like him, bent his head to one floulder. Shortly after, arriving at Leffer Afia and the ruins of Troy, as he was viewing the tomb of Achilles, he took it into his head to retemble that hero; and one of his fleedmen happening to die at that time, he ufed the fame ceremonies that were performed at the tomb of Patroclus. Paffing thence into Egypt, he maffacred in the most terrible manner the inhabitants of Alexandria, on account of the latites they composed on him, as is related under the article ALEXANDIA.

Going from thence into Syria, he invited Artabanus king of Parthia to a conference; defiring his daughter in marriage, and promiting him the mott honourable protection. In confequence of this, that king met him on a fpacious plain, unarmed, and only attended with a valt concourse of his nobles. This was what Caracalla defired. Regardless of his promise, or the law of nations, he instantly furrounded him with armed troops, let in wild beats among his attendants, and made a most terrible slaughter among them; Artabanus himself escaping with the utmost difficulty. For this vile treachery he obtained from the senate the surname of Parthiaus.

of Parthicu

Upon his return towards Rome, it would feem as if his vices were inexhauftible; for having been guilty of particide, he now refolved to marry the mother of Geta whom he had flain. It happened that one day feeing her drop her veil, which difelofed her naked bofom, which was extremely beautiful, he told her, that he would possels those charms he beheld, if it were lawful. To this unnatural request the hessisted not to answer, that he might enjoy all things who possels all. Whereupon, setting aside all duty and respect for his deceased father, he celebrated his nuprials with her in public, totally diffegarding the censures and the farcassus of mankind.

However, though he difregarded shame, he was not infensible to fear. He was ever uneasy in the conscioutness of being univerfally hated; and was continually confulting aftrologers concerning what death he should die. Among others, he fent one of his confidants, named Maternianus, with orders to confult all the aftrologers in the city concerning his end. Maternianus confidered this as a proper time to get rid of Macrinus, the emperor's principal commander in Mesopotamia; a man who was daily supplanting him in his master's favour. He therefore informed him by letter, as if from the aftrologers, that Macrinus had a defign against his life; and they confequently advised him to put the conspirator to death. This letter was fent fealed, and made up, amongst many others, to be conveyed with the greater fecrecy, and delivered to the emperor as he was preparing for a chariot-race. However, as it never was his custom to interrupt his pleasures for his Lusiness, he gave the packet to Macrinus to read over, and to inform him of the contents when more at leifure. In perusing these letters, when Macrinus came to that which regarded himself, he was unable to contain his furprise and terror. His first care was, to reserve the letter in question to himself, and to acquaint the emperor only with the fubftance of the reft. He then fet about the most probable means of compassing his death, by which alone he could expect any fafety. At Rome. length he determined to apply to one Martialis, a man of great strength, and a centurion of the guards, who hated the emperor from various motives; particularly for the death of a brother, whom Caracalla had ordered to be flain. Him therefore Macrinus exhorted to revenge his brother's death, by killing the tyrant, which he might eafily effect, as being always to near his perfon. Martialis readily undertook the dangerous task; being willing to meet death himself, so he might obtain his defire of feeing the tyrant expire before him. Accordingly, as the emperor was riding out one day He smurnear a little city called Carrae, he happened to with dered. draw himfelf privately, upon a natural occasion, with only one page to hold his horfe. This was the opportunity Martialis had fo long and ardently defired; wherefore running to him as if he had been called, he stabbed the emperor in the back, so that he died immediately. Martialis unconcernedly returned to his troop; but retiring by infenfible degrees, he endeavoured to secure himself by flight. But his companions foon miffing him, and the page giving information of what had been done, he was purfued by the German horse and cut in pieces.

During the reign of this excerable tyrant, which continued fix years, the empire was every day declining; the foldiers were entirely mafters of every election; and as there were various armies in different parts, to there were as many interefts all oppofite to each other. Caracalla, by fatisfying their moit unrealonable appetites, detroyed all difeipline among them, and all fubordina-detroyed all difeipline among them, and all fubordina-

tion in the flate.

The foldiers, now without an emperor, after a fuf-Macrinus pense of two days, fixed upon Macrinus, who took all succeeds. possible methods to conceal his being privy to Caracalla's murder. The fenate confirmed their choice shortly after; and likewife that of his fon Diadumenus, whom he took as a partner in the empire. Macrinus was 53 years old when he entered upon the government of the empire. He was of obscure parentage; some fay by birth a Moor, who by the mere rotation of office, being first made præfect of the prætorian bands, was now, by treason and accident, called to fill the throne. We are told but little of this emperor, except his engaging in a bloody though undecided battle with Artabanus king of Parthia, who came to take vengeance for the injury he had fullained in the late reign; however, this monarch finding his real enemy dead, was content to make peace, and returned into Parthia. Something is also said of the feverity of this emperor's discipline; for to such a pitch of licentiousness was the Roman army now arrived, that the most severe punishments were unable to restrain the soldiers; and yet the most gentle inflictions were looked upon as leverity. It was this rigorous discipline, together with the artifices of Mæ'a, grandmother to Heliogabalus the natural fon of Caracalla, that caused the emperor's ruin. Helio Helio Helio Helio gabalus was prieft of a temple dedicated to the San, in p. lus re-Emela, a city of Phœnicia; and though but 14 years voltsagainst old was greatly loved by the army for the beauty of him. his person, and the memory of his father, whom they still considered as their greatest benefactor. This was foon perceived by the grandmother; who being very rich in gold and jewels, gave liberal prefents among them, while they frequently repaired to the temple, both-

3S2 Marries his father's wife.

both from the garrison in the city and the camp of Macrinus. This intercourfe growing every day more frequent, the foldiers, being difgulted with the feverities of their present emperor, began to think of placing Heliogabalus in his stead. Accordingly, sending for him to their camp, he was immediately proclaimed; and fuch were the hopes of his virtues, that all men began to affect his interests.

Macrinus, who at this time was purfuing his pleafures at Antioch, gave but little attention to the first report; only fending his lieutenant Julian, with fome legions, to quell the infurrection. However, thefe, like the reft, foon declared for Heliogabalus, and flew their general. It was then that Macrinus found he had treated the rebellion too flightly; he therefore refolved, with his fon, to march directly against the seditions legions, and force them to their duty. Both parties met on the confines of Syria: the battle was for fome time furious and obstinate; but at last Macrinus was overthrown, and obliged to feek fafety by flight. His principal aim was to get to Rome, where he knew his preand put to fence was defired; wherefore he travelled through the provinces of Afia Minor with the utmost expedition and privacy, but unfortunately fell fick at the city of Chalcedon, There those who were fent in pursuit, overtook and put him to death, together with his fon Diadumenus, after a fhort reign of one year and two

> The fenate and citizens of Rome being obliged to fubmit to the appointment of the army as usual, Heliogabalus ascended the throne at the age of 14. One at fo early an age, invefted with unlimited power, and furrounded with flatterers, could be expected to act only as they thought proper to direct. This young emperor was entirely led by them; and being fenfible that it was in his power to indulge all his appetites, he fludied only their gratification. As he is described by historians, he appears a monster of fenfuelity. His there like therefore is but a tillue of effeminacy, luit, and extravagance. He married, in the fmall frace of four years, fix wives, and divorced them all. He built a temple to the fun; and willing that his god fhould have a wife as well as himfelf, he married him to Pallas, and shortly after to the moon. His palace was a place of rendezvous for all the proflitutes of Rome, whom he frequently met naked, calling them his fellow foldiers, and e repanisms in the field. He was fo fond of the fex, that he carried his mother with him to the fenatehouse, and demanded that the should always be prefent when matters of importance were debated. He even went fo far as to build a fenate-house for women, with faitable orders, labits, and diffinctions, of which his mother was made prefident. They met feveral times; all their debates turning upon the fashions of the day, and the did rent formalities to be used in giving and receiving vifts. To these follies, he added great cruelty and bou d'els prodigality; fo that he was heard to fav, that fuch dithes as were cheaply obtained were fearcely worth eating. His fuppers th refore generally coft 6000 crowns, and often 60,000. He was always dreffed in cloth of gold and purple, enriched with precious the rich . b ffs, covered with gold and jewels. Whenever he took horse, all the way between his apartment

and the place of mounting was covered with gold and Rome

filver duft flrewn at his approach. These excesses were foon perceived by his grandmother Mixela, whole intrigues had first raised him to the throne; so that she thought to lessen his power by dividing it. For this purpose, under a pretence of freeing him from the cures of public buliness, the perfuaded him to adopt his confin-german, Alexander, as his Adopts A. fucceffor; and likewife to make him his partner in the exturer, confulfhip. Hehogabalus, having thus raifed his coufin, and takes had scarcely given him his power, when he wished again coleague.

to take it away; but the virtues of this young prince had so greatly endeared the people and the army to him, that the attempt had like to have been fatal to the tyrant himself. The practorian foldiers mutinying, attempted to kill him as he was walking in his gardens; but he escaped, by hiding himself from their fury, However, upon returning to their camp, they continued the fedition; requiring that the emperor should remove fuch persons from about him as oppressed the fubject, and contributed to contaminate him. They required also the being permitted to guard the young prince themselves, and that none of the emperor's favourites or familiars should ever be permitted to converie with him. Heliogabalus was reluctantly obliged to comply; and confcious of the danger he was in. made preparations for death, when it flould arrive, in a manner truly whimfical and peculiar. He built a lofty tower with fleps of gold and pearl, from whence to throw himself headlong in case of necessity. He also prepared cords of purple filk and gold to frangle himfelf with; he provided golden fwords and daggers to flab himself with; and poison to be kert in boxes of emerald, in order to obtain what death he chose best. Thus fearing all things, but particularly suspicious of the defigns of the fenate, he banished them all out of the city: he next attempted to poifon Alexander, and forcad a report of his death; but perceiving the foldiers begin to mutiny, he immediately took him in his chariot to the camp, where he experienced a fresh mortification, by finding all the acclamations of the army directed only to his fucceffor. This not a little raifed his indignation, and excited his defire of revenue. He punishments against those who had diff leased him, and meditating fresh cruelties. However, the foldiers were Is murdered unwilling to give him time to put his defigns in execu-by the foltion: they followed him directly to his palace, purfued ners, him from apartment to apartment, and at last found him concealed in a privy; a fituation very different from that in which he expected to die. Having drag-

ged him from thence through the firects, with the most bitter invectives, and having dispatched him, they attempted once more to squeeze his pampered body into a privy; but not easily effecting this, they threw it into the Tiber, with heavy weights, that none might afterwards find or give it burial. This was the miferable and ignominious death of Heliogabalus, in the 18th year of his age, after a detellable reign of four years. His mother also was flain at the fame time by the foldiers: as were also many of the opprobious associates of his criminal pleasures.

Alexander being, without opposition, declared em- vi tues of peror, the fenete, in their usual method of adulation, Alexander, were for conferring new titles upon him; but he mo-

death.

Reme.

dafily declined them all, alleging, that titles were only horourable when given to viewe, not to flation. This outset was a hir by one of his future virtue; and few princes in intory have been more commented to comemorates, or indeed more disferved commendation. To the most rigid justice he added the greatest humanity. He loved the good, and was a fever reprover of the lewed and imamous. His accomplishments were equal to his virtues. He was an excellent mathematician, geometrician, and mufician; he was equally skilled in painting and sculpture; and in poetry few of his time could equal him. In thort, such was equally that though but 16 years of age, he was considered as a wite old man.

The first part of his reign was spent in a reformation of the abuses of his predeced v. He redoved the fenators to their rank; nothing being under aken without the mult fage adviters, and most mature deliteration. Among the number of his adviters was his engther Mamin. ; a woman eminent for her virtues and accomplished n's, and who made ale of her power as well to fecure her ion the affections of his lubjects, as to procure them the mad just administration. He was a rigid punither of fuch m girlrates as took bribes, favplaces; for their trusts being great, their lives, in most cafes, on ht to pay or a breach of them. On the confuch as had been remarkable for their justice and integrity, keeping a register of their names, and sometimes atking fuch of them as appeared modelt and unwilling to approach him, why they were fo backward in demanding their reward, and why they suffered him to be in their debt? His clemency extended even to the with unrelenting barbarity. Upon a contest between them and a company of cooks and vintners, about a piece of public ground, which the one claimed as a place for public wo. ship, and the other for exercising their respective trades, he decided the point by his refcript, in these words: " It is better that God be worshipped there in any manner, than that the place should be put to uses of drunkenness and debauchery."

His abilities in war were not inferior to his affiduity in peace. The empire, which from the remissibles and debauchery of the preceding reigns now began to be attacked on every fide, wanted a person of vigour and conduct to defend it. Alexander faced the enemy wherever the invafion was most formidable, and for a fhort time deferred its ruin. His first expedition, in the tenth year of his reign, was against the Parthians and Perfians, whom he opposed with a powerful army .-The Persians were routed in a decisive engagement with great flaughter; the cities of Ctefiphon and Babylon were once more taken, and the Roman empire was restored to its former limits. Upon his return to Antiech, his mother Mammaa sent for the famous Origen, to be instructed by him in the principles of Christianity; and after discoursing with him for some "me upon the subject, dismissed him, with a proper safeguard, to his native city of Alexandria. About the fame time that Alexander was vict rious in the East, Furius Celfus, his general, obt ined a fignal victory over the Mauritanians in Africa. Varius Macrinus was fuccessful in Germany, and Junius Palman returned with conquest from Armenia. However, the number of these victaries only hadered the decline of the empire, which was waited by the exertion of its own itredgeth, and was now becoming little more than a splendid crim.

About the 13th year of his reign, the Upper Germars, and other northern rations, began to pour down of the empire. They passed the Rhine and the Danube with fuch fury, that all Italy was thrown into the most extreme consternation. The emperor, ever rearly to expose himself for the fafety of his people, made what levies he could, and went in person to them the torrent; which he specdily effected. It was in the encamped about Moguntia, having been abominably cornus ed during the reign of Heliogabalus, and traindiffel line. His own faults, and those of his mother Mamman, were of jected against him. They openly exclaimed, That they were governed by an ava-is muraricious woman, and a mean-spirited boy; and resolved al. upon electing an emperor capable of ruling alone. In this general revolt, Maximinus, an old and experienced commander, held frequent conferences with the foldiers, and end med the fedition. At length, being determined to difpatch their present emperor, they sent an executioner into his tent; who immediately flruck off his head, and, shortly after, that of his mother. He died in the 20th year of his age, after a prosperous reign of thirteen years and nine days. The tumults occasioned by the death of Alexander Socceded

being appealed, Maximinus, who had been the chiefly Maxipromoter of the fedition, was chosen emperor. This mir as, a extraordinary man, whose character deserves particular and of giattention, was born of very obscure parentage, being ture and the fon of a poor herdiman of Thrace. In the begin-extraoidining he followed his father's profession, and only exercifed his personal courage against the robbers who in-trength. after, his aml'tion increasing, he left his poor empl yment, and enlitted in the Roman army; where he foon became remarkable for his great firength, discipline, and courage. This gigantic man was no le's than eight responding to his fize, being not less remarkable for the magnitude than the fymmetry of his perf n. His wife's bracelet usually served him for a thumb-ring, and his ftrength was fo great, that he was able to draw a c.rriage which two oxen could not move. He could strike out a horse's teeth with a blow of his fift, and break its thigh with a kick. His diet was as extraordinary as the reft of his endowments; he generally ate 40 pounds weight of flesh every day, and drank fix g.l. With a frame so a hletic, he was possessed of a mird any on. The first time he was made known to the

emperor Severus, was u on his celebration games on the birth day of his fen Geta. Maximal saws then a rude

R-stores the affirs of the empire,

Rome. to contend for the prizes which were distributed to the beil runners, wrestlers, and boxers, of the army. Severus, unwilling to infringe the military discipline, would not permit him at first to combat, except with flaves, against whom his strength appeared attonithing. He overcame 16 in running, one after the other : he then kept up with the emperor on horseback; and having fatigued him in the course, he was opposed to seven of the most active foldiers, and overcame them with the greatest ease. From that time he was particularly noticed, and taken into the emperor's body-guards, in which his affiduity and prompt obedience were particularly remarkable. In the reign of Caracalla, he was made a centurion, and diftinguished himself in this station by his ftrict attention to the morals and discipline of those he commanded. When made a tribune, he still retained the hard simplicity of his life; ate as the meanest centinel; spent whole days in exercising his troops; and would now and then himself wrestle with eight or ten of the strongest men in the army, whom he threw with scarce any effort. Being thus become one of the most remarkable men in the empire, both for courage, discipline, and personal activity, he gave, shortly after, a very high inflance of his unfhaken fidelity: for when Macrinus was made emperor, he refused to ferve under a prince that had betrayed his fovereign; and retired to Thrace, his native country, where he tol-lowed commerce, and purchased fome lands, content with privacy rather than a guilty dependence: Upon the accession of Heliogabalus to the throne, this bold veteran once more returned to the army; but was, in the very beginning, difgusted at the base esseminacy of the emperor; who, hearing amazing instances of his strength, asked him, if he were equally capable in combats of another nature? This lewd demand was fo little fuitable to the temper of Maximinus, that he inflantly left the court. Upon the death of Heliogabalus, he again returned to Rome, and was received with great kindness by Alexander, who particularly recommended him to the fenate, and made him commander of the fourth legion, which confifted of new-raifed foldiers, Maximinus gladly accepted of this charge, and performed his duty with great exactness and success, setting an example of virtue and discipline to all the commanders of the army, Nor was his valour less apparent against the Germans, whither he was sent with his legion; so that he was unanimously confidered as the boldest, bravest, most valiant, and most virtuous foldier in the whole empire. He foon, however, forfeited all these justly merited titles, when he was raised to the throne; and, from being the most loved commander in the army, he became the most cruel tyrant upon earth. Yet in fact, his former virtues were all of the fevere and rigid kind, which, without any education, might very easily degenerate into tyranny; fo that he might have miftaken his fucceeding cruelty for discipline, and his feverity for justice. However this be, Maximinus is confidered as one of the greatest monsters of cruelty that ever difgraced power; and, fearful of nothing himfelf, he seemed to sport with the terrors of all man-

393 He began his reign, by endeavouring to force obe-Becomes a dience from every rank of people, and by vindicating his authority by violence. The fenate and people of rant. Rome were the first that incurred his resentment. They utterly refuling to confirm the election of the Rome. army, he was the first emperor who reigned without their concurrence or approbation. However, he feeraed regardless of their opposition, proceeding to secure his election by putting all such to death as had been raised by his predecessors. The Christians also, having found favour in the former reign, felt the weight of his refentment; and were perfecuted in feveral parts of the empire, particularly in those where he himself refided. His cruelty likewife extended to the rich, whose lives and estates became a frequent facrifice to avarice and fuspicion. But what appears still a more extraordinary instance of his cruelty, being assamed of the meanness of his extraction, he commanded all such as were best acquainted with him and his parentage to be flain, although there were fome among the number that had received him in his low condition.

However, his cruelties did not retard his military His fuccess operations, which were carried on with a spirit be-in war. coming a better monarch. He overthrew the Germans in feveral battles, wasted all their country with fire and fword for 400 miles together, and fet a resolution of subduing all the northern nations as far as the ocean. In these expeditions, in order to attach the foldiers more firmly to him, he increased their pay; and in every duty of the camp, he himself took as much pains as the meanest centinel in his army, showing incredible courage and affiduity. In every engagement, where the conflict was hottest, Maximinus was always seen fighting there in person, and deltroying all before him: for, being bred a barbarian, he confidered it as his duty to combat as a common foldier, while he commanded as a

In the mean time, his crueltics had fo alienated the Configuracies minds of his subjects, that several conspiracies were formed afecretly aimed against him. Magnus, a consular person, gainst him. and fome others, had plotted to break down a wooden bridge, as foon as the emperor had passed it, and thus to abandon him to the enemy. But this being discovered, gave Maximinus an opportunity of indulging his natural feverity, upon this pretext alone causing above 4000 to be flain. Shortly after, fome of Alexander's old foldiers withdrawing themselves from the camp, proclaimed one Quarcianus as emperor, who had been lately disgusted at Maximinus for being difmiffed from employment. The foldiers, in fact, conftrained him to accept of the dangerous superiority to which he was exposed : and shortly after, in the spirit of the times, the person who had been the promoter of his advancement, murdered him in his bed, and carried his head to Maximinus; who received him kindly at first, but soon put him to a cruel death, for his complicated guilt of treason and treachery.

These partial infurrections were foon after followed by a fpirit of general discontent throughout ail the empire. The provinces of Africa were the first that showed their detestation of the tyrant, whose extortions and cruelties among them were become in upportable. They first slew his procurator; and afterwards considering how dangerous a crime they had committed, they resolved to throw off all expectations of pardon, and create a new emperor. Gordian was then proconful Gordian of Africa, a person of great same for his virtues, and welauned highly reverenced for a blameless life of near 86. Him, therefore, they determined to elect; and accordingly

cruel ty-

Rome. Cordingly the foldiers and natives affembling together. tumultuously entered his house, resolved to put their design in execution. Gordian, who at first supposed they were come to kill him, being made sensible of their intentions, utterly refused their offer, alleging his extreme age, and Maximinus's power. But all his opposition was vain: they constrained him to accept of the proffered dignity; and he, with his fon Gordian, who was 46 years of age, were declared emperors. Being thus raifed contrary to his inclination, the old man immediately wrote to the fenate, declaring that he had unwillingly accepted of the empire, and would only keep his authority till he had freed it from the tyranny of its prefent oppressor. The senate very joyfully confirmed his election, adjudging Maximinus as on enemy and traitor to the flate. The citizens also showed an equal zeal in the cause: they flew upon such as were the reputed friends of Maximinus, and tore them in pieces; even some who were innocent falling a facrifice to the blind rage of the multitude. So great an alteration being made in the city against the interests of Maximinus, the senate were resolved to drive the opposition to the extreme; and accordingly made all necessary preparations for their security, ordering Maximinus's governors to be displaced, and commanding all the provinces to acknowledge Gordian for emperor. This order was differently received in different parts, as people were affected to one or the other party : in some provinces the governors were flain; in others, the meffengers of the fenate; fo that all parts of the empire felt

the confequences of the civil war.

Rage of the news.

In the mean time, when Maximinus was informed Maximinus of these charges against him, his rage appeared ungoon hearing vernable. He roared like a favage beaft, and violently ftruck his head against the wall, showing every inflance of ungovernable distraction. At length his fury being fomewhat fubfided, he called his whole army together; and, in a fet fpeech, exhorted them to revenge his cause, giving them the strongest assurances that they should possels the estates of all such as had offended. The foldiers unanimously promifed to be faithful; they received his harangue with their usual acclamations; and, thus encouraged, he led them towards Rome, breathing nothing but flaughter and revenge. However, he found many obstacles to his impetuofity; and, though he defired nothing fo much as dispatch, his marches were incommodious and flow. The tumultuous and disobedient armies of the empire were at prefent very different from the legions that were led on by Sylla or Cæfar; they were loaded with baggage, and followed by flaves and women, rather resembling an eastern caravan, than a military battalion. To these inconveniences also was added the batred of the cities through which he passed, the inhabitants all abandoning their houses upon his approach, and fecuring their provisions in proper hidingplaces. However, in this complication of inconveniences and misfortunes, his affairs began to wear a favourable appearance in Africa: for Capelianus, the governor of Numidia, raised a body of troops in his favour, and marched against Gordian, towards Carthage; where he fought the younger Gordian, flew him, and destroyed his army. The father, hearing of the death of his fon, together with the loss of the battle, firangled himself in his own girdle. Capelianus pursu-VOL. XVIII. Part I.

ing his victory, entered Carthage; where he gave a Rome, loofe to pillage and flaughter, under a pretence of revenging the cause of Maximinus. The news of these fucceffes was foon brought to the emperor, who now increafed his diligence, and flattered himfelf with a fpeedy opportunity of revenge. He led on his large army by hafty journeys into Italy, threatening destruction to all his oppofers, and ardently withing for fresh opportunities of flaughter.

Nothing could exceed the consternation of the senate upon the news of this defeat. They now faw them-felves not only deprived of the affittance of Gordian and his fon, on whom they greatly relied; but also opposed by two formidable tyrants, each commanding a victorious army, directly marching towards Rome, and meditating nothing but vengeance. In this afflicting exigence, they, with great folemnity, met at the temple of Jupiter, and after the most mature deliberations, choice Pupienus and Balbinus emperors conjointly. 309

These were men who had acquired the esteem of the Pupienus public both in war and peace, having commanded are and property mies, and governed provinces, with great reputation; chamed and being now appointed to oppose Maximinus, they emperors. made what levies they could, both in Rome and the country. With these, Pupicnus marched to ftop the progress of the invaders, leaving the city to a fresh and unlooked for calamity. This was occasioned by two of Maximinus's soldiers, who, entering the senatehouse, were flain by two senators. This quickly gave offence to the body of the pretorian foldiers, who infrantly refolved to take revenge, but were opposed by the citizens; fo that nothing was feen throughout Rome, but turnult, flaughter, and cruelty. In this univerfal confusion, the calamity was increased by the foldiers fetting the city on fire, while the wretched inhabitants were combating each other in the midft of

the flames. Neverthelefs, Maximinus himfelf, in whofe favour thele feditions were promoted, did not feem to be more fortunate. Upon being informed of the new election of emperors, his fury was again renewed, and he paffed the Alps, expecting, upon entering Italy, to refresh his fatigued and familhed army in that fertile part of the country. But in this he was entirely disappointed; the senate had taken such care to remove all kinds of sustenance to fortified places, that he fill found himfelf reduced to his former necessities, while his army began to murmur for want. To this another disappointment was added shortly 400 after: for approaching the city of Aquileia, which he ex- Aquileia pected to enter without any difficulty, he was aftonished Maximia to find it prepared for the most obstinate resistance, and ausresolved to hold out a regular siege. This city was well fortified and populous, and the inhabitants greatly averse to Maximinus's government; but what added frill more to its ffrength, it was commanded by two excellent generale, Crifpinus and Menophilis, who had so well furnished it with men and ammunition, that Maniminus found no small resistance, even in investing the place. His first attempt was, to take the city by florm; but the belieged threw down such quantities of scalding pitch and sulphur upon his foldiers, that they were unable to continue the affault. He then determined upon a blockade; but the inhabitants were fo refolute, that even the old men and

Gordian defeated and killed.

Rome. firings. Al ximinus's rage at this unexpedied opposition was now ungovernable: having no enemy to wreck his refentationt upon, he turned it against his own commanders. He but many of his generals to death, as if the city had beld out through their neglect or incapacity, while famine made great depredations upon the reft of his army. Nothing now appeared on either fide to termihate the contest, except the total destruction of either. But a mutiny in Maximitus's own army a while refcued the declining empire from destruction, and faved the lives of thoulands. The foldiers being long haraffed by famine and fatigue, and hearing of revolts on every fide, resolved to terminate their calamities by the tyrant's Is affaifina- death. His great strength, and his being always armed, were, at first, the principal motives to deter any from affassinating him; but at length having made his guards accomplices in their defign, they fet upon him, while he flept at noon in his tent, and flew both him and his fon, whom he had made his partner in the empire, without any opposition, after an usurpation of about three years, and in the 65th year of his age.

The tyrant being dead, and his body thrown to the dogs and birds of prey, Pupienus and Balbinus continued for fome time emperors without opposition. But the prætorian foldiers, who had long been notorious for mutiny and treafon, foon refolved on further change, Nor did the diffensions between the new made emperors themselves a little contribute to their downfall: for though both were remarkable for wifdom and age, yet they could not restrain the mutual jealousy of each other's power. Pupienus claimed the superiority from

his great experience; while Balbinus was equally aspiring upon account of his family and fortune.

In this ill-judged contest, the prætorian foldiers, who were enemies to both, fet upon them in their pa-Iace, at a time their guards were amused with seeing the Capitoline games. Pupienus perceiving their tumultuous approach, fent with the utmost speed for affiftance from his colleague; but he, out of a culpable suspicion that something was designed only against himfelf, refused to fend such of the German guards as were And like- next his person. Thus the seditious soldiers found an wife Pupie-easy access to both the emperors apartments; and dragging them from the palace towards the camp, flew them both, leaving their dead bodies in the streets, as a dread-

ful instance of their sedition.

402

Balbinus.

403

Young

In the midit of this fedition, as the mutineers were proceeding along, they by accident met Gordian, the grandson of him who was flain in Africa, and declared him emperor on the foot. The fenate and people had been long reduced to the necessity of fuffering their emperors to be nominated by the army; fo that all they could do in the present instance was to confirm their choice. This prince was but 16 years old when he began his reign, but his virtues feemed to compensate for the want of experience. His principal aims were, to unite the opposing members of the government, and to reconcile the foldiers and citizens to each other. His learning is faid to have been equal to his virtues; and we are affured that he had 62,000 books in his library. His respect for Missithens, his governor and instructor, was such, that he married his daughter, and profited by his counfels in all the critical circumstances of his reign.

The first four years of this emperor's reign were

attended with the utmost prosperity; but in the fifth Rome? he was alarmed with accounts from the east, that Sapor, king of Perfia, had furiously invaded the confines His fuccess of the Roman empire, and having taken Antioch, had a sainft the pillaged Syria and all the adjacent provinces. Befides barbarrans, the Persians, the Goths also invaded the empire on their fide, ponring down like an inundation from the north, and attempting to fix their refidence in the kingdom of Thrace. To oppose both these invasions, Gordian prepared an army; and having gained fome victories over the Goths, whom he obliged to retire, he turned his arms against the Persians, whom he defeated upon feveral occasions, and forced to return home with difgrace. In gaining these advantages, Misithæus, whom he had made prætorian præfect, had the principal share; but he dying soon after (as it is supposed being poisoned by Philip an Arabian, who was appointed his successor), the fortunes of Gordian seemed to die with him. The army began to be no longer fupplied with provisions as usual; murmurs were heard to prevail, and these were artfully fomented by Philip. Things thus proceeding from bad to worfe, Philip was at first made his equal in the command of the empire; shortly after, invested with the sole power; Is murderand, at length, finding himfelf capable of perpetrating ed by this his long meditated cruelty, Gordian was, by his order, fucceeds.

flain, in the 22d year of his age, after a successful reign fortunate as to be immediately acknowledged emperor

by the army. The fenate also, though they seemed at

of near fix years, Philip having thus murdered his benefactor, was fo

first to oppose his power, confirmed his election, and gave him, as usual, the title of Augustus. Philip was about 40 years old when he came to the throne; being the fon of an obscure Arabian, who had been captain of a band of robbers. Upon his exaltation, he affociated his fon, a boy of fix years of age, as his partner in the empire; and, in order to fecure his power at home, made peace with the Perfians, and marched his army towards Rome. On his way, having conceived a defire to visit his native country of Arabia, he built there a city called Philippopolis; and from thence returning to Rome, he was received as emperor, and treated with all the marks of fubmiffion, though not of joy. To put the people in good humour, he caused The thouthe fecular games to be celebrated, with a magnificence fandth year fuperior to any of his predeceffors, it being just 1000 of Rome. years after the building of the city. Upon occasion of these games, we are told that both Philip and his fon were converted to Chrislianity. However this be, a murderer and an ungrateful ufurper does no great honour to whatever opinion he may happen to embrace. We have little account of the latter part of his reign in the wretched and mutilated histories of the times; we only learn, that the Goths having invaded the empire, Marinus, Philip's lieutenant, who was fent against them, revolted, and caused himself to be declared emperor. This revolt, however, was but of short duration; for the army which had raifed him repented of their rathness, deposed him with equal levity, and put him to death. Decius was the person whom Philip appointed to command in the room of the revolting general. The chief merit of Decius with the emperor was, that when Marinus had rebelled, he averred in the

fenate, That the traitor's prefumption would be very

fhortly his ruin; which, when it happened accordingly, Philip appointed him to fucceed in the command of the rebellious army. Decius, who was a man of great fubtility, being entrusted with fo much power, upon arriving at the army found that the foldiers were resolved on investing him with the supreme authority. He therefore feemed to fuffer their importunities, as if through conftraint; and, in the mean time, fent Philip word, that he had unwillingly affumed the title of emperor, the better to fecure it for the rightful possessor; adding, that he only looked for a convenient opportunity of giving up his pretentions and title together. Philip knew mankind too well, to rely upon fuch professions: he therefore got together what forces he could from the feveral provinces, and led them forward towards the confines of Italy. Howmurdered. ever, the army was scarce arrived at Verona, when it reand is tuc seeded by volted in favour of Decius, and fetting violently upon Philip, a centine, with one blow, cut of his head, or rather cleaved it afunder, separating the under jaw from the upper. Such was the deserved death of Philip, in the 4 5th year of his age, after a reign of about five years; Decius being univerfally acknowledged as his fuccessor,

A. D. 248.

Decius.

408

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Is over-

The activity and wildom of Decius in some measure stopped the hastening decline of the Roman empire. The fenate feemed to think fo highly of his merits, that they voted him not inferior to Trajan; and indeed he feemed in every inflance to confult their dignity in particular, and the welfare of all inferior ranks of people. He permitted them to choose a censor, as was the cufrom in the flourishing times of Rome; and Valerian, his general, a man of fuch strict morals, that his life was faid to be a continual cenforthip, was chosen to that dignity .- But no virtues could now prevent the approaching downfall of the state : the obstinate disputes between the Pagans and the Christians within the empire, and the unceasing irruptions of barbarous nations from without, enfeebled it beyond the power of a remedy. To stop these, a persecution of the Christians, who were now grown the most numerous body of the people, was impolitically, not to fay unjuftly, begun; in which thoufands were put to death, and all the arts of cruelty tried in vain to leffen their growing number. This perfecution was fucceeded by dreadful devastations from the Goths, particularly in Thrace and Moefia, where they had been most successful. These irruptions Decius went to oppose in person; and coming to an engagement with them, flew 30,000 of the barbarians in one battle. Howcome, and ever, being refolved to pursue his victory, he was, by the killed by treachery of Gallus his own general, led into a defile, where the king of the Goths had fecret information to attack him. - In this difadvantageous fituation, Decius first saw his son killed with an arrow, and soon after his whole army put to the rout. Wherefore, refolving not to furvive his lofs, he put fours to his horfe, and instantly plunging into a quagmire, was fwallowed up, and his body could never be found after. He died in the 50th year of his age, after a short reign of two years and fix months; leaving the character of an excellent prince, and one capable of averting the destruction of the empire, if human means could have effected it.

Succeeded Gallus, who had thus betrayed the Roman army, by Gallus. had address enough to get himself declared emperor by that part of it which furvived the defeat; he was 45 years old when he began to reign, and was descended Rome. from an honourable family in Rome. He bought a difhonourable peace from the enemies of the flate, agreeing to pay a confiderable annual tribute to the Goths, whom it was his duty to reprefs. Having thus purchased a short remission from war, by the disgrace of his country, he returned to Rome, to give a loofe to his pleafures, regardless of the wretched fituation of

Nothing can be more deplorable than the flate of Miferable the Roman provinces at this time. The Goths and flate of the other barbarous nations, not fatisfied with their late empire.

bribes to continue in peace, broke in upon the eastern parts of Europe. On the other fide, the Persians and Scythians committed unheard of ravages in Melopotamia and Syria. The emperor, regardless of every national calamity, was loft in debauch and fenfuality at home; and the Pagans were allowed a power of perfecuting the Christians through all parts of the state; these calamities were succeeded by a pettilence; that feemed to have in general spread over every part of the earth, and which continued raging for feveral years in an unheard of manner; and all these by a civil war, which followed shortly after, between Gallus and his general Æmilianus, who having gained a victory over the Goths, was proclaimed emperor by his conquering army. Gallus hearing this, was foon roufed from the intuxications of pleafure, and prepared to oppose his dangerous rival. Both armies met in Morfia, and a battle enfued, in which Æmilianus was victorious, and Gallus, with his fon, were fain. His death was merited, and his vices were fuch as to deferve the deteftation of posterity. He died in the 47th year of his age, after an unhappy reign of two years and four months, in which the empire suffered inexpreffible calamities. Æmilianus, after his victory over Gallus, expected to be acknowledged emperor; but he foon found himself miserably disappointed. The fenate refused to acknowledge his claims; and an army that was stationed near the Alps chose Valerian, their own commander, to fucceed to the throne. In confequence of this, Æmilianus's foldiers began to confider their general as an obstacle to the universal tranquillity, and flew him in order to avoid the mischiefs of a civil war.

Valerian being thus univerfally acknowledged as emperor, although arrived at the age of 70, fet about reforming the state with a spirit that seemed to mark a good mind and unabated vigour. But reformation was then grown almost impracticable. The disputes between the Pagans and Christians divided the empire as before; and a dreadful perfecution of the latter enfued. The northern nations overran the Roman dominions in a more formidable manner than ever; and the empire began to be usurped by a multitude of petty leaders, each of whom, neglecting the general flate, fet up for himself. To add to these calamities, the Persians, Valerian under their king Sapor, invaded Syria; and coming taken pri-into Mesopotamia, took the unfortunate Valerian pri-soner, and foner, as he was making preparations to oppose them: fulted by Nothing can exceed the indignities, as well as the cruel- the Perties, which were practifed upon this unhappy monarch, fians. thus fallen into the hands of his enemies. Sapor, we are told, always used him as a footstool for mounting his horse; he added the bitterness of ridicule to his insults,

Gg 2

Rome and usually observed, That an attitude like that to which Valerian was reduced, was the best state that could be erected in honour of his victory. This horrid life of insular and sufferance continued for seven years, and was at length terminated by the cruel Persan's commanding his prisoner's eyes to be plucked out, and afterwards

caufing him to be flayed alive.

The empire invaded on all fides by the barbarians.

The news of the defeat of the Roman army by the Perfians, and the captivity of Valerian, no fooner reached the barbarous nations at war with Rome, than they poured on all fides into the Roman territories in incredible multitudes, threatening the empire, and Rome itself, with utter destruction. The Goths and Scythians ravaged Pontus and Afia, committing everywhere dreadful devastations; the Alemanni and Franks having overrun Rhætia, advanced as far as Ravenna; putting all to fire and fword; the Quadi and Sarmatians feized on great part of Dacia and Pannonia; while other barbarous nations, invading Spain, made themselves masters of Tarraco and other important places in that province. In the mean time Gallienus, the fon of Valerian, having promifed to revenge his father's captivity, and repreis the barbarians, was chofen emperor without any opposition. He was at that time in Gaul; but hastened into Italy, from whence he drove out the barbarians, either by the terror of his approach, or by overcoming them in battle .--In Dacia and Pannonia, also, the barbarians were driven back by Regillianus, who commanded there, and who is faid to have gained feveral victories in one

But in the mean time, one Ingenuus, a man of great reputation in war, and univerfally beloved both by the people and foldiery, caufed himfelf to be proclaimed emperor in Pannonia, where he was generally acknowledged as well as in Mossia. Gallienus no fooner heard of his revolt, than he marched from the neighbourhood of Ravenna, where he then was, into Illyricum, engaged Ingenuus, and put him to flight. Some authors tell us, that Ingennus was killed after the battle by his own foldiers; while others affirm, that he put an end to his own life to avoid falling into the hands of Gallienus, who used his victory with a cruelty hardly to be paralleled. The following letter to Verianus Celer, one of his officers, will show the disposition of this emperor: " I shall not be satisfied (says he) with your putting to death only fuch as have borne arms against me, and might have fallen in the field: you must in every city deltroy all the males, old and young; fpare none who have wished ill to me; none who have spoken ill of me the fon of Valerian, the father and brother of princes. Ingenius emperor ! Tear, kill, cut in pieces without mercy: you understand me; do then as you know I would do, who have written to you with my own hand." In confequence of these crnel orders, a most dreadful havock was made among that unhappy people; and, in feveral cities, not one male child was left alive. The troops who had formerly ferved under Ingenuus, and the inhabitants of Moesia who had escaped the general flaughter, provoked by these cruelties, proclaimed Regillianus emperor. He was a Dacian by birth, defcended, as was faid, from the celebrated king Decebalus whom Trajan had conquered; and had, by feveral gallant actions, gained reputation in the Roman armies. After he was proclaimed emperor, he gained great advantages over the Sarmatians; but was foon Rome. after murdered by his own foldiers. These revolts were quickly followed by many others. Indeed it is not furprising, at a time when the reins of government were held with so loose a hand, that a crowd of usurpers should start up in every province of the empire. The great number of usurpers who pretended to the empire about this time have been diftinguished by the name of the thirty tyrants. However, there were only 29; viz. The thirty Cyriades, Macrianus, Balista, Udenatus, and Zenobia tyrants. in the east: in Gaul, and the western provinces, Posthumus, Lollianus, Victorinus and his mother Victoria, Marius, and Tetricus; in Illyricum, and on the confines of the Danube, Ingenuus, Regillianus, and Aureolus; in Pontus, Saturninus; in Isauria, Trebellianus; in Theffaly, Pifo; in Achaia, Valens; in Egypt, Æmilianus; and in Africa, Celfus. Several of thele pretenders to the empire, however, though branded with the opprobrious appellation of tyrants, were eminent examples of virtue, and almost all of them were possessed of a considerable share of vigour and ability. The principal reason assigned for their revolt was, the infamous character of Gallienus, whom neither officers nor foldiers could bear to ferve. Many of them, however, were forced by the foldiers to affume the imperial dignity much against their will. "You have lost," faid Saturninus to his foldiers when they invested him with the purple, "a very useful commander, and have made a very wretched emperor." The apprehensions of Saturninus were justified by the event. Of the 19 usurpers already mentioned, not one died a natural death; and in Italy and Rome Gallienus alone continued to be acknowledged emperor. That prince indeed honoured Odenatus prince of Palmyra with the title of Augustus, who continued to possels an independent sovereignty in the east all his lifetime, and on his death transmitted it to his wife Zenobia. See PALMYRA.

The confequences of these numerous usurpations were Fatal con-the most fatal that can be conceived. The elections of queness of these precarious emperors, their life and death, were these usurequally destructive to their subjects and adherents. The pations. price of their elevation was instantly paid to the troops by an immense donative drawn from the exhausted people. However virtuous their character, and however pure their intentions might be, they found themselves reduced to the necessity of supporting their usurpation by frequent acts of rapine and cruelty. When they fell, they involved armies and provinces in their fall, as appears from the letter of Gallienus already quoted. Whilft the forces of the state were dispersed in private quarrels, the defenceless provinces lay exposed to every invader. The bravest usurpers were compelled, by the perplexity, of their fituation, to conclude dithonourable treaties with the barbarians, and even to submit to shameful tributes, and introduce fuch numbers of barbarians into the Roman fervice as feemed furficient at once to overthrow the

empire.

But when the empire feemed thus ready to fink at Callicius once, it fuddenly revived on the death of Gallienus, who must dered, was murdered by Martian, one of his own generals, could by while he belieged Aureolus, one of the tyrants, in Mi-Claudian. His death gave general flatisfaction to all, excellently his foldiers, who hoped to reap the reward of their treachery by the plunder of Milan. But being frustrated in their expectations, and in force mersface kept within

Monftrous cruelty of the new emperor Gailienus Rome. bounds by the largeffes of Martian, Flavius Claudius was nominated to succeed, and joyfully accepted by all orders of the state, and his title confirmed by the fenate

and the people.

We are not fufficiently affored of this emperor's lineage and country. Some affirm that he was born in Dalmatia, and descended from an ancient family there; others affert that he was a Trojan; and others, that he was fon the emperor Gordian. But, whatever might have been his descent, his merits were by no means doubtful. He was a man of great valour and conduct, having performed the most eminent services against the Goths, who had long continued to make irruptions into the empire. He was now about 55 years old, equally remarkable for the strength of his body and the viyour of his mind; he was chafte and temperate, a rewarder of the good, and a fevere punisher of fuch as transgressed the laws. Thus endowed, therefore, he in fome measure put a stop to the precipitate decline of the empire, and once more feemed to reflore the glory of Rome.

His first success, upon being made emperor, was

Who defeats the Goths, and the empire.

against Aureolus, whom he defeated near Milan. His next expedition was to oppose the Goths, against whom retrieves the he led a very numerous army. These barbarians had made their principal and most successful irruptions into Thrace and Macedonia, fwarmed over all Greece, and had pillaged the famous city of Athens, which had long been the school of all the polite arts to the Romans. The Goths, however, had no veneration for those embellishments that tend to soften and humanize the mind, but destroyed all monuments of taste and learning with the most favage alacrity. It was upon one of these occafions, that, having heaped together a large pile of books in order to burn them, one of the commanders diffuaded them from the defign, alleging, that the time which the Grecians should waste on books would only render them more unqualified for war. But the empire feemed to tremble, not only on that fide, but almost on every quarter. At the same time, above 300,000 of these barbarians (the Heruli, the Trutangi, the Virturgi, and many nameless and uncivilized nations) came down the river Danube, with 2000 ships, fraught with men and ammunition, fpreading terror and devastation

on every fide. In this flate of universal dismay, Claudius alone seemed to continue unshaken. He marched his disproportioned army against the savage invaders; and though but ill prepared for such an engagement, as the forces of the empire were then employed in different parts of the world, he came off victorious, and made an incredible flaughter of the enemy. The whole of their great army was either cut to pieces or taken priloners : houses were filled with their arms; and fcarce a province of the empire, that was not furnished with slaves from those that survived the defeat. The successes were followed by many others in different parts of the empire; fo that the Goths, for a confiderable time after, made but a feeble opposition. He some time after marched against the revolted Germans, and overthrew them with confiderable flaughter, His last expedition was to oppose Tetricus and Zenobia, his two puissant rivals in the empire. But on his march, as he approached near Sirmib forceed- um, in Pannonia, he was feized with a pestilential feed by Aure- ver, of which he died in a few days, to the great regret of his fubjects, and the irreparable lofs of the Roman Rome empire. His reign, which was not of quite two years continuance, was active and fuccessful; and fuch is the character given of him by historians, that he is faid to have united in himfelf the moderation of Augustus, the valour of Trajan, and the piety of Antoni-

Immediately after the death of Claudius, the army made unanimous choice of Aurelian, who was at that time mafter of the horse, and effeemed the most valiant commander of his time. However, his promotion was not without opposition on the part of the senate, as Quintillus, the brother of the deceafed emperor, put in his claim, and was for a while acknowledged at Rome. But his authority was of very thort duration; for finding himfelf abandoned by those who at first instigated him to declare for the throne, he chose to prevent the feverity of his rival by a voluntary death, and caufing his veins to be opened, expired, after having reigned but 17 days.

Aurelian being thus univerfally acknowledged by all the states of the empire, assumed the command, with a greater show of power than his predecessors had enjoyed for some time before. This active monarch was born of mean and obscure parentage in Dacia, and was about 55 years old at the time of his coming to the throne. He had spent the early part of his life in the army, and had rifen through all the gradations of military duty. He was of unshaken courage and amazing firength; he in one engagement killed 40 of the enemy with his own hand, and above 900 at feveral different times. In thort, his valour and expedition were fuch, that he was compared to Julius Cæfar; and, in fact, only wanted mildness and clemency to be every way his equal.

The whole of this monarch's reign was spent in re-His great pressing the irruptions of the northern nations, in hum-succeis bling every other pretender to the empire, and punith-against the ing the mapstrous irregularities of his come sold of the barbarians. ing the monstrous irregularities of his own subjects. He defeated the Marcomanni, who had invaded Italy, in three feveral engagements, and at length totally deflroyed their army. He was not less successful against Zenobia, the queen of the East, a woman of the most heroic qualifications, who had long disclaimed the Roman

power, and established an empire of her own, as is related under the article PALMYRA.

Aurelian having thus brought back peace to the empire, endeavoured, by the rigours of justice, to bring back virtue also. He was very strict in punishing the crimes of the foldiery: in his orders to bis lieutenants, he infifted that the peafants should not be plundered upon any pretences; that not even a grape, a grain of falt, or a drop of cil, should be exacted unjustly. He caused a soldier, who had committed adultery with his hoffels, to have his feet tied to the tops of two trees, forcibly bent at top to meet each other; which being let loose, and suddenly recoiling, tore the criminal in! two. This was a feverity that might take the name of cruelty; but the vices of the age, in some measure, required it. In these punithments inflicted on the guilty, the Christians, who had all along been growing more numerous, were sharers. Against these he drew up feveral letters and edicts, which showed that he intended a very fevere perfecution; but if we may believe the. credulous historians of the times, he was diverted just as

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Rome. he was going to fign them by a thunderbolt, which fell to near his perfon, that all the people judged him to be

deftroved.

But, however Heaven might have interpoled on this occasion, it is certain that his severities at last were the cause of his destruction. Menesthus, his principal secretary, having been threatened by him for some fault which he had committed, began to confider how he might prevent the meditated blow. For this purpose, he forged a roll of the names of feveral persons, whom he pretended the emperor had marked out for death, adding his own to strengthen him in the confidence of the party. The fcroll thus contrived was shown with an air of the utmost secrecy to some of the persons concerned; and they, to procure their fafety, immediately agreed with him to destroy the emperor. This resolution was foon put in execution; for, as the emperor paffed with a finall guard from Uraclea, in Thrace, towards Byzantium, the conspirators set upon him at once, and flew him with very fmall refistance. He was flain in the both, or, as fome fay, in the 63d year of his age, after a very active reign of almost five years.

The number of pretenders to the throne, which had formerly infettled the empire, were, by the laft monarch's adivity, fo entirely removed, that there now feemed to be none that would venture to declare himfelf a candiate. The army referred the choice to the fenate; and, on the other fide, the fenate declined it: fo that a space of near eight months elapsed in these negociations. At length, however, the fenate made choice of Tacitus, a man of great merit, and noway ambitions of the honours that were offered him. Upon being folicited to accept the empire, he at first refused, and retired to his country house in Campania, to avoid their importunities; but being at length prevailed upon, he accepted the ries not government, being at that time 75 years

old. One of the first acts of his government was the punishment of those who had conspired against the late emperor. Menesthus was impaled alive, his body being thrown to be devoured by wild beafts; his effate also was confiscated to the exchequer; and his ready money, which was very confiderable, applied towards paying the army. During this short reign, the senate seemed to have a large share of authority, and the hiflorians of the times are liberal of their praifes to fuch emperors as were thus willing to divide their power .-Upon endeavouring to obtain the confulfhip for his brother Probus, he was refused it by the senate; at which he feemed no way moved, but calmly remarked that the fenate best knew whom to choose. This moderation prevailed in all the rest of his conduct : he was extremely temperate; his table was plain, and furnished with nothing expensive; he even prohibited his empress from wearing jewels, and forbade the use of gold and embroidery. He was fond of learning, and the memory of fuch men as had deferved well of their country. He particularly effeemed the works of his namefake Tacitus the historian; commanding that they should be placed in every public library throughout the empire, and that many copies of them should be transcribed at the public charge. A reign begun with fuch moderation and justice, only wanted continuance to have made the empire happy; but after enjoying the empire about fix months, he died of a fever in his march to op-

pose the Persians and Scythians, who had invaded the Rome eastern parts of the empire.

Upon the death of Tacitus the army seemed divided His death.

Upon the death of Tacitus the army feemed divided, in the choice of an emperor; one part of it choice Florianus, brother to the decealed; but the majority were for fome time undetermined. They alleged amongit each other the necelity of choofing one eminent for valour, honour, piety, clemency, and probity; but the last virtue being that chiefly infuled upon, the whole army, as if by common condent, cried out that Probus should be emperor. He was accordingly confirmed in this dignity with the usual folemnities; and Florianus finding himfelf deferted, even by those legions who had promised to stand up in his support, opened his arteries and bled himfelf to death.

Probus was 44 years old, when he ascended the Probus rais throne, being born of noble parentage at Sirmium in fed to the Pannonia, and bred up a foldier from his youth. He empire. began early to dittinguish himself for his discipline and valour; being frequently the first man who in besieging towns scaled the walls, or that buist into the enemy's camp. He was no less remarkable for fingle combats, and faving the lives of many eminent citizens. Nor was his activity and courage, when elected to the entpire, less apparent, than in his private station, He first repressed the Germans in Gaul, of whom he slew 400,000. He then marched into Dalmatia, to oppose and subdue the Sarmatians. From thence he led his forces into Thrace, and forced the Goths to fue for peace. He-af-His co ter that turned his arms towards Afia; fubdued the quefts, province of Isauria; and marching onward, conquered a people called the Blemyes; who, leaving their native forests of Ethiopia, had possessed themselves of Arabia and Judea, and had continued in a state of rebellion since the reign of Gallienus. Narfes also, the king of Persia. fubmitted at his approach : and upon his return into Europe, he divided the depopulated parts of Thrace among its barbarous invaders : a circumstance that after-

wards produced great calamities to the empire. His diligence was not less conspicuous in suppressing intestine commotions. Saturninus, being compelled by the Egyptians to declare himfelf emperor, was defeated and flain. Proculus also (a person remarkable only for his great attachment to women, and who boafted in a letter, that, having taken 100 Sarmatian virgins prifoners, he deprived ten of that name in one night, and all the rest within a fortnight) set up against the emperor; but was compelled to fly, and at length delivered up by the Germans. At the same time Bonosus (who was a remarkable votary to Bacchus, being able to drink as much wine as ten could do, without being disordered) rebelled, and being overcome hanged himfelf in despair. Probus, when he faw him immediately after his death, could not avoid pointing to him, and faying, " There hangs not a man but a cask." Still, however, notwithflanding every effort to give quiet to the empire, the barbarians who furrounded it kept it in continual alarms. They were frequently repulfed into their native wilds, but they as certainly returned with fresh rage and increased ferocity. The Goths and Vandals, finding the emperor engaged in quelling domestic disputes, renewed their accustomed inroads, and once more felt the punishment of their presumptions. They were conquered in several engagements; and Probus returned in triumph to Rome. His active temper, however, would

427 Tacitus chofen emperor.

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ed.

not fuffer him to continue at reft whilst a fingle enemy was left to conquer. In his last expedition he led his foldiers against the Persians; and going through Sirmium, the place of bis nativity, he there employed feveral thousands of his foldiers in draining a fen that was incommodious to the inhabitants. The fatigues of this undertaking, and the great restraint that was laid upon the foldiers licentious manners, produced a conspiracy, Is murder- which ended in his ruin : for taking the opportunity as he was marching into Greece, they fet upon and flew him after he had reigned fix years and four months with

426 Reigns of Carus, Carinus, and Numeria-DUS

general approbation. Carus, who was prætorian prefect to the deceafed emperor, was cholen by the army to succeed him; and he, to strengthen his authority, named his two sons Carinus and Numerianus with him in command; the former of whom was as much fullied by his vices, as the youngest was virtuous, modelt, and courageous. The new emperor had scarce time to punish the murderers of the late monarch, when he was alarmed by a fresh irruption of the Sarmatians; over whom he gained a fignal victory. The Perfian monarch also made fome attempts upon the empire; but Carus affured his ambaffadors, that if their master persisted in his obstinacy, all his fields should shortly be as bare as his own bald head, which he showed them. In consequence of this threat, he marched to the very walls of Ctefiphon, and a dreadful battle enfuing, he once more gained a complete victory. What the result of this fuccels might have been, is not known; for he was shortly after flruck by lightning in his tent, with many others that were round him. Numerianus, the youngest son, who accompanied his father in this expedition, was inconfolable for his death; and brought such a disorder upon his eyes with weeping, that he was obliged to be carried along with the army, thut up in a close litter. The peculiarty of his fituation, after fome time, excited the ambition of Aper, his father-in-law, who supposed that he could now, without any great danger, aim at the empire himself. He therefore hired a mercenary villain to murder the emperor in his litter; and the better to conceal the fact, gave out that he was still alive, but unable to endure the light. In this manner was the dead body carried about for fome days, Aper continuing to attend it with the utmost appearance of respect, and to take orders as usual. The offensiveness, however, of its finell at length discovered the treachery, and excited an universal uproar throughout the army. In the midst of this tumult, Dioclesian, one of the most noted commanders of his time, was chosen emperor, and with his own hand flew Aper; having thus, as it is faid, fulfilled a prophecy, which had faid, that Dioclesian should be emperor after he bad flain a boar; alluding to the name of his rival, which fignifies a boar. Carinus, the remaining fon, did not long furvive his father and brother; for giving himfelf up to his vices, and vet at the fame time opposing the new-made emperor, the competitors led their forces into Moesia; where Dioclesian being victorious, Carinus was flain by a tribune of hls own army, whose wife he had formerly abused.

Dioclefian was a person of mean birth; being accounted, according to some, the son of a scrivener; and of a flave, according to others. He received his name from Dioclea, the town in which he was born; and was about 40 years old when he was elected to the empire. Rome. He pardoned all who had joined Carinus, without injuring either their furtures or honours. Conscious also that the weight of empire was too heavy for one alone to futtain, he took in Maximian, his general, as a partner in the fatigues of duty, making him his equal and companion on the throne. Thus mutually affilting each Takes Maother, these two continued to live in first friendship; vimian for and though somewhat differing in temper (as Maximian his partner, was rather a man of vicious inclinations), yet they concurred in promoting the general good, and humbling their enemies. And it must be observed, that there never was a period in which there were more numerous or

formidable enemies to oppose. The peafants and labourers in Gaul made a dange-Infurrecrous infurrection, under the conduct of Amandus and tins, and other cala-Helianus, but were subdued by Maximian. Achilleus, miles. who commanded in Egypt, proclaimed himself emperor; and it was not without many bloody engagements that he was overcome, and condemned by Dioclefian to be devoured by lions. In Africa, the Roman legions, in like manner, joined with many of the natives, feized upon the public revenues, and plundered those who continued in their duty. These were also subdued by Maximian; and, after a long dubious war, constrained to fue for peace. About the same time, a principal commander in Britain named Caraufius, proclaimed himself emperor, and possessed himself of the island. To oppose this general's claims, Maximian made choice of Constantius Chlorus, whom he created Cæsar, and married to Theodora his daughter-in-law. He, upon his arrival in Britain, finding Caraufius very ftrong, and continually reinforced from Germany, thought proper to come to an accommodation; fo that this usurper continued for feven years in quiet postession of the whole island, till he was flain by Alectus, his friend and intimate. About this time also, Narses, king of Persia, began a dangerous war upon the empire, and invaded Mesopotamia. To stop the progress of the enemy upon this quarter, Dioclesian made choice of Galerius (surnamed Armentarius, from the report of his being born of a cow-herd in Dacia); and he likewise was created Caesar. His fuccels also, though very doubtful in the beginning, was in the end terminated according to his wishes. The Perfians were overcome in a decisive engagement, their camp plundered and taken, and their king's wives and children made prisoners of war. There only remained, of all the enemies of the Roman empire, those who lay to the northward unsubdued. These were utterly unconquerable, as well upon account of their favage fierce nels, as the inhospitable severity of the climate and foil from whence they iffued. Ever at war with the Romans, they iffued forth, when the armies that were to reprefs their invafions were called away; and upon their return, they as fuddenly withdrew into cold, barren, and inaccessible places, which only themselves could endure. In this manner the Goths, Sarmatians, Alani, Quadi, &c. poured down in incredible numbers; while every defeat scemed but to increase their firength and perseverance. Of these, multitudes were taken prisoners, and sent to people the more southern parts of the empire; still greater numbers were dettroy. ed; and though the rest were driven back to their native forests, yet they continued ever mindful of their

inveterate

inveterate enmity, and, like a favage beaft, only continued inactive, till they had licked their wounds for a

The Chrily perfecu-

43r Dioclefian and Maximian refign.

During this interval, as if the external miferies of the ftians cruel-empire were not fufficient, the tenth and last great perfecution was renewed against the Christians. This is faid to have exceeded all the former in feverity; and fuch was the zeal with which it was purfued, that, in an ancient inscription, we are informed that they had effaced the name and superstition of the Christians, and had restored and propagated the worship of the gods. Their attempts, however, were but the malicious efforts of an expiring party; for Christianity shortly after was established by law, and triumphed over the malice of all its enemies. In the midst of the troubles raised by this perfecution, and of the contofts that thruck at the internal parts of the state, Dioclesian and Maximian furprifed the world by refigning their dignities on the fame day, and both retiring into private stations. Historians are much divided concerning the motives that thus in-duced them to give up those honours which they had purchased with so much danger. Some ascribe it to the philosophical turn of Dioclesian; and others, to his being difgusted with the obstinacy of his Christian fubiects: but Lactantius afferts, that he was compelled to it, together with his partner, by Galerius, who coming to Nicomedia, upon the emperor's recovery from a great fickness, threatened him with a civil war in case

he refused to refign. However, of this we are well affured, that he still preserved a dignity of sentiment in his retirement, that might induce us to believe he had no other motive for relignation than the love of quiet, and the consciousness of his inability to discharge on a fick-bed the duties of a fovereign. Having retired to his birth-place, he fpent his time in cultivating his garden, affuring his vifitors that then only he began to enjoy the world, when he was thought by the rest of mankind to forfake it. When also some attempted to persuade him to refume the empire he replied, That if they knew his present happiness, they would rather endeavour to imitate than diffurb it. In this contented manner he lived some time, and at last died either by poison or madness, it is uncertain which. His reign, which continued 20 vears, was active and uleful; and his authority, tinctured with feverity, was well adapted to the deprayed

state of morals at that time. Maximian, his partner in the empire and in refignation, was by no means to contented with his fituation. He longed once more for power, and diffurbed the two fucceeding reigns with various efforts to refume it; attempting to engage Dioclesian in the same design. Being obliged to leave Rome, where he had bred great confusion, he went over into Gaul, where he was kindly received by Constantine, the then acknowledged emperor of the west. But here also continuing his intrigues, and endeavouring to force his own daughter and destroy her husband, he was detected, and condemned to die by whatever death he should think proper; and Lactantius tells us that he chose hanging.

Upon the refignation of the two emperors, the two Cæfars whom they had formerly chosen were universally acknowledged as their fuccessors. Constantius Chlorus, who was fo called from the plainness of his complexion, was virtuous, valiant, and merciful. Galerius, on the other hand, was brave, but brutal, incontinent, and cruel. As there was fuch a disparity in their tem- Rome. pers, they readily agreed, upon coming into full power, to divide the empire; Constantius being appointed to govern the western parts; namely, Italy, Sicily, the greatest part of Africa, together with Spaio, Gaul, Britain, and Germany; Galerius had the eastern parts allotted to his share; to wit, Illyricum, Pannonia, Thrace, Macedonia, all the provinces of Greece, and the Leffer Asia, together with Egypt, Syria, Judea, and all the countries cathward. The greatness of the division, however, foon induced the emperors to take in two partners more, Severus and Maximin, who were made Cæfars, and affifted in the conducting of affairs; fo that the empire now was under the guidance of four perfons, all invested with supreme authority.

We are informed but of few particulars of the reign of Constantius, except a detail of his character, which appears in every light most amiable. He was frugal. chafte, and temperate. His mercy and juffice were equally confpicuous in his treatment of the Christians. whom he would not fuffer to be injured; and when at length persuaded to displace all the Christian officers of his household that would not change their religion, when fome of them complied he fent them away in difgrace; alleging, that those who were not true to their God.

would never be faithful to their prince.

In the fecond year of his reign he went over into Britain; and leaving his fon Constantine as a kind of hostage in the court of his partner in the empire, took up his residence at York. He there continued in the practice of his usual virtues; till falling sick, he began to think of appointing his fon for his fuccessor. He accordingly fent for him with all foeed; but he was past recovery before his arrival; notwithstanding, he reseived him with marks of the utmost affection, and raifing himfelf in his bed, gave him feveral ufeful inftructions, particularly recommending the Christians to his protection. He then bequeathed the empire to his care; and crying out, that none but the pious Constantine should succeed him, he expired in his arms.

In the mean time, Galerius, his partner in the cmpire, being informed of Constantine's advancement, testified the most ungovernable rage, and was even going to condemn the messenger who brought him the account : but being diffunded, he feemed to acquiesce in what he could not prevent, and fent him the marks of royalty; but at the fame time declared Severus emperor, in opposition to his interests. Just about this time also, another pretender to the empire started up. This was Maxenting Maxentius, a person of mean extraction; but very much usures the favoured by the foldiers, whom he permitted to pillage throne. at discretion. In order to oppose Maxentius, Severus led a numerous army towards the gates of Rome; but his foldiers confidering against whom they were to fight, immediately abandoned him; and shortly after he put an end to his own life, by opening his veins. To revenge his death, Galerius marched into Italy, refolving to ruin the inhabitants, and to destroy the whole fenate. His foldiers, however, upon approaching the capital began to waver in their resolutions : wherefore he was obliged to have recourse to intreaties, imploring them not to abandon him; and, retiring by the same route by which he had advanced, made Licinius, who was originally the fon of a poor labourer in Dacia, Casfar, in the room of Severus who was flain. This feem-

432 Conftantius (blorus, and Galerius.

434 Dreadful tleath of Galerius. ed to be the last act of his power; for shortly after he was scized with a very extraordinary disorder in his privities, which bassed all the skill of his physicians, and carried him off, after he had languished in torments for near the space of a year. His cruelty to the Chrisman was one of the many crimes alleged against him; and their historians have not failed to aggravate the circumstances of his death as a judgment from Heaven for his former impiety. However this be, he abated much of his feverities against them on his deathbed; and revoked those dists which he had formerly published, tending to their persecution, a little before his death.

Confantine being thus delivered from his greatest opponent, might now be confidered as possessing more power than any of his rivals who were yet remaining. The empire was at that time divided between him and three others: Maxentius, who governed in Rome, a person of a cruel disposition, and a stedsal supporter of paganism; Licinius, who was adopted by Galerius, and commanded in the east; and likewise Maximin, who had formerly been declared Cesar with Severus, and who also governed some of the eastern provinces.

For some time all things seemed to wear a peaceful appearance; till at length, either ambition, or the tyrannical conduct of Maxentius, induced Constantine to engage in an expedition to expel that commander from Rome, and to make the proper preparations for marching into Italy. It was upon this occasion that he formed a refolution which produced a mighty change in the politics as well as the morals of mankind, and gave a new turn to the councils of the wife, and the pursuits of amhition. One evening, as we are told by Eusebius, the army being upon its march toward Rome, Conflantine was taken up with various confiderations upon the fate of sublunary things, and the dangers of his approaching expedition: fensible of his own incapacity to succeed without divine affistance, he employed his meditations upon the opinions that then were chiefly agitated among mankind, and fent up his ejaculations to Heaven to inspire him with wildom to choose the path he ought to purfue. It was then, as the fun was declining, that there fuddenly appeared a pillar of light in the heavens, in the form of a cross, with this infcription, ΤΟΥΤΩ NIKH, " In this overcome." . So extraordinary an appearance did not fail to create aftonishment both in the emperor and his whole army, who confidered it as their dispositions led them to believe. Those who were attached to paganism, prompted by their auspices, pronounced it a most inauspicious omen, portending the most unfortunate events. But it made a different impression on the emperor's mind; who, as the account goes, was farther encouraged by visions the fame night. He therefore, the day following, caused a royal standard to be made, like that which he had seen in the heavens; and commanded it to be carried before him in his wars, as an enfign of victory and celeftial protection. After this, he confulted with feveral of the principal teachers of Christianity, and made a public avotval of that facred perfuafion.

Conflantine having thus attached to his interest his foldiers, who were mostly of the Chrittian perfusion, lost no time in entering Italy with 90,000 foot and 8000 horfe; and foon advanced to the very gates of Rome. The unfortunate Maxentius, who had long gi-Vol. XVIII, Part I.

ven himself up to case and debauchery, now kegan to make preparations when it was too late. He first put in practice all the superflittous rites which pagamin stuught to be necessary, and then consulted the bible of state of the books; from whence he was informed, that on that and killing books; from whence he was informed, that on that and killing books; from whence he was informed, that on that and killing books; from whence he was informed, the presentation of the state of the books and the state of the

Constantine, in consequence of this victory, entering the city, disclaimed all praises which the senate and people were ready to offer; afcribing his fuccess to a fuperior power. He even caused the cross, which it is faid he faw in the heavens, to be placed at the right of all his statues, with this inscription : " That under the influence of that victorious crois. Constantine had delivered the city from the voke of tyrannical power, and had restored the senate and people of Rome to their ancient authority." He afterwards ordained, that no criminal should for the future suffer death by the crofs; which had formerly been the most usual way of punishing slaves convicted of capital offences. Edicts were foon after iffued, declaring that the Christians should be eased from all their grievances, and received into places of trust and authority. Thus the new religion was feen at once to prevail over the whole Roman empire; and as that enormous fabric had been built and guided upon pagan principles, it lost a great deal of its ftrength and coherence when those principles were thus at once subverted.

Things continued in this state for some time. Conftantine all the while contributing what was in his power to the interest of religion, and the revival of learning, which had long been upon the decline, and was almost wholly extinct in the empire. But in the midfl of thefe affiduities, the peace of the empire was again diffurbed by the preparations of Maximin, who governed in the east, and who, desirous of a full participation of power, marched against Licinius with a very numerous army. Makimin's In consequence of this step, after many conslicts, a ge-defeat and neral engagement enfued, in which Maximin fuffered, a death. total defeat; many of his troops were cut in pieces, and those that survived submitted to the conqueror. Maximin, however, having escaped the general carnage, once more put himself at the head of another army, refolving to try the fortune of the field; but death prevented his defign. As he died by a very extraordinary kind of madnefs, the Christians, of whom he was the declared enemy, did not fail to ascribe his end to a judgment from heaven; but this was the age in which falle judgments and falle miracles made up the bulk of their uninstructive history.

Contantine and Liefnus thus remaining undiffured 4.3 poffeifors and partners in the empire, all things promi. We be fed a peaceable continuance of ficiendilip and power. However, it was foon found, that the fame ambition will be that aimed after a part, would be content with nothing dust left than the whole. Pagan writers afcribe the rupture between their two potentates to Confloatine; while the Christians, on the other hand, impute it wholly to

Conftantine's vifron and conversion to Christianity.

Lieinius

death.

overcome

Cæfar.

Rome. Licinius. Both, perhaps, might have concurred: for Licinius is convicted of having perfecuted Christianity, which was fo highly favoured by his rival; and Conflantine is known to have been the first to begin the preparations for an open rupture. Both ades exerted all their power to make opposition; and at the head of very formidable armies, came to an engagement near Cybalis, in Pannonia. Constantine, previous to the battle, in the midit of his Christian bishops, begged the affiftance of Heaven; while Licinius, with equal zeal, called upon the pagan priefts to intercede with the gods in his favour. Conflantine, after an obstinate relitlance from the enemy, became victorious; took their camp; and, after some time, compelled Licinius to sue for a truce, which was agreed upon. But this was of no long continuance; for foon after, the war breaking out afresh, and the rivals coming once more to a general engagement, it proved decifive. Licinius was entirely deand put to feated, and purfued by Constantine into Nicomedia, where he furrendered himfelf up to the victor; having first obtained an oath that his life should be spared, and that he should be permitted to pass the remainder of his days in retirement. This, however, Confiantine shortly after broke; for either fearing his defigns, or finding him adually engaged in fresh conspiracies, he commanded him to be put to death, together with Martian

> Confiantine being now fole monarch of the empire, without a rival to divide his power, or any person from whose claims he could have the least apprehensions, refolved to chablish Christianity on fo fure a basis, that no new regulations should shake it. He commanded that in all the provinces of the empire the orders of the bi-Thops should be exactly obeyed; a privilege of which, in fucceeding times, these fathers made but a very indifferent use. He called also a general council of these, to meet at Nicea, in order to reprefs the herefies that had already crept into the church, particularly that of Arius. To this place repaired about 318 bishops, besides a multitude of prefbyters and deacons, together with the emperor himfelf; who all, to about 17, concurred in condemning the tenets of Arius; who, with his affociates,

> his general, who fome time before had been created

was banished into a remote part of the empire. Having thus restored universal tranquillity to the empire, he was not able to ward off calamities of a more domestic nature. As the histories of that period are entirely at variance with each other, it is not eafy to discover the motives which induced him to put his wife Fausta and his son Crispus to death. The most plaufible account is this: Fausta the empress, who was a woman of great beauty, but of extravagant defires, had long, though fecretly, loved Crifpus, Constantine's fon by a former wife. She had tried every art to inspire this youth with a mutual passion; but, finding her more diffant efforts ineffectual, had even the confidence to make him an open confession of her desires. This produced an explanation, which was fatal to both. Crifpus received her addresses with detestation; and she, to he revenged, accused him to the emperor. Constantine, fired at once with jealoufy and rage, ordered him to die without a hearing; nor did his innocence appear till it was too late for redrefs. The only reparation, therefore that remained, was the putting Fausta, the wicked instrument of his former cruelty, to death; which was accordingly executed upon her, together with some Rome. others who had been accomplices in her falfehood and

But the private misfortunes of a few were not to be weighed against evils of a more general nature, which the Roman empire flortly after experienced. These Transiers arole from a measure which this emperor conceived and the feat of executed, of transferring the feat of the empire from empire to Rome to Byzantium, or Conflantinople, as it was after-Constantiwards called. Whatever might have been the reasons nopte. which induced him to this undertaking; whether it was because he was offended at some affronts he received at Rome, or that he supposed Constantinople more in the centre of the empire, or that he thought the eaftern parts more required his prefence, experience has shown that they were weak and groundless. The empire had long before been in the most declining state; but this in a great measure gave precipitation to its downfall. After this it never returned its former iplendor.

His first defign was to build a city which he might make the capital of the world; and for this purpole, he made choice of a fituation at Chalcedon in Afia Minor; but we are told, that in laying out the groundplan, an eagle caught up the line and flew with it over to Byzantium, a city which lay upon the opposite side of the Bosphorus. Here, therefore, it was thought expedient to fix the feat of the empire; and indeed nature feems to have formed it with all the conveniences and all the beauties which might induce power to make it the feat of refidence. It was fituated on a plain that rofe gently from the water; it commanded that firait which unites the Mcditerranean with the Euxine fea. and was furnished with all the advantages which the most indulgent climate could bestow. This city, therefore, he beautified with the most magnificent edifices; he divided it into 14 regions; built a capitol, an amphitheatre, many churches, and other public works; and having thus rendered it equal to the magnificence of his idea, he dedicated it in a very folemn manner to the God of martyrs; in about two years after, repairing thither with his whole court.

The removal produced no immediate alteration in the government of the empire; the inhabitants of Rome, though with reluctance, fubmitted to the change; nor was there for two or three years any diffurbance in the flate, until at length the Goths, finding that the Romans had withdrawn all their garrifons along the Danube, renewed their inroads, and ravaged the country with unheard-of cruelty. Conftantine, however, foon repressed their incursions, and so straitened them, that near 100,000 of their number perished by cold and hunger. These and some other insurrections being happily suppressed, the government of the empire was divided as follows. Constantine, the emperor's eldest fon, commanded in Gaul and the western provinces; Constantius governed Africa and Illyricum; and Constans ruled in Italy. Dalmatius, the emperor's brother, was fent to defend those parts that bordered upon the Goths; and Annibalianus, his nephew, had the charge of Cappadocia and Armenia Minor. This division of the empire fill farther contributed to its downfall; for the united firength of the flate being no longer brought to reprefs invalions, the barbarians fought with fuperior numbers; and conquered at last, though often defeated. Constantine.

Conitantine puts his wite and ion to death

Rome. Constantine, however, did not live to feel these calamities. The latter part of his reign was peaceful and fplendid; ambaffadors from the remotest Indies came to acknowledge his authority; the Perfians, who were ready for fresh inroads, upon finding him prepared to oppose, fent humbly to defire his friendship and forgiveness. He was above 60 years old, and had reigned above 30 years, when he found his health began to decline. To obviate the effects of his diforder, which was an intermitting fever, he made use of the warm baths of the city; but receiving no benefit from thence, he removed for change of air to Helenopolis, a city which he had built to the memory of his mother. His diforder increasing, he changed again to Nicomedia; where finding himfelf without hopes of recovery, he caused himself to be baptized; and having foon after received the facrament, he expired, after a memorable and active reign of 32 years. This monarch's character is represented to us in very different lights: the Christian writers of that time adorning it with every thrain of panegyric; the heathers, on the contrary, loading it with all the virulence of invective. He ellablished a religion that continues the bleffing of mankind; but purfued a scheme

of politics that destroyed the empire.

From the time of Constantine to the division of the empire between Valentinian and his brother Valens, the hiftory of Rome is related under the article Constan-TINOPLE, where also that of the eastern part is carried down to the final deftruction of that city by the Turks. In the beginning of the reign of Valentinian, the province of Libva Tripolitana was grievously oppressed by the barbarians of the defert, and almost equally so by Romanus its own governor. His conduct was fo exceedingly oppressive, that the inhabitants fent a deputation to Valentinian, complaining of their unhappy fituation, and defiring redrefs. Palladius was accordingly tent to inquire into the flate of the province; but being gained over by Romanus, he made a falfe report to the emperor; and thus the unhappy province was left a prey to the merciles invaders and rapacious governor. During the rest of this reign the barbarians continued their inroads into the empire; and among others, we find the Saxons now putting in for a share of the spoils of the ruined empire: however, their army was at this time entirely cut off. At last Valentinian himself took the field against these northern barbarians; and entering the country of the Quadi, destroyed all with fire and fword. The barbarians on this were fain to fue for peace in a very humble manner; but Valentinian, falling into a great passion while speaking to them, threatened to extirpate the whole nation at once. His fury on this occasion produced an apoplexy, or fonie other mortal diforder; for he fuddenly fell down, and being conveyed by his attendants into his chamber, he was frized with violent convultive fits and contortions of all his limbs, in the agonies of which he expired, in the year 375, the 55th of his age, and 12th of his reign.

After the death of Valentinian, his fon Gratian took upon him the imperial dignity: foon after becoming mafter of the whole empire by the death of Valens. The transactions of his reign, and those of his partner Theodofius, are related under the article Constanti-NOPLE, No 77-89. The death of Theodofius gave the finishing stroke to the Roman affairs; his son Honorius, to whom he left the western empire, being posfelled of no abilities whatever, and indeed feeming to Rome. have been but very little removed from an idiot. The barbarians appear to have been abundantly fentible of the advantages offered them by the death of Theodofius, He expired in the month of January; and b fore the accession of spring, the Goths were in arms. The bar-Invasion barian auxiliaries also now declared their independency; of the and along with their countrymen, furjoufly affailed the Goth undeclining empire. The Goths were now headed by an der Alane. experienced commander, their celebrated king Abric : who would have proved formidable even in better times of the empire. He first overran Greece, which he accomplished without opposition, through the treachery of the governor, who commanded the troops that defended the pass at Thermopylae to retire at the approach of the enemy. Athens, Corinth, Argos, Sparta, yielded without refiftance; and the whole country was ravaged and deflroyed by the blood-thirtly barbarians. At last, in the year 307, he was opposed by Stilicho, the general of Honorius, a man of great valour and experience in war. The Goths were defeated with great lofs, and afterwards belieged in their camp; but through mistake or negligence in the Roman commander, they were fuffered to cfcape, and make themfelves masters of the province of Epirus. Alaric then, having found means to conclude a treaty with the minilters of Constantinople, Stilicho was obliged to retire.

Not long after this, Alaric invaded Italy itself. The

emperor, firuck with terror, would have abandoned the country and fled into Gaul: but this difgraceful and pernicious measure was opposed by Stilicho; who proposed to the court of Honorius, at that time at Mislan, that if they would maintain their ground during his absence he would soon return with an army capable of opposing the barbarians. This being agreed to, St licho immediately fet out for Rhætia, where the most considerable body of the Roman forces at that time was, and collected his troops with the utinost diligence. But in the mean time Honorius was in the greatest danger; having been obliged to take refuge in the town of Alla in Piedmont. To this place the Goths inftantly laid fiege, and a capitulation had been proposed, when the drooping spirits of Honorius were at once revived by the arrival of Stilicho, whom he had fo long expected. The Goths were now befreged Goths dein their turn, and obliged to come to a decifive battle leat at at Pollentia. The engagement lasted the whole day; Pollentia but at last the Goths were compelled to retreat. Their camp was instantly invested; their entrenclments forced with great flaughter; the wife of Alaric was taken. with all the wealth which had been amaffed in plundering Greece; while many thousands of Roman prifoners were released from the most deplorable flavery, The victory, however, was not fo decifive but that Alaric continued fill extremely formidable; and Stilicho chose rather to conclude a treaty with him, and allow

vigour. Alaric, who was not very ferupulous in his observance of this treaty, in his retreat attempted to make himself master of the city of Verona : bu Stillcho coming up with him near that place, gave him a terrible defeat, in which the loss was little less than it

him an annual penfion, than to continue the war with

had been at Pollentia; after which he offected a retreat out of Italy, but not without the greatest difficulty and danger.

Devh of Conftan-Line.

Reign of Valenti. nian.

446 Honorius retires to Ravenna.

Mr Gib-bo. 's acthe revolutions in China.

I roughly delivered, Honorius enterell Rome in triumph, having Stilicho along with him in the triumphal chariot. On his entry into the city, he abolified the shows of gladiators; which, though forbidden by Constantine, had been tolerated by his fucceffors, and even by Theodofius himfelf, out of complaifance to the people, who were beyond measure fond of that inhuman diversion. However, soon after, the emperor was obliged to leave the metropolis and retire to Ravenna, in order to fecure himfelf from the barbarians, who now broke in upon the empire on all fides. Such multitudes now made their appearance, that it is not a little difficult to account for their fudden emigration. Mr Gibbon accounts for it from a supposed revolution in the north-eastern parts of China. " The Chinese annals (fays he), as they have been interpreted by the learned industry of the present age, may be usefully applied to reveal the secret and remote causes of the fall of the Roman empire. The extensive territory to the north of the great wall was poffeffed, after the flight of the Huns, by the victorious Sienpi; who were fometimes broken into independent tribes, and fometimes re-united under a fupreme chief; till at length styling themselves Topa, or " masters of the earth," they acquired a more folid confidence, and a more formidable power. The Topa foon compelled the pastoral nations of the eastern desert to acknowledge the superiority of their arms; they invaded China in a period of weakness and intestine discord; and these fortunate Tartars, adopting the laws and manners of the vanquithed people, founded an imperial dynasty, which reigned near 160 years over the northern provinces of the monarchy. Some generations before they ascended the throne of China, one of the Topa princes had enlifted in his cavalry a flave of the name of Moko, renowned for his valour; but who was tempted, by the fear of punithment, to defert his standard, and to range the defert at the head of 100 followers. This gang of robbers and outlaws swelled into a camp. a tribe, a numerous people, dittinguished by the appellation of Geougen; and their hereditary chieftains, the posterity of Moko the slave, assumed their rank among the Scythian monarchs. The youth Toulun, the greatest of his descendants, was exercised by those misfortunes which are the school of heroes. He bravely struggled with adversity, broke the imperious voke of the Topa, and became the legislator of his nation, and the conqueror of Tartary. His troops were distributed into regular bands of 100 and of 1000 men; cowards were stoned to death; the most splendid honours were proposed as the reward of valour; and Toulun, who had knowledge enough to despife the learning of China, adopted only fuch arts and inflitutions as were favourable to the military spirit of his government. His tents, which he removed in the winter feafon to a more fouthern latitude, were pitched during the fummer on the fruitful banks of the Selinga. His conqueits firetched from the Corea far beyond the river Irtish. He vanquished, in the country to the north of the Cafpian fea, the nation of the Huns; and the new title of Khan, on Cagan, expressed the same and power which he derived from this memorable victory.

"The chain of events is interrupted, or rather is concealed, as it passes from the Volga to the Vistula, through the dark interval which separates the extreme limits of the Chinese and of the Roman geography. Rome, Yet the temper of the barbarians, and the experience. of 'fuccessive emigrations, fufficiently declare, that the Huns, who were oppressed by the arms of the Geougen, foon withdrew from the presence of an insulting victor. The countries towards the Euxine were already occupied by their kindred tribes; and their hafty flight, which they foon converted into a bold attack, would more naturally be directed towards the rich and level plains through which the Viitula gently flows into the Baltic fea. The north must again have been alarmed and agitated by the invasion of the Huns; and the nations who retreated before them must have pressed with incumbent weight on the confines of Germany. The inhabitants of those regions which the ancients have affigned to the Suevi, the Vandals, and the Burgundians, might embrace the resolution of abandoning to the fugitives of Sarmatia their woods and morafies; or at least of discharging their superfluous numbers on the provinces of the Roman empire. About four years after the victorious Toulun had assumed the title of khan of the Geougen, another barbarian, the haughty Rbodogast, or Radagaisus, marched from the northern extremities of Germany almost to the gates of Rome, and left the remains of his army to atchieve the destruction of the west. The Vandals, the Suevi, and the Burgundians, formed the strength of this mighty host : but the Alani, who had found an hospitable reception in their new feats, added their active cavalry to the heavy infantry of the Germans; and the Gothic adventurers crowded fo eagerly to the flandard of Radagaifus, that by some historians he has been styled the king of the Goths. Twelve thousand warriors, distinguished above Radagaithe vulgar by their noble birth or their valiant deeds, in invades glittered in the van; and the whole multitude, which Italy with was not less than 200,000 fighting men, might be in- a prodigicreafed by the accession of women, of children, and of ous army. flaves, to the amount of 400,000 persons. This formidable emigration iffued from the # me coast of the Baltic which had poured forth the myriads of the Cimbri and Teutones to affault Rome and Italy in the vigour of the republic. After the departure of those barbarians, their native country, which was marked by the veftiges of their greatness, long ramparts, and gigantic moles, remained during fome ages a vast and dreary folitude; till the human species was renewed by the powers of generation, and the vacancy was filed up by the influx of new inhabitants. The nations who now usurp an extent of land which they are unable to cultivate, would foon be affifted by the industrious poverty of their neighbours, if the government of Europe did not protect the claims of dominion and property.

"The correspondence of nations was in that age so imperfect and precarious, that the revolutions of the north might escape the knowledge of the court of Ravenna; till the dark cloud which was collected along the coast of the Baltic burst in thunder upon the banks of the Upper Danube. The emperor of the west, if his ministers disturbed his amusements by the news of the impending danger, was falisfied with being the oc-casion and the spectator of the war. The safety of Rome was intrusted to the councils and the sword of Stilicho; but fuch was the feeble and exhausted state. of the empire, that it was impossible to restore the forRome. tifications of the Danube, or to prevent, by a vigorous effort, the invation of the Germans. The hopes of the vigilant minister of Honorius were confined to the defence of Italy. He once more abandoned the provinces; recalled the troops; pressed the new levies, which were rigorously exacted, and pufillanimously eluded; employed the most ethicacious means to arrest or allure the deferters; and offered the gift of freedom, and of two pieces of gold, to all the flaves who would enlift. By these efforts he painfully collected from the subjects of a great empire an army of 30,000 or 40,000 men; which, in the days of Scipio or Camillus, would have been infiantly furnished by the free citizens of the territory of Rome. The 30 legions of Stilicho were reinforced by a large body of barbarian auxiliaries; the faithful Alani were personally attached to his fervice; and the troops of Huns and of Goths, who marched under the banners of their native princes Hulden and Sarus, were animated by interest and refentment to oppose the ambition of Radagaisus. The king of the confederate Germans passed, without refistance, the Alps, the Po, and the Appenine : leaving on one hand the inaccessible palace of Honorius, fecurely buried among the marshes of Ravenna; and on the other, the camp of Stilicho, who had fixed his head quarters at Ticinum, or Pavia, but who feems to have avoided a decifive battle till he had affembled his diffant forces. Many cities of Italy were pillaged, or destroyed; and the fiege of Florence by Radagaisus is one of the earliest events in the history of that celebrated republic, whose firmness checked and delayed the unskilful fury of the barbarians. The senate and people trembled at their approach within 180 miles of Rome; and auxiously compared the danger which they had escaped with the new perils to which they were exposed. Alaric was a Christian and a foldier, the leader of a disciplined army; who understood the laws of war, who respected the sanctity of treaties, and who had familiarly conversed with the subjects of the empire in the same camps and the same churches. The favage Radagaifus was a stranger to the manners, the religion, and even the language, of the civilized na-tions of the fouth. The fierceness of his temper was exasperated by cruel superstition; and it was univer-fally believed, that he had bound himself by a solemn vow to reduce the city into a heap of stones and ashes, and to facrifice the most illustrious of the Roman senators on the altars of those gods who were appealed by human blood. The public danger, which should have reconciled all domestic animosities, displayed the incurable madues of religious faction. The oppressed votaries of Jupiter and Mercury respected, in the impagan; loudly declared, that they were more apprehensive of the facrifices than of the arms of Radagaifus; and fecretly rejoiced in the calamities of their country, which condemned the faith of their Christian adversaries.

" Florence was reduced to the last extremity; and the fainting courage of the citizens was supported only by the authority of St Ambrose, who had communicated in a dream the promise of a speedy deliverance. On a fudden they beheld from their walls the banners of Stilicho, who advanced with his united force to the relief of the faithful city; and who foon marked that fatal

spot for the grave of the barbarian hoft. The apparent Rome. contradictions of those writers who variously relate the defeat of Radagaifus, may be reconciled without offering much violence to their respective testimonies. Orofius and Augustin, who were intimately connected by friendship and religion, ascribe this miraculous victory to the providence of God rather than to the valour of They fluidly exclude every idea of chance, or even of bloodshed; and positively affirm, that the Romans, whose camp was the scene of plenty and idleness, enjoyed the diffress of the barbarians, flowly expiring on the sharp and barren ridge of the hills of Fæsulæ, which rife above the city of Florence. Their extravagant affertion, that not a fingle foldier of the Christian army was killed, or even wounded, may be dismissed with filent contempt; but the rest of the narrative of Augustin and Orosius is consistent with the state of the war and the character of Stilicho. Confcious that he commanded the last army of the republic, his prudence would not expose it in the open field to the headstrong fury of the Germans. The method of furrounding the enemy with throng lines of circumvallation, which he had twice employed against the Gothic king, was repeated on a larger scale, and with more considerable effect. The examples of Cæfar must have been samiliar to the most illiterate of the Roman warriors; and the fortifications of Dyrrhachium, which connected 24 castles by a perpetual ditch and rampart of 1; miles, afforded the model of an intrenchment which might confine and starve the most numerous host of barbarians. The Roman troops had less degenerated from the industry than from the valour of their ancestors; and if the servile and laborious work offended the pride of the foldiers, Tuscany could supply many thousand peafants, who would labour, though perhaps they would not fight, for the falvation of their native country .-The imprisoned multitude of horses and men was gradually destroyed by famine, rather than by the fword; but the Romans were exposed, during the progress of fuch an extensive work, to the frequent attacks of an impatient enemy. The despair of the hungry barbarians would precipitate them against the fortifications of Stilicho; the general might femetimes indulge the ardour of his brave auxiliaries, who eagerly prefled to affault the camp of the Germans; and these various incidents might produce the fharp and bloody conflicts which dignify the narrative of Zosimus, and the Chronicles of Prosper and Marcellinus. A featonable supply of men and provisions had been introduced into the walls of Florence; and the familhed holt of Radagailus was in its turn befieged. The proud monarch of fo many warlike nations, after the lofs of his bravest warriors, was reduced to confide either in the faith of a capitulation, or in the elemency of Stilicho. But the death of the royal captive, who was ignominiously beheaded, difgraced the triumph of Rome and of Christianity; and the short delay of his execution was sufficient to brand the conqueror with the guilt of cool and deliberate cruelty. The famished Germans who escaped the fury of the auxiliaries were fold as flaves, at the contemptible price of as many fingle pieces of gold : but the difference of food and climate swept away great numbers of those unhappy strangers; and it was observed, that the inhuman purchasers, instead of reaping the fruit of their labous, were foon obliged to add to it the expence of interring

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them. Stilicho informed the emperor and the fenate of his fuccess; and deserved a second time the glorious

title of Deliverer of Italy.

"The fame of the victory, and more especially of the miracle, has encouraged a vain perfusion, that the whole army, or rather nation, of Germans, who migrated from the shores of the Baltic, miferably perilled under the walls of Florence. Such indeed was the fate of Radagaifus himfelf, of his brave and faithful companions, and of more than one-third of the various multitude of Sueves and Vandals, of Alani and Burgundians, who adhered to the standard of their general. The union of fuch an army might excite our furprife, but the causes of feveration are obvious and forcible; they were the pride of birth, the infolence of valour, the jealoufy of command, the impatience of subordination, and the obstinate conslict of opinions, of interests, and of pasfions, among fo many kings and warriors, who were Account of untaught to yield or to obey. After the defeat of Rathe remain dagailus, two parts of the German hoft, which must have exceeded the number of 100,000 men, still re-Radagarius, mained in arms between the Apennine and the Alps, or between the Alps and the Danube. It is uncertain whe-

ther they attempted to revenge the death of their general: but their irregular fury was foon diverted by the prudence and firmness of Stilicho, who opposed their march, and facilitated their retreat; who confidered the fafety of Rome and Italy as the great object of his care, and who facrificed with too much indifference the wealth and tranquillity of the diffant provinces. The barbarians acquired, from the junction of some Pannonian deferters, the knowledge of the country and of the roads; and the invalion of Gaul, which Alaric had defigned, was executed by the remains of the great army

of Radagaifus.

" Yet if they expected to derive any affiftance from the tribes of Germany who inhabited the banks of the Rhine, their hopes were disappointed. The Alemanni preserved a flate of inactive neutrality; and the Franks dittinguished their zeal and courage in the defence of the empire. In the rapid progress down the Rhine, which was the first act of the administration of Stilicho, he had applied himfelf with peculiar attention to fecure the alliance of the warlike Franks, and to remove the irreconcileable enemies of peace and of the republic. Marcomir, one of their kings, was publicly convicted before the tribunal of the Roman magistrate of violating the faith of treaties. He was sentenced to a mild, but diffant exile, in the province of Tufcany; and this degradation of the regal dignity was fo far from exciting the refentment of his subjects, that they punished with death the turbulent Sunno, who attempted to revenge his brother, and maintained a dutiful allegiance to the princes who were established on the throne by the choice of Stilicho. When the limits of Gaul and Germany were shaken by the northern emigration, the Franks bravely encountered the fingle force of the Vandals; who, regardless of the lessons of advertity, had again feparated their troops from the flandard of their barbarian allies. They paid the penalty of their rashness; and 20,000 Vandals, with their king Godigifelus, were flain in the field of battle. The whole people must have been extirpated, if the fquadrons of the Alani, advaneing to their relief, had not trampled down the infartry of the Franks; who, after an honourable refislance,

were compelled to relinquish the unequal contest. The Rome victorious confederates purfued their march; and on the last day of the year, in a season when the waters of the Rhine were most probably frozen, they entered without opposition the defenceless provinces of Gaul. This memorable passage of the Suevi, the Vandals, the Alani, and the Burgundians, who never afterwards retreated, may be confidered as the fall of the Roman empire in the countries beyond the Alps; and the barriers, which had fo long separated the favage and the civilized nations of the earth, were from that fatal moment levelled with the ground.

" While the peace of Germany was fecured by the

attachment of the Franks and the neutrality of the Alemanni, the subjects of Rome, unconscious of their approaching calamities, enjoyed a state of quiet and prosperity, which had seldom blessed the fromiers of Gaul. Their flocks and herds were permitted to graze in the pastures of the barbarians; their huntimen penetrated, without fear or danger, into the darkeft re-ceffes of the Hercynian wood. The banks of the Rhine were crowned, like those of the Tiber, with elegant houses and well cultivated farms; and if a poet descended the river, he might express his doubt on which fide was fituated the territory of the Romans. This fcene Gaulrayaof peace and plenty was fuddenly changed into a defert, ged by the and the profpect of the fmoking ruins could alone di-barbarians. ftinguish the folitude of nature from the defolation of man. The flourishing city of Mentz was surprised and destroyed; and many thousand Christians were inhumanly maffacred in the church. Worms perithed after a long and oblinate fiege: Strasburg, Spires, Rheims, Tournay, Aras, Amiens, experienced the cruel oppreffion of the German yoke; and the confuming ilames of war fpread from the banks of the Rhine over the greatest part of the 17 provinces of Gaul. That rich and extenfive country, as far as the ocean, the Alps, and the Pyrenees, was delivered to the barbarians, who drove before them, in a promiscuous crowd, the bithop, the fenator, and the virgin, laden with the spoils of their houses and altars."

In the midst of these calamities a revolt happened in Revolt of Britain, where one Constantine, a common foldier, was tine, whom raifed to the imperial throne, merely for the fake of his Hoperius name. However, he feems to have been a man ofacknowconfiderable abilities, and by no means unfit for the high ledges as dignity to which he was raised. He governed Britain his partner in the exwith great prosperity; passed over into Gaul and Spaintpire. the inhabitants of which submitted without opposition, being glad of any protector whatever from the barbarians. Honorius, incapable of defending the empire, or repressing the revolt, was obliged to acknowledge him for his partner in the empire. In the mean time. Alaric, with his Goths, threatened a new invalion unless he was paid a certain sum of morey. Stilicho is faid to have occasioned this demand, and to have intiffed upon fending him the money he demanded; and this was the cause of his difgrace and death, which happened foon after, with the extirpation of his family and friends. Nay, such was the general hatred of this un-Stillcho diffortunate minister, that the foldiers quartered in the ci-graced and ties of Italy no fooner heard of his death, than they put to death. murdered the wives and children of the barbarians whom Stilicho had taken into the fervice of Honorius. The enraged bulbands went over to Alaric, who made a

The Van-Franks.

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Rome- new demand of money; which not being readily feat, he land fiege to Rome, and would have taken it, had not the emperor complied with his demand. The ranfom of the city was 5000 pounds of gold, 30,000 of filver, 4000 filk garments, 3000 fishes dyed purple, and 3000 pounds of pepper. On this occasion the heathen temples were stripped of their remaining ornaments, and among others of the statue of Valour; which the pagans did not fail to interpret as a prefage of the speedy

ruin of the state.

Alaric having received this treasure, departed for a short time ; but foon after he again blocked up the city with a numerous army; and again an accommadation with Honorius was fet on foot. However, for some reafons which do not clearly appear, the treaty was broken off, Rome was a third time belieged, and at last taken and plundered. Alaric, when upon the point of breaking into the city, addressing his foldiers, told them, that all the wealth in it was theirs, and therefore he gave them full liberty to feize it; but at the same time he firstly enjoined them to shed the blood of none but fuch as they should find in arms; and above all, to spare those who should take fanctuary in the holy places, especially in the churches of the apostles St Peter and St Paul; which he named, because they were most spacious, and confequently capable of affording an alylum to great numbers of people, Having given these orders, he abandoned the city to his Goths, who treated it no better, according to St Jerome, than the Greeks are faid to have treated ancient Troy; for after having plundered it for the space of three, or, as others will have it, of fix days, they fet fire to it in feveral places; fo that the stately palace of Sallust, and many other magnificent buildings, were reduced to ashes; nay, Procopius writes, that there was not in the whole city one house left entire; and both St Jerome and Philostorgius affert, that the great metropolis of the empire was reduced to an heap of after and ruins. Though many of the Goths, pursuant to the orders of their general, refrained from shedding the blood of such as made no refistance; yet others, more cruel and blood-thirsty, massacred all they met: so that the streets in some quarters of the city were feen covered with dead bodies, and fwimming in blood. However, not the least injury was offered to those who fled to the churches; nay, the Goths themselves conveyed thither, as to places of safety, fuch as they were defirous should be spared. Many of the statues of the gods that had been left entire by the emperors as excellent pieces of art, were on this occafion destroyed, either by the Goths, who, though mostly Arians, were zealous Christians, or by a dreadful storm of thunder and lightning which fell at the same time upon the city, as if it had been fent on purpose to complete with them the destruction of idolatry, and abolish the small remains of pagan superstition. Notwithstanding these accounts, some affirm that the city fuffered very little at this time, and even not fo much as when it was taken by Charles V.

Alaric did not long furvive the taking of Rome, being cut off by a violent fit of fickness in the neighbourhood of Rhegium. After his death the affairs of Honorius feemed a little to revive by the defeat and death of Constantine and some other usurpers; but the provinces of Gaul, Britain, and Spain, were now almost entirely occupied by barbarians; in which state they continued that the worth of Honorius, which happened Rome. in the year 423, after an unfortunate reign of 28

After some usurpations which took place on the death of Honorius, his nephew Valentinian III. was declased emperor of the well, and his mother Placidia regent during his minority. He was scarce seated on the throne, when the empire was attacked by the Huns under the celebrated Aitila. The Romans, however, wretched and degenerate as they were, had they been unanimous, would even yet have been superior to their enemies. The empress then had two celebrated generals, Bonifacius and Actius; who by their union might have faved the empire : but unhappily, through the treachery of Actius, Bonifacius was obliged to revolt; and a civil war enfued, in which he loft his life. Actius, however, notwithstanding his treachery, was pardoned, and put at the head of the forces of the empire. He defended it against Attila with great spirit and success, notwithstanding the deplorable fituation of affairs, till he was murdered by Valentinian with his own hand, on a suspicion that he aspired to the empire. But in the mean time the provinces, except Italy itself, were totally overrun by the barbarians. Gentleric king of the Vandals ravaged Africa and Sicily; the Goths, Suevians, Burgundians, &c. had taken possession of Gaul and Spain; and the Britons were oppressed by the Scots and Picts, fo that they were obliged to call in the Saxons to their affiftance, as is related under the article ENGLAND. In the year 455, Valentinian was murdered by one Maximus, whose wife he had ravished. Maximus immediately assumed the empire; but felt fuch violent anxieties, that he defigned to refign it and thy out of Italy, in order to enjoy the quiet of a private life. However, being diffuaded from this by his friends, and his own wife dying foon after, he forced the empress Eudoxia to marry him. Eudoxia, who had tenderly loved Valentinian, provoked beyond meafure at being married to his murderer, invited Genferic king of the Vandals into Italy. This proved a most fatal scheme: for Genseric immediately appeared before Rome ; a violent tumult enfued, in which Blaximus Rome to loft his life; and the city was taken and plundered by ken and Genferic, who carried off what had been left by the a dered Goths. A veffel was loaded with coftly flatues; half the covering of the capitol, which was of brass plated over with gold; facred vessels enriched with precious flones; and those which had been taken by Titus out of the temple of Jerusalem; all of which were lost with

the veilel in its passage to Africa. Nothing could now be more deplorable than the flate of the Roman affairs : nevertheless, the empire continued to exist for some years longer; and even seemed to revive for a little under Marjorianus, who was declared emperor in 458. He was a man of great courage, and possessed of many other excellent qualities. He defeated the Vandals, and drove them out of Italy. With great labour he fitted out a fleet, of which the Romans had been long destitute. With this he design-ed to pass over into Africa; but, it being surprised and burnt by the enemy, he himself was soon after murdered by one Ricimer a Goth, who had long governed every thing with an absolute fway. After the death and of of Marjorianus, one Anthemius was raifed to the em-Ricimer. pire: but beginning to counteract Ricimer, the latter

Death of that conRome.

openly revolted, believed and took Rome; where he committed innumerable cruelties, among the relt putting to death the unhappy emperor Anthemius, and raifing one Olybius to the empire. The transactions of his reign were very lew, as he died foon after his accession. On his death, one Glycerius usurped the empire. He was deposed in 474, and one Julius Nepos had the name of emperor. He was driven out the next year by his general Orestes, who caused his son Auguflus or Augustulus to be proclaimed emperor. But the following year, 476, the barbarians who served in the Roman armies, and were distinguished with the title of allies, demanded, as a reward for their fervices, the third part of the lands in Italy; pretending, that the whole country, which they had so often defended, belonged of right to them. As Orestes refused to comply with this infolent demand, they refolved to do themselves justice, as they called it; and openly revolting, chose one Odoacer for their leader. Odoacer was, according to Ennodius, meanly born, and only a private man in the guards of the emperor Augustulus, when the barbarians revolting, chofe him for their leader. He is faid to have been a man of uncommon parts, equally capable of commanding an army and governing a state. Having left his own country when he was yet very young, to ferve in Italy, as he was of a flature remarkably tall, he was admitted among the emperor's guards, and continued in that station till the present year; when, putting himself at the head of the barbarians in the Roman pay, who, though of different nations, had, with one confent, chosen him for their leader, he marched against Orestes and his son Augustulus, who still refused to give them any share of the

lands in Italy. As the Roman troops were inferior, both in number and valour, to the barbarians, Orestes took refuge in Pavia, at that time one of the best fortified cities in Italy: but Odoacer, investing the place without loss of time, took it foon after by affault, gave it up to be plundered by the foldiers, and then fet fire to it; which reduced most of the houses, and two churches, to ashes, Orestes was taken prisoner, and brought to Odoacer. who carried him to Placentia, and there caused him to be put to death, on the 28th of August, the day on which he had driven Nepos out of Ravenna, and obliged him to abandon the empire. From Placentia, Odoacer marched ftraight to Ravenna, where he found Paul, the brother of Orestes, and the young emperor Augustulus. The former he immediately put to death; but sparing Augustulus, in consideration of his youth, he ftripped him of the enfigns of the imperial dignity, and confined him to Lucullanum, a castle in Campania; where he was, by Odoacer's orders, treated with great humanity, and allowed an handsome maintenance to support himself and his relations. Rome readily fubmitted to the conqueror, who immediately caused himself to be proclaimed king of Italy, but would not affume the purple, or any other mark of the imperial dignity. Thus failed the very name of an empire in the West. Britain had been long fince abandoned by the Romans; Spain was held by the Goths and Suevans; Africa, by the Vandals; the Burgundians, Goths, Franks, and Alans, had erected feveral tetrarchies in Gaul; at length Italy itself, with its proud metropolis, which for fo many ages had given law to the rest of the world, was enflaved by a contemptible Rome barbarian, whose family, country, and nation, are not well known to this day.

From this time. Rome has ceased to be the capital of an empire; the territories of the pope, to whom the city is now fubject, being inconfiderable. The origin of the pope's temporal power, and the revolutions of Italy, are related under the article ITALY; and a sketch of the spiritual usurpations of the popes may be seen under the articles HISTORY, fect. ii. and REFORMA-TION; and likewife under the various historical articles

as they occur in the course of this work. It is thought that the walls of modern Rome take Description

in nearly the same extent of ground as the ancient; but of moder the difference between the number of buildings on this fpot is very great, one half of modern Rome lying waste, or occupied with gardens, fields, meadows, and vineyards. One may walk quite round the city in three or four hours at most, the circumference being reckoned about 13 Italian miles. With regard to the number of the inhabitants, modern Rome is also greatly inferior to the ancient: for, in 1709, the whole of these amounted only to 138,568; among which were 40 bishops, 2686 priests, 3559 monks, 1814 nuns, 393 courtesans, about 8000 or 9000 Jews, and 14 Moors. In 1714, the number was increased to 143,000. In external fulendour, and the beauty of its temples and palaces, modern Rome is thought by the most judicious travellers to excel the ancient. There was nothing in ancient Rome to be compared with St Peter's church in the modern city. That Rome was able to recover itfelf after so many calamities and devastations, will not be matter of furprife, if we confider the prodigious fums that it has fo long annually drawn from all countries of the Popish persuasion. These sums, though still confiderable, have been continually decreasing since the Reformation. The furface of the ground on which Rome was originally founded is furprifingly altered. At prefent it is difficult to diffinguish the seven hills on which it was first built, the low grounds being almost filled up with the ruins of the ancient streets and houses, and the great quantities of earth washed down from the hills by the violence of the rains. Anciently the suburbs 'extended a vast way on all fides, and made the city appear almost boundless; but it is quite otherwise now, the country about Rome being almost a desert. To this and other causes it is owing, that the air is not very wholesome, especially during the summer heats, when sew go abroad in the day-time. No city at present in the world furpasses, or indeed equals, Rome, for the multiplicity of fine fountains, noble edifices, antiquities, curiofities, paintings, statues, and sculptures. The city stands on the Tiber, 10 miles from the Tulcan fea, 380 from Vienna, 560 from Paris, 740 from Amilerdam, 810 from London, and 900 from Madrid. The Tiber is subject to frequent inundations, by which it often does great da-mage. A fmall part of the city is separated from the other by the river, and is therefore called Travessere, or beyond the Tiber. There are several bridges over the river, a great number of towers on the walls, and 20 gates. The remains of Rome's ancient grandeur confut of statues, colossus, temples, palaces,

theatres, naumachias, triumphal arches, c'rcufes, co-

bure of the

empire.

Rome. mee or hot-baths, and other structures. Of modern buildings, the splendid churches and palaces are the most remarkable. Mr Addison says, it is almost impossible for a man to form in his imagination such beantiful and glorious fcenes as are to be met with in feveral of the Roman churches and chapels. This gentleman tells us also, that no part of the antiquities of Rome pleased him so much as the ancient statues, of which there is still an incredible variety. Next to the statues, he fays, there is nothing more furprising than the amazing variety of ancient pillars of so many kinds of marble. Rome is said to be well paved; but not well lighted, nor kept very clean. Two thirds of the houses are the property of the churches, convents, and alms houses. Protestants are not obliged to kneel at the elevation of the hoft, or at meeting the eucharift in the ffreets; and they may have flesh-meat always at the inns, even during Lent. Here are many academies for promoting arts and sciences, besides the university. The carnival here is only during the eight days before Lent, and there are no fuch scenes of riot as at Venice: profittutes, however, are publicly to-Icrated. To maintain good order, there is a body of 300 Sbirri, or Halberdeers, under their barigella, or colonel. There is little or no trade carried on in Rome, but a vast deal of money is spent by travellers and other strangers. The principal modern structures are the church of St Peter, and the other churches; the aqueducts and fountains; the Vatican, and the other palaces; the Campidolio, where the Roman fenate refides, &c. The principal remains of antiquity are the pila miliaria of fine marble; the equestrian brass statue of Marcus Aurelius Antoninus; the marble monument of the emperor Alexander Severus; marble builts of the emperors and their conforts; three brick arches of the temple of Peace, built by the emperor Vefpafian; the triumphal arch of Septimus Severus and of Gallienus; the circus of Antoninus Caracalla; fome parts of the cloaca maxima; the columna Antonina, representing the principal actions of Marcus Aurelius; the columna Trajani, or Trajan's pillar; fome fragments of the curia, or palace of Antoninus Pius, and of Nerva's forum; the maufoleum of Augustus, in the Strada Pontifici; the remains of the emperor Severus's tomb without St John's gate; the pyramid of Caius Cestius near St Paul's gate; the porphyry coffin of St Helen, and the original statue of Constantine the Great, in the church of St John of Lateran: a font of oriental granite, in the chapel of St Giovanni in fonte, faid to have been erected by Constantine the Great; an Egyptian obelifk near the church of St Maria Maggiore; the stately remains of Dioclesian's baths; the celebrated Pantheon; the obelifks of Sefostris and Augustus by the Clementine college; the church of St Paul fuori della Mura, faid to have been boilt by Constantine the Great; the Farnese Hercules, in white marble, of a colossal fize and exquisite workmanship, in a court of the Farnese palace, and an admirable group cut out of one block of marble, in another court of the fame palace. Besides these there are a great many more, which our bounds will not allow us to take any further notice of. Here is a great number of rich and well-regulated hospitals. Near the church of St Sebastiano alle Catacombe, are the most spacious of the catacombs, where the Chri-Vol. XVIII. Part I.

flians, who never burned their dead, and fuch of the Pagan Romans as could not afford the expence of burning, were buried. Along the Via Appia, without St Sebastian's gate, were the tombs of the principal families of Rome, which at prefent are used for cellars and flore-houses by the gardeners and vinedreffers.

Rome was entered, in February 1708, by the French, and in confequence of a tumult which enfued, when their general Duphot was killed, they deposed the pope, abolithed the papal government, and erected in its flead a republic, to which they gave the defignation of the Roman republic. They fent the pope himfelf to France, where he died on his various removals; they likewife fent away great numbers of the most valuable statues and paintings of antiquity, and compelled the inhabitants to pay heavy contributions. In the month of September 1700, the allies retook this city, and the new French government was overthrown. It was afterwards obliged to yield to the infatiable ambition of Bonaparte. as well as the whole of Italy, which now forms a conftituent part of his unwieldy dominions. See FRANCE and ITALY.

ROMNEY, a town of Kent in England. It is one of the cinque-port towns, and is feated on a marsh of the same name, famous for feeding cattle; but the air is very unhealthy. It was once a large and populous place, but the retiring of the sea has reduced it very much; it fends two members to parliament.

ROMORENTIN, is a finall town fituated on the river Saudre, in the territory of Blasois in France, famous for its woollen manufacture. It is faid to be a very ancient place; and the inhabitants pretend that Cæsar built a tower here, of which there are still some confiderable remains. They have a manufacture of ferge and cloth, which is used for the clothing of the

ROMPEE, or ROMPU, in Heraldry, is applied to ordinaries that are represented as broken; and to chevrons, bends, or the like, whose upper points are

ROMULUS, the founder and first king of Rome. See ROME, Nº 14.

RONCIGLIONE, is a town of Italy, in the Ecclefiaftic State, and Patrimony of St Peter, in E. Long. 13. N. Lat. 42. 12. It is a fmall place, but had a pretty good trade, and was one of the richest in the province, while it belonged to the dukes of Parma. which was till 1649, when Pope Innocent X. became mafter of it, and it has ever fince continued in the poffession of his successors.

RONDELETIA, a genus of plants belonging to the pentandria class, and in the natural method ranking with those of which the order is doubtful. See BOTANY Index.

RONA, one of the Hebrides islands, is reckoned about 20 leagues distant from the north-east point of Ness in Lewis-and is about a mile long, and half a mile broad. It has a hill in the west part, and is only vifible from Lewis in a fair fummer's day. There is a chapel in the island dedicated to St Ronan, fenced with a stone wall round it. This church the natives take care to keep very neat and clean, and fweep it every day. There is an altar in it, in which there lies a big plank of wood about 10 feet long. Every foot has a

Ronfard, hole in it, and in every hole is a stone, to which the natives ascribe several virtues; one of them is singular (as they fay) for promoting speedy delivery to a woman in travel. The inhabitants are extremely ignorant, and very superstitious. See Martin's Description.

RONSARD, PETER DE, a French poet, was born at the castle of Poissoniere in Vendomois in 1524. He was defcended of a noble family, and was educated at Paris in the college of Navarre. Academical purfuits not fuiting his genius, he left college, and became page to the duke of Orleans, who refigued him to James Stuart, king of Scots, married to Magdalene of France. Ronfard continued in Scotland with King James upwards of two years, and afterwards went to France, where he was employed by the duke of Orleans in feveral negociations. He accompanied Lazarus de Baif to the diet of Spires. Having from the conversation of this learned man imbibed a passion for the belles-lettres, he studied the Greek language with Baif's fon under Dorat. It is reported of Ronfard, that his practice was to fludy till two o'clock in the morning; and when he went to bed, to awaken Baif, who refumed his place. The mufes poffessed in his eyes an infinity of charms; and he cultivated them with fuch fuccefs, that he acquired the appellation of the Prince of the Poets of his time. Henry II. Francis II. Charles IX. and Henry III. loaded him with favours. Having gained the first prize of the Jeux Floraux, they thought the reward promifed below the merit of the work, and the reputation of the poet. The city of Toulouse caused a Minerva of massly filver of considerable value to be made and fent to him. This present was accompanied with a decree, declaring him The French Poet, by way of distinction. Ronfard afterwards made a prefent of his Minerva to Henry II. and this monarch appeared as much elated with this mark of the poet's eiteem for him, as the poet himself could have been had he received the present from his fovereign. Mary, the beautiful and unfortunate queen of Scots, who was equally fensible of his merit with the Toulonese, gave him a very rich fet of table-plate, among which was a veffel in the form of a rofe-bush, reprefenting Mount Parnaffus, on the top of which was a Pegalus with this infcription :

A Ronfard, l'Apollon de la fource des mufes.

From the above two anecdotes of him may eafily be inferred the reputation in which he was held, and which he continued to keep till Malherbe appeared. His works poffess both invention and genius; but his affectation of everywhere thrusting in his learning, and of forming words from the Greek, the Latin, and the different provincialisms of France, has rendered his versifieation disagreeable and often unintelligible.

Ronfard, dit Despréaux, par une autre méthode, Reglant tout, brouilla tout, fit un art à sa mode; Et toutefois long temps eut un heureux defin; Mais sa muse, en François parlant Grec et Latin, Vit dans l'age suivant, par un retour grotesque, Tomber de ses grands mots le faste pédantesque.

He wrote hymns, odes, a poem called the Franciad, eclogues, epigrams, fonnets, &c. In his odes he takes bembast for poetical raptures. He wishes to imitate Pindar-; and by labouring too m ch for lofty expreftions, he loses himself in a cloud of words. He is ob-

foure and harsh to the last degree; faults which he Ronfard. might easily have avoided by studying the works of Marot, who had before he wrote brought French poetry very near to perfection. "Marot's turn and ftyle of composition are such (says Bruyere), that he seems to have written after Ronfard : there is hardly any difference, except in a few words, between Marot and us. Ronfard, and the authors his contemporaries, did more differvice than good to ftyle : they checked its course in the advances it was making towards perfection, and had like to have prevented its ever attaining it. It is furprifing that Marot, whose works are so natural and easy, did not make Ronfard, who was fired with the strong enthusiasm of poetry, a greater poet than either Ronlard or Marot." Eut what could be expected from a man who had fo little tafte, that he called Marot's works 'a dungbill, from which rich grains of gold by industrious working might be drawn?' As a specimen of our author's intolerable and ridiculous affectation of learning, which we have already censured, Boileau cites the following verse of Ronfard to his mistress: Estesvous pas ma feule entelechie ? ' are not you my only entelechia?' Now entelechia is a word peculiar to the peripatetic philosophy, the sense of which does not appear to have ever been fixed. Hermolaus Barbarus is faid to have had recourse to the devil, in order to know the meaning of this new term used by Aristotle; but he did not gain the information he wanted, the devil, probably to conceal his ignorance, speaking in a faint and whif-pering fort of voice. What could Ronsard's mistress therefore, or even Ronfard himfelf, know of it; and, what can excuse in a man of real genius the low affectation of using a learned term, because in truth nobody could understand it. He has, however, some pieces not destitute of real merit; and there are perhaps few effufions of the French muse more truly poetical than his Four Seasons of the Year, where a most fertile imagination displays all its riches.

Ronfard, though it is doubtful whether he ever was in orders, held feveral benefices in commendam; and he died at Saint-Cosme-les-Tours, one of these, December 27. 1585, being then 61 years of age. He appeared more ridiculous as a man than as a poet : he was particularly vain. He talked of nothing but his family and his alliances with crowned heads. In his panegyrics, which he addresses to himself without any ceremony, he has the vanity to pretend, that from Ronfard is derived the word Rofignol, to denote both a mufician and a poet together. He was born the year after the defeat of Francis I. before Pavia: "Just as heaven (said he) wished to indemnify France for the losses it had sustained at that place." He blushed not to tell of his intrigues. All the ladies fought after him; but he never faid that any of them gave him a denial of their favoure. His immoderate indulgence in pleasure, joined to his literary labours, served to hasten his old age. In his 50th year he was weak and valetudinary, and subject to attacks of the gout. He retained his wit, his vivacity, and his readinels at poetic composition, to his last moments. Like all those who aspire after public esteem, he had a great number of admirers and some enemies. Though Melin de Saint-Gelais railed at him continually, Rabelais was the person whom he most dreaded. He took always care to inform himfelf where that joviel rector of Meudon went, that he might not be found in

Rood, Roof. # See Pe-

ron.

kinds of

roofs.

the same place with him. It is reported that Voltaire acted a similar part with regard to Peron \*, of whose extemporary fallies and bon mots he was much afraid. Ronfard's poems appeared in 1 567 at Paris in 6 vols 4to, and in 1601 in 10 vols 12mo.

ROOD, a quantity of land equal to 40 fquare perch-

es, or the fourth part of an acre.

ROOF, expresses the covering of a house or building, Definition. by which its inhabitants or contents are protected from the injuries of the weather. It is perhaps the effential part of a house, and is frequently used to express the whole. To come under a person's roof, is to enjoy his protection and fociety, to dwell with him. Teclum was used in the same sense by the Romans. To be within our walls rather expresses the being in our postession: a roof therefore is not only an 'effential part of a house, but it even feems to be its characteristic feature. The Strictures Greeks, who have perhaps excelled all nations in taffe, and who have given the most perfect model of architectonic ordonnance within a certain limit, never erected a building which did not exhibit this part in the diffincteft manner; and though they borrowed much of their model from the orientals, as will be evident to any who compares their architecture with the ruins of Persepolis, and of the tombs in the mountains of Schiras, they added that form of roof which their own climate taught them was necessary for sheltering them from the rains. The roofs in Persia and Arabia are flat, but those of Greece are without exception floping. It feems therefore a groß violation of the true principles of taste in architecture (at least in the regions of Europe), to take away or to hide the roof of a house; and it must be ascribed to that rage for novelty which is fo powerful in the minds of the rich. Our succestors feemed to be of a very different opinion, and turned their attention to the ornamenting of their roofs as much as any other part of a building. They showed them in the most conspicuous manner, running them up to a great height, broke them into a thousand fanciful shapes, and stuck them full of highly dreffed windows. We laugh at this, and call it Gothic and clumfy; and our great architects, not to offend any more in this way, conceal the roof altogether by parapets, balustrades, and other contrivances. Our foresathers certainly did offend against the maxims of true taste, when they enriched a part of a bouse with marks of elegant habitation, which every feetator muit know to be a cumbersome garret: but their successors no less offend, who take off the cover of the house altogether, and make it impossible to know whether it is not a mere fkreen or colonnade we are looking at.

We cannot help thinking that Sir Christopher Wren Sir Christo- erred when he so industriously concealed the roof of St Paul's church in London. The whole of the upper orof St Paul's der is a mere fereen. Such a quantity of wall would London. have been intolerably offensive, had he not given it some appearance of habitation by the mock windows or niches. Even in this state it is gloomy, and it is odd, and is a puzzle to every spectator-There should be no puzzle in the defign of a building any more than in a discourse. It has been faid that the double roof of our great churches which have aitles is an incongruity, looking like a house standing on the top of another house. But there is not the least occasion for such a thought. We know that the aifle is a shed, a cloister.

Suppose only that the lower roof or shed is hidden by

a balustrade, it then becomes a portico, against which Rook the connoisseur has no objection: yet there is no difference; for the portico must have a cover, otherwise it is neither a flied, cloifter, nor portico, any more than a building without a roof is a house. A house without a visible roof is like a man abroad without his hat; and we may add, that the whim of concealing the chimneys, now fo fashionable, changes a house to a barn or storehouse. A house should not be a copy of any thing. It has a title to be an original; and a screen-like house and a pillar-like candleftick are fimilar folccifms in

The architect is anxious to prefent a fine object, and Little ata very fimple outline discusses all his concerns with the tention roof. He leaves it to the carpenter, whom he frequent paid by ly puzzles (by his arrangements) with coverings almost to this part impossible to execute. Indeed it is feldom that the idea of a build of a roof is admitted by him into his great compositions; ingor if he does introduce it, it is from mere affectation. and we may fay pedantry. A pediment is frequently fluck up in the middle of a grand front, in a fituation where a roof cannot perform its office; for the rain that is supposed to flow down its sides must be received on the top of the level buildings which flank it. This is a manifest incongruity. The tops of dressed windows, triffing porches, and fometimes a projecting portico, are the only fituations in which we fee the figure of a roof correspond with its office. Having thus lost fight or the principle, it is not furprifing that the draughtimen (for he should not be called architect) runs into every whim: and we fee pediment within pediment, a round pediment, a hollow pediment, and the greatest of all abfurdities, a broken pediment. Nothing could ever reconcile us to the fight of a man with a hat without its crown, because we cannot overlook the use of a

But when one builds a house, ornament alone will Advantage not do. We must have a cover; and the enormous ex-of a land pence and other great inconveniences which attend the pitched concealment of this cover by parapets, balustrades, and roof. forcens, have obliged architects to confider the pent roof as admissible, and to regulate its form. Any man of fense, not under the influence of projudice, would be determined in this by its fitnels for answering its purpose. A high-pitched roof will undoubtedly shoot off the rains and shows better than one of a lower pitch. The wind will not fo eafily blow the dropping rain in between the flates, nor will it have fo much power to flrip them off. A high-pitched roof will exert a fmaller thrust on the walls, both because its strain is less horizontal, and because it will admit of lighter covering. But it is more expensive, because there is more of it. It requires a greater fize of timbers to make it equally strong, and it exposes a greater surface to the wind.

There have been great changes in the pitch of roofs ; Remarks our forefathers made them very bigh, and we make them on the very low. It does not, however, appear, that this changes in change has been altogether the effect of principle. In the pitch of the simple unadorned habitations of private persons, every thing comes to be adjusted by an experience of inconveniences which have refulted from too low pitched roofs; and their pitch will always be nearly fuch as fairs the climate and covering. Our architects, however, go to work on different principles. Their pro-

Error of

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felled

felled aim is to make a beautiful object. The fources of the pleafores arising from what we call taffe are io various, fo complicated, and even fo whimfical, that it is almost in vain to look for principle in the rules adopted by our professed architects. We cannot help thinking, that much of their practice refults from a pedantic veneration for the beautiful productions of Grecian architecture. Such architects as have written on the principles of the art in respect of proportions, or what they call the ORDONNANCE, are very much puzzled to And of the make a chain of reasoning; and the most that they have made of the Greek architecture is, that it exhibits chitecture a nice adjustment of strength and strain. But when we confider the extent of this adjustment, we find that it is wonderfully limited. The whole of it confits of a basement, a column, and an entablature; and the entablature, it is true, exhibits fomething of a connection with the framework and roof of a wooden building; and we believe that it really originated from this in the hands of the orientals, from whom the Greeks certainly borrowed their forms and their combinations. We could eafily show in the ruins of Persepolis, and among the tombs in the mountains (which were long prior to the Greek architecture), the fluted column, the base, the Ionic and Corinthian capital, and the Doric arrangement of lintels, beams, and rafters, all derived from unquestionable principle. The only addition made by the Greeks was the pent roof; and the changes made by them in the subordinate forms of things are such as we should expect from their exquisite judgement of

> But the whole of this is very limited; and the Greeks, after making the roof a chief feature of a house, went no farther, and contented themselves with giving it a flope fuited to their climate. This we have followed, because in the milder parts of Europe we have no cogent reason for deviating from it; and if any architect should deviate greatly in a building where the outline is exhibited as beautiful, we should be disgusted; but the difgust, though felt by almost every spectator, has its origin in nothing but habit. In the professed architect or man of education, the difgust arises from pedantry: for there is not such a close connection between the form and uses of a roof as shall give precise determinations;

> and the mere form is a matter of indifference. We should not therefore reprobate the high-pitched roofs of our ancestors, particularly on the continent. It is there where we see them in all the extremity of the fashion, and the taste is by no means exploded as it is with us. A baronial castle in Germany and France is feldom rebuilt in the pure Greek style, or even like the modern houses in Britain; the high-pitched roofs are retained. We should not call them Gothic, and noly because Gothic, till we show their principle to be false or tasteless. Now we apprehend that it will be found quite the reverse; and that though we cannot bring ourselves to think them beautiful, we ought to think them fo. The construction of the Greek architecture is a transference of the practices that are necessary in a wooden building to a building of stone. To this the Greeks have adhered, in spite of innumerable difficulties. Their marble quarries, however, put it in their power to retain the proportions which habit had rendered agreeable. But it is next to impossible to adhere to these proportions with freestone or brick, when the or

der is of magnificent dimensions. Sir Christopher Wres. faw this; for his mechanical knowledge was equal to his tatte. He composed the front of St Paul's church in London of two orders, and he coupled his columns: and still the lintels which form the architrave are of such length that they could carry no additional weight, and he was obliged to trus them behind. Had he made but one order, the architrave could not have carried its own weight. It is impossible to execute a Doric entablature of this fize in brick. It is attempted in a very noble front, the Academy of Arts in St Petersbugh. But the architect was obliged to make the mutules and other projecting members of the corniche of granite, and many of them broke down by their own weight.

Here is furely an error in principle. Since stone is and the efthe chief material of our buildings, ought not the mem-fect of our bers of ornamented architecture to be refinements on using stone, the offential and unaffected parts of a fimple stonebuilding. There is almost as much propriety in the architecture of India, where a dome is made in imitation of a lily or other flower inverted, as in the Greek imitation of a wooden building. The principles of masonry, and not of carpentry, should be feen in our architecture, if we would have it according to the rules of just taste. Now we affirm that this is the characteristic feature of what is called the Gothic architecture. In this no dependence is had on the transverse strength of stone. No lintels are to be seen; no extravagant projections. Every stone is pressed to its neighbours, and none is exposed to a transverse strain. The Greeks were enabled to execute their coloffal buildings only by using immense blocks of the hardest materials. The Norman malon could raife a building to the fkies without using a stone which a labourer could not carry to the top on his back. Their architects studied the principles of equilibrium; and having attained a wonderful knowledge of it, they indulged themselves in exhibiting remarkable instances. We call this false taste, and say that the appearance of insecurity is the greatest fault. But this is owing to our habits: our thoughts may be faid to run in a wooden train, and certain fimple maxims of carpentry are familiar to our imagination; and in the careful adherence to these consists the beauty and symmetry of the Greek architecture. Had we been as much habitnated to the equilibrium of preffure, this apparent infecurity would not have met our eye; we would have perceived the ffrength, and we should have relished the ingenuity.

The Gothic architecture is perhaps intitled to the Rational name of rational architecture, and its beauty is founded nature of on the characteristic distinction of our species. It de-the Gothic ferves cultivation: not the pitiful, fervile, and un-ture. skilled copying of the monuments; this will produce incongruities and abfurdities equal to any that have crept into the Greek architecture: but let us examine with attention the nice disposition of the groins and spaundrels; let us study the tracery and knots, not as ornaments, but as useful members; let us observe how they have made their walls like honey-combs, and admire their ingenuity as we pretend to admire the inftinct infused by the great Architect into the bee. All this cannot be understood without mechanical knowledge; a thing which few of our professional architects have any share of. Thus would architectonic taste be a mark of skill; and the person who presents the defign of a build-

Difference between Greeks and

modern

roofs;

Greek ar-

of there.

Roof, ing would know how to execute it, without committing it entirely to the mafon and carpenter

These observations are not a digression from our subject. The same principles of mutual pressure and equilibrium have a place in roofs and many wooden edifices; and if they had been as much fludied as the Normans and Saracens feem to have fludied fuch of them as were applicable to their purposes, we might have produced wooden buildings as far superior to what we are familiarly acquainted with, as the bold and wonderful churches still remaining in Europe are superior to the timid productions of our stone architecture. The ceintres used in building the bridge of Orleans and the corn-market of Paris, are late inflances of what may be done in this way. The last mentioned is a dome of 200 feet diameter, built of fir planks; and there is not a piece of timber in it more than nine feet long, a foot

broad, and three inches thick. The Nor-

The Norman architects frequently roofed with stone. man archi-Their wooden roofs were in general very fimple, and tests often their professed aim was to dispense with them altogether. Fond of their own science, they copied nothing from a wooden building, and ran into a fimilar fault with the ancient Greeks. The parts of their buildings which were necessarily of timber were made to imitate stone-buildings; and Gothic ornament consists in cramming every thing full of arches and spaundrels. Nothing else is to be feen in their timber works, nay even in their feulpture. Look at any of the maces or fceptres ftill to be found about the old cathedrals; they

are filver fleeples. But there appears to have been a rivalship in old times between the majons and the carpenters. Many of the baronial halls are of prodigious width, and are toofed with timber: and the carpenters appeared to have borrowed much knowledge from the masons of those times, and their wide roofs are frequently confirmeted with great ingenuity. Their aim, like the mafons, was to throw a roof over a very wide building without employing great logs of timber. We have feen roofs 60 feet wide, without having a piece of timber in it above 10 feet long and 4 inches fquare. The Parliament House and Tron-Church of Edinburgh, and the great hall of Tarnaway castle near Forres, are specimens of those roofs. They are very numerous on the continent. Indeed Britain retains few monuments of private magnificence. Ariflocratic state never was fo great with us; and the rancour of our civil wars gave most of the performances of the carpenter to the flames. Westminster hall exhibits a specimen of the salse taste of the Norman roofs. It contains the effential parts indeed, very properly disposed; but they are hidden, or intentionally covered, with what is conceived to be ornamental; and this is an imitation of stone arches, crammed in between flender pillars which hang down from the principal frames, truffes, or rafters. In a pure Norman roof, fuch as Tarnaway hall, the effential parts are exhibited as things understood, and therefore relished. They are refined and ornamented; and it is here that the inferior kind of tafte or the want of it may appear. And here we do not mean to defend all the whims of our ancestors; but we affert that it is no more necessary to confider the members of a roof as things to be concealed like a garret or privy, than the members of a ceiling, which form the most beautiful part of the

Greek architesture. Should it be faid that a roof is -Roof. only a thing to keep off the rain, it may be answered, that a ceiling is only to keep off the dut, or the floor to be trodden under foot, and that we should have neither confirments in the one nor inlaid work or carpets on the other. The flructure of a roof may therefore be exhibited with propriety, and made an ornamental feature. This has been done even in Italy. The church of St Maria Maggiore in Rome and feveral others are specimens: but it must be acknowledged, that the forms of the principal frames of these roots, which resemble those of our modern buildings, are very unfit for agrecable ornament. As we have already observed, our imaginations have not been made fufficiently familiar with the principles, and we are rather alarmed than pleafed with the appearance of the immente logs of timber which form the couples of these roofs, and hang over our heads with every appearance of weight and danger. It is quite otherwife with the ingenious roofs of the German and Norman architects. Slender timbers, interlaced with great fymmetry, and thrown by necessity into figures which are naturally pretty, form altogether an object which no carpenter can view without pleasure. And why should the gentleman refuse himself the same pleafure of beholding scientific ingenuity?

The roof is in fact the part of the building which Necessity requires the greatest degree of faill, and where science ficience will be of more service than in any other part. The roots; architect feldom knows much of the matter, and leaves the task to the carpenter. The carpenter considers the framing of a great roof as the touchitone of his art; and nothing indeed tends fo much to thow his judgement and

his fertility of refource.

It must therefore be very acceptable to the artist to have a clear view of the principles by which this difficult problem may be folved in the best manner, fo that the roof may have all the streng h and security that can be wished for, without an extravagant expence of timber and iron. We have faid that mechanical fcience can give great affiftance in this matter. We may add that the framing of carpentry, whether for roofs, floors, or any other purpole, affords one of the most elegant and most satisfactory applications which can be made of mechanical science to the arts of common life. Un-and the fortunately the practical artift is feldom poffeffed even little atof the finall portion of science which would almost in-thesto paid fure his practice from all risk of failure; and even our to it. most experienced carpenters have feldom any more knowledge than what arises from their experience and natural fagacity. The most approved author in our language is Price in his British Carpenter. Mathurin Jouffe is in like manner the author most in repute in France; and the publications of both these authors are void of every appearance of principle. It is not uncommon to fee the works of carpenters of the greatest reputation tumble down, in confequence of mistakes from which the most elementary knowledge would have faved

We shall attempt, in this article, to give an account Purpose of the leading principles of this art in a manner fo fami-of this arliar and palpable, that any person who knows the common ticle. properties of the lever, and the composition of motion, shall so far understand them as to be able, on every occasion, so to dispose his materials, with respect to the ftrains to which they are to be exposed, that he shall

Effects of the rivalthip between the majons and carpenters of ancient times.

ftone.

always know the effective firain on every piece, and shall, in most cases, be able to make the disposition such as to derive the greatest possible advantage from the materials which he employs.

Principtes ftrength of rials.

It is evident that the whole must depend on the principles which regulate the ftrength of the materials, relative to the manner in which this strength is exerted and the manner in which the strain is laid on the piece of matter. With respect to the first, this is not the proper place for confidering it, and we must refer the reader to the article STRENGTH of Materials in Mechanics. We shall just borrow from that article two

or three propositions suited to our purpose.

The force with which the materials of our edifices, roofs, floors, machines, and framings of every kind, refift being broken or crushed, or pulled afunder, is, immediately or ultimately, the cohesion of their particles. When a weight hangs by a rope, it tends either immediately to break all the fibres, overcoming the cohesion among the particles of each, or it tends to pull one parcel of them from among the rest, with which they are joined. This union of the fibres is brought about by fome kind of gluten, or by twifting, which causes them to bind each other fo hard that any one will break rather than come out, fo much is it withheld by friction. The ultimate refistance is therefore the cohefion of the fibre; the force or strength of all fibrous materials, fuch as timber, is exerted in much the same manner. The fibres are either broken or pulled out from among the rest. Metals, stone, glass, and the like, resist being pulled asunder by the simple cohesion of their parts.

The force which is necessary for breaking a rope or wire is a proper measure of its strength. In like manner, the force necessary for tearing directly asunder any rod of wood or metal, breaking all its fibres, or tearing them from among each other, is a proper measure of the united strength of all these fibres. And it is the simplest strain to which they can be exposed, being just equal to the fum of the forces necessary for breaking or difengaging each fibre. And, if the body is not of a fibrous structure, which is the case with metals, stones, glass, and many other substances, this force is still equal to the simple sum of the cohesive forces of each particle which is separated by the fracture. Let us diftinguish this mode of exertion of the cohesion of the body by the name of its AB-

SOLUTE STRENGTH.

When folid bodies are, on the contrary, exposed to great compression, they can resist only a certain degree. A piece of clay or lead will be fqueezed out; a piece of freeftone will be crushed to powder; a beam of wood will be crippled, fwelling out in the middle, and its fibres lose their mutual cohefion, after which it is eafily crushed by the load. A notion may be formed of the manner in which these strains are resisted by conceiving a cylindrical pipe filled with fmall shot, well fhaken together, fo that each fphericle is lying in the closest manner possible, that is, in contact with fix others in the same vertical plane (this being the position in which the shot will take the least room). Thus each touches the rest in fix points: Now suppose them all united, in these fix points only, by some cement. This affemblage will flick together and form a cylindrical pillar, which may be taken out of its mould. Sup-

pofe this pillar standing upright, and loaded above, The fupports arising from the cement act obliquely. and the load tends either to force them afunder laterally, or to make them flide on each other; either of thele things happening, the whole is crushed to nieces, The relitance of fibrous materials to fuch a strain is a little more intricate, but may be explained in a way very fimilar.

A piece of matter of any kind may also be destroyed by wrenching or twitting it. We can eafily form a notion of its reliftance to this kind of ftrain by confidering what would happen to the cylinder of fmall fhot

if treated in this way.

And lastly, a beam, or a bar of metal, or piece of stone or other matter, may be broken transversely. This will happen to a rafter or joift supported at the ends when overloaded, or to a beam having one end fluck fast in a wall and a load laid on its projecting part. This is the strain to which materials are most commonly exposed in roofs; and, unfortunately, it is the strain which they are the least able to bear; or rather it is the manner of application which causes an external force to excite the greatest possible immediate strain on the particles. It is against this that the carpenter must chiefly guard, avoiding it when in his power, and in every case, diminishing it as much as possible. It is necessary to give the reader a clear no- Their tion of the great weakness of materials in relation weakness to this transverse strain. But we shall do nothing in relation to transmore, referring him to the articles STRAIN, STRESS, verfe

and STRENGTH. Let ABCD (fig. 1.) represent the fide of a beam pro-

jecting horizontally from a wall in which it is firmly ccccuxillefixed, and let it be loaded with a weight W appended to its extremity. This tends to break it; and the least reflection will convince any person that if the beam is equally strong throughout, it will break in the line CD, even with the furface of the wall. It will open at D, while C will ferve as a fort of joint, round which it will turn. The crofs fection through the line CD is, for this reason, called the fection of fracture, and the horizontal line, drawn through C on its under furface, is called the axis of fracture. The fracture is made by tearing afunder the fibres, fuch as DE or FG. Let us suppose a real joint at C, and that the beam is really fawed through along CD, and that in place of its natural fibres threads are substituted all over the section of fracture. The weight now tends to break these threads; and it is our business to find the force necessary for this

purpose. It is evident that DCA may be confidered as a bended lever, of which C is the fulcrum. If f be the force which will just balance the cohesion of a thread when hung on it to that the fmallest addition will break it; we may find the weight which will be fufficient for this purpose when hung on at A, by faying, AC : CD =f: \phi, and \phi will be the weight which will just break the thread, by hanging o by the point A. This gives us  $\phi = f \times \frac{CD}{CA}$ . If the weight be hung on at a, the

force just fufficient for breaking the same thread will be  $= f \frac{\text{CD}}{\text{C} a}$ . In like manner the force  $\varphi$ , which must be

hung on at A in order to break an equally frong or an

fo on of all the reft.

If we suppose all the fibres to exert equal resistances at the instant of fracture, we know, from the simplest elements of mechanics, that the relistance of all the particles in the line CD, each acting equally in its own place, is the fame as if all the individual refittances were united in the middle point g. Now this total refistance is the resistance or strength f of each particle, multiplied by the number of particles. This number may be expressed by the line CD, because we have no reason to suppose that they are at unequal distances. Therefore, in comparing different fections together, the number of particles in each are as the fections themselves. Therefore DC may represent the number of particles in the line DC'. Let us call this line the depth of the beam, and express it by the symbol d. And fince we are at present treating of roofs whose rafters and other parts are commonly of uniform breadth, let us call AH or BI the breadth of the beam, and express it by b, and let CA be called its length, /. We may now express the strength of the whole line CD by fxd, and we may suppose it all concentrated in the middle point g. Its mechanical energy, therefore, by which it refifts the energy of the weight w, applied at the distance /, is f. CD. Cg, while the momentum of w is w. CA. We must therefore have f. CD. Cg=w. CA, or fd. 1 d =w. 1, and  $fd: w=1:\frac{1}{2}d$ , or fd: w=21:d. That is, twice the length of the beam is to its depth as the absolute strength of one of its vertical planes to its relative strength, or its power of refisting this transverse fracture.

equally refiffing fibre at F, must be  $=f \times \frac{CF}{CA}$ . And

It is evident, that what has been now demonfrated of the refilance exerted in the line CD, is equally true of every line parallel to CD in the thickness or breadth of the beam. The absolute strength of the whole section of fracture is properly represented by f.d.b, and we fill have 2I: d=fdb: w; or twice the length of the beam is to its depth as the absolute flrength to the relative strength. Suppose the beam 12 feet long and one foot deep; then whatever be its absolute strength, the 24th part of this will break it if hung at its extremity.

But even this is too favourable a statement; all the fibres are supposed to act alike in the instant of fracture. But this is not true. At the inflant that the fibre at D breaks, it is stretched to the utmost, and is exerting its whole force. But at this instant the fibre at g is not fo much stretched, and it is not then exerting its utmost force. If we suppose the extension of the fibres to be as their distance from C, and the actual exertion of each to be as their extensions, it may easily be shown (see STRENGTH and STRAIN), that the whole refiftance is the same as if the full force of all the fibres were united at a point r distant from C by one-third of CD. In this case we must sav, that the absolute strength is to the relative strength as three times the length to the depth; fo that the beam is weaker than by the former flatement in the proportion of two to three.

Even this is more flrength than experiment justifies; and we can see an evident reason for it. When the beam is strained, not only are the upper fibres fretched, but the lower fibres are compressed. This is very di-

flinctly feen, if we attempt to breakes piece of gork cut into the shape of a beam : this being the case, C is not the centre of fracture. There is some point e which lies between the fibres which are firetched and those that are compressed. This fibre is neither firetched nor fqueezed; and this point is the real centre of fracture: and the lever by which a fibre D refifts, is not DC, but a shorter one De; and the energy of the whole resistances must be less than by the second statement. Till we know the proportion between the dilatability and compressibility of the parts, and the relation between the dilatations of the fibres and the refittances which they exert in this state of dilatation, we cannot positively fav where the point c is fituated, nor what is the fum of the actual relitances, or the point where their action may be supposed concentrated. The firmer woods, such as oak and chefnut, may be supposed to be but slightly compressible; we know that willow and other soft woods are very compressible. These last must therefore be weaker: for it is evident, that the fibres which are in a state of compression do not resist the fracture. It is well known, that a beam of willow may be cut through from C to g without weakening it in the leaft, if the cut be filled up by a wedge of hard wood fluck in.

We can only fay, that very found oak and red fin have the centre of effort fo fituated, that the abfolute flrength is to the relative flrength in a proportion not lefs than that of three and a half times the length of the beam to its depth. A fquare inch of found oak will carry about 8000 pounds. If this bar be firmly fixed in a wall, and project 12 inches, and be loaded at the extremity with 200 pounds, it will be broken. It will just bear 190, its relative flrength being grad for its abfolute flrength; and this is the case only with the finest pieces, so placed that their annual plates or layers are in a vertical position. A larger log is not so fist from transversely, because its plates lie in various directions round the heart.

These observations are enough to give us a distinct Practical notion of the vast diminution of the strength of timber interesce. when the strain is across it; and we see the justice of the maxim which we inculcated, that the carpenter, in framing roofs, should avoid as much as possible the expofing his timbers to transverse strains. But this cannot be avoided in all cases. Nay, the ultimate strain, arising from the very nature of a roof, is transverse. The rafters must carry their own weight, and this tends to break them across: an oak beam a foot deep will not carry its own weight if it project more than 60 feet. Belides this, the rafters must carry the lead, tyling, or slates. We must therefore consider this transverse strain a little more particularly, so as to know what strain will be laid on any part by an unavoidable load, laid on either at that part or at any other. We have hitherto supposed, that the beam had one Effect when

of its ends fixed in a wall, and that it was loaded at the beams are other end. This is not an ufual arrangement, and was efficient taken merely as affording a fimple application of the "disaded mechanical principles. It is much more ufual to have in the mediant became the beam imported at the ends, and loaded in the tends, and loaded in the middle. Let the beam I EGH (fig. 2.) reft on the props E and G, and be loaded at its middle point G with a weight W. It is required to determine the ftrain at the fection CD? It is plain that the term will receive the fame furport, and luffer the fame furport, if

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instead of the blocks E and G, we substitute the ropes Efe, Ghg, going over the pulleys f and g, and loaded with proper weights e and g. The weight e is equal to the support given by the block E; and g is equal to the support given by G. The sum of e and g is equal to W; and, on whatever point W is hung, the weights e and g are to W in the proportion of DG and DE to GE. Now, in this state of things, it appears that the strain on the section CD arises immediately from the upward action of the ropes Ff and Hh, or the upward pressions of the blocks E and G; and that the office of the weight W is to oblige the beam to oppose this strain. Things are in the same state in respect of strain as if a block were substituted at D for the weight W, and the weights e and g were hung on at E and G; only the directions will be opposite. The beam tends to break in the fection CD, because the ropes pull it upwards at E and G, while a weight W holds it down at C. It tends to open at D, and C becomes the centre of fracture. The strain therefore is the same as if the half ED were fixed in the wall, and a weight equal to g, that is, to the half of W, were hung on at G.

Hence we conclude, that a beam supported at both ends, but not fixed there, and loaded in the middle, will carry twice as much weight as it can carry at its extremity, when the other extremity is fast in a wall.

The strain occasioned at any point L by a weight W, hung on at any other point D, is = W X  $\frac{DE}{EG} \times LG$ . For EG is to ED as W to the preffure occasioned at G. This would be balanced by some weight g acting over the pulley h; and this tends to break the beam at L, by acting on the lever GL. The pressure at G is W. DE, and therefore the strain at L

In like manner, the strain occasioned at the point D by the weight W hung on there, is W  $\frac{DE}{EG} \times DG$ ; which is therefore equal to 1 W, when D is the middle

Hence we see, that the general strain on the beam arising from one weight, is proportionable to the rectangle of the parts of the beam, (for  $\frac{W.DE.DG}{FG}$  is as DE.DG), and is greatest when the load is laid on the middle of the beam.

We also see, that the strain at L, by a load at D, is equal to the strain at D by the same load at L. And the strain at L, from a load at D, is to the strain by the fame load at L as DE to LE. These are all very obvious corollaries; and they sufficiently inform us concerning the strains which are produced on any part of the timber by a load laid on any other part.

If we now suppose the beam to be fixed at the two ends, that is, firmly framed, or held down by blocks at I and K, placed beyond E and G, or framed into posts, it will carry twice as much as when its ends were free. For suppose it fawn through at CD; the weight W hung on there will be just sufficient to break it at E and G. Now restore the connection of the section CD, it

will require another weight W to break it there at the Roof. fame time.

Therefore, when a rafter, or any piece of timber, is firmly connected with three fixed points G, E, I, it will bear a greater load between any two of them than if its connection with the remote point were removed; and if it be fastened in four points, G, E, I, K, it will be twice as strong in the middle part as without the two remote connections.

One is apt to expect from this that the joist of a floor will be much strengthened by being firmly built in the wall. It is a little strengthened; but the hold which can thus be given it is much too fort to be of any fenfible fervice; and it tends greatly to shatter the wall, because, when it is bent down by a load, it forces up the wall with the momentum of a long lever. Judicious builders therefore take care not to bind the joints tight in the wall. But when the joints of adjoining rooms lie in the same direction, it is a great advantage to make them of one piece. They are then twice as strong as when made in two lengths.

It is easy to deduce from these premisses the strain on Inferences. any point which arises from the weight of the beam itfelf, or from any load which is unitormly diffused over the whole or any part. We may always confider the whole of the weight which is thus uniformly diffused over any part as united in the middle point of that part; and if the load is not uniformly diffused, we may still suppose it united at its centre of gravity. Thus, to know the strain at L arising from the weight of the whole beam, we may suppose the whole weight accumulated in its middle point D. Also the firain at L, arising from the weight of the part ED, is the same as if this weight were accumulated in the middle point d of ED; and it is the same as if half the weight of ED were hung on at D. For the real strain at L is the upward preffure at G, acting by the lever GL. Now call the weight of the part DEe; this upward preffure will be  $\frac{e \times dE}{EG}$ , or  $\frac{\frac{1}{2}e \times DE}{EG}$ 

Therefore the firain on the middle of a beam, arifing from its own weight, or from any uniform load, is the weight of the beam or its load  $\times \frac{ED}{EG} \times DG$ ; that is, half the weight of the beam or load multiplied or acting by the lever DG; for  $\frac{ED}{EG}$  is  $\frac{1}{2}$ .

Also the strain at L, arising from the weight of the beam, or the uniform load, is  $\frac{1}{2}$  the weight of the beam or load acting by the lever LG. It is therefore proportional to LG, and is greatest of all at D. Therefore a beam of uniform ftrength throughout, uniformly loaded, will break in the middle.

It is of importance to know the relation between Relation the strains arising from the weights of the beams, or between from any uniformly diffused load, and the relative he weights frength. We have already seen, that the relative or trains and the reference of  $\frac{h}{ml}$ , where m is a number to be disco-lative trength.

vered by experiment for every different species of materials. Leaving out every circumstance but what depends on the dimensions of the beam, viz. d, b, and l, Roof. we see that the relative frength is in the proportion of , that is, as the breadth and the square of the depth

Now, to confider first the strain arising from the

directly and the length inversely.

weight of the beam itself, it is evident that this weight increases in the same proportion with the depth, the breadth, and the length of the beam. Therefore its power of refifting this thrain must be as its depth directly, and the square of its length inversely. To consider this in a more popular manner, it is plain that the increase of breadth makes no change in the power of refifting the actual strain, because the load and the absolute strength increase in the same proportion with the breadth. But by increasing the depth, we increase the refilling fection in the fame proportion, and therefore the number of refifting fibres and the absolute strength: but we also increase the weight in the same proportion. This makes a compensation, and the relative flrength is yet the fame. But by increasing the depth, we have not only increased the absolute strength, but also its mechanical energy: For the resistance to fracture is the same as if the full strength of each fibre was exerted at the point which we called the centre of effort; and we showed, that the distance of this from the underside of the beam was a certain portion (a half, a third, a fourth, &c.) of the whole depth of the beam. This distance is the arm of the lever by which the cohefion of the wood may be supposed to act. Therefore this arm of the lever, and confequently the energy of the refishance increases in the proportion of the depth of the beam, and this remains uncompensated by any increase of the strain. On the whole, therefore, the power of the beam to fustain its own weight increases in the proportion of its depth. But, on the other hand, the power of withstanding a given strain applied at its extremity, or to any aliquot part of its length, is diminished as the length increases, or is inversely as the length; and the strain arising from the weight of the beam also increases as the length. Therefore the power of refifting the strain actually exerted on it by the weight of the beam is inverfely as the square of the length. On the whole, therefore, the power of a beam to carry its own weight, varies in the proportion of its depth directly and the square of its length inversely. As this strain is frequently a considerable part of the

whole, it is proper to confider it apart, and then to reckon only on what remains for the support of any extra-

neous load.

beam to

wer its

?ength.

In the next place, the power of a beam to carry any Power of a load which is uniformly diffused over its length, must carry a load be inverfely as the square of the length: for the power of withstanding any strain applied to an aliquot part of the length (which is the case here, because the load diffused omay be conceived as accumulated at its centre of gravity, the middle point of the beam) is inversely as the length; and the actual strain is as the length, and therefore its momentum is as the square of the length. Therefore the power of a beam to carry a weight uniformly diffused over it, is inversely as the square of the length. N. B. It is here understood, that the uniform load is of fome determined quantity for every foot of the length, so that a beam of double length carries a double load.

> We have hitherto supposed that the forces which Vol. XVIII. Part I.

tend to break a beam transversely, are acting in a direc- Roo. tion perpendicular to the beam. This is always the case in level floors loaded in any manner; but in roofs, Effect when the action of the load tending to break the rafters is ob-the action lique, because gravity always acts in vertical lines. It of the load may allo frequently happen, that a beam is flrained by a oblique, a force acting obliquely.

This modification of the flrain is easily difficulted.

Suppose that the external force, which is measured by the weight W in fig. 1. acts in the direction A w' instead of AW. Draw C a perpendicular to A w. Then the momentum of this external force is not to be measured by  $W \times AC$ , but by  $W \times \acute{a}C$ . The strain therefore by which the sibres in the fection of fracture DC are turn afunder, is diminished in the proportion of CA to Ca, that is, in the proportion of radius to the fine of the angle CA a. which the beam makes with the direction of the external force.

To apply this to our purpose in the most familiar manner, let AB (fig. 3.) be an oblique ratter of a build. Fig. 3. ing, loaded with a weight W suspended to any point C, and thereby occasioning a strain in some part D. We have already feen, that the immediate cause of the strain on D is the reaction of the support which is given to the point B. The rafter may at present be confidered as a lever, supported at A, and pulled down by the line CW. This occasions a pressure on B. and the support acts in the opposite direction to the action of the lever, that is, in the direction B b, perpendicular to BA. This tends to break the beam in every part.

The preffure exerted at B is  $\frac{W \times AE}{AB}$ , AE being a horizontal line. Therefore the strain at D will be  $\frac{W \times AE}{AB} \times BD$ . Had the beam been lying horizontally, the firsin at D, from the weight W suspended at C, would have been  $\frac{W \cdot AC}{AB} \times BD$ . It is therefore di-

minished in the proportion of AC to AE, that is, in the proportion of radius to the cofine of the elevation, or in the proportion of the fecant of elevation to the radius.

It is evident, that this law of diminution of the ftrain is the fame whether the strain arises from a load on any part of the rafter, or from the weight of the rafter itfelf, or from any load uniformly diffused over its length, provided only that these loads act in vertical lines.

We can now compare the strength of roofs which strength of have different elevations. Supposing the width of the roofs habuilding to be given, and that the weight of a square ving differyard of covering is also given. Then, because the load ent elevaon the rafter will increase in the same proportion with pared. its length, the load on the flant-fide BA of the roof will be to the load of a fimilar covering on the half AF of the flat roof, of the same width, as AB to AF But the transverse action of any load on AB, by which it tends to break it is to that of the same load un AF as AF to AB. The transverse firain therefore is the fame on both, the increase of real load on AB being compensated by the obliquity of its action. But the strengths of beams to refift equal strains, applied to fimilar points, or uniformly diffused over them, are inverfely as their lengths, because the momentum or energy of the ftrain is proportional to the length. Therefore

fore the power of AB to withfland the ftrain to which it is really exposed, is to the power of AF to resil its strain as AF to AB. If, therefore, a rafter AG of a certain feantling is just able to carry the roofing laid on it, a rafter AB of the same scantling, but more elevated, will be too weak in the proportion of AG to AB. Therefore steeper roofs require stouter rafters, in order that they may be equally able to carry a roofing of equal weight per fquare yard. To be equally ftrong, they must be made broader, or placed nearer to each other, in the proportion of their greater length, or they must be made deeper in the subduplicate proportion of their length. The following cary conftruction will enable the artist not familiar with computation to proportion the depth of the rafter to the flope of the roof.

Let the horizontal line af (fig. 4.) be the proper depth of a beam whose length is half the width of the building; that is, fuch as would make it fit for carrying the intended tiling laid on a flat roof. Draw the vertical line fb, and the line a b having the elevation of the rafter; make ag equal to af, and deferibe the femicircle b dg; draw a d perpendi alar to a b, a d is the

required depth. The demon tration is evident.

We have now treated in fufficient detail, what relates to the chief itrain on the component units of a roof, namely, what tends to break them transveriely; and we have enlarged more on the subject than what the prefent occasion indispensably required, because the propofisions which we have demonstrated are equally applicable to all framings of car, miry, and are even of greatex moment in many cases, particularly in the construction of machines. These consist of levers in various forms, which are strained transversely; and similar strains frequently occur in many of the supporting and connecting parts. We shall give in the article TIMBER an account of the experiments which have been made by different naturalists, in order to afcertain the absolute firength of some of the materials which are most generally framed together in buildings and engines. The house-carpenter will fraw from them absolute numbers. which he can apply to his particular purpofes by means of the propolitions which we have now effa-

We proceed, in the next place, to confider the other strains to which the parts of roofs are exposed, in confequence of the fupport which they mutually give each other, and the preflures (or thrufts as they are called in the language of the house-carpenter) which they exert on each other, and on the walls or piers of the build-

Fig. 5.

Let a beam or piece of timber AB (fig. 5.) be fufpended by two lines AC, BD; or let it be supported by two props AE, BF, which are perfectly moveable by two props A.E. Br., which are pericetry movemies round their remote extremities E. F., or let it reft on the two polithed plains KAH, LEM. Moreover, let G be the centre of gravity of the beam, and let GN be a line through the centre of gravity perpendicular to the horizon. The beam will not be in equilibric unlefs the vertical line GN either paffes through P, the point in which the directions of the two lines AC, BD, or the directions of the two props EA, FD, or the perpendiculars to the two planes KAH, LBM interfect each other, or is parallel to these directions. For the supports given by the lines or props are unquestionably exerted in the direction of their lengths; and it is as well known in mechanics that the supports given by planes Roof. are exerted in a direction perpendicular to those planes in the points of contact; and we know that the weight of the beam acts in the fame manner as if it were all accumulated in its centre of gravity G, and that it acts in the direction GN perpendicular to the horizon. Moreover, when a body is in equilibrio between three forces, they are acting in one plane, and their directions are either parallel or they pals through one point.

The support given to the beam is therefore the same as if it were suffered by two lines which are attached to the single point P. We may also infer, that the points of suspension C, D, the points of support E, F, the points of contact A, B, and the centre of gravity

G, are all in one vertical plane.

When this position of the beam is diffurbed by any external force, there must either be a motion of the points A and B round the centres of suspension C and D, or of the props round thele points of support E and I, or a fliding of the ends of the beam along the polished planes GH and IK; and in consequence of these motions the centre of gravity G will go cut of its place, and the vertical line GN will no longer pais through the point where the directions of the fuprorts interlect each other. If the centre of gravity rifes by this motion, the body will have a tendency to recover its former polition, and it will require force to keep it away from it. In this cafe the equilibrium may be faid tobe flable, or the body to have flability. But if the centre of gravity descends when the body is moved from the position of equilibrium, it will tend to move still farther; and fo far will it be from recovering its former position, that it will now fall. This equilibrium may be called a tottering equilibrium. These accidents depend on the fituations of the points A, B, C, D, E, F; and they may be determined by confidering the ful jest geometrically. It does not much interest us at present; it is rarely that the equilibrium of suspension is tottering, or that of props is theble. It is evident, that if the heere were suspended by lines from the point P, it would have flability, for it would fwing like a pendulum round P, and therefore would always tend towards the pofition of equilibrium. The interfection of the lines of support would still be at P, and the vertical line drawn through the centre of gravity, when in any other fituation, would be on that fide of P towards which this centre has been moved. Therefore, by the rules of pendulous bodies, it tends to come back. This would be more remarkably the case if the points of suspension C and D be on the same side of the point P with the points of attachment A and B; for in this case the new point of interfection of the lines of support would shift to the opposite fide, and be still farther from the vertical line through the new position of the centre of gravity. But if the points of fulpension and of attachment are on oppolite fides of P, the new point of interlection may shift to the lame fide with the centre of gravity, and lie beyoud the vertical line; in this case the equilibrium is tottering. It is easy to perceive, too, that if the equilibrium of suspension from the points C and D be stable, the equilibrium on the props AE and BF must be tottering. It is not necessary for our present purpose to engage more particularly in this discussion.
It is plain that, with respect to the mere momentary

equilibrium, there is no difference in the furgert by

threads, or props, or planes, and we may fubilitute the one for the other. We shall find this substitution extremely useful, because we easily conceive diffinet no-

tions of the support of a body by strings.

Observe farther, that if the whole figure be inverted, and strings be substituted for props, and props for thrings, the equilibrium will flill obtain; for by comparing fig. 5. with fig. 6, we fee that the vertical line through the centre of gravity will pass through the interfection of the two thrings or props; and this is all that is necessary for the equilibrium : only it must be observed in the substitution of props for threads, and of threads for props, that if it be done without inverting the whole figure, a flable equilibrium becomes a

lettered artifan, and enables him to make a practical

tottering one, and vice verfa. This is a most useful proposition, especially to the un-

Examples.

Fig. 7.

Fiz. 8.

Fig o.

use of problems which the greatest mechanical geniuses have found no eafy task to solve. An instance will flow the extent and utility of it. Suppose it were required to make a manfard or kirb roof whose width is AB (fig. 7.), and confifting of the four equal rafters AC, CD, DE, EB. There can be no doubt but that its best form is that which will put all the parts in equilibrio, fo that no ties or flays may be necessary for opposing the unbalanced thruit of any part of it. Make a chain acdeb (fig. 8.) of four equal pieces, loofely connected by pin-joints, round which the parts are perfeetly moveable. Suspend this from two pins a, b, fixed in a horizontal line. This chain or festoon will arrange itself in such a form that its parts are in equilibrio. Then we know that if the figure be inverted, it will compose the frame or truss of a kirb-roof a y deb, which is also in equilibrio, the thrusts of the pieces balaneing each other in the fame manner that the mutual pulls of the hanging festoon acdeb did. If the proportion of the height df to the width ab is not such as pleases, let the pins a, b be placed nearer or more diflant, till a proportion between the width and height is obtained which pleafes, and then make the figure ACDEB, fig. 7. fimilar to it. It is evident that this proposition will apply in the same manner to the determination of the form of an arch of a bridge; but this is not a proper place for a farther discussion.

We are now able to compute all the thrusts and other pressures which are exerted by the parts of a roof on each other and on the walls. Let AB (fig. 9.) be a beam standing anyhow obliquely, and G its centre of gravity. Let us suppose that the ends of it are supported in any directions AC, BD, by strings, props, or planes. Let these directions meet in the point P of the vertical line PG passing through its centre of gravity. Through G draw lines G a, G b parallel to PB,

PA. Then

The weight of the beam
The preflure or thrust at A are proportional to PAThe preflure at BThe pressure at B For when a body is in equilibrio between three forces. these forces are proportional to the sides of a triangle which have their directions.

In like manner, if A g be drawn parallel to P b, we

Weight of the beam proportional to P & PA 22 Bg

Or, drawing By parallel to Pa

Thruit at B

It cannot be disputed that, if strength alone be conf . That . . . . dered, the proper form of a roof is that which puts the same a whole in equilibrio, fo that it would remain in that wast at fliape although all the joints were perfectly luofe or the wo flexible. If it has any other shape, additional ties or mequiabraces are necessary for preserving it, and the parts are brownnecessarily strained. When this equilibrium is ob-

tained, the rafters which compose the roof are all acting on each other in the direction of their lengths; and by this action, combined with their weights, they full ain no strain but that of compression, the strain of all others that they are the most able to refi'l. We may consider them as fo many inflexible lines having their weights accumulated in their centres of gravity. But it will allow an easier investigation of the subject, if we suppose the weights to be at the joints, equal to the real vertical preffures which are exerted on these points. These are very eafily computed : for it is plain, that the weight of the beam AB (fig. 9.) is to the part of this weight that is supported at B as AB to AG. Therefore, if W represent the weight of the beam, the vertical pres-

fure at B will be  $W \times \frac{AG}{AB}$ , and the vertical preffure at

A will be  $W \times \frac{BG}{AB}$ . In like manner, the prop BF being confidered as another beam, and f as its centre of gravity and w as its weight, a part of this weight, equal to  $w \times \frac{fF}{RF}$ , is supported at B, and the whole vertical

prefixe at B is W  $\times \frac{AG}{AB} + w \times \frac{fF}{PF}$ . And thus we greatly simplify the consideration of the mutual thrusts of roof frames. We need hardly observe, that although these pressures by which the parts of a frame support each other in opposition to the vertical action of gravity, are always exerted in the direction of the pieces, they may be resolved into pressures acting in any other direction which may engage our attention.

All that we propose to deliver on this subject at prefent may be included in the following proposition.

Let ABCDE (fig. 10.) be an affemblage of rafters Fig. 1: in a vertical plane, resting on two fixed points A and E in a horizontal line, and perfectly moveable round all the joints A, B, C, D, E; and let it be supposed to be in equilibrio, and let us invesligate what adjustment of the different circumstances of weight and inclination of its different parts is necessary for producing this equili-

Let F. G. H, I, be the centres of gravity of the different rafters, and let these letters express the weights of each. Then (by what has been faid above) the weight which preffes B directly downwards is  $F \times \frac{AF}{AB} + G \times \frac{AF}{AB}$ 

CG. The weight on C is in like manner  $G \times \frac{BG}{BC} + H \times \frac{DH}{CD}$ , and that on D is  $H \times \frac{CH}{CD} + I \times \frac{DH}{DE}$ .

Let A b e d E be the figure ABCDE inverted, in the manner already deferibed. It may be conceived its a thread fastened at A and E, and loaded at b, c. ...

ROO

Roof. d with the weights which are really preffing on B, C, and D. It will arrange itself into such a form that all will be in equilibrio. We may discover this form by means of this fingle confideration, that any part bc of the thread is equally stretched throughout in the direction of its length. Let us therefore investigate the proportion between the weight &, which we suppose to Le pulling the point b in the vertical direction  $b \beta$ , to the weight &, which is pulling down the point d in a fimilar manner. It is evident, that fince AE is a horizontal line, and the figures A bcd E and ABCDE equal and fimilar, the lines B b, C c, D d, are vertical. Take b f to represent the weight hanging at b. By stretching the threads b A and bc it is let in opposition to the contractile powers of the threads, acting in the directions b A and bc, and it is in immediate equilibrio with the equivalent of these two contractile forces. Therefore make bg equal to bf, and make it the diagonal of a parallelogram hbig. It is evident that bh, bi, are the forces exerted by the threads bh, bc. Then, seeing that the thread bc is equally stretched in both directions, make ck equal to bi; ck is the contractile force which is excited at c by the weight which is hanging there. Draw k / parallel to c d, and Im parallel to bc. The force le is the equivalent of the contractile forces ck, cm, and is therefore equal and opposite to the force of gravity acting at C. In like manner, make dn=cm, and complete the parallelogram n d po, having the vertical line od for its diagonal. Then dn and dp are the contractile forces excited at d, and the weight hanging there must be equal to od.

Therefore, the load at b is to the load at d as bg to do. But we have feen that the compressing forces at B, C, D may be substituted for the extending forces at b, c, d. Therefore the weights at B, C, D which produce the compressions, are equal to the weights at b, c, d, which produce the extensions. Therefore  $bg: do = F \times \frac{AF}{AB} + G \times \frac{CG}{BC} : H \times \frac{CH}{CD} + I \times \frac{EI}{DE}$ .

Let us enquire what relation there is between this proportion of the loads upon the joints at B and D, and the angles which the rafters make at these joints with each other, and with the horizon or the plumb lines. Produce AB till it cut the vertical Cc in Q; draw BR parallel to CD, and BS parallel to DE. The fimilarity of the figures ABCDE and AbcdE, and the finilarity of their position with respect to the horizontal and plumb lines, show, without any further demonstration, that the triangles QCB and gbi are fimilar, and that QB : BC=gi: ib,=hb:ib. Therefore QB is to BC as the contractile force exerted by the thread A b to that exerted by bc; and therefore QB is to BC as the compression of BA to the compression on BC (A). Then, because bis equal to ck, and the triangles CBR and ck/ are fimilar, CB : BR=ck : k/, = ck: cm, and CB is to BR as the compression on CB

to the compression on CD. And, in like manner, be- Roof." cause cm=dn, we have BR to BS as the compression on DC to the compression on DE. Also BR : RS= nd: do, that is, as the compression on DC to the load on D. Finally, combining all these ratios

QC: CB=gb:bi,=gb:kcCB: BR=kc:kl,=kc:dnBR : BS=nd: no=dn: no B3: RS=no: do=no: do, we have finally QC : RS=g b : o d= Load at B : Load at D.

QC: BC=f, QBC: f, BQC,=f, ABC: f, ABb BC: BR=f, BRC: /BCR,=fCDd: f, bBC BR : RS=/, BSR : /, RBS=/, d DE : /, CDE

Therefore OC : RS=/, ABC. /, CD d. /, dDE : /, CDE. /, AB b. 1, b BC.

QC: RS= $\frac{f, ABC}{f, AB b \cdot f CB b}$ :  $\frac{f, CDE}{f, dDC \cdot f, dDE}$ 

That is, the loads on the different joints are as the fines of the angles at these joints directly, and as the products of the fines of the angles which the rafters make with the plumb-lines inverfely.

Or, the loads are as the fines of the angles of the joints directly, and as the products of the cofines of

the elevations of the rafters jointly. Or, the loads at the joints are as the fines of the angles at the joints, and as the products of the fecants of elevation of the rafters jointly: for the fecants of angles are inverfely as the cofines.

Draw the horizontal line BT. It is evident, that if this be confidered as the radius of a circle, the lines BO, BC, BR, BS are the fecants of the angles which these lines make with the horizon. And they are also as the thrusts of those rafters to which they are parallel. Therefore, the thrust which any rafter makes in its own direction is as the fecant of its ele-

The horizontal thrust is the same at all the angles. For  $i = k \times = m \mu = \pi \times = p \pi$ . Therefore both walls are equally preffed out by the weight of the roof. can find its quantity by comparing it with the load on one of the joints:

Thus, OC : CB=/, ABC : /, AB b BC : BT = Rad. : f, BCT, =Rad. : f, CB b Therefore, OC: BT=Rad. X /, ABC: /, bBA X /, bBC

It deserves remark, that the lengths of the beams The length do not affect either the proportion of the load at of the the different joints, nor the position of the rafters; beams de-This depends merely on the weights at the angles, pends on If a change of length affects the weight, this indeed at the anaffects the form also: and this is generally the cafe. gles.

(A) This proportion might have been flown directly without any use of the inverted figure or confideration of contractile forces; but this substitution gives distinct notions of the mode of acting even to persons not much conversant in such disquisitions; and we wish to make it familiar to the mind, because it gives an easy solution of the most complicated problems, and furnishes the practical carpenter, who has little science, with solutions of the most difficult cases by experiment. A sestion, as we called it, may easily be made; and we are certain, that the forms into which it will arrange itself are models of perfect frames.

For it feldom happens, indeed it never should happen, That the weight on rafters of longer bearing are not greater. The covering alone increases nearly in the proportion of the length of the rafter.

If the proportion of the weights at B, C, and D are given, as also the position of any two of the lines,

the position of all the rest is determined.

If the horizontal distances between the angles are all equal, the forces on the different angles are proportional to the varcicals drawn on the lines through these angles from the adjoining angle, and the thruits from the adjoining angles are as the lines which connect

If the rafters themselves are of equal lengths, the weights at the different angles are as these verticals and as the fecants of the elevation of the rafters jointly.

This proposition is very fruitful in its practical confequences. It is easy to perceive that it contains the whole theory of the construction of arches; for each stone of an arch may be considered as one of the rafters of this piece of carpentry, fince all is kept up by its mere equilibrium. We may have an opportunity in fome future article of exhibiting fome very elegant and fimple folutions of the most difficult cases of this inportant problem; and we now proceed to make use of the knowledge we have acquired for the conflruction of

We mentioned by the bye a problem which is not unfrequent in practice, to determine the beil form of a kirb-roof. Mr Couplet of the Royal Academy of Paris has given a folution of it in an elaborate memoir in 1726, occupying feveral lemmas and theorems.

Let AE (fig. 11.) be the width, and CF the height; it is required to construct a roof ABCDE whose rafters AB, BC, CD, DE, are all equal, and which shall be in

equilibrio.

Draw CE, and bifect it perpendicularly in H by the line DHG, cutting the horizontal line AE in G. About the centre G, with the distance GE, describe the circle EDC. It must pass through C, because CH is equal to HE and the angles at H are equal. Draw HK parallel to FE, cutting the circumference in K. Draw CK, cutting GH in D. Join CD, ED; thefe lines are the rafters of balf of the roof required.

We prove this by showing, that the loads in the angles C and D are equal. For this is the proportion which refults from the equality of the rafters, and the extent of furface of the uniform roofing which they are fupposed to support. Therefore produce ED till it meet the vertical FC in N; and having made the fide CBA fimilar to CDE, complete the parallelogram BCDP, and draw DB, which will bifect CP in R, as the horizontal line KH, bifects CF in Q. Draw KF, which is evidently parallel to DP. Make CS perpendicular to CF, and equal to FG; and about S, with the radius SF, describe the circle FKW. It must pass through K, because SF is equal to CG, and CQ = QF. Draw WK, WS, and produce BC, cutting ND

The angle WKF at the circumference is one-half of the angle WSF at the centre, and is therefore equal to WSC, or CGF. It is therefore double of the angle CEF or ECS. But ECS is equal to ECD and DCS, and ECD is one-half of NDC, and DCS is one half of DCO, or CDP. Therefore the angle WKF is

equal to NDP, and WK is parallel to ND; and CF is. Roof. to CW as CP to CN; and CN is equal to CP. But it has been shown above, that CN and CP are as the loads upon D and C. These are therefore equal, and the frame ABCDE is in equilibrio.

A comparison of this solution with that of Mr Couplet will fliow its great advantage in respect of simplicity and perspicuity. And the intelligent reader can eafily adapt the construction to any proportion between the rafters AB and BC, which other circumstances, such as garret-rooms, &cc. may render convenient. The construction must be such that NC may be to CP as CD to CD+DE

Whatever proportion of AB to BC is af-

fumed, the point D' will be found in the circumference of a femicircle H' D' h', whose centre is in the line CE, and having AB : BC = CH' : HE', = cl' : l' E .- The

rest of the construction is simple.

In buildings which are roofed with flate, tyle, or fhingles, the circumstance which is most likely to limit the construction is the slope of the upper rafters CB, CD. This must be sufficient to prevent the penetration of rain, and the stripping by the winds. The only circumstance left in our choice in this case is the proportion of the rafters AB and BC. Nothing is eafier than making NC to CP in any defired proportion when the angle BCD is given.

We need not repeat that it is always a defirable thing The trus to form a trus for a roof in such a manner that it shall for a roof be in equilibrio. When this is done, the whole force of fkould atthe struts and braces which are added to it is employed ways be in preferving this form, and no part is expended in un-brio. necessary strains. For we must now observe, that the equilibrium of which we have been treating is always of that kind which we called the tottering, and the roof requires stays, braces, or hanging timbers, to give it stiffness, or keep it in shape. We have also said enough to enable any reader, acquainted with the most elementary geometry and mechanics, to compute the transverse strains and the thrusts to which the component parts of all roofs are exposed.

It only remains now to show the general maxims by General which all roofs must be constructed, and the circum-maxims by stances which determine their excellence. In doing this which alt we shall be exceedingly brief, and almost content our-be construcfelves with exhibiting the principal forms, of which the jed. endless variety of roofs are only slight modifications,-We shall not trouble the reader with any account of fuch roofs as receive part of their fupport from the interior walls, but confine ourselves to the more difficult problem of throwing a roof over a wide building, without any intermediate support; because when such roofs are constructed in the best manner, that is, deriving the greatest possible thrength from the materials employed, the best construction of the others is necessarily included. For all fuch roofs as rest on the middle walls are roofs of fmaller bearing. The only exception deferving notice is the roofs of churches, which have nifles separated from the nave by columns. The roof must rise on these. But if it is of an arched form internally, the horizontal thrusts must be nicely balanced, that they may not push the columns afide.

The simplest notion of a roof frame is, that it confirs simplest of two rafters AB and BC (fig. 12.), meeting in the notion of ridge B. Even Fig. w.

Practica! inferences

To determine the heft form of a kirbroof.

Fig. 11.

34 Beft form

Fig. 13.

Even this simple form is susceptible of better and worse. We have already scen, that when the weight of a square yard of covering is given, a steeper roof requires fironger rafters, and that when the fcantling of the timbers is also given, the relative strength of a rafter is inverfely as its length. But there is now another circumflance to be taken into the account, viz. the support which one rafter leg gives to the other. The best form of a rafter will therefore be that in which the relative ftrength of the legs, and their mutual support, give the greatest product. Mr Muller, in his Military Engineer, gives a determination of the best pitch of a roof, which bas confiderable ingenuity, and has been copied into many books of military education both in this illand and on the continent. Describe on the width A.C., fig. 13. the semicircle AFC, and bifect it by the radius FD. Produce the rafter AB to the circumference in E. join E.C. and draw the perpendicular E.G .-

Now AB: AD=AC: AE, and AE =  $\frac{AD \times AC}{AB}$ , and AE is inversely as AB, and may therefore reprefent its ftrength in relation to the weight actually lying on it. Also the support which CB gives to AB is as CE, because CE is perpendicular to AB. Therefore the form which renders AEXEC a maximum feems to be that which has the greatest strength. But AC:

AE = EC : EG, and  $EG = \frac{AE \cdot EC}{AC}$ , and is there-

fore proportional to AE.EC. Now EG is a maximum when B is in F, and a square pitch is in this respect the ftrongest. But it is very doubtful whether this construction is deduced from just principles. There is another strain to which the leg AB is exposed, which is not taken into the account. This arises from the curvature which it unavoidably acquires by the transverse pressure of its load. In this state it is pressed in its own direction by the abutment and load of the other leg. The relation between this strain and the resistance of the piece is not very diffinctly known. Euler has given a differtation on this subject (which is of great importance, because it affects posts and pillars of all long and fix inches fquare will bear with great fafety a weight which would cruth a post of the same scantling and 20 feet long in a minute); but his determination has not been acquiciced in by the first mathematicians. Now it is in relation to these two firains that the firength of the rafter should be adjusted. The firmness of the support given by the other leg is of no consequence, if its own strength is inferior to the strain. The force its curved state, is to its weight as AB to BD, as is eafily feen by the composition of forces; and its incurvation by this force has a relation to it, which is of intricate determination. It is contained in the properties demonstrated by Bernoulli of the elastic curve. This determination also includes the relation between the ourvature and the length of the piece. But the whole of this feemingly fimple problem is of much more difficult inveiligation than Mr Muller was aware of; and his rules for the pitch of a rote, and for the fally of a dock gate, which depends on the same principles, are of no value. He is, however, the first author who attempted

ples susceptible of precise reasoning. Belidor's fois.

tions, in his Architecture Hydrauli ,ue, are below notice. Reasons of economy have made tarpenters prefer a low pitch; and although this does diminish the fupport given by the opposite leg failer than it increases the relative thrength of the other, this is not of material confequence, because the strength remaining in the opposite leg is fill very great; for the supporting leg is acting against compression, in which case it is vastly ftronger than the supported leg acting against a transverse itrain.

But a roof of this simplicity will not do in most cases, Thrust on There is no notice taken in its continuction of the thrust the walls, which it exerts on the walls. Now this is the ftrain which is the most hazardous of all. Our ordinary walls, instead of being able to resist any considerable strain prefling them outwards, require, in general, fome ties to keep them on foot. When a perion thinks of the thinnels and height of the walls of even a strong house, he will be furprifed that they are not blown down by any strong puff of wind. A wall of three feet thick, and 60 feet high, could not withstand a wind blowing at the rate of 30 feet per second (in which case it acts with a force confiderably exceeding two pounds on every square foot), if it were not stiffened by cross walls, joists, and roof, which all help to tie the different parts of the

building together. A carpenter is therefore exceedingly careful to avoid how avoid. every horizontal thrust, or to oppose them by othered. forces. And this introduces another effential part into the construction of a roof, namely the tie or beam AC, (fig. 14.), laid from wall to wall, binding the feet A Fig. 144 and C of the rafters together. This is the fole office of the beam; and it should be confidered in no other light than as a string to prevent the roof from pushing out the walls. It is indeed used for carrying the ceiling of the

apartments under it; and it is even made to support a flooring. But, confidered as making part of a roof, it is merely a firing; and the firain which it withflands tends to tear its parts afunder. It therefore acis with its whole absolute force, and a very small scantling would fusice if we could contrive to fasten it firmly enough to the foot of the rafter. If it is of oak, we may lafely fubject it to a strain of three tons for every square inch of its fection. And fir will fafely bear a strain of two tons for every fquare inch. But we are obliged to give the tie-beam much larger dimensions, that we may be able to connect it with the foot of the rafter by a mortife and tenon. Iron fraps are also frequently added. By attending to this office of the tie-beam, the judicious carpenter is directed to the proper form of the mortife and tenon and of the ftrap. We shall confider both of these in a proper place, after we become acquainted with. the various frains at the joints of a roof.

These large dimensions of the tie-beam allow us to load it with the ceilings without any rifk, and even to: lay floors on it with moderation and caution. But when it has a great bearing or fran, it is very apt to bend downwards in the middle, or, as the workmen term it, to fway or fwag; and it requires a sunport. The question is, where to find this support? What fixed points can we find with which to connect the middle of the tie-beam? Some ingenious corpenter thought of followiding it from the ridge by a piece of timber BD: (fig. 15.), called by our carpenters the king-peft. It Fig 1:

Roof, must be a knowledged that there was great ingenuity in this thought. It was also perfectly just. For the me 2. 1 of the rafter bA. dC tends to make them fiv out at the foot. This is prevented by the tie-beam, and this excites a proficire, by which they tend to comprefs each other. Suppose them without weight, and that a creat-weight is laid on the ridge B. This can be tupported only by the butting of the raffers in their own directions AB and CB, and the weight tends to comprels them in the opposite directions, and, through their intervention, to firetch the tie-beam. If neither the is plain that the triangle ABC mun tetain its shape, and that B becomes a fixed point, very proper to be used as a point of suspension. To this point, therefore, is the tie-beam suspended by means of the kingport. A common spectator, unacquainted with carpentry, views it very differently, and the tie beam appears to him to carry the roof. The king-post appears a pillar refling on the beam, whereas it is really a firing; and an iron-old of one-fixteenth of the fize would have done just as well. The king-post is sometimes mortised into the tie-beam, and plus put through the joint, which gives it more the look of a pillar with the roof refting on it. This does well enough in many cases. But the best method is to connect them by an iron strap, like a ftirrup, which is bolted at its upper ends into the king-post, and pastes round the tie-beam. In this way a space is commonly left between the end of the kingpost and the upper fide of the tie-beam. Here the beam plainly appears hanging in the flirrup; and this method allows us to reflore the beam to an exact level. syhen it has fink by the unavoidable compression or otier yielding of the parts. The holes in the fides of the iron frap are made oblong instead of round; and the bolt which is drawn through all is made to taper on the under fide; fo that driving it farther draws the tie beam upwards. A notion of this may be formed by looking at fig. 16. which is a fection of the post and

It-requires confiderable attention, bowever, to make this suspension of the tie-beam sufficiently firm. The top of the king-post is cut into the form of the archstone of a bridge, and the heads of the rafters are firmly mortifed into this projecting part. These projections are called joggles, and are formed by working the king-post out of a much larger piece of timber, and cutting off the unnecessary wood from the two fides; and, left all this should not be sufficient, it is usual in great works to add an iron-plate or flrap of three branches, which are bolted into the heads of the king-

The rafters, though not fo long as the beam, feem to fland as much in need of fomething to prevent their bending, for they carry the weight of the covering .-This cannot be done by suspension, for we have no fixed points above them : But we have now got a very firm point of support at the foot of the king-noft .- Braces. or Aruts, ED, FD, (fig. 17.), are put under the middle of the rafters, where they are flightly mortifed, and their lower ends are firmly mortifed into joggles formed on the foot of the king-post. As these braces are very powerful in their refittance to compression, and the kingpost equally so to refut extension, the points E and F may be confidered as fixed; and the rafters being thus reduced to half their former length, have now fout times R of their former relative thrength.

Roofs do not alway confid of two floping fides meeting in a ridge. They have formetimes a flat on the top, a triatwith two floping fides. They are fometimes formed to ca with a double flope, and are called kirb or manfarder .... roofs. They fometimes have a valley in the middle, and are then called M roofs. Such roofs require another piece which may be called the trufs-beam, because all such frames are called truffer, probably from the French word trouffe, because fuch roots are like portions

of plain roofs, trouffes or thortened.

A flat-topped roof is thus constructed. Suppose the three raiters AB, BC, CD (fig. 18.) of which ABF'g. ts. and CD are equal, and BC horizontal. It is plain that they will be in equilibrio, and the roof have no tendency to go to either fide. The tie beam AD withstands the horizontal thrufts of the whole frame, and the two rafters AB and CD are each preffed in their own directions in confequence of their butting with the middle rafter or truss-beam BC. It lies between there like the key-flore of an arch. They lean towards it, and it refts on them. The pressure which the trus-beam and its load excites on the two rafters is the very same as if the rafters were produced till they meet in G, and a weight were laid on these equal to that of BC and its load. If therefore the truss-beam is of a scantling sufficient forcarrying its own load, and withflanding the comprettion from the two rafters, the roof will be equally frong, (while it keeps its shape) as the plain roof AGD, furnished with king-post and braces. We may conceive this another way. Suppose a plain roof AGD, without braces to support the middle B and C of the rafters. Then let a beam BC be put in between the rafters, butting upon little notches cut in the rafters. It is evident that this must prevent the rafters from bending downwards, because the points B and C cannot descend, moving round the centres A and D, without shortening the distance BC between them. This cannot be with-out compressing the beam BC. It is plain that BC may be wedged in, or wedges driven in between its ends B and C and the notches in which it is lodged. These wedges may be driven in till they even force out the rafters GA and GD. Whenever this happens, all the mutual preffure of the heads of these rafters at G is taken away, and the parts GB and GC may be cut away and the roof ABCD will be as flrong as the roof AGD furnished with the king-post and braces, because the tru. beam gives a support of the same kind at B and C ... the brace would have done.

But this roof ABCD would have no firmness of shape. Any addition of weight on one fide would defroy the equilibrium at the angle, would depress that angle, and cause the opposite one to rife. To give il stiffness, it must either have ties or braces, or something partaking of the nature of both. The usual method of framing is to make the heads of the rafters butt on the joggles of two fide-posts BE and CF, while the trus-beam, or first as it is generally termed by the carpenters, is mortifed fquare into the infide of the heads. The lower ends E and F of the fide-polls are connected with the tie-beam either by mortifes or straps.

This conftruction gives firmness to the frame; for the angle B cannot descend in consequence of any ine-

F.c. 17.

Fig. 16.

Reck. quality of pressure, without forcing the other angle C to rife. This it cannot do, being held down by the post CF. And the same construction fortifies the tiebeam, which is now suspended at the points E and F from the points B and C, whose firmness we have just now thown.

38 They are not fo ftrong as the plain roofs.

Fig. 19.

But although this roof may be made abundantly strong, it is not quite fo strong as the plain roof AGD of the same scantling. The compression which BC must fustain in order to give the same support to the rafters at B and C that was given by braces properly placed, is confiderably greater than the compression of the braces. And this strain is an addition to the transverse strain which BC gets from its own load. Also this form necessarily exposes the tie-beam to cross strains. If BE is mortised into the tie-beam, then the strain which tends to depress the angle ABC presses on the tie-beam at E transversely, while a contrary itrain acts on F, pulling it upwards. These strains however are fmall; and this construction is frequently used, being fusceptible of fufficient firength, without much increase of the dimensions of the timbers; and it has the great advantage of giving free room in the garrets. Were it not for this, there is a much more perfect form represented in fig. 19. Here the two posts BE, CF are united below. All transverse action on the tie-beam is now entirely removed. We are almost disposed to say that this is the strongest roof of the same width and flope: for if the iron flrap which connects the pieces BE, CF with the tie-beam have a large bolt G through it, confining it to one point of the beam, there are five points, A, B, C, D, G, which cannot change their places, and there is no transverse strain in any of the connections.

When the dimensions of the building are very great, fo that the pieces AB, BC, CD, would be thought too weak for withstanding the cross strains, braces may be added as is expressed in fig. 18. by the dotted lines. The reader will observe, that it is not meant to leave the top flat externally ; it must be raised a little in the middle to shoot off the rain. But this must not be done by incurvating the beam BC. This would foon be crushed, and spring upwards. The slopes must be given by pieces of timber added above the strutting

39 Members of which the frame of a roof confifts,

And thus we have completed a frame of a roof. It confilts of these principal members : The rafters, which are immediately loaded with the covering; the tie-beam, which withstands the horizontal thrust by which the roof tends to fly out below and push out the walls; the king-posts, which hang from fixed points and serve to uphold the tie-beam, and also to afford other fixed points on which we may rest the braces which support the middle of the rafters; and lastly the truss or strutting-beam, which ferves to give mutual abutment to the different parts which are at a distance from each other. The rafters, braces, and truffes are exposed to compression, and must therefore have not only cohesion but stiffness. For if they bend, the prodigious compressions to which they are subjected would quickly crush them in this bended state. The tie beams and king-posts, if performing no other office but supporting the roof, do not require stiffness, and their places might be supplied by ropes, or by rods of iron of one-tenth part of the fection that even the fmallest oak itretcher requires. These members require no greater dimensions than what is necessary for giving sufficient joints, and any more is a needless expence and All roofs, however complicated, confift of thefe effential parts, and if pieces of timber are to be feen which perform none of these offices, they must be pronounced useless, and they are frequently hurtful, by producing cross strains in some other piece. In a roof properly constructed there should be no such strains. All the timbers, except those which immediately carry the covering, should be either pushed or drawn in the direction of their length. And this is the rule by which a roof should always be examined.

These essential parts are susceptible of numberless com- are suscep-

binations and varieties. But it is a prudent maxim to tible of make the construction as simple, and consisting of as few numberless parts, as possible. We are less exposed to the imperfections and tions of workmanship, such as loose joints, &c. Another varieties. effential harm ariles from many pieces, by the compre-fion and the shrinking of the timber in the cross di-rection of the fibres. The effect of this is equivalent to the shortening of the piece which butts on the joint. This alters the proportions of the fides of the triangle on which the shape of the whole depends. Now in a roof such as fig. 18, there is twice as much of this as in the plain pent roof, because there are two posts. And when the direction of the butting pieces is very oblique to the action of the load, a small shrinking permits a great change of shape. Thus in a roof of what is called pediment pitch, where the rafters make an angle of 30 degrees with the horizon, half an inch compression of the king-post will produce a fagging of an inch, and occasion a great strain on the tie-beam if the posts are mortised into it. In fig. 2. of the roofs in the article Architecture, Plate LII. half an inch shrinking of each of the two posts will allow the middle to fagg above five inches. Fig. 1. of the fame plate is faulty in this respect, by cutting the strutting-beam in the middle. The strutting beam is thus shortened by three shrinkings, while there is but one to shorten the rafters. The consequence is, that the truss which is included within the rafters will fag away from them, and then they must bend in the middle till they again rest on this included truss. This roof is, however, constructed on the whole on good principles, and we adduce it only to show the advantages of simplicity. This cut-ting of the trusting beam is unavoidable, if we would preferve the king-post. But we are in doubt whether the fervice performed by it in this case will balance the

exceedingly. This method of including a trus within the rafters of a pent roof is a very confiderable addition to the art of carpentry. But to infure its full effect, it should always be executed in the manner represented in fig. 1. Plate LII. with butting rafters under the principal ones, butting on joggles in the heads of the posts. Without this the strut beam is hardly of any service. We would therefore recommend fig. 20. as a proper construction of Fig. 20

inconvenience. It is employed only to support the mid-

dle of the upper half of each rafter, which it does but

imperfectly, because the braces and first must be cut

half through at their crofling: if these joints are made tight, as a workman would wish to do, the settling of the

roof will cause them to work on each other crosswife

with insuperable force, and will undoubtedly strain them

a traffed roof, and the king-post which is placed in it may be employed to support the upper part of the rafters, and also for preventing the strut-beam from bending in their direction in confequence of its great comprettion. It will also give a suspension for the great burdens which are fometimes necessary in a theatre. The machinery has no other firm points to which it can be attached; and the portion of the fingle rafters which carry this king post are out short, and therefore may be confiderably loaded with fafety.

We observe in the drawings which we sometimes have of Chinese buildings, that the trusting of roofs is understood by them. Indeed they must be very experienced carpenters. We see wooden buildings run up to a great height, which can be supported only by such truffing. One of these is sketched in fig. 21. are some very excellent specimens to be seen in the

buildings at Dept ord, belonging to the victuallingoffice, usually called the Red Houfe, which were erected about the year 1788, and we believe are the performance of Mr James Arrow of the Board of Works,

one of the most intelligent artists in this kingdom. Thus have we given an elementary, but a rational or addressed to scientific, account of this important part of the art of carpentry. It is fuch, that any proditioner, with the trouble of a little reflection, may always proceed with confidence, and without refting any part of his practice on the vague notions which habit may have given him of the flrength and supports of timbers, and of their manner of acting. That thele frequently millead, is proved by the mutual criticisms which are frequently published by the rivals in the profession. They have frequently fagacity enough (for it foldom can be called fcience) to point out garing blunders; and any person who will look at some of the performances of Mr Price, Mr Wyatt, Mr Arrow, and others of acknowledged reputation, will readily fee them diffinguishable from the works of inferior artifts by fimplicity alone. A man without principles is apt to confider an intricate conftruction as ingenious and effectual; and fuch roofs fometimes fail merely by being ingeniously loaded with timber, but more frequently still by the wrong action of some welch piece, which produces strains that are transverse to other pieces, or which, by rendering some points too firm, cause them to be deserted by the rest in the general fundiding of the whole. Instances of this kind are pointed out by Price in his British Carpenter. Nothing the us the skill of a carpenter more than the distinctness wit . which he can foresce the changes of shape which must take place in a short time in every roof. A knowledge of this will often correct a construction which the mere mathematician thinks unexceptionable, because he does not reckon on the actual compression which must obtain, and imagines that his triangles, which fuftain no crofs frains, inveriably retain their shape till the pieces break. The fagacity of the experienced carpenter is not, however, enough without science for perfecting the art. But when he knows how much a particular piece will yield to compression in one case, science will tell him, and nothing but science can do it, what will be the compression of the same piece in another very different case. Thus he learns how far it will now yield, and then he proportions the parts fo to each other, that when all have yielded according to their firains, the whole is of the shape he wished to produce, and every joint is in Vol. XVIII. Part I.

a flate of firmness. It is here that we observe the Roof. greatest number of improprieties. The iron straps are frequently in politions not fuited to the actual firain on them, and they are in a flate of violent twift, which both tends firongly to break the firap, and to cripple

the pieces which they furround.

In like manner, we frequently fee joints or mortifes in a flate of violent strain on the tenon-, or on the heels and shoulders. The joints were perh, ps properly shaped for the primitive form of the trus; but by its fetiling, the bearing of the push is changed : the brace, for example, in a very low pitched roof, comes to prefs with the upper part of the floulder, and, acting as a powerful lever on the tenon, breaks it. In like manner, the lower end of the brace, which at first butted firmly and fquarely on the joggle of the king-post, now preffes with one corner in prodigious force, and feldom feils to iplinter off on that fide. We cannot help recommending a maxim of Mr Perronet the celebrated hydraulic architect of France, as a golden rule, viz. to make all the I oulders of butting pieces in the form of an arch of a circle, having the opposite end of the piece for its centre. Thus, in fig. 18. if the joggle-joint B be of this form, having A for its centre, the lagging of the roof will make no partial bearing at the joint; for in the larging of the roof, the piece AB turns or bends joggle is still directed to A, as it cught to be. We have just now faid bends round A. This is too frequently the case, and it is always very difficult to give the tenon and mortise in this place a true and invariable bearing. The rafter pushes in the direction BA, and the beam refifts in the direction AD. The abutment should be perpendicular to neither of these but in an intermediate direction, and it ought also to be of a curved shape. But the carpenters perhaps think that this would weaken the beam too much to give it this shape in the shoulder; they do not even aim at it in the heel of the tenon. The shoulder is commonly even with the furface of the beam. When the bearing therefore is on this shoulder, it causes the foot of the rafter to flide along the beam till the heel of the tenon bears against the outer and of the mortife (See Price's British Carpenter, Plate C. fig. IK). This abutment is perpendicular to the beam in Price's book, but it is more generally pointed a little outwards below, to make it more fecure against starting. The consequence of this construction is, that when the roof fettles, the shoulder comes to bear at the inner end of the mortife, and it rifes at the outer, and the tenon taking hold of the wood beyond it, either tears it out or is itself broken. This joint therefore is seldom trusted to the strength of the mortise and tenon, and is usually secured by an iron strap, which lies obliquely to the beam, to which it is bolted by a large bolt quite through, and then embraces the outfide of the rafter foot. Very frequently this strap is not made sufficiently oblique, and we have feen fome made almost square with the beam. When this is the case, it not only keeps the foot of the rafter from flying out, but it binds it down. In this case, the rafter acts as a powerful lever, whose fulcrum is in the inner angle of the shoulder, and then the strap never fails to cripple the rafter at the point. All this can be prevented only by making the strap very long and very oblique, and by making its outer end (the

Fig. 21.

Remarks pract al

Mide of

ftirrup part) fquare with its length, and making a notch in the rafter foot to receive it. It cannot now cripple the rafter, for it will rife along with it, turning round the bolt at its inner end. We have been thus particular on this joint, because it is here that the ultimate ftrain of the whole roof is exerted, and its fituation will not allow the excavation necessary for making it a good mortife and tenon.

Similar attention must be paid to fome other straps, fuch as those which embrace the middle of the rafter, and connect it with the post or truss below it. We must attend to the change of shape produced by the fagging of the roof, and place the strap in such a manner as to yield to it by turning round its bolt, but fo as not to become loofe, and far less to make a fulcrum for any thing acting as a lever. The ftrains arifing from fuch actions, in framings of carpentry which change their shape by fagging, are enormous, and nothing can

We shall close this part of the subject with a simple calculating method, by which any carpenter, without mathematical science, may calculate with sufficient precision the strains or thrusts which are produced on any point of his work, whatever be the obliquity of the pieces.

Let it be required to find the horizontal thrust acting on the tie-beam AD of fig. 18. This will be the fame as if the weight of the whole roof were laid at G on the two rafters GA and GD. Draw the vertical line GH. Then, having calculated the weight of the whole roof that is supported by this single frame ABCD, including the weight of the pieces AB, BC, CD, BE, CF themselves, take the number of pounds, tons, &c. which expresses it from any scale of equal parts, and fet it from G to H. Draw HK, HL parallel to GD, GA, and draw the line KL, which will be horizontal when the two fides of the roof have the fame flope. Then ML measured on the same scale will give the horizontal thrust, by which the strength of the tie-beam is to be regulated. GL will give the

In like manner, to find the strain of the king-post BD of fig. 17. confider that each brace is preffed by half the weight of the roofing laid on BA or BC, and this pressure, or at least its hurtful effect, is diminished in the proportion of BA to DA, because the action of gravity is vertical, and the effect which we want to counteract by the braces is in a direction Ee perpendicular to BA or BC. But as this is to be refifted by the brace f E acting in the direction f E, we must draw fe perpendicular to E e, and suppose the strain augmented in

the proportion of Ee to Ef.

Having thus obtained in tons, pounds, or other meafures, the strains which must be balanced at f by the cohefion of the king post, take this measure from the fcale of equal parts, and fet it off in the directions of the braces to G and H, and complete the parallelogram GfHK; and fK measured on the same scale will be

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The artist may then examine the strength of his Branch of trus upon this principle, that every favare inch of oak will bear at an average 7000 pounds compressing or firetching it, and may be fafely loaded with 3500 for

any length of time; and that a square inch of fir will Roof. in like manner fecurely bear 2500. And, because itraps are used to refift some of these strains, a square inch of well wrought tough iron may be fafely strained by 50,000 pounds. But the artift will always recollect, that we cannot have the fame confidence in iron as in timber. The faults of this last are much more eafily perceived; and when timber is too weak, it gives us warning of its failure, by yielding fenfibly before it breaks. This is not the case with iron; and much of its fervice depends on the honesty of the blackfmith.

In this way may any defign of a roof be examined sketch of We shall here give the reader a sketch of two or three some trusted trusted roofs, which have been executed in the chief roofs, &c. varieties of circumftances which occur in common prac-

Fig. 22. is the roof of St Paul's Church, Covent Gar-Fig. 22. den, London, the work of Inigo Jones. Its conftruction is fingular. The roof extends to a confiderable diffance beyond the building, and the ends of the tie-beams fupport the Tufcan corniche, appearing like the mutules of the Doric order. Such a roof could not rest on the tie-beam. Inigo Jones has therefore supported it by a trufs below it; and the height has allowed him to make this extremely strong with very little timber. It is accounted the highest roof of its width in London. But this was not difficult, by reason of the great height which its extreme width allowed him to employ without hurting the beauty of it by too high a pitch. The supports, however, are disposed with judgement (A).

Fig. 23. is a kirb or manfard roof by Price, and fup-Fig. 23. posed to be of large dimensions, having braces to carry

the middle of the rafters.

It will ferve exceedingly well for a church having pillars. The middle part of the tie-beam being taken away, the strains are very well balanced, fo that there is no risk of its pushing aside the pillar on which it rests.

Fig. 24. is the celebrated roof of the theatre of the Fig. 24. university of Oxford, by Sir Christopher Wren. The span between the walls is 75 feet. This is accounted a very ingenious, and is a fingular performance. The middle part of it is almost unchangeable in its form; but from this circumstance it does not distribute the horizontal thrust with the same regularity as the usual construction. The horizontal thrust on the tie-beam is about twice the weight of the roof, and is withflood by an iron ftrap below the beam, which ftretches the whole width of the building in the form of a rope, making part of the ornament of the ceiling.

In all the roofs which we have confidered hitherto, Gales in the thrust is discharged entirely from the walls by the which the tie-beam. But this cannot always be done. We fre-thrust canquently want great elevation within, and arched ceil-not be difings. In such cases, it is a much more disticult matter charged to keep the walls free of all preffure outwards, and walls by the there are few buildings where it is completely done, tie beam. Yet this is the greatest fault of a roof. We shall just

point out the methods which may be most successfully We have faid that a tie-beam just performs the office

of a ftring. We have faid the same of the king-post. Now Fig. 26.

Now suppose two rafters AB, BC (fig. 25.) moveable about the point B, and relling on the top of the walls. If the line BD be suspended from B, and the two lines DA, DC be failened to the feet of the rafters, and if these lines be incapable of extension, it is plain that all thruit is removed from the walls as effectually as by a common tie-beam. And by shortening BD to Bd, we gain a greater infide height, and more room for an arched ceiling. Now if we substitute a king-post BD (fig. 26.) and two stretchers or hammer beams DA, DC for the other strings, and connect them firmly by means of iron straps, we obtain our purpose.

Let us compare this roof with a tie-beam roof in point of firain and firength. Recur to fig. 25. and complete the parallelogram ABCF, and draw the diagonals AC, BF crothing in E. Draw BG perpendicular to CD. We have feen that the weight of the roof (which we may call W) is to the horizontal thrust

at C as BF to EC; and if we express this thrust by T, we have  $T = \frac{W \times EC}{BF}$ . We may at present con-

fider BC as a lever moveable round the joint B, and pulled at C in the direction EC by the hor zontal thruft, and held b ck by the ftring pulling in the direction CD. Suppose that the forces in the directions EC and CD are in equilibrio, and let us find the force S by which the ftring CD is strained. These forces muit (by the property of the lever) be inverfely as the perpendiculars drawn from the centre of motion on the lines of their direction. Therefore BG : BE = T : S,

and  $S = T \times \frac{BE}{BG}$ ,  $= W \times \frac{BE.EC}{BF.BG}$ .

Therefore the strain upon each of the ties DA and DC is always greater than the horizontal thrust or the firain on a fimple tie beam. This would be no great inconvenience, because the smallest dimensions that we could give to these ties, so as to procure sufficient fixtures to the adjoining pieces, are always sufficient to withstand this strain. But although the same may be faid of the iron fraps which make the ultimate connections, there is always fome hazard of imperfect work, cracks, or flaws, which are not perceived. We can judge with tolerable certainty of the foundness of a piece of timber, but cannot say so much of a piece of iron. Moreover, there is a prodigious flrain excited on the king-post, when BG is very short in omparison of BE, namely, the force compounded of the two strains S and S on the ties DA and DC.

But there is another defect from which the firaight tie-beam is entirely free. All roofs fettle a little .-When this roof fettles, and the points B and D de fcend, the legs BA, BC must spread further out, and thus a preffure outwards is excited on the walls. It is foldom therefore that this kind of roof can be executed in this simple form, and other contrivances are necessary for counteracting this supervening action on the wells. Fig. 27. is one of the best which we have seen. a d is executed with great fuccess in the circus or equestrian theatre (now, 1800, a concert room) in Edinburgh, the width being 60 feet. The pieces EF and ED help to take of fome of the weight, and by their greater unrightness they evert a smaller thrust on the walls. The beam D d is also a fort of truss-beam, having something of the same effect, Mr Price has given another very

judicious one of this kind, British Carpenter, Plate IK, Roof. fig. C. from which the tie-beam may be taken away, and there will remain very little thruth on the walls. Those which he has given in the following Plate K are, in our opinion, very faulty. The whole flrain in thefe laft the fixtures of the ties are allo not well calculated to re-

It is fearcely necessary to remind the reader, that in General oball that we have deliver d on this fu ject, we have at-14, anonkind; but in great buildings the whole weight of the covering is made to rest on a few principal rafters, which are connected by beams placed horizontally, and either mortif d into them or fearfed on them. These are called purlins. Small rafters are laid from purlin to purlin; and on these the laths for tiles, or the skirlingboards for flates, are nailed. Thus the covering does not immediately reft on the principal frames. This allows fome more liberty in their confiruction, because the garrets can be so divided that the principal rafters shall be in the partitions and the rest left unencumbered. This conftruction is fo far analogous to that of floors which are confiructed with girders, binding, and bridge-

It may appear prefuming in us to question the propriety of this practice. There are fituations in which it is unavoidable, as in the roofs of churches, which can be allowed to rest on some pillars. In other fituations, where partition-walls intervene at a diffance not too great for a flout purlin, no principal rafters are necessary, and the whole may be roofed with short rafters of very flender feantling. But in a great uniform roof, which has no intermediate supports, it requires at least some reasons for preferring this method of carcase roofing to the simple method of making all the rafters alike. The method of carcale roofing requires the selection of the greatest logs of timber, which are foldom of equal strength and foundness with thinner rafters. In these the outside planks can be taken off, and the best part alone worked up. It also exposes to all the defects of workmanship in the mortising of purline, and the weakening of the rafters by this very mortifing; and it brings an additional load of purlins and fhort rafters. A roof thus confirthed may furely be compared with a floor of fimilar confiruction. Here there is not a shedow of doubt, that if the girders were faved into Planks, and these planks laid as joists sufficiently near for carrying the flooling boards, they will have the time thren that before, except to much as is taken out of the tit ler by the faw. This will not amount to one tenth out of the timber in the bi ding, bridging, and ceiling joift, which are an additional ad; and all the mortifes and oth r j. it is as are fo many dimi u ions of the ftrength of the give s; and as no lort of a c. rhenter's work requires more skill and he uracy of evention, ve are exposed to miny charges of imperfection. But, not to rell on these confiderations, however reasonable they may appear, we shall relate an experiment made by one on whose judgment and exactness

Two me 1 is of floors were made 18 inches square of Coffee and the finest uniform deal, which had been long seafoned ment.

Fiz. 27.

The one confitted of fimple joitts, and the other was framed with girders, binding, bridging, and ceiling juilts. The plain joitts of the one contained the fame quantity of timber with the girders alone of the other, and both were made by a most accurate workman. They were placed in wooden trunks 18 inches figuare within, and reited on a strong projection on the inside. Small shot was gradually poured in upon the sloors, so as to spread uniformly over them. The plain joitted shoor broke down with 437 pounds, and the carcate sloor with 327. The first broke without giving any warning; the other gave a violent crack when 294 pounds had been

A trial had been made before, and the loads were 341 and 482. But the models having been made by a less accurate hand, it was not thought a fair specimen of the strength which might be given to a carease sloor.

The only argument of weight which we can recollect in favour of the compound confruction of roofs is, that the plain method would pradigiously increase the quantity of work, would admit nothing but long timber, which would greatly add to the expence, and would make the garrets a mere thicket of planks. We admit this in its full force; but we continue to be of the opinion that plain roots are greatly superior in point of strength, and therefore should be adopted in cases where the great difficulty is to insure this necessary circumstance.

It would appear very neglectful to omit an account of the roofs put on round buildings, fuch as domes, cupolas, and the like. They appear to be the most difficult tasks in the carpenter art. But the difficulty lies entirely in the mode of framing, or what the French call the trait de charpenterie. The view which we are taking of the fubject, as a part of mechanical science, has little connection with this. It is plain, that whatever form of a trufs is excellent in a fquare building must be equally fo as one of the frames of a round one; and the only difficulty is how to manage their mutual interfections at the top. Some of them must be discontinued before they reach that length, and common fense will teach us to cut them thort alternately, and always leave as many, that they may stand equally thick as at their first springing from the base of the dome. Thus the length of the purlins which reach from trufs to trufs will never be too great.

The truth is, that a round building which gathers in at top, like a glass house, a potter's kiln, or a spire fleeple, instead of being the most difficult to erect with flability, is of all others the eafieft. Nothing can show this more forcibly than daily practice, where they are run up without centres and without feaffoldings; and it requires grofs blunders indeed in the choice of their outline to put them in much danger of falling from a want of equilibrium. In like manner, a dome of carpen ry can hardly fall, give it what shape or what construction you will. Il cannot fall unless some part of it slies out at the bottom; an iron hoop round it, or straps at the joinings of the truffes and purlins, which make an equivalent to a hoop, will effectually fecure it. And as beauty requires that a dome shall spring almost perpendicularly from the wall, it is evident that there is hardly any thrust to force out the walls. The only part where this is to be guarded against is, where the tangent is inclined about 40 or 50 degrees to the horizon.

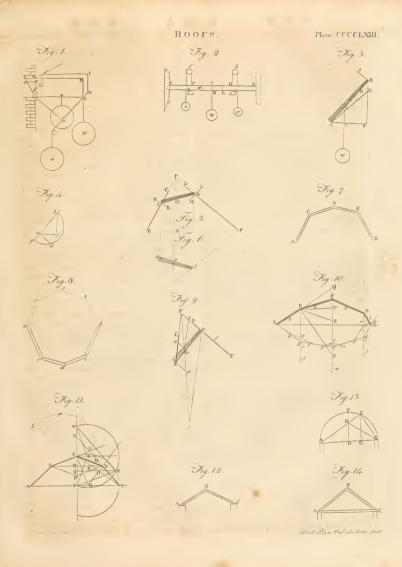
Here it will be proper to make a course of firm horizon. Roof a taljoinings.

We doubt not but that domes of carpentry will now be raifed of great extent, The Halle du Bled at Paris, of 200 feet in diameter, was the invention of an intelligent carpenter, the Sieur Moulineau. He was not by any means a man of science, but had much more mechanical knowledge than artifans usually have, and was convinced that a very thin shell of timber might not only be fo shaped as to be nearly in equilibrio, but that if hooped or firmly connected horizontally, it would have all the stiffnels that was necessary; and he presented his project to the magistracy of Paris. The grandeur of it pleased them, but they doubted of its possibility. Being a great public work, they prevailed on the Academy of Sciences to confider it. The members, who were competent judges, were infantly firuck with the justness of Mr Moulineau's principles, and astonished that a thing so plain had not been long familiar to every house carpenter. It quickly became an universal topic of conversation, dispute, and cabal, in the polite circles of Paris. But the Academy having given a very favourable report of their opinion, the project was immediately carried into execution, and foon completed; and now stands as one of the great exhibitions of Paris.

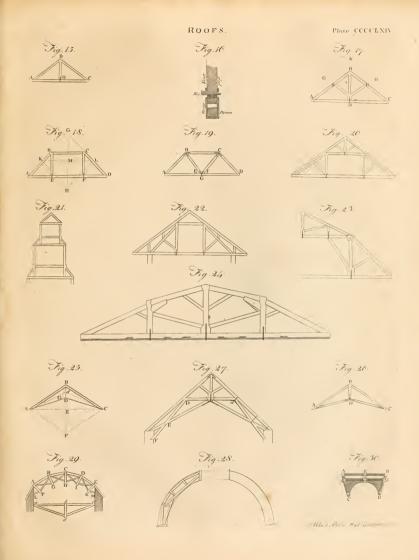
The construction of this dome is the simplest thing that can be imagined. The circular ribs which compose it confist of planks nine feet long, 13 inches broad, and three inches thick; and each rib conlists of three of thefe planks bolted together in fuch a manner that two joints meet. A rib is begun, for instance, with a plank of three feet long standing between one of fix feet and another of nine, and this is continued to the head of it. No machinery was necessary for earrying up such small pieces, and the whole went up like a piece of bricklayer's work. At various distances these ribs were connected horizontally by purlins and iron straps, which made fo many hoops to the whole. When the work had reached such a height, that the distance of the ribs was two-thirds of the original distance, every third rib was discontinued, and the space was left open and glazed. When carried so much higher that the distance of the ribs is one-third of the original distance, every second rib (new confifling of two ribs very near each other) is in like manner discontinued, and the void is glazed. A little above this the heads of the ribs are framed into a circular ring of timber, which forms a wide opening in the middle; over which is a glazed canopy or umbrella, with an opening between it and the dome for allowing the heated air to get out. All who have feen this dome fay, that it is the most beautiful and magnificent object they have ever beheld.

The only difficulty which occurs in the confruction of wooden domes is, when they are unequally loaded, by carrying a heavy lauthern or cupola in the middle. In fuch a cafe, if the dome were a mere field, it would be cruthed in at the top, or the action of the wind on the lanthern might tear it out of its place. Such a dome muft therefore confit of truffed frames. Mr Price has given a very good one in his plate OP, though much fironger in the truffes than there was any occasion for. This causes a great loss of room, and throws the lights of the lanthern too far up. It is evidently copied from Six Chrittopher Wren's dome of

Of the rock put en round huildings.









Roof

Rooke

Roof. St Paul's church in London; a model of propriety in its particular fituation, but by no means a general model of a wooden dome. It rests on the brick cone within it; and Sir Christopher has very ingeriously made use of it for stiffening this cone, as any intelligent perfon will perceive by attending to its construction (See Price, Plate (P).

Fig. 28.

marks on

No man

Fiz. 29.

Toofs.

Fig. 28. represents a dome executed in the Register Office in Edinburgh by James and Robert Adam, and is very agreeable to mechanical principles. The fpan is to feet clear, and the thickness is only 45.

49 Further re-WE cannot take leave of the subject without taking fome notice of what we have already spoken of with commendation by the name of Norman roofs. We called them Norman, because they were frequently executed by that people foon after their ettablishment in Italy and other parts of the fouth of Europe, and became the prevailing tafte in all the great baronial cafiles. Their architects were rivals to the Saracens and Moors, who aboat that time built many Christian churches; and the architecture which we now call Gothic feems to have ariten from their joint labours.

The principle of a Norman roof is extremely simple. The rafters all butted on joggled king-posts AF, BG, CH, &c. (fig. 29.), and braces or ties were then difposed in the intervals. In the middle of the roof HB and HD are evidently ties in a flate of extension, while the post CH is compressed by them. Towards the walls on each fide, as between B and F, and between F and L, they are braces, and are compressed. The ends of the posts were generally ornamented with knots of flowers, emboffed globes, and the like, and the whole texture of the truis was exhibited and dreffed

This construction admits of employing very short timbers; and this very circumstance gives greater strength to the trufs, because the angle which the brace or tie makes with the rafter is more open. We may also perceive that all thrust may be taken off the walls. If the pieces AF, BF, LF, be removed, all the remaining diagonal pieces act as ties, and the pieces directed to the centre act as firuts; and it may also be observed. that the principle will apply equally to a straight or flat roof or to a floor. A floor fuch as a b c, having the joint in two pieces a b, b c, with a first b d, and two ties, will require a much greater weight to break it than if it had a continued joift a c of the fame fcantling. And, laftly, a piece of timber acting as a tie is much stronger than the same piece acting as a strut : for in the latter fituation it is exposed to bending, and when bent it is much less able to withstand a very great strain. It must be acknowledged, however, that this advantage is balanced by the great inferiority of the joints in point of strength. The joint of a tie depends wholly on the pins; for this reason ties are never nsed in heavy works without strapping the joints with iron. In the roofs we are now describing the diagonal pieces of the middle part only act purely as ties, while those towards the sides act as struts or braces. Indeed they are feldom of fo very fimple construction as we have described, and are more generally constructed like the sketch in fig. 30. having two fets of rafters AB, a b, and the angles are filled up with thin planks, which give great stiffness and strength. They have also a double

fet of pulles, which connect the different truffes. The roof being this divided into squares, other purlins run between the middle points E of the rafters. The rafter is supported at E by a check put between it and the under ratter. The middle point of each huare of the roof is supported and stiffened by four braces, one of which springs from c, and its opposite from the spring part of the adjoining trus. The other two braces spring from the middle points of the lower purlins, which go horizontally from a and l to the next trufs, and are fup orted by planks in the lame manner as the rafters. By this contrivance the whole becomes very fliff and flrong.

We hope that the reader will not be difpleafed with Conclusion. our having taken some notice of what was the pride of our ancestors, and constituted a great part of the finery of the grand hall, where the feudal lord affembled his vaffals and displayed his magnificence. The intelligent mechanic will fee much to commend; and all who look at these roofs admire their apparent flimfy lightness, and wonder at their duration. We have feen a hall of 57 feet wide, the roof which was in four divisions, like a kirb roof, and the truffes were about 16 feet afunder. They were fingle rafters, as in fig. 30. and their dimen-fions were only eight inches by fix. The roof appeared perfectly found, and had been flanding ever fince the

Much of what has been faid on this subject may be applied to the confiruction of wooden bridges and the centres for turning the arches of frone-bridges. But the farther discussion of this must be the employment of another article.

ROOFING, the materials of which the roof of a house is composed. See the foregoing article.

ROOK. See Corvus, ORNITHOLOGY Index. Rooks are very destructive of corn, especially of wheat. They fearch out the lands where it is fown, and watching them more carefully than the owners, they perceive when the feed first begins to shoot up its blade; this is the time of their feeding on it. They will not be at the pains of fearthing for it at random in the fown land, for that is more trouble than so small a grain will requite them for: but as foon as these blades appear, they are by them directed, without loss of time or pairs, to the places where the grains lie; and in three or four days time they will root up fuch vast quantities, that a good erep is often thus destroyed in embryo. After a few days the wheat continuing to grow, its blades appear green above ground; and then the time of danger from of their mealy matter, that they are of no value to that bird, and it will no longer give itself the trouble to deftrov them.

Wheat that is fown to early as to floot up its green blades before the harvest is all carried in, is in no danger from these birds; because while it is in a flate worth their fearching for, the feattered corn in the harvest fields is easier come at, and they feed wholly on this, neglecting the fown grain. But as this cannot always be done, the farmers, to drive away thefe ravenous and mischievous birds, dig holes in the ground and stick up the feathers of rooks in them, and hang up dead rooks on flicks in feveral parts of the fields: but all this is of very little use; for the living rooks will tear up the ground about the feathers, and under the dead

ones, to fieal the feeds. A much better way than ei- of the next year, he was admiral of the white; and was for the kites and other birds of prey foon carry off the pieces and feed upon them. A gun is a good remedy while the person who has it is present; but as soon as he is gone, they will return with redoubled vigour to the field and tear up every thing before them.

The best remedy the farmer has is to watch well the time of the corn's being in the condition in which they feed upon it; and as this lafts only a few days, he should keep a boy in contlant pay to watch the field from daybreak till the dusk of the evening. Every time they fettle upon the ground to fly over it, the boy is to holloa, and throw up a dead rook into the air: this will always make them rife; and by degrees they will be fo tired of this conftant diffurbance, that they will feek out other places of preying, and will leave the ground even before the time of the corn's being unfit for them. The reason of their rising at the tossing up of their dead fellow creature is, that they are a bird extremely apprehensive of danger, and they are always alarmed when one of their comrades rifes. They take this for the rifing of an out-bird, and all fly off at the fignal.

ROOKE, SIR GEORGE, a gallant naval commander, born of an ancient and honourable family in Kent, in 1650. His merit raised him by regular steps to be vice admiral of the blue; in which flation he ferved in the battle of La Hogue, on the 22d of May 1692; when it was owing to his vigorous behaviour, that the last stroke was given on that important day, which threw the French entirely into confusion. But the next day he obtained still more glory; for he had orders to go into La Hogue, and burn the enemy's thips as they lay there. There were 13 large men of war, which had crowded as far up as possible; and the transports, tenders and ammunition ships, were disposed in such a manner that it was thought impossible to burn them. Befides, the French camp was in fight, with all the French and Irish troops that were to have been employed in the invation of England; and feveral batteries were raifed on the coast, well provided with heavy artillery. The vice-admiral made the necessary preparations for obeying his orders, but found it impossible to carry in the fhips of his foundron: he therefore ordered his light frigates to ply in close to the shore; and having manned out all his boats, went himfelf to give directions for the attack, burnt that very night fix threedeck-flins, and the next day fix more, from 76 to 60 guns, together with most of the transports and ammunition veffels; and this under the fire of all the batteries just mentioned, and in fight of all the French and Irish troops: yet this hold action coft the lives of no more than ten men. The vice-almiral's behaviour on this occasion appeared so great to King William, that having no onnortunity at that time of promoting him, he fertled a sention of 10001. er annum on him for life; and afterwards going to Portfmouth to view the fleet, went on board Mr Rooke's ship, dined with him, and then conferred on him the hon ur of knighthood, he having a little before made him vice-admiral of the

In consequence of other services he was in 1694 rai-Ind to the rank of admiral of the blue: towards the close

Rooke also appointed admiral and commander in chief in the

During King William's reign, Sir George was twice elected member for Portsmouth; and upon the accesfion of Queen Anne in 1702, he was contituted vice-admiral and lieutenant of the admiralty of England, as also lieutenant of the fleets and feas of this kingdom. Upon the declaration of war against France, he was ordered to command a fleet fent against Cadiz, the duke of Ormond having the command of the land forces. On his passage home, receiving an account that the galleons, under the eleort of a itrong French squadron, were got into the harbour of Vigo, he resolved to attack them; and on the 11th of October came before the harbour of Rondondello, where the French commander had neglected nothing necessary for putting the place into the best poslure of defence. But notwithstanding this, a detachment of 15 English and 10 Dutch men of war, of the line of battle, with all the fire ships, were ordered in; the frigates and bomb-veffels followed; the great ships moved after them, and the army landed near Rondondello. The whole fervice was performed under Sir George's directions, with admirable conduct and bravery; for, in short, all the ships were destroyed or taken, prodigious damage done to the enemy, and vaft wealth acquired by the allies. For this action Sir George received the thanks of the House of Commons, a day of thankfgiving was appointed both by the queen and the flates-general, and Sir George was appointed to a feat in the privy-council; yet, notwithstanding this, the House of Lords resolved to inquire into his conduct at Cadiz. But he fo fully juftified himfelf, that a vote was paffed, approving his be-

In the spring of the year 1704, Sir George commanded the thips of war which convoyed King Chailes III. of Spain to Lifbon. In July, he attacked Gibraltar; when, by the bravery of the English seamen, the place was taken on the 24th, though the town was extremely firong, well furnished with ammunition, and had 100 guns mounted, all facing the fea and the narrow paffes to the land: An action which was conceived and executed in less than a week; though it has fince endured fieges of many months continuance, and more than once baffled the united forces of France and Spain. This brave officer being at last obliged, by the prevalence of party-fpirit, to quit the service of his country, retired to his feat in Kent; where he spent the remainder of his days as a private gentleman

He was thrice married; and by his fecond lady Mrs Luttrell left one fon. He died January 24. 1708-9. in his 58th year, and was buried in Canterbury cathedral, where a monument is erected to his memory. In his private life he was a goo! hufband and a kind mafter, lived hospitably towards his neighbours, and left behind him a moderate fortune; fo moderate, that when he came to make his will, it for rifed those who were prefent: but Sir George affioned the reason in a few words, " I do not leave much (faid he), but what I leave was honefl'v gotten; it never coft a failor a tear, or the nation a farthing."

ROOM, chamber, parlour, or other apartment in a house. See ARCHITECTURE and VENTILATON.

ROOT, among botanists, denotes that part of a plant plant which imbibes the nutritious juices of the earth, and transmits them to the other parts. See PLANT and RADIX.

Colour extracted from ROOTS. See COLOUR-Making

Nº 41.

ROOT, in Algebra and Arithmetic, denotes any number which, multiplied by itself once or oftener, produces any other number; and is called the fquare, cube, biquadrate, &c. root, according to the number of multiplications. Thus, 2 is the fquare of 4; the cube-root of 8; the biquadrate root of 16, &c.

ROOT of an equation, denotes the value of the unknown quantity in an equation, which is fuch a quantity, as being substituted instead of that unknown letter, into the equation, shall make all the terms to vanish, or both fides equal to each other. Thus, of the equation 3\*+5=14, the root or value of x is 3, because substituting 3 for x

makes it become 9+5=14.

ROOTS, real and imaginary. The odd roots, as the 3d, 5th, 7th, &c. of all real quantities, whether politive or negative, are real, and are respectively positive or negative. So the cube root of at is a, and of -a3 is -a, But the even roots, as the 2d, 4th, 6th, &c. are only real when the quantity is politive, being imaginary or impossible when the quantity is negative. So the square root of a2 is a, which is real; but the fquare root of -a2, that is, \( \sigma - a^2 \), is imaginary or impossible, because there is no quantity, neither +a nor -a, which by fquaring will make the given negative fquare - a2.

ROPE, is a word too familiar to need a definition; and we need fav no more than that it is only applied to a confiderable collection of twifted fibres. Smaller bands are called lines, ftrings, cords; and it is not applied with great propriety even to those, unless they are composed of smaller things of the same kind twifted together. Two hay bands twifted together would be called a rope. All the different kinds of this manufacture, from a fishing-line or whip-cord to the cable of a first-rate ship of war, go by the general name of

Ropes are made of every fubstance that is sufficiently fibrous, flexible, and tenacious, but chiefly of the barks of plants. The Chinese and other orientals even make them of the ligneous parts of feveral plants, fuch as certain bamboos and reeds, the ftems of the aloes, the fibrous covering of the cocoa nut, the filament of the cotton pod, and the leaves of fome graffes fuch as the sparte (Lygeum, Linn.) The aloe (Agave, Linn.) and the sparte exceed all others in strength. But the barks of plants are the most productive of fibrous matter fit for this manufacture. Those of the linden tree (Tilia), of the willow, the bramble, the nettle, are frequently used: but hemp and flax are of all others the beil; and of these the hemp is preferred, and employed in all cordage exceeding the fize of a line, and even in many of

Hemp is very various in its ufeful qualities. Thefe are great strength, and the length and finenels of the fibre. Being a plant of very greedy growth, it fucks up much of the unaltered juices of the foil, and therefore differs greatly according to its foil, climate, and culture. The best in Europe comes to us through Riga, to which port it is brought from very diffant Riga rein (that is, clean) hemp. Its fibre is not the longest (at least in the dressed state in which we get it) Ropeof all others, but it is the finest, most flexible, and making, strongest. The next to this is supposed to be the Petersburgh braak hemp. Other hemps are esteemed nearly in the following order:-Riga outshot, Petersburgh outflot, hemp from Koningsburg, Archangel, Sweden, Memel. Chucking is a name given to a hemp that comes from various places, long in the fibre, but coarfe and harsh, and its strength is inferior to hemps which one would think weaker. Its texture is fuch, that it does not admit splitting with the hatchet so as to be more completely dreffed. It is therefore keyt in its coarle form, and used for inferior cordage. It is, however, a good and strong hemp, but will not make fine work. There are doubtless many good hemps in the fouthern parts of Europe, but little of them is brought to our market. Codilla, half clean, &c, are portions of the above-mentioned hemps, scparated by the dreffing, and may be confidered as broken fibres of

Only the first qualities are manufactured for the rigging of the royal navy and for the thips of the East In-

ROPE-MAKING is an art of very great importance, and I-pportance there are few that better deferve the attention of the in- of the art telligent observer. Hardly any art can be carried on of ropewithout the affiftance of the rope-maker. Cordage making makes the very finews and muscles of a ship; and every improvement which can be made in its preparation, either in respect to itrength or pliableness, must be of immenfe fervice to the mariner, and to the commerce and the defence of nations,

We shall give a very short account of the manufacture, which will not indeed fully instruct the artificers, but will give fuch a view of the process as shall enable the reader to judge, from principles, of the propriety of the different parts of the manipulation, and perceive its defects, and

the means for removing them.

The aim of the rope-maker is to unite the ftrength The aim of of a great number of fibres. This would be done in which is to the completest manner by laying the fibres parallel to unite the each other, and fastening the bundle at the two ends: namerous but this would be of very limited use, because the fi-fibres. bres are flort, not exceeding three feet and a half at an average. They must therefore be entangled together, in fuch a manner that the strength of a fibre shall not be able to draw it out from among the rest of the bundle. This is done by twifting or twining them together, which causes them mutually to compress each other. When the fibres are fo disposed in a long skain, that their ends fucceed each other along its length, without many of them meeting in one place, and this fkain is twifted round and round, we may cause them to compress fibre which we attempt to pull out may be more than its cohefion can overcome. It will therefore break. Confequently, if we pull at this twifted fkain, we will not separate it by drawing one parcel out from among the be nearly of the fime thrength in every part. If there is any part where many ends of fibres meet, the thain

We know very well that we can twift a flair of fibres fo very hard, that it will break with ay all

Riene-L---Thele fitwifted as to break with the leaft

to twiff it harder. In this flate all the fibres are already thrained to the utmost of their strength. Such a fkain of fibres can have no thrength. It cannot carry a weight, because each fibre is already strained in the fame manner as if loaded with as much weight as it is be to much able to bear. What we have faid of this extreme case is true in a certain extent of every degree of twift that we give the fibres. Whatever force is actually exerted by a twifted fibre, in order that it may fufficiently compress the rest to hinder them from being drawn out, must be confidered as a weight hanging on that fibre, and must be deduced from its absolute itremoth of cohesion, before we can estimate the strength of the skain. The strength of the fixain is the remainder of the absolute strength of the fibres, after we have deduced the force employed in twifting them together.

Practical inference.

From this observation may be deduced a fundamental principle in rope-making, that all twifting, beyond what is necessary for preventing the fibres from being drawn out without breaking, diminishes the strength of the cordage, and should be avoided when in our power. It is

of importance to keep this in mind.

Method to the fibres.

It is necess ry then to twit the fibres of hemp togebe observed ther, in order to make a rope; but we should make a in twifting very bad rope if we contented ourselves with twifting together a bunch of hemp fufficiently large to withstand the strains to which the rope is to be exposed. As foon as we let it go out of our hands, it would untwift itself, and be again a loose bundle of hemp; for the fibres are flrained, and they are in a confiderable degree elastic; they contract again, and thus untwist the rope or skain. It is necessary to continue the twist in fuch a manner, that the tendency to untwift in one part may act against the same tendency in another and balance it. The process, therefore, of rope-making is more complicated.

The first part of this process is SPINNING of ROPE-YARNS. This is done in various ways, and with different machinery, according to the nature of the intended cordage. We shall confine our description to the manufacture of the larger kinds, such as are used for the stand-

ing and running rigging of thips.

Description of the apmanner of ufing it. CCGCLXV. Fig. 1.

Spinning

yarns.

An alley or walk is inclosed for the purpose, about 200 fathoms long, and of a breadth fuited to the extent paratus and of the manufacture. It is fometimes covered above. At the upper end of this ROPE-WALK is fet up the spinning-wheel, of a form refembling that in fig. 1. The band of this wheel goes over feveral rollers called WHIRLS, turning on pivots in brafs holes. The pivots at one end come through the frame, and terminate in little hooks. The wheel being turned by a winch, gives motion in one direction to all those whirls. The spinner has a bundle of dressed bemp round his waist, with the two ends meeting before him. The hemp is laid in this bundle in the same way that women spread the flax on the distaff. There is great variety in this; but the general aim is to lav the fil res in fuch a manner, that as long as the bundle lasts there may be an equal number of the ends at the extremity, and that a fibre 1 ay never offer itself double or in a bight. The fpinner draws out a proper number of fibres, twifts them with his fingers, and having got a fufficient length de-tached, he fixes it to the hook of a whirl. The wheel Is now turned, and the fkain is twiffed, becoming what is called a ROPE-"ARN, and the spinner walks back-

wards Down the rope-walk. The part already twifted Royal draws along with it more fibres out of the bundle. The making. fpinner aids this with his fingers, fupplying hemp in due proportion as he walks away from the wheel, and taking care that the fibres come in equally from both fides of his bundle, and that they enter always with their ends, and not by the middle, which would double them. He should also endeayour to enter every fibre at the heart of the varn. This will cause all the fibres to mix equally in making it up, and will make the work fmooth. because one end of each fibre is by this means buried among the rest, and the other end only lies outward; and this, in palling through the grafp of the frinner, who preffes it tight with his thumb and palm, is also made to lie smooth. The greatest fault that can be committed in spinning is to allow a small thread to be twifted off from one fide of the hemp, and then to cover this with hemp fupplied from the other fide: for it is evilent that the fibres of the central thread make very long spirals, and the skin of fibres which covers them must be much more oblique. This covering has but little connection with what is below it, and will easily be detached. But even while it remains, the varn cannot be firong; for, on pulling it, the middle part, which lies the fraightest, must bear all the strain, while the outer fibres, that are lying obliquely, are only drawn a little more parallel to the axis. This defect will always happen if the hemp be supplied in a considerable body to a yarn that is then fpinning fmall. Into whatever part of the varn it is made to enter, it becomes a fort of loofely connected wrapper. Such a yarn, when Fig. 2. untwifted a little, will have the appearance of fig. 2. Fg. 2. while a good yarn looks like fig. 3. "A good spinner therefore endeavours always to supply the hemp in the form of a thin flat skain with his left hand, while his right is employed in grasping firmly the varn that is

it may not sun into loops or KINKS. It is evident, that both the arrangement of the fibres and the degree of twifting depend on the skill and dexterity of the spinner, and that he must be instructed, not by a book, but by a mafter. The degree of twift depends on the rate of the wheel's motion, combined

twining off, and in holding it tight from the whirl, that

with the retrograde walk of the fpinner.

We may suppose him arrived at the lower end of the walk, or as far as is necessary for the intended length of his yarn. He calls out, and another fpinner immediately detaches the yarn from the hook of the whirl, gives it to another, who carries it ande to the reel, and this fecond fpinner attaches his own hemp to the whirl hook. In the mean time, the first spinner keeps fast hold of the end of his yarn; for the hemp, being dry, is very elastic, and if he were to let it go out of his hand it would instantly untwist, and become little better than loose hemp. He waits, therefore, till he sees the reeler begin to turn the reel, and he goes flowly up the walk, keeping the yarn of an equal tightness all the way, till he arrives at the wheel, where he waits with his yarn in hand till another fpinner has finithed his yarn. The first fpinner takes it off the whirl hook, joins it to his own, that it may follow it on the reel, and begins a new yarn. Rope-varns, for the greatest part of the large rig-Different

ging, are from a quarter of an inch to fomewhat more ki da of than a third of an inch in circumference, or of fuch a rope-yarns fize that 160 fathoms weigh from three and a half to

Rose- four counds when white. The different fizes of varns soaking are named from the number of them contained in a strand of a rope of three inches in circumference. Few are to coarfe that 16 will make a ftrand of British cordage; 18 is not unfrequent for cable yarns, or yarns foun from harth and coarfe hemp; 25 is, we believe. the fined fize which is worked up for the rigging of a thip. Much finer are indeed foun for founding lines, fishing lines, and many other marine uses, and for the other demands of fociety. Ten good fpinners will work up above 600 weight of hemp in a day; but this depends on the weather. In very dry weather the hemp is very elattic, and requires great attention to make fmooth work. In the warmer climates, the foinner is permitted to moisten the rag with which he grasps the yarn in his right hand for each yarn. No work can be done in an open fpinning walk in rainy weather. because the yarns would not take on the tar, if immediately tarred, and would not if kept on the reel for a long time.

Method of converting the roleswarms into cords, or lines.

The fecond part of the process is the conversion of the yarns into what may with propriety be called a rope, cord, or line. That we may have a clear conception of the principle which regulates this part of the process, we shall begin with the simplest possible case, the union of two yarns into one line. This is not a very usual fabric for rigging, but we felect it for its simplicity.

When hemp has been fplit into very fine fiores by the hatchel, it becomes exceedingly foft and pliant, and after it has lain for some time in the form of fine yarn, it may be unreeled and thrown loofe, without lofing much of its twift. Two fuch yarns may be put on the whirl of a spinning wheel, and thrown, like flaxen yarn, so as to make fewing thread. It is in this way, indeed, that the failmaker's fewing thread is manufactured; and when it has been kept on the reel, or on balls or bobbins, fur fome time, it retains its twift as well as its uses require. But this is by no means the case with yarns fpun for great cordage. The hemp is fo elastic, the number of fibres twifted together is fo great, and the diameter of the yarn (which is a fort of lever on which the elasticity of the fibre exerts itself) is so confiderable, that no keeping will make the fibres retain this conftrained position. The end of a rope-yarn being thrown lo fe, it will immediately untwift, and this with confiderable force and speed. It would, therefore, be a fruitless attempt to twift two fuch yarns together; yet the ingenuity of man has contrived to make use of this very tendency to untwift not only to counteract itself, but even to produce another and a permanent twist, which requires force to undo it, and which will recover itself when this force is removed. Every person must recollect that, when he has twifted a packthread very hard with his fingers between his two hands, if he flackens the thread by bringing his hands nearer together, the packthread will immediately curl up, running into loops or kinks, and will even twift itself into a neat and firm cord. Familiar as this fact is, it would puzzle any person not accustomed to these subjects to explain it with distinctness. We shall consider it with some care, not as a piece of mechanical curiofity, but as a fundamental principle in this manufacture, which will give us clear instructions to direct us in the most delicate part of the whole process. And we beg the attention of the VOL. XVIII. Part I.

artiffs themselves to a thing which they seem to have Ropeoverlooked.

Let md, nd (fig. 4.) be two yarns fixed to one Fig. 4. point d, and let both of them be twilled, each round its own axis, in the direction abc, which will cause the fibres to lie in a forew form, as represented in the floure. If the end d of the yarn md were at liberty to turn round the point d, it would turn accordingly, as often as the end m is turned round, and the varn would acquire no twift; but being attached to fome folid body it cannot turn without turning this body. It has, however, this tendency, and the body muit be forcibly prevented from turning. If it be held fait for a time, and then let go, it will be turned round, and it will not stop till it has turned as often as the end m has been twisted, and now all the twist will be undone. Thus it is the tendency of the varn md to untwift at the end d (because it is kept fail at m), which produces this motion of the body attached to it at d. What we have faid of the yarn m d is equally true of the yarn nd. Both tend to turn, and will turn, the body attached at d round the common axis, in the fame direction in which they are twifted. Let fig. 5. be supposed Fig. 5. a cross section of the two yarns touching each other at d, and there glued to a board. The fibres of each pull obliquely, that is, they both pull away from the board, and pull laterally. The direction of this lateral pull of the fibres in the circumference of each yarn is reprefented by the little darts drawn round the circumferences. These actions directly oppose and balance each other at d; but in the femicircles oet, tfo, they evidently confoire to turn the board round in the fame direction. The same may be said of the outer halves of any circles described within these. In the inner halves of these inner circles the actions of some fibres oppose each other; but in every circle there are many more confairing actions than opposing ones, and the conspiring actions exert themselves by longer levers, so that their joint momentum greatly exceeds that of the oppofing forces. It may be demonstrated, that if all the fibres exert equal forces, the force which tends to turn the board round the common axis is two-thirds of the force employed to twift both the yarns.

Suppose then that the folid body to which the yarns are attached is at liberty to turn round the common axis; it cannot do this without carrying the yarns round with it. They must, therefore, turn round each other, and thus compose a rope or cord k/, having its component yarns (now called frands) lying in a direction opposite to that of the fibres in each strand. The rope will take this twift, while each of the flrands is really untwifting, and the motion will not flop till all is again in equilibrio. If the yarns had no dianieter and no rigidity, their elastic contraction would not be balanced till the cord had made half the number of turns which had been given to that part of the yarn which is thus doubled up. But, as the yarns have a sensible diameter, the same ultimate contraction of the fibres will be expended by the twifting of the cord in fewer turns, even if the yarns had no rigidity. The turns necessary for this purpose will be so much fewer, in proportion to the twift of the yarns, as the fibres of the yarn lie more obliquely, that is, as the yarns are more twifted. But further, this contractile force has to overcome the rigidity M ra

Rope- rigidity or fliffnels of the yarns. This requires force making merely to bend it into the forew form; and therefore, when all is again at reft, the fibres are in a flate of flrain. and the rope is not so much closed by doubling as it would have been had the yarns been fofter. If any thing can be done to it in this state which will fosten the yarns, it will twift itself more up. It has therefore a tendency to twift more up; and if this be aided by an external force which will bend the ftrands, this will happen. Beating it with a foft mallet will have this effect; or, if it be forcibly twifted till the fibres are allowed to contract as much as they would have done had the varn been perfectly foft, the cord will keep this twift without any effort; and this must be confidered as its most perfect state, in relation to the degree of twist originally given to the yarns. It will have no tendency to run into kinks, which is both troublefome and dangerous, and the fibres will not be exerting any ufelefs effort.

> To attain this state should therefore be the aim of every part of this fecond process; and this principle should be kept in view through the whole of it.

> The component parts of a rope are called itrands, as has been already observed; and the operation of uniting them with a permanent twift is called laying or clofing, the latter term being chiefly appropriated to cables and

other very large cordage.

Lines and cordage less than 1 inches circumference Description of the ma- are laid at the fpinning wheel. The workman fattens the ends of each of two or three yarns to feparate whirlhooks. The remote ends are united in a knot. This is put on one of the hooks of a fwivel called the loper, reprefented in fig. 6. and care is taken that the varns are of equal lengths and twift. A piece of foft cord is put on the other hook of the loper; and, being put over a pulley several feet from the ground, a weight is hung on it, which stretches the yarn. When the workman fees that they are equally firetched, he orders the wheel to be turned in the fame direction as when twining the varns. This would twine them harder; but the fwivel of the loper gives way to the strain, and the yarns immediately twift around each other, and form a line or cord. In doing this the yarns lofe their twift. This is restored by the wheel. But this simple operation would make a very bad line, which would be flack, and would not hold its twift; for, by the turning of the loper, the strands twist immediately together, to a great distance from the loper. By this turning of the loper the yarns are untwifted. The wheel reftores their twift only to that part of the yarns that remains separate from the others, but cannot do it in that part where they are already twined round each other, because their mutual pressure prevents the twist from advancing. It is, therefore, necessary to retard this tendency to twine, by keeping the yarns apart. This is done by a little tool called the top, represented in fig. 7.

It is a truncated cone, having three or more notches along its fides, and a handle called the flaff. This is put between the firands, the small end next the loper, and it is preffed gently into the angle formed by the yarns which lie in the notches. The wheel being now their pressure on the top gives it a strong tendency to come out of the angle, and also to turn round. The workman does not allow this till he thinks the yarns

fufficiently hardened. Then he yields to the preffure, Ropel and the top comes away from the fwivel, which imme. making. diately turns round, and the line begins to lay .- Gradually yielding to this preffure, the workman flowly comes up towards the wheel, and the laying goes on, till the top is at last close to the wheel, and the work is done. In the mean time, the varns are shortened, both by the twining of each and the laying of the cord. The weight, therefore, gradually rifes. The use of this weight is evidently to oblige the yarn to take a proper degree of twift, and not run into kinks.

A cord or line made in this way has always fome tendency to twift a little more. However little friction . there may be in the loper, there is fome, so that the turns which the cord has made in the laving are not enough to balance completely the elafticity of the yarns; and the weight being appended causes the firands to be more nearly in the direction of the axis, in the fame manner as it would firetch and untwift a little any rope to which it is hung. On the whole, however, the twift of a laid line is permanent, and not like that upon thread doubled or thrown in a mill, which remains only in consequence of the great softness and flexibility of the yarn.

The process for laying or closing large cordage is Large or confiderably different from this. The thrands of which hawferthe rope is composed consist of many yarns, and re-laid corquire a confiderable degree of hardening. This cannot dage is difbe done by a whirl driven by a wheel band; it requires formed. the power of a crank turned by the hand. The firands. when properly hardened, become very fliff, and when bent round the top are not able to transmit force enough for laying the heavy and unpliant rope which forms beyond it. The elaftic twift of the hardened firands must, therefore, be affisted by an external force. All this requires a different machinery and a different process.

At the upper end of the walk is fixed up the tackle- Machinery, beard, fig. 8. This confifts of a strong oaken plank and mode called a breaft-board, having three or more holes in it, of using it fuch as A, B, C, fitted with brafs or iron plates. Into in this case, these are put iron cranks, called heavers, which have Fig. 8. hooks, or forelocks, and keys, on the ends of their fpindles. They are placed at fuch a diffance from each other, that the workmen do not interfere with each other while turning them round. This breaft-board is fixed to the top of strong posts well secured by struts or braces facing the lower end of the walk. At the lower end is another breast-board fixed to the upright posts of a sledge, which may be loaded with stones or other weights. Similar cranks are placed in the holes of this breast-board. The whole goes by the name of the fledge; (fee fig. 9.). The top necessary for closing Fig. 9. large cordage is too heavy to be held in the hand. It therefore has a long flaff, which has a truck on the end. This refts on the ground; but even this is not enough in laying great cables. The top must be supported on a carriage, as shown in fig. 10. where it must Fig. 10. lie very fleady, and need no attendance, because the mafter workman has fufficient employment in attending to the manner in which the strands close behind the top, and in helping them by various methods. The top is, therefore, fixed to the carriage by lashing its staff to the two upright polls. A piece of fost rope, or strap, is attached to the handle of the top by the middle, and its two ends are brought back and wrapped feveral times tight round the rope, in the direction of its twift, and

Fig. 7.

and mode

Fig. 6.

Rose- bound down. This is shown at W, and it greatly afmaking. first the laying of the rope by its friction. This both keeps the top from flying too far from the point of union of the strands, and brings the strands more regu-

larly into their places.

The first operation is warping the yarns. At each end of the walk are frames called warping frames, which carry a great number of reels or winches filled with rope yarn. The foreman of the walk takes off a yarn end from each, till he has made up the number necesfary for his rope or ftrand, and bringing the ends together, he paffes the whole through an iron ring fixed to the top of a stake driven into the ground, and draws them through: then a knot is tied on the end of the bundle, and a workman pulls it through this ring till the intended length is drawn off the reels. The end is made fast at the bottom of the walk, or at the sledge, and the foreman comes back along the fkain of yarns, to fee that none are hanging flacker than the rest. He takes up in his hand fuch as are flack, and draws them tight, keeping them fo till he reaches the upper end, where he cuts the yarns to a length, again adjusts their tightness, and joins them all together in a knot, to which he fixes the hook of a tackle, the other block of which is fixed to a firm post, called the warping-post. The Tkain is well stretched by this tackle, and then separated into its different strands. Each of these is knotted apart at both ends. The knots at their upper ends are made fast to the hooks of the cranks in the tackle-board, and those at their lower ends are fastened to the cranks in the fledge. The fledge itself is kept in its place by a tackle, by which the firands are again firetched in their places, and every thing adjusted, so that the sledge stands square on the walk, and then a proper weight is laid on it. The tackle is now cast off, and the cranks are turned at both ends, in the contrary direction to the twift of the yarns. (In some kinds of cordage the cranks are turned the same way with the spinning twift). By this the ftrands are twifted and hardened up; and as they contract by this operation, the fledge is dragged up the walk. When the foreman thinks the firands fufficiently hardened, which he estimates by the motion of the fledge, he orders the heavers at the cranks to ftop. The middle ftrand at the fledge is taken off from the crank. This crank is taken out, and a stronger one put in its place at D, fig. 9. The other frands are taken off from their cranks, and all are joined on the hook which is now in the middle hole. The top is then placed between the strands, and, being prefsed home to the point of their union, the carriage is placed under it, and it is firmly fixed down. Some weight is taken off the fludge. The heavers now begin to turn at both ends. Those at the tackle-board continue to turn as they did before; but the heavers at the fledge turn in the opposite direction to their former motion, so that the cranks at both ends are now turning one way. By the motion of the fledge crank the top is forced away from the knot, and the rone begins to close. The heaving at the upper end restores to the frand the twift which they are constantly losing by the laying of the rope. The workmen judge of this by making a chalk mark on intermediate points of the Arand, where they lie on the stakes which are fet up along the walk for their fapport. If the twift of the ftrands is diminished by the motion of closing, they

will lengthen, and the chalk mark will move away from Ropethe tackle-board: but if the twift increases by turning. the cranks at the tackle-board, the strands will shorten. and the mark will come neater to it.

As the closing of the rope advances, the whole shortens, and the sledge is dragged up the walk. The top moves failer, and at last reaches the upper end of the walk, the rope being now laid. In the mean time. the fledge has moved feveral fathoms from the place

where it was when the laying began.

These motions of the sledge and top must be exactly adjusted to each other. The rope must be of a certain length. Therefore the fledge must stop at a certain place. At that moment the rope should be laid; that is, the top should be at the tackle board. In this confifts the address of the foreman. He has his attention directed both ways. He looks at the ftrands, and when he fees any of them hanging flacker between the flakes than the others, he calls to the heavers at the tackleboard to heave more upon that fliand. He finds it more difficult to regulate the motion of the top. It requires a considerable force to keep it in the angle of the strands, and it is always disposed to start forward. To prevent or check this, some fraps of fost rope are brought round the flaff of the top, and then wrapped feveral times round the rope behind the top, and kent firmly down by a lanyard or bandage, as is flown in the figure. This both holds back the top and greatly into their places, and keep close to each other. This is fometimes very difficult, especially in ropes composed of more than three strands. It will greatly improve the laying the rope, if the top have a fharp, fmooth. ing fo far from the middle of its smaller end, that it gets in between the frands which are clofing. This supports them, and makes their closing more gradual and regular. The top, its notches, the pin, and the acquaintance with the walk, knowing that when the fledge is abreaft of a certain stake the top should be abreaft of a certain other flake. When he finds the ton too far down the walk, he flackens the motion at the tackle-board, and makes the men turn brifkly at the fledge. By this the top is forced up the walk, and the laying of the rope accelerates, while the fledge remains in the fame place, because the ftrands are losing their twift, and are lengthening, while the closed rope is fhortening. When, on the other hand, he thinks the top too far adv need, and fears that it will be at the head of the walk before the fledge has got to its proper place, he makes the men heave brifkly on the frands, and the heavers at the fledge crank to work foftly .--This quickens the motion of the fledge by fhortening the strands; and by thus compensating what has been overdone, the fledge and top come to their places at once, and the work appears to answer the intention.

But this is a bad manner of proceeding. It is evi-Some imdent, that if the firands be kept to one degree of hard-proprieties ness throughout, and the heaving at the sledge he uni- n the proformly continued, the rope will be uniform. It may out, and be a little longer or shorter than was intended, and the laying may be too hard in proportion to the twift of

Rope- the flrands, in which case it will not keep it; or it may making- be too flack, and the rope will tend to twift more. Either of these faults is discoverable by slackening the rose before it come off the hooks, and it may then be corrected. But if the error in one place be compenfated by that in another, this will not be easily feen before taking off the hooks; and if it is a large and stiff rope, it will hardly ever come to an equable state in its different parts, but will be apt to run into loops during fervice.

> It is, therefore, of importance to preferve the uniformity throughout the whole. M. Du Hamel, in his great work on rope-making, proposes a method which is very exact, but requires an apparatus which is cumbersome, and which would be much in the way of the workmen. We think that the following method would be extremely easy, embarrass no one, and is perfectly exact. Having determined the proportion between the velocity of the top and fledge, let the diameter of the truck of the top carriage be to that of another truck fixed to the fledge, in the proportion of the velocity of the top to that of the fledge. Let a mark be made on the rim of each; let the man at the fledge make a fignal every time that the mark on the fledge truck is uppermost. The mark on the carriage truck should be uppermost at the same instant; and in this way the foreman knows the flate of the rope at all times without quitting his station. Thus, in making a cable of 120 fathoms, it is usual to warp the yarns 180 fathoms, and to harden them up to 140 before closing. Therefore, in the closing, the top must have 140 fathoms, and the fledge only 20. The diameter of the carriage truck should therefore be seven times the diameter of

We have hitherto proceeded on the supposition, that the twift produced by the cranks is propagated freely along the firands and along the clofing rope. But this is not the cafe. It is almost unavoidable that the twift is greater in the neighbourhood of the crank which produces it. The strands are frequently of very confiderable weight, and lie heavy on the stakes. Force is therefore necessary to overcome their friction, and it is only the overplus that is propagated beyond the flake. It is proper to lift them up from time to time, and let them fall down again, as the fawer does with Lis marking line. This helps the twist to run along the But this is not enough for the closed rope, which is of much greater weight, and much sliffer .-When the top approaches the tackle-board, the beaving at the fledge could not cause the strands, immediately behind the top to close well, without having previously produced an extravagant degree of twift in the intermediate rope. The effort of the crank must therefore be affifted by men flationed along the rope, each furnished with a tool called a wooker. This is a flout oak flick about three feet long, having a ftrap of fost ropeyarn or cordage fastened on its middle or end. firap is wrapped round the laid rope, and the workman works with the flick as a lever, twifting the rope round The woolders in the direction of the crank's motion. should keep their eye on the men at the crank, and make their motion correspond with his. Thus they fend forward the twift produced by the crank, without either increasing or diminishing it, in that part of the rope which lies between them and the fledge.

It is usual before taking the rope from the books to Rope. heave a while at the fledge end, in order to harden the making. rope a little. They do this fo as to take it up about The propriety or impropriety of this practice depends entirely on the proportion which has been previoully observed between the hardening of the strands and the twitting of the cloting rope. It is, in all cafes, better to adjust these precisely, and then nothing remains to be done when the top has arrived at the upper end of the walk. The making of two strand and three firand line pointed out the principle which should be attended to in this case; namely, that the twist given to the rope in laying should be precisely what a perfeelly foft rope would give to itself. We do not fee any reason for thinking that the proportion between the number of turns given to the firands and the number of turns given to the laid line by its own elafficity, will vary by any difference of diameter. We would therefore recommend to the artifls to fettle this proportion by experiment. The line should be made of the finest, fmalleft, and foftest threads or yarn. These should be made into firands, and the firands fhould be hardened up in the direction contrary to the spinning twist. The rope should then be laid, hanging perpendicularly, with a fmall weight on the top to keep it down, and a very fmall weight at the end of the rope. The number of turns given to the strands should be carefully noticed, and the number of turns which the rope takes of itself in closing. The weight should then be taken off, and the rope will make a few turns more. This whole number will never exceed what is necessary for the equilibrium; and we imagine it will not fall much short of it. We are clearly of opinion that an exact adjustment of this particular will tend greatly to improve the art of rope-making, and that experiments on good principles for afcertaining this proportion would be highly valuable, because there is no point about which the artists themselves differ more in their opinions and

The cordage, of which we have been defcribing the Mode of manufacture, is faid to be HAWSER-LAID. It is notenaking uncommon to make ropes of four firands. These are shroud-laid used for forouds, and this cordage is therefore called of four SHROUD-LAID coidage. A rope of the same fize and strands, weight must be smoother when it has four strands, because the strands are fmaller : but it is more difficult to lay close. When three cylindrical flands are simply laid together, they leave a vacuity at the axis amounting to 18 of the fection of a strand. This is to be filled up by compressing the strands by twisting them, Each must fill up + of it by changing its shape; and i of this change is made on each fide of the firand. The greatest change of shape therefore made on any one part of a firand amounts only to 108 of the fection of the firand. The vacuity between four cylinders is 3 of one of them. This being divided into eight parts, is of a strand, and is the greatest compression which any part of it has to undergo. This is nearly five times greater than the former, and must be more difficult to produce. Indeed it may be feen by looking at the figures 11. and 12. that it will be easier to compress a Fig. 11. and firand into the obtuse angle of 120 degrees than into 12. the right angle of 90; and without reasoning moreabout the matter, it appears that the difficulty will in-

create

the fledge truck.

proposed,

method

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Root crede with the number of firands. Six frands must making, touch each other, and form an arch leaving a hollow in the middle, into which one of the francis will flip, and then the rest will not completely furround it. Such a rope would be uneven on the furface. It would be weak; becarde the central strand would be flack in comparison of the rest, and would not be exerting its whole force when they are just ready to break. fee then that a four Itrand rope must be more difficult to lay well than a hawfer-laid rope. With care, however, they may be laid well and close, and are much asfed in the royal navy.

and with a heart in

Ropes are made of four firands, with a heart or fraind in the middle. This gives no additional firength, the middle, for the reason just now given. Its only use is to make the work better and more easy, and to support all the frands at the same distance from the axis of the rope. This is of great confequence; because when they are at unequal diffances from the axis, fome must be more floping than others, and they will not refut alike. This heart is made of inferior thuff, flack laid, and of a fize just equal to the space it is to fill. When a rope of this fabric has been long used and become unserviceable, and is opened out, the heart is always found cut and chaffed to pieces, like very short oakum. This happens as follows: When the rope is violently strained, it Aretches greatly; because the strands surround the axis obliquely, and the ffrain draws them into a position more parallel to the axis. But the heart has not the obliquity of parts, and cannot firetch fo much; at the same time, its yarns are firmly grasped by the hard frands which furround them; they must therefore be torn into thort pieces.

The process for laying a rope with a heart is not very different from that already described. The top has a hole pierced through it, in the direction of the axis. The skain or strand intended for the heart passes through this hole, and is stretched along the walk. A boy attends it, holding it tight as it is taken into the clofing rope. But a little attention to what has been faid will show this method to be defective. The wick will have no more turns than the laid rope; and as it lies in the very axis, its yarns will be much straighter than the strauds. Therefore when the rope is ftrained and ftretched, the wick cannot ftretch as much as the laid strands; and being firm'y grasped by them, it must break into short pieces, and the strands, having loft their support in those places, will fink in, and the cordage grow loofe. We should endeavour to enable all to stretch alike. The wick therefore should be twiffed in the fame manner as the strands, perhaps even a little more. It will thus communicate part of its firength to the rope. Indeed it will not be fo uniformly folid, and may chance to have three spiral vacuities. But that this does no harm, is quite evident from the superior strength of cable-laid cord ge, to be described presently, which have the same vacuities. In this way are the main and fore flays made for thips of the line. They are thought ftronger than hawferlaid ropes, but unfit for running rigging; because their strands are apt to get out of their places when the rope is drawn into frops. It is also thought that the heart retains water, rots, and communicates its putrefaction to the furrounding firands."

Such is the general and effential process of rope ma- Ropeking. The fibres of hemp are twifted into yarns, that making. they may make a line of any length, and flick among each other with a force equal to their own cohefion. Recapitu-The yarns are made into cords of permanent twift by aton. laying them; and, that we may have a rope of any degree of ftrength, many yarms are united in one ftrand, for the same reason that many fibres were united in one yarn; and in the course of this process it is in our power to give the rope a folidity and hardness which makes it less penetrable by water, which would rot it in a short while. Some of these purposes are inconsistent with others: and the skill of a rope-maker lies in making the best compensation; so that the rone may on the whole be the best in point of strength, pliancy, and duration, that the quantity of hemp in it can produce.

There is another species of cordage in very general Mode of use. A rope of two or more strands may be used as a making firand, in order to compose a still larger rope; and in cabie-ran this manner are cables and other ground tackle commonly made; for this reason such cordage is called

CABLE-LAID cordage.

The process of cable-laying hardly differs from that of hawfer-laying. Three ropes, in their state of permanent twift, may be twifted together; but they will not hold it, like fine thread, because they are shiff and elastic. They must therefore be treated like strands for a hawfer. We must give them an additional twist, which will dispose them to lay or close themselves; and this disposition must be aided by the workmen at the fledge. We fay the twift should be an addition to their twist as a rope. A twist in the opposite direction will indeed give them a disposition to close behind the top; but this will be very fmall, and the ropes (now firands) will be exceedingly open, and will become more open in laying. The twift is therefore given in the direction of their twift as a rope, or opposite to that of the primary ftrands, of which the ropes are composed. These primary strands are therefore partly untwisted in cable laying a rope, in the same manner as the yarns are untwifted in the usual process of rope-making.

We need not inful farther on this part of the mannfacture. The reader must be fensible that the hawfers intended for firands of a cable must not be so much twifted as those intended to remain hawsers; for the: twift given to a finished hawfer, is prefumed to be that: which renders it most perfect, and it must be injured by any addition. The precise proportion, and the iditri-: bution of the working up between the hardening of the ftrands and clofing the cable; is a subject about which the artists are no better agreed than in the cale of hawfer-laid cordage. We did not enter on this fubject while describing the process, because the introduction of reasonings and principles would have hart the simplicity of the description. The reader being now acquainted with the different parts of the manipulation, and knowing what can be done on any occasion, will " now be able to judge of the propriety of the whole, when he learns the principle on which the alrength of I a rope depends.

We have already faid, that a rope-yarn should be Mode of twifted till a fibre will break rather thun be pulled out filmating from among the reft, and that all twifting beyond this is the ftrength injurious to the strength of the yarn : And we advanced

this maxim upon this plain confideration, that it is needless to bind them closer together, for they will already break rather than come out; and because this closer binding is produced only by foreibly wrapping the outer fibres round the inner, and drawing the outer ones tight. Thus these fibres are on the firetch, and are firained as if a weight were hung on each of them. The process of laying lines, of a permanent twift, shows that we must do a little more. We must give the yarn a degree of elastic contractility, which will make it lay itself and form a line or cord which will retain its twift. This must leave the fibres of the yarns in a state of greater compression than is necessary for just keeping them together. But more than this feems to be need-lefs and burtful. The fame maxim must direct us in forming a rope confifting of strands, containing more than one yarn. A needless excess of twift leaves them frained, and less able to perform their office in the

It not unfrequently happens, that the workman, in order to make his rope folid and firm, hardens up the ftrands till they really break : and we believe that, in the general practice of making large hawfers, many of the outer yarns in the strands, especially those which chance to be outermost in the laid rope, and are therefore most strained, are broken during the operation.

But there is another confideration which should also twisting on make us give no greater twist in any part of the operathe ftrength tion than is absolutely necessary for the firm cohesion of the parts, and this independent of the firain to which the fibres or yarns are fubjected. Twifting causes all the fibres to lie obliquely with respect to the axis or general direction of the rope. It may just happen that one fibre or one yarn shall keep in the axis, and remain ftraight; all the rest must be oblique, and the more oblique as they are farther from the axis, and as they are more twifted. Now it is to be demonstrated, that when any strain is given to the rope in the direction of its length, a strain greater than this is actually excited on the oblique fibres, and fo much the greater as they are more oblique; and thus the fibres which are already the weakest are exposed to the greatest

Let CF (fig. 13.) represent a fibre hanging from a hook, and loaded with a weight F, which it is just able to bear, but not more. This weight may represent the absolute force of the fibre. Let such another fibre be laid over the two pulleys A, B (fig. 14.), which are in a horizontal line AB, and let weights F and f, equal to the former, be hung on the ends of this fibre, while another weight R, less than the fum of F and f, is hung on the middle point C by a hook or thread. This weight will draw down the fibre into fuch a position ACB, that the three weights F, R, and f. are in equilibrio by the intervention of the fibre. We affirm that this weight R is the measure of the relative strength of the fibre in relation to the form ACB; for the fibre is equally firetehed in all its parts, and therefore in every part it is strained by the force F. If therefore the weights F and f are held fast, and any addition is made to the weight R, the fibre must break, being already strained to its full flrength; therefore R measures its flrength in relation to its fituation. Complete the parallelogram ACBD, and draw the diagonal CD; because AB is horizontal, and AC=BC, DC is vertical, and coin-

cides with the direction CR, by which the weight R Repeacts. The point C is drawn by three forces, which are making. in equilibrio. They are therefore proportional to the fides of a triangle, which have the fame directions; or, the force acting in the direction CA is to that acting in the direction CR as CA to CD. The point R is supported by the two forces CA, CB, which are equivalent to CD; and therefore the weight F is to the weight R as CA is to CD. Therefore the absolute ilrengths of the two fibres AC, BC, taken separately, are greater than their united ftrengths in relation to their position with respect to CR: and since this proportion remains the same, whatever equal weights are hung on at F and f, it follows, that when any strain DC is made to act on this fibre in the direction DC, it excites a greater strain on the fibre, because CA and CB taken together are greater than CD. Each fibre fuftains a ftrain greater than the half of CD.

Now let the weight R be turned round the axis CR. This will cause the two parts of the fibre ACB to lap round each other, and compose a twisted line or cord CR, as in fig. 15. and the parallelogram ACBD will Fig. 15. remain of the fame form, by the yielding of the weights F and f, as is evident from the equilibrium of forces. The fibre will always assume that form which makes the fides and diagonal in the proportion of the weights. While the fibres lap round each other, they are strained to the fame degree, that is, to the full extent of their strength, and they remain in this degree of strain in every part of the line or cord CR. If therefore each of the fibres has the strength AB, the cord has the of the fibres has the thrength AB, the cord has the firength DC; and if F and f be held faft, the smallest addition to R will break the cord. The sum of the absolute strength of the two sibres of which this thread is composed is to the fum of their relative strengths, or to the firength of the thread, as AC+CB is to CD, or

as AC is to EC.

If the weights F and f are not held fast, but allowed to yield, a heavier weight r may be hung on at C without breaking the fibre; for it will draw it into another position A c B, such that r shall be in equilibrio with F and f. Since F and f remain the fame, the fibre is as much strained as before. Therefore make c a, c b equal to CA and CB, and complete the parallelogram acbd. c d will now be the measure of the weight r, because it is the equivalent of ca and cb. It is evident that cd is greater than CD, and therefore the thread formed by the lapping of the fibre in the position a c b is stronger than the former, in the proportion of cd to CD, or ce to CE. The cord is therefore fo much ftronger as the fibres are more parallel to the axis, and it must be firongest of all when they are quite parallel. Bring the pulleys A, B, elose to each other. It is plain that if we hang on a weight R less than the sum of F and f, it cannot take down the hight of the fibre; but if equal to them, although it cannot pull it down, it will keep it down. In this case, when the fibres are parallel to each other, the strength of the cord (improperly fo called) is equal to the united absolute strengths of the

It is eafy to fee that the length of each of the fibres which compose any part CR of this cord is to the length of the part of the cord as AC to EC; and this is the case even although they should lap round a cylinder of any diameter. This will appear very clearly to

of ropes, Scc.

Fig. 13.

Fig. 14.

Fig. 16.

Rone- any person who considers the thing with attention. Let a c (fig. 16.) be an indefinitely small portion of the fibre which is lapped obliquely round the cylinder, and let HKG be a fection perpendicular to the axis. Draw a e parallel to the axis, and draw e c to the centre of the circle HKG, and a e' parallel to e c. It is plain that e' c is the length of the axis corresponding to the small por-

tion a c, and that e' c is equal to a e. Hence we derive another manner of expressing the ratio of the absolute and relative strength; and we may fay that the absolute strength of a fibre, which has the fame obliquity throughout, is to its relative flrength as the length of the fibre to the length of the cord of which it makes a part. And we may fav, that the firength of a rope is to the united absolute strength of its varns as the length of the cord to the length of the yarns; for although the yarns are in various states of obliquity, they contribute to the firength of the cord in as much as they contribute immediately to the strength of the strands. The strength of the yarns is to that of the strands as the length of the yarns to that of the strands, and the firength of the firands is to that of the rope as the length of the first to that of the last.

And thus we see that twisting the sibres diminishes the strength of the affemblage; because their obliquity, which is its necessary confequence, enables any external force to excite a greater strain on the fibres than it could have excited had they remained parallel; and fince a greater degree of twifting necessarily produces a greater obliquity of the fibres, it must more remarkably diminish the firength of the cord. Moreover, fince the greater obliquity cannot be produced without a greater ftrain in the operation of twifting, it follows, that immoderate twifting is doubly prejudicial to the firength of

These theoretical deductions are abundantly confirmed deductions by experiment; and as many perfons give their affent more readily to a general proposition when presented as an induction from unexceptionable particulars, than when offered as the confequence of uncontroverted principles, we shall mention some of the experiments which have been made on this subject. Mr Reaumur, one of the most zealous, and at the fame time judicious, observers of nature made the following experiments. (Mem. Acad, Pa-

> I. A thread, confifting of 832 fibres of filk, each of which carried at a medium I dram and 18 grains, would hardly support 52 pounds, and sometimes broke with 5 pounds. The fum of the absolute firengths of the fibres is 1040 drams, or upwards of 8 pounds 2 oun-

2. A fkain of white thread was examined in many places. Every part of it bore 91 pounds, but none of it would bear 10. When twifted flack into a cord of 2 yarns it broke with 16 pounds.

3. Three threads were twifted together. Their mean ftrength was very nearly 8 pounds. It broke with 17%,

whereas it should have carried 24.

4. Four threads were twisted. Their mean strength was 71. It broke with 211 initead of 30. Four threads, whole firength was nearly 9 pounds, broke with 22 inflead of 36.

5. A small and very well made hempen cord broke in different places with 58, 63, 67, 72 pounds. Another part of it was untwitted into its three thrands. One of them bore 291, another 331, and the third 35; there- Ropefore the fum of their absolute strengths was 98. In another part which broke with 72, the strands which had already borne this firain were feparated. They bore 26,

28, and 30; the fum of which is 81.

Admiral Sir Charles Knowles made many experi- and by ments on cordage of fize. A piece of rope 3+ inches these of Sir in circumference was cut into many portions. Each of C. Knowless these had a fathom cut off, and it was carefully opened It was white, or untarred, and contained 72 yarns. They were each tried separately, and their mean flrength was 90 pounds. Each corresponding piece of rope was tried apart, and the mean firereth of the nine pieces was 4552 pounds. But 90 times 72 is 6480.

Nothing is more familiarly known to a feaman than Further rethe fuperior fliength of tope-yarns made up into a fkain marks on without twitting. They call fuch a piece of rope a twiffing-SALVAGE. It is used on board the king's ships for rolling tackles, flinging the great guns, butt-flings, nippers for holding the viol on the cable, and in every fervice where the utmost strength and great pliancy are

wanted.

It is therefore fufficiently established, both by theory and observation, that the twitting of cordage diminishes its flrength. Experiments cannot be made with fufficient precision for determining whether this diminution is in the very proportion, relative to the obliquity of the fibres, which theory points out. In a hawler the yarns lie in a great variety of angles with the axis. The very outermost yarn of a thrand is not much inclined to the axis of the rope: for the inclination of this yarn to the axis of its own strand nearly compensates for the inclination of the strand. But then the opposite yarn of the fame strand, the yarn that is next the axis of the rope lies with an obliquity, which is the fum of the obliquities of the firand and of the yarn. So that all the yarns which are really in the axis of the rope are exceedingly oblique, and, in general, the infide of the rope has its yarns more oblique than the outfide. But in a laid rope we should not consider the strength as made up of the strengths of the yarns; it is made up of the firengths of the firands : For when the rope is violently firetched, it untwifts as a rope, and the firands are a little more twitled; fo that they are relitting as firands, and not as varns. Indeed, when we confider the process of laying the rope, we see that it must be so. three firands would carry more when parallel that when twifted into a rope, although the yarns would then be therefore flould be turned to the making the most perfect ftrands.

We are fully authorifed to fay that the twist gir en to cordage should be as moderate as possible. We are cernels gives is falla ious. But a certain degree of this is cafe some of the thought or yarus are apt to kink and brenk. It also becomes to pervious to wa er, which

Theoretical confirmed by Reaumur's experiments.

Rope- nefs is necessary; and in order to give the cordage this appearance of fuperior strength, the manufacturer is dif-

posed to exceed. 24 Mr Du Hamel made many experiments in the royal Experidock yards in France, with a view to afcertain what is Du Hamel the best degree of twist. It is usual to work up the to aftertain the best degree of twist. It is thus to work up the the best de yarns to \(\frac{2}{3}\) of their length. Mr Du Hamel thought this too much, and procured fome to be worked up only to Iwift, 8cc. of the length of the yarns. The ftrength of the first, by a mean of three experiments, was 4321, and that of

the laft was 5187. He caused three ropes to be made from the same hemp,

fpun with all possible equability, and in such proportion of yarn that a fathom of each was of the fame weight. The rope which was worked up to 3 bore 4008 pounds; that which was worked up to \$ bore 4850; and the one worked up to 4 hore 6205. In another trial the strengths were 4250, 6753, and 7397. These ropes were of dif-

He had influence enough, in confequence of thefe experiments, to get a confiderable quantity of rigging made of yarns worked up only to 1 of their length, and had them used during a whole campaign. The othicers of the thips reported that this cordage was about I lighter than the ordinary kind; nearly I flenderer, so as to give less hold to the wind, was therefore more fupple and pliant, and run eafier through the blocks, and did not run into kinks; that it required fewer hands to work it, in the proportion of two to three; and that it was at least & stronger. And they faid that it did not appear to have fuffered more by using than the ordinary cordage, and was fit for another cam-

Mr Du Hamel also made experiments on other fabrics of cordage, which made all twifting unnecessary, fuch as fimply laying the yarn in fkains, and then covering it with a worming of finall line. This he found greatly fuperior in strength, but it had no duration, because the covering opened in every short bending, and was foon fretted off. He also covered them with a woven coat in the manner practifed for howfe furniture, But this could not be put on with fufficient tightness, without an enormous expence, after the manner of a horse-whip. Small ropes were woven folid, and were prodigionfly firong. But all these fabrics were found too fost and pervious to water, and were foon rendered unferviceable. The ordinary process of rope-making therefore must be adhered to; and we must endeavour to improve it by diminishing the twist as far as is compatible with the necessary folidity.

In pursuance of this principle, it is furely advisable to lay flack all fuch cordage as is nfed for flanding rigging, and is never exposed to fhort bendings. Shrouds, stays, backstays, pendants, are in this situation, and can eafily be defended from the water by tarring, fer-

ving, &c.

The same principle also directs us to make such cordage of four strands. When the strands are equally hardened, and when the degree of twift given in the laying is precifely that which is correspondent to the twift of the ftrands, it is demonstrable that the ftrands are lying less obliquely to the axis in the four-ftrand cordage, and should therefore exert greater force. And experience fully confirms this. Mr Du Hamel caused two very fmall hawfers to be made, in which the ftrands

were equally hardened. One of them had three firands. Roncand the other fix with a heart. They were worked up making: to the same degree. The first broke with 865 pounds, and the other with 1325. Several comparisons were made, with the fame precautions, between cordage of three and of four ftrands, and in them all the four-thrand cordage was found greatly superior; and it appeared that a heart judiciously put in not only made the work eafier and more perfect to the eye, but also increased the ftrength of the cordage.

It is furely unreasonable to refuse credit to such a uniform courle of experiment, in which there is no motive for imposition, and which is agrecable to every clear notion that we can form on this complicated fubject; and it argues a confiderable prefumption in the professional artisls to oppose the vague notions which they have of the matter to the calm reflections, and minute examination of every particular, by a man of good understanding, who had no interest in misleading them.

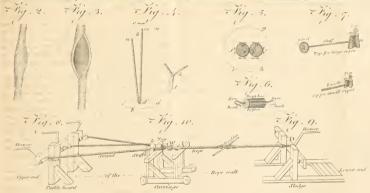
The fame principles will explain the superiority of Superiority cable-laid cordage. The general aim in rope-making fcableis to make every yarn bear an equal share of the gene-laid cor-ral strain, and to put every yarn in a condition to bear it. But if this cannot be done, the next thing aimed at is, to put the yarns in fuch fituations that the strains to which they are exposed in the use of the rope may be proportioned to their ability to bear it. Even this point

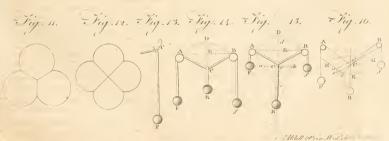
cannot be attained, and we must content ourselves with an approach towards it.

The greatest difficulty is to place the yarns of a large ftrand agreeably to those maxims. Supposing them placed with perfect regularity round the yarn which is in the middle: they will lie in the circumferences of concentric circles. When this whole mass is turned equally round this yarn as an axis, it is plain that they will all keep their places, and that the middle yarn is fimply twilted round its axis, while those of the furrounding circles are lapped round it in spirals, and that these spirals are so much more oblique as the yarns are farther from the axis. Suppose the fledge kept fast, fo that the strand is not allowed to shorten. The yarns must all be stretched, and therefore strained; and those must be the most extended which are the farthest from the middle yarn. Now allow the fledge to approach. The strand contracts in its general length, and those yarns contract most which were most extended. The remaining extension is therefore diminished in all; but still those which are most remote from the middle are most extended, and therefore most strained, and have the smallest remainder of their absolute force. Unfortunately they are put into the most unfavourable situations, and those which are already most strained are left the most oblique, and have the greatest strain laid on them by any external force. But this is unavoidable: Their greatest hurt is the strains they sustain in the manufacture. When the strand is very large, as in a nineinch hawfer, it is almost impossible to bring the whole to a proper firmness for laying without straining the large ropes outer yarns to the utmost, and many of them are broken the france in the operation.

The reader will remember that a two-frand line was in a direclaid or closed merely by allowing it to twist itself up at fite to that the fwivel of the loper; and that it was the elasticity of spinning, arifing from the twift of the yarn which produced this and are effect: and he would probably be surprised when we confequentfaid, ly ftronger.









Rope- faid, that, in laying a larger rope, the fleands are twifted in a direction opposite to that of the spinning, Since the tendency to close into a rope is nothing but the tendency of the strands to untwist, it would seem natural to twift the strands as the yarns were twisted before. This would be true if the elasticity of the fibres in a yarn produced the fame tendency to untwift in the strand that it does in the yarn. But this is not the case. The contraction of one of the outer yarns of a strand tends to pull the strand backward round the axis of the strand: but the contraction of a fibre of this varn tends to turn the varn round its own axis, and not round the axis of the strand. It tends to untwift the yarn, but not to untwift the ftrand. It tends to untwiff the ftrand only fo far as it tends to contract the yarn. Let us suppose the yarn to be spun up to one-half the length of the fibres. The contracting power of this yarn will be only one half of the force exerted by the fibres: therefore, whatever is the force necessary for closing the rope properly, the fibres of the yarns must be exerting twice this force. Now let the same yarn, spun up to one-half, be made up in a frand, and let the firand be twifted in the opposite direction to the spinning till it has acquired the same classicity fit for laying. The yarns are untwisted. Suppose to three sourths of the lengths of the fibres. They are now exerting only four thirds of the force necessary for laying, that is, two-thirds of what they were obliged to exert in the other case; and thus we have stronger yarns when the strands are equally strained. But they require to be more firained than the other; which, being made of more twifted yarn, fooner acquire the elaflicity fit for laying. But fince the elafticity which fits the strand for laying does not increase so fast as the ftrain on the fibres of the yarn which produces it, it is plain, that when each has acquired that elasticity which is proper for laying, the strands made of the slack-twisted yarn are the strongest; and the yarns are also the strongest; and being softer, the rope will close better.

Experience confirms all this; and cordage, whose frands are twifted in the opposite direction to the twift of fpinning, are found to be stronger than the other in a proportion not less than that of feven to fix.

Such being the difficulty of making a large strand, and its defects when made, we have fallen on a method of making great cordage by laying it twice, A haw-fer-laid rope, flack fpun, little hardened in the strands, and flack laid, is made a strand of a large rope called a cable or cablet. The advantages of this fabric are evident. The strands are reduced to one-third or one-fourth of the diameter which they would have in a hawfer of the fame fize. Such strands cannot have their yarns lying very obliquely, and the outer yarns cannot be much more strained than the inner ones. There must therefore he a much greater equality in the whole subflance of cable-laid cordage, and from this we should expect fuperior ftrength.

Accordingly, their superiority is great, not less than in the proportion of 13 to 9, which is not far from the proportion of four to three. A cable is more than a fourth part, but is not a third part, stronger than a hawfer of the same fize or weight.

They are feldom made of more than three hawfers of three ftrands each, though they are fometimes made of three four franced havelers, or of four three frand. There must be the same uncertainty in the quadruple WOL. XVIII. Part I.

ed. The first of these two is preferred, because four Ropefinall strands can be laid very close; whereas it is difficult to lay well four hawfers, already become very

The fuperiority of a cable-laid cordage being attributed entirely to the greater perfection of the firands, and this feeming to arife entirely from their fmallness, it was natural to expect thill better cordage by laying cables as the strands of still larger pieces. It has been tried, and with every requisite attention. But although they have always equalled, they have not decidedly excelled, common cables of the fame weight; and they require a great deal more work. We shall not therefore enter upon the manipulations of this fabric.

There is only one point of the mechanical process of Distriburope making which we have not confidered minutely; total flore and it is an important one, viz. the distribution of the tening of total thortening of the yarns between the hardening of the yarns the strands and the laying the rope. This is a point between about which the artifts are by no meags agreed. There the hardenis certainly a position of the strands of a laid rope which strands and puts every part in equilibrio; and this is what an ela-laying the ftic, but perfectly foft rope (were fuch a thing poffible), rope. would affume. But this cannot be discovered by any experiments made on large or even on firm cordage; and it may not be thought sufficiently clear that the proportion which would be discovered by the careful fabrication of a very fmall and foft line is the fame that will fuit a cordage of any diameter. We must proceed much on conjecture; and we cannot fay that the arguments used by the partisans of different proportions are very convincing.

The general practice, we believe, is to divide the whole of the intended flortening of the yarns, or the working up into three parts, and to employ two of thefe in hardening the strands, and the remaining third in closing the hawfer.

Mr Du Hamel thinks, that this repartition is injudi-Opinion

cious, and that the yarns are too much strained, and and experithe strands rendered weak. He recommends to invert ments of this proportion, and to shorten one-third in the harden. Du Hamel. ing of the strands, and two-thirds in laying the hawfer. But if the strain of the yarns only is considered, one should think that the outside yarn of a strand will be more thrained in laying, in proportion to the yarn of the fame strand, that is, in the very axis of the rope. We can only fay, that if a very fost line is formed in this way, it will not keep its twift. This flows that the turns in laying were more than what the elafticity or hardening of the strands required. The experiments made on foft lines always showed a tendency to take a greater twift when the lines were made in the first manner, and a tendency to lose their twist when made in Mr Du Hamel's manner. We imagine that the true proportion is between these two extremes, and that we shall not err greatly if we have the total shortening between the two parts of the process. If working up to two-thirds be infitted upon, and if it be really too much. Mr Du Hamel's repartition may be better, because part of this working will quickly go off when the cordage is used. But it is furely better to be right in the main point, the total working up, and then to adjust the di-Bribution of it to that the finished cordage thall precise-

ly keep the form we have given to it. Nn diffribution

Great cordage made by laying it twice.

APC .

1 sugar

Rope-

Dithe

ftrains

made ufe o' during

the opera-

distribution of the working up a cable. When a cable has its varns fhortened to two-thirds, we believe the ordinary practice has been, 11t, To warp 180 fathoms; 2d, To harden up the strands 30 fathous; 3d, To lay or close up 13 fathoms; 4th, To work up the hawsers

nine fathoms; 5th, To close up eight fathoms. This leaves a cable of 120. Since Mr Du Hamel's experiments have had an influence at Rockefort, the practice has been to warp 190, to harden up 38, to lay up 12, to work up the hawfers 10, and then to close up fix; and when the cable is finished, to shorten it two fathoms more, which our workmen call throwing the turn well up. This leaves a cable of 122 fathoms.

As there feems little doubt of the superiority of cordage thortened one-fourth over cordage thortened onethird, the following distribution may be adopted: warp 190 fathoms, harden up 12, lay up 11, work up the hawfers 12, and close up 12 more, which will leave a

cable of 143.

There is another question about which the artists are divided in their opinions, viz. the firains made use of during the operation. This is produced by the weight laid on the fledge. If this be too fmall, the strands will not be fufficiently tightened, and will run into kinks. The fledge will come up by flarts: and a fmall inequality of twist in the ftrands will throw it askew. The top will not run weil without a confiderable preffure to throw it from the closing point, and therefore the cordage will neither close fairly nor nirmly; on the other hand, it is evident, that the strain on the strands is a complete expenditure of fo much of their force, and it may be fo great as to break them. These are the extreme positions. And we think that it may be fairly deduced from our principles, that as great a firain should be laid on the firands as will make good work, that is, as will enable the rope to close nearly and completely, but no more. But can any general rule be given for this purpose ?

The practice at Rochefort was to load the fledge till its weight and load were double the weight of the yarns when warped 180 fathoms. A fix-inch bawfer will require about a ton. If we suppose the friction one-third of the weight; the firsin on each firand will be about two hundred and a quarter weight. Mr Du Hamel thinks this too great a load, and propofes to put only five-fourths or three-feconds of the weight of the cordage; and fill less if a shorter piece be warped, because it does not require so much force to throw the twist from the two cranks to the middle of the strand. We finall only fay, that stronger ropes are made by heavy loading the carriage, and working up moderately,

this is very vague.

The reader will naturally alk, after this account of the manufacture, what is the general rule for computing computing the flrength of cordage? It cannot be expected to be the firength very precise. But if ropes are made in a manner perof cordage. feelly fimilar, we should expect the strength to be in proportion to the area of their fection; that is, to the fquare of their diameters or circumferences, or to the number of equal threads contained in them.

than by greater shortening, and a lighter load; but all

Nor does it deviate far from this rule; yet Mr Du Hamel shows, from a range of experiments made on all cordage of 34 inch circumference and under, that the firength increases a little faster than the number

of equal threads. Thus he found that ropes of o threads bore 1014 pounds, intlead of 046

1764 12 18 1893 2118

We cannot pretend to account for this. We must also observe, that the strength of cordage is greatly improved by making them of yarn fpun fine. This requires finely dreffed hemp; and being more supple, the fibres lie close, and do not form such oblique spirals. But all hemp will not foin equally fine. Every flalk feems to confact of a certain number of principal fibres, which fplit more eatily into a fecond fet, and these more difficultly into a third fet, and fo on. The ultimate fineness, therefore, which a reasonable degree of dreffing can give to hemp, bears fome proportion, not indeed very precise, to the fize of the flalk. The British and Dutch use the best hemp, spin their yarn the finest, and their cordage is confiderably flronger than the French, much of which is made of their own hemp, and others of a coarfe and harfle quality.

The following rule for judging of the weight which a rope will bear is not far from the truth. It supposes them rather too firong; but it is so easily remembered

that it may be of use.

Multiply the circumference in inches by itself, and take the fifth part of the product, it will express the tons which the rope will carry. Thus, if the rope have fix inches circumference, 6 times 6 is 36, the lifth of which is 72 tons; apply this to the rope of 35, on which Sir Charles Knowles made the experiments for. merly mentioned,  $3\frac{1}{5} \times 3\frac{1}{5} = 10.25$ ,  $\frac{1}{5}$  of which is  $2.0 \le 1$  tons, or 4592 pounds. It broke with 4550.

This may fuffice for an account of the mechanical of the part of the manufacture. But we have taken no notice and . . . of the operation of tarring; and our reason was, that feels so are the methods practifed in different rope-works are to exthem, or even give a general account of them. It is evidently proper to tar in the flate of twine or yarn, this being the only way that the hemp could be uniformly penetrated. The yarn is made to wind off one reel, and having passed through a vessel containing bot tar, it is wound up on another reel; and the superfluous tar is taken off by passing through a hole surrounded with spongy oakum; or it is tarred in skains or hauls, which are drawn by a capftern through the tar-kettle, and through a hole formed of two plates of metal, held to-

It is established beyond a doubt, that tarred cordage when new is weaker than white, and that the difference increases by keeping. The following experiments were made by Mr Du Hamel at Rochefort on cerdage of three inches (French) in circumference, made of the

nett inga m	mp.			
			8. 1741.	
	Whit	2.	Tarr	cd.
Broke with	4500	pounds.	3400	pounds.
	4900		3300	
	4800		3250	
		April 2	5- 1743-	
	4600		3500	
	5000		3400	

gether by a lever loaded with a weight.

September

General rule for

		0	-		
	Septe	mber	3.	1746.	
3800	)			3000	
4000				2700	
4207				2800	

A parcel of white and tarred cordage was taken out of a quantity which had been made February 12. 1746. It was laid up in the magazines, and comparitons were made from time to time as follows:

	IV/hi	ie bo	re.	Tarred bore.	Differ.
	746 April			2312 pounds.	333
	747 May			2155	607
1	747 Oct.	21.	2710	2050	660
1	748 June	19.	2575	1752	823
1	748 08.	2.	2425	1837	588
7	749 Sep.	25.	2917	1865	1052

Mr Du Hamel fays, that it is decided by experience. 1. That white cordage in continual fervice is one-third more durable than tarred. 2. That it retains its force much longer while kept in flore. 3. That it refifts the ordinary is uries of the weather one-fourth longer.

We know this one remarkable fact. In 1758 the fhrouds and stays of the Sheer hulk at Portimouth dockyard were overhawled, and when the worming and fervice were taken off, they were found to be of white cordage. On examining the storekeeper's books, they were found to have been formerly the throwds and rigging of the Royal William, 110 guns, built in 1715, and rigged in 1716. She was thought top-heavy and unfit for fea, and unrigged and her stores laid up. Some few years afterwards, her fhrouds and flays were fitted on the Sheer hulk, where they remained in conflant and very hard fervice for about 30 years, while every tarred rope about her had been repeatedly renewed. This information we received from Mr Brown, boatswain of the Royal William during the war 1758, &c.

Why then do we tar cordage? We thus render it more unpliant, weaket, and less durable. It is chiefly ferviceable for cables and ground tackle, which must be continually wetted and even foaked. The refult of careful observation is, r. That white cordage, exposed to be afternately very wet and dry, is weaker than tarred cordage. 2. That cordage which is superficially tarred is constantly stronger than what is tarred throughout, and it refifts better the alternatives of wet and dry. N. B. The shrouds of the Sheer hulk were well tarred and blacked, fo that it was not known that they were of

white cordage.

Tar is a curious substance, miscible completely with water. Attempts were made to anoint cordage with oils and fats which do not mix with water. This was expected to defend them from its pernicious effects. But it was diffinely found that these matters made the fibres of hemp glide fo eafily on each other, that it was hardly possible to twist them permanently. Before they grasped each other fo hard that they could not be drawn, they

were strained almost to breaking. Attempts have been made to increase the strength of cordage by tanning. But though it remains a conflant practice in the manufacture of nets, it does not appear that much addition, either of strength or durability, can he given to cordage by this means. The trial has been made with great care, and by persons fully able to coneuch the process with propriety. But it is found that the yarns take is long time in drying, and are fo much Rimhurt by drying flowly, that the room required for a con- making fiderable rope-work would be immenfe; and the improvement of the cordage is but triffing, and even equivocal. Indeed tanning is a chemical process, and its effects depend entirely on the nature of the materials to which the tan is applied. It unqueffic ably condenies, and even frengthens, the fibre of leather : but for any thing that w know à priori, it may destroy the collecide the question. The refult has been unfavourable; but it does not follow from this that a tan cannot be found which shall produce on the texture of vegetables effects finilar to what oak-bark and other aftringents produce on the animal fibre or membrane. It is well known that fome dyes increase the ftrength of flax and cotton, notwithstanding the corrotion which we know to be produced by some of the ingredients. This is a fubject highly worth the attention of the chemitt and

ROFE-Dancer. See Rope-DANCER. .

ROPE-Tarn, among failors, is the yarn of any rope untwifted, but commonly made up of junk; its ule is to make finnet, matts, &c.

ROQUET. See ROCKET.

RORIDULA, a genus of plants belonging the pent-

andria class. See BOTANY Index.
ROSA, the Rose; a genus of plants belonging to the icofandria class; and in the natural method ranking under the 35th order, Senticofae. See BOTANY Index.

The forts of roses are very numerous; and the bolanifts find it very difficult to determine with accuracy which are species and which are varieties, as well as which are varieties of the respective species. On this account Linnæus, and fome other eminent authors, are inclined to think that there is only one real species or rose, which is the rofa canina, or " dog-rofe of the hedges, &c. and that all the other forts are accidental varieties of it. However, according to the prefent Linnman arrangement, they stand divided into 14 supposed species, each comprehending varieties, which in some forts are but few, in others numerous.

The supposed species and their varieties according to the arrangement of modern botanists, are as follows

1. The cauina, canine rose, wild dog-rose of the hedges, or hep-tree, grows five or fix feet high, having prickly stalks and branches, pinnated five or sevenlobed leaves, with aculeated foot-ffalks, fmooth pedusculi, oval fmooth germina, and fmall fingle flowers. There are two varieties, red-flowered and white lowered. They grow wild in hedges abundantly all over the kingdom; and are fometimes admitted into gardens, a few to increase the variety of the shrubbery collection.

2. The alba, or common white-rofe, grows five or fix feet high, having a green frem and branches, armed with prickles, hispid pedunculi, oval smooth germina, and large white slowers. The varieties are,—large double white rofe-dwarf fingle white rofe-maidens-blush white rofe. being large, produced in clusters, of a white and blushred colour.

3. The Gallica, or Gallican role, &c. grows from about three or four to eight or ten feet high, in different varieties, with pinnsted, three, five, or feven-lobed leaves, and large red and other coloured flowers in dif-Nn 2

Effect of

frientistis. This frecies is very extensive in supposed varieties, hearing the above specific diffinction, several of which have been formerly confidered as diffined species, but are now ranged among the varieties of the Gallican role, consisting of the following noted varieties.

Common red officinal role, grows erect, about three or four feet high, having small branches, with but few prickles, and large spreading half-double deep-red Howers .- Rola mundi (role of the world) or ftriped red role, is a variety of the common red role, growing but three or foor feet high, having large foreading femidouble red flowers, beautifully firiped with white-and deep red .- York and Lancaster variegated role, grows five, fix, or eight feet high, or more; bearing variegated red flowers, confilling of a mixture of red and white; also frequently disposed in elegant firipes, sometimes in half of the flower, and fometimes in fome of the petals .- Monthly rofe, grows about four or five feet high, with green very prickly shoots; producing middle-lized, moderately-double delicate flowers, of different colours in the varieties. The varieties are, common red-flowered monthly rofe-blush-flowered\_ white-flowered-flriped-flowered. All of which blow both early and late, and often produce flowers feveral months in the year, as May, June, and July; and frequently again in August or September, and sometimes, in fine mild feafons, continues till November or December : hence the name monthly rofe .- Double virgin- . role, grows five or fix feet high, having greenish branches with scarce any spines; and with large double palered and very fragrant flowers .- Red damask rose, grows eight or ten feet high, having greenish branches, armed with fhort aculea; and moderately-double, fine foft-red, very fragrant flowers .- White damask rose, grows eight or ten feet high, with greenish very prickly branches, and white-red flowers, becoming gradually of a whiter colour .- Blush Belgic rose, grows three or four feet high, or more; having greenith prickly branches, five or feven lobed leaves, and numerous, very double, bluthred flowers, with short petals, evenly arranged .- Red Belgic role, having greenish and red shoots and leaves, and fine double deep-red flowers,-Velvet rofe, grows three or four feet high, armed with but few prickles; producing large velvet-red flowers, comprising femi-double and double varieties, all very beautiful roles .- Marbled rofe, grows four or five feet high, having brownish branches, with but few prickles; and large, double, finely-marbled, red flowers .- Red-and-yellow Auftrian role, grows five or fix feet high, having flender reddiffibranches, armed with short brownish aculea; and with flowers of a reddish copper colour on one fide, the other fide yellow. This is a curious variety, and the flowers affume a fingularly agreeable appearance.-Yellow Au-Hrian role, grows five or fix feet high, having reddish very prickly shoots; and numerous bright-yellow flowers. -Double yellow role, grows fix or feven feet high; with brownish branches, armed with numerous large and fmall yellowish prickles; and large very double yellow flowers .- Frankfort role, grows eight or ten feet high, is a vigorous shooter, with brownish branches thinly armed with firong prickles; and produces largith double purplish-red flowers, that blow irregularly, and have but little fragrance.

4. The centifolia, or hundred-leaved red rofe, &c.

high, in different forts, all of them hispid and prickly; Rofs pinnated three and five lobed leaves; and large very double red flowers, having very numerous petals, and of different shades in the varieties. The varieties are, common Dutch hundred-leaved rofe, grows three or four feet high, with erect greenish branches, but moderately armed with prickles; and large remarkably double red flowers, with thort regularly arranged petals. -Bluth hundred-leaved role, grows like the other, with large very double pale-red flowers .- Provence rofe. grows five or fix feet, with greenish brown prickly branches, and very large double globular red flowers, with large petals folding over one another, more or lefs in the varieties.- The varieties are, common red Provence role, and pale Provence role; both of which having larger and fomewhat loofer petals than the following fort .- Cabbage Provence role; having the petals closely folded over one another like cabbages .--Dutch cabbages rofe, very large, and cabbage tolerably. -Childing Provence rofe-Great royal rofe, grows fix or eight feet high, producing remarkably large, fomewhat loofe, but very elegant flowers .- All thefe are large double red flowers, fomewhat globular at first blowing, becoming gradually a little spreading at top; and are all very ornamental fragrant roles .- Moss Piovence rofe, supposed a variety of the common rose; grows erectly four or five feet high, having brownish italks and branches, very closely armed with thort prickles, and double crimfon-red flowers; having the calvx and upper part of the peduncle furrounded with a rough moffy-like substance, effecting a curious singularity. This is a fine delicate rose, of a high fragrance, which together with its mosfly calyx, renders it of great estimation as a curiofity.

5. The cinnamomea, or cinnamon rofe, grows five or fix feet high, or more, with purplift branches thinly aculeated; pinnated five or feven lobed leaves, having almost incrmous petioles, fmooth pedunculi, and fmooth globular germina; with fmall purplift-red cinnamon-feetted flowers cally in May. There are varieties with double flowers.

6. The Alpina, or Alpine inermous rofe, grows five or fix feet high, having fmooth or unarmed reddith branches, pinnated feven-lobed fmooth leaves, fomewhat hilpid pedunculi, oval germina, and deep-red fingle flowers; appearing in May. This fpecies, as being free from all kinds of armature common to the other forts of rofes, is effermed as a fingularity; and from this property is often called the wirgin rofe.

7. The Carolina, or Čarolina and Virginia rofe, &c. grows fix or eight feet high, or more, having fmooth reddilib branches, very thinly aculeated; pinnated feven-lobed fmooth leaves, with prickly foot-ftalks; fontewhat highig demoutil, globods hifpid germen, and fingle red flowers in clusters, appearing mottly in August and September. The varieties are, dwarf Pennfylvanian rofe, with fingle and double red flowers—American pale-red rofe. This species and varieties grow naturally in different parts in North America; they effect a fine variety in our gardens, and are in estimation for their later, which is the state of the s

8. The villofa, or villofe apple bearing rofe, grows

fix or eight feet high, having flrong erect brownish fmooth branches; aculeated sparfedly pinnated sevenlobed villose or hairy leaves, downy underneath, with prickly feor-ftalks, hispid penduncles, a globular prickly germen; and large fingle red flowers, fucceeded by large round prickly heps, as big as little apples. This species merits admittance into every collection as a curiofity for the fingularity of its fruit, both for variety

relift, is often made into a tolerable good fweetmeat, o. The pimpinellufolia, or burnet-leaved rofe, grows about a yard high, aculeated sparfedly; small neatly pinnated feven-lobed leaves, having obtufe folioles and rough petioles, finooth penducles, a globular finooth germen, and fmall fingle flowers. There are varieties with red flowers-and with white flowers. They grow wild in England, &c. and are cultivated in fhrubberies

and use; for it having a thick pulp of an agreeable acid

for variety.

10. The spinosistima, or most spinous, dwarf burnetleaved rofe, commonly called Scotch rofe, grows but two or three feet high, very closely armed with spines; finall neatly pinnated feven-lobed leaves, with prickly foot-stalks, prickly pendunculi, oval smooth germen, and numerous small single flowers, succeeded by round darkpurple heps. The varieties are, common white-flowered -red flowered friped-flowered marbled flowered. They grow naturally in England, Scotland, &c. The first variety rifes near a yard high, the others but one or two feet, all of which are fingle-flowered; but the flowers being numerous all over the branches, make a pretty appearance in the collection.

11. The eglanteria, eglantine rofe, or fweet-briar, grows five or fix feet high, having green branches, armed with strong spines sparsedly; pinnated sevenlobed odoriferous leaves, with acute folioles and rough foot stalks, fmooth pedunculi, globular smooth germina, and small pale-red flowers. The varieties are, common fingle-flowered-femi-double flowered-double-flowered -bluth double-flowered-yellow-flowered. This fpecies grows naturally in fome parts of England, and in Switzerland. It claims culture in every garden for the odoriferous property of its leaves; and should be planted in the borders, and other compartments contiguous to walks, or near the habitation, where the plants will impart their refreshing fragrance very profusely all around; and the young branches are excellent for improving the odour of nofegays and bow pots.

12. The moschata, or musk-rose, supposed to be a variety only of the ever-green musk-rose, hath weak fmooth green stalks and branches, rising by support from fix to eight or ten feet high or more, thinly armed with ftrong spines; pinnated seven-lobed smooth leaves, with prickly foot-stalks; hispid peduncles; oval hispid germen; and all the branches terminated by large umbellate clusters of pure-white musk-scented flowers in

August, &c.

13. The sempervirens, or ever-green musk-role, hath a formewhat trailing stalk and branches, rising by support five or fix feet high or more, having a fmooth bark armed with prickles; pinnated five-lobed fmooth shining evergreen leaves, with prickly petioles, hispid pedunculi, eval hispid germen; and all the branches terminated by clusters of pure-white flowers of a musky fragrance; appearing the end of July, and in August. The semper-

virent property of this elegant species renders it a curi- Rofa, ofity among the refy tribe; it also makes a fine appearance as a flowering flirub. There is one variety, the decicuous mulk-role above-mentioned. This species and variety flowers in August, and is remarkable for producing them numerously in clusters, continuing in succesfion till Ostober or November.

The above 13 species of rola, and their respective varieties, are of the thrub-kind; all deciduous, except the last fort, and of hardy growth, fucceeding in any common foil and fituation, and flowering annually in great abundance from May till October, in different forts : though the general flowering feafon for the principal part of them is June and July : but in a full collection of the different species, the blow is continued in conflant fuccession feveral months, even lometimes from May till near Christmas; producing their flowers univerfally on the fame year's thoots, riling from those the year before, generally on long pedunculi, each terminated by one or more roles, which in their characteriflic state consist each of five large petals and many stamina; but in the doubles, the petals are very numerous; and in some forts, the flowers are succeeded by fruit ripening to a red colour in autumn and winter, from the feed of which the plants may be raifed; but the most certain and eligible mode of propagating most of the forts is by fuckers and layers; and by which methods they may be increased very expeditionally in great abun-

The white and red rofes are used in medicine. The former distilled with water yields a fmall portion of a butyraceous oil, whose flavour exactly resembles that of the roles themselves. This oil and the distilled water are very useful and agreeable cordials. These roses alfo, befides the cordial and aromatic virtues which refide in their volatile parts, have a mild purgative one, which remains entire in the decoction left after dittillation. The red rofe, on the contrary, has an aftringent and gratefully corroborating virtue.

ROSA, SALVATOR, an admirable painter, born at Naples in 1614. He was first instructed by Francesco Francazano, a kinfman : but the death of his father reduced him to fell drawings sketched upon paper for any thing he could get; one of which happening to fall into the hands of Lanfranc, he took him under his protection, and enabled him to enter the school of Spagnoletto, and to be taught moreover by Daniel Falcone, a diffinguished painter of battles at Naples, Salvator had a fertile imagination. He studied nature with attention and judgement; and always represented her to the greatest advantage: for every tree, rock, cloud, or fituation, that enters into his composition, shows an elevation of thought that extorts admiration. He was equally eminent for painting battles, animals, fea or land storms; and he executed these different fubjects in fuch tafte as renders his works readily distinguishable from all others. His pieces are exceedingly scarce and valuable; one of the most capital is that representing Saul and the witch of Endor, which was preserved at Versailles. He died in 1673; and as his paintings are in few hands, he is more generally known by his prints, of which he etched a great number. He painted landicapes more than history; but his prints are chiefly historical. The capital landscape of this

master at Chiswick is a noble picture. However, he is Rofamend, faid to have been ignorant of the management of light, and to have fometimes thaded faces in a difagreeable manner. He was however a man of undoubted genius; of which he has given frequent specimens in his works. A roving disposition, to which he is faid to have given full We are told that he fpent the early part of his life in a troop of banditti; and that the rocky defolate scenes in which he was accustomed to take refuge, furnished him with those romantic ideas in landscape, of which he is fo exceedingly fond, and in the defeription of which he fo greatly excels. His robbers, as his detached figures are commonly called, and supposed also to have been taken from the life.

> Salvator Rofa is fufficiently known as a painter: but he is little known as a mudcian. Among the mufical manuscripts purchased at Rone by Dr Burney, was a music book of Salvator, in which are many airs and cantatas of different mafters, and eight entire cantatas, written, fet, and transcribed by this celebrated painter himself. From the specimen of his talents for music here given, we make no fcruple of declaring, that he had a truer genius for this science, in point of melody, than any of his predeceffors or cotemporaries; there is also a strength of expression in his verses, which sets him far above the middle rank as a poet. Like most other artists of real original merit, he complains of the ill usage of the world, and the difficulty he finds in procuring a bare fubfiftence.

ROSACEA. See GUTTA Refocea.

ROSACEOUS, among botanifts, an appellation given to fuch flowers as are composed of several petals or leaves disposed in a fort of circular form, like those of a rofe.

ROSAMOND, daughter of Walter Lord Clifford, was a young lady of exquifite beauty, fine accomplishments, and bleffed with a most engaging wit and fweetness of temper. She had been educated, according to the custom of the times, in the nunnery of God tow; and the popular flory of her is as follows: Henry II. faw her, loved her, declared his passion, and triumphed over her honour. To avoid the jealoufy of his queen Elinor, he kept her in a wonderful labyrinth at Woodflock, and by his connection with her had William Longfword earl of Salifbury, and Geoffrey bifhop of Lincoln. On Henry's absence in France, however, on account of a rebellion in that country, the queen found means to discover her, and, though struck with her beauty, the recalled fufficient refentment to poifon her. The queen, it is faid, discovered her apartment by a thread of filk; but how the came by it is differently related. This popular flory is not however supported by hiftory; feveral writers mention no more of her, than that the queen fo vented her spleer, on Rosamond as that the lady lived not long after. Other writers affert that the died a natural death; and the flory of her being poisoned is thought to have arisen from the figure of a cup on her tomb. She was buried in the church of Godftow, opposite to the high altar, where her body remained till it was ordered to be removed with every mark of diffgrace by Hugh bithop of Lincoln in 1191. She was, however, by many confidered as a faint after her death, as appears from an infeription on a crofs which Leland fays flood near Godflow:

Qui meat has oret, fignum falutis adoret, Vique fibi detur veniam. La famanda presetur.

And also by the following flory: Rosamond during \_\_\_\_\_\_ her residence at her bower, made several visits to Godflow; where being frequently reproved for the lite ine tiquitie of led, and threatened with the confequences in a future Linguista flate, the always answered, that the knew the thould not in be faved; and as a token to them, thowed a tree which p. 176, &cc. the faid would be turned into a flone when the was with the faints in heaven. Soon after her death this wonderful metamorphofis happened, and the Rone was

shown to strangers at Godstow till the time of the disso-ROSARY, among the Roman Catholics. See CHAF-LET.

ROSBACH, a town of Germany, in Saxony, famous for a victory obtained here by the king of Prussia over the French, on November 5. 1757, in which 10,000 of the French were killed or taken prisoners, with the lofs of no more than 500 Pruffians. See PRUS-SIA. Nº 30.

ROSCHILD, a town of Denmark, in the ifle of Zealand, with a bishop's see and a small university. It is famous for a treaty concluded here in 16;8; and in the great church there are feveral tombs of the kings of Denmark. It is feated at the bottom of a fmall bay, in

E. Long. 12. 20. N. Lat. 55. 40.

ROSCOMMON, a county of Ireland, in the province of Connaught, bounded on the west by the river Suc, on the east by the Shannon, on the north by the Curlew mountains, on the fouth and fouth-east by the King's county and part of Galway. Its length is so miles, its breadth 28. The air of the county, both on the plains and mountains, is healthy; the feil yields plenty of grafs with fome corn, and feeds numerous herds of cattle. The Curlew mountains on the north are very high and steep; and, till a road with great labour and difficulty was cut through them, were impaffable. This county contains 50 parishes, and formerly fent eight members to parliament.

Roscommon, which gives the title of earl to the family of Dillon, and name to the county, though not large, is both a parliamentary borough, and the county

ROSCOMMON, Wentworth Dillon, Earl of, a celebrated poet of the 17th century, was the fon of James Dillon earl of Roscommon; and was born in Ireland, under the administration of the first earl of Strafford, who was his uncle, and from whom he received the name of Wentworth at his baptism. He passed his infancy in Ireland; after which the earl of Strafford fent for him into England, and placed him at his own feat in Yorkthire, under the tuition of Dt Hall, afterwards bifhop of Norwich, who instructed him in Latin, without teaching him the common rules of grammar, which he could never retain in his memory, and yet he learnt to write in that language with claffical elegance and propriety. On the carl of Strafford's being imperched, he went to complete his education at Caen in Normandy; and after some years travelled to Rome, where he hecame acquainted with the most valuable remains of antiquity, and in particular was well skilled in medals, and learned to fpeak Italian with Fich grace and fluency, that he was frequently taken for a native. He reR. fcom- turned to England foon after the Restoration, and was made captain of the band of penfioners; but a dispute with the lord privy-scal, about a part of his estate, oblired him to relign his post, and revisit his native country, where the duke of Ormond appointed him captain of the guards. He was unhappily very fond of gaming; and as he was returning to his lodgings from a gamingtable in Dullin, he was attacked in the dark by three ruffians, who were employed to affaffinate him. The earl defended himfelf with fuch resolution, that he had dispatched one of the aggressors, when a gentleman pasfing that way took his part, and difarmed another, on which the third fought his lafety in flight. This renerous affidant was a difbanded officer of good family and fair reputation, but reduced to poverty; and his lordthip rewarded his bravery by refigning to him his post of captain of the guards. He at length returned to London; when he was made mafter of the horse to the duchefs of York, and married the lady Frances, eldeft daughter of Ric, ard earl of Burlington, who had been the wife of Colonel Courtney. He here diffinguished himself by his writings; and in imitation of those learned and polite affemblies with which he had been acquainted abroad, began to form a fociety for refining and fixing the standard of the English language, in which his great friend Mr Dryden was a principal affillant. This scheme was entirely defeated by the religious commotions which enfued on King James's accelfion to the throne. In 1683 he was feized with the gout; and being too impatient of pain, he permitted a bold French empiric to apply a repelling medicine, in order to give him present relief; this drove the diflemper into his bowels, and in a fhort time put a period to his life, in January 1684. He was buried with great

pomp in Westminster-abbey. His poems, which are not numerous, are in the body of English poetry collected by Dr Johnson. His " Esfay on Translated Verse," and his translation of " Horace's Art of Poetry," have great merit. Waller addreffed a poem to his lordilip upon the latter, when he was 75 years of age. " In the writings of this nobleman we view (fays Fenton) the image of a mind naturally ferious and folid; richly furnished and adorned with all the ornaments of art and science; and those ornaments unaffectedly disposed in the most regular and elegant order. His imagination might probably have been more fruitful and sprightly, if his judgement had been less severe; but that severity (delivered in a masculine, clear, fuccinct ftyle) contributed to make him fo eminent in the didactical manner, that no man, with justice, can affirm he was equalled by any of our nation, without confessing at the same time that he is inferior to none. In fome other kinds of writing his genius feems to have wanted fire to attain the point of perfection; but who can attain it? He was a man of an amiable disposition, as well as a good poet; as Popc, in his ' Essay on Criticism,' hath testified in the following

-Roscommon not more learn'd than good, With manners generous as his noble blood; To him the wit of Greece and Rome was known, And every author's merit but his own."

We must allow of Roscommon, what Tenton has not mentioned fo diffinctly as he ought, and, what is yet very much to his honour, that he is perhaps the only Roke correct writer in verse before Addison; and that, if there are not fo many or fo great beauties in his compofitions as in those of some contemporaries, there are at kall fewer faults. Nor is this his hignest praise; for Pope has celebrated him as the only moral writer of King Charles's reign :

Unhappy Dryden! in all Charles's d.vs. Roicommon only boatts unfootted lavs.

Of Roscommon's works, the judgement of the mublic feems to be right. He is elegant; but not great; he never labours after exquifite beauties, and he felicione fails into groß faults. His vertification is smooth, but rarely vigorous, and his rhymes are remarkably exact. He improved taite, if he did not enlarge knowledge, and may be numbered among the benefactors to English

ROSE, in Botany. See Rosa.

Effence of ROSES. See ROSES, Otter of.

KOSE of Jericho, to called because it grows in the plain of Jericho, though it did not originally grow there. It has perhaps been to named by travellers who did not know that it was brought from Arabia Petræa. Rofe buthes are frequently found in the fields about Jericho : but they are of a species much inserior to those so much extolled in Scripture, the flowers of which some natura-

lists pretend to have in their cabinets,

"The role thrub of Jericho (rays Mariti) is a small plant, with a bully root, about an inch and a half in length. It has a number of ftems which diverge from the earth: they are covered with few leaves; but it is loaded with flowers, which appear red when in bud, turn paler as they expand, and at length become white entirely. These flowers appear to me to have a great refemblance to those of the elder-tree; with this difference, that they are entirely deflitute of fmell. The stems never rise more than four or five inches from the ground. This shrub sheds its leaves and its flowers as it withers. Its branches then bend in the middle, and, becoming entwined with each other to the top, form a kind of globe. This happens during the great heats; but during mout and rainy weather they again open and expand.

"In this country of ignorance and superstition, people do not judge with a philosophical eye of the alternate flutting and opening of this plant : it appears to them to be a periodical miracle, which heaven operates in order to make known the events of this world. The inhabitants of the neighbouring cantons come andexamine these shrubs when they are about to undertake a journey, to form an alliance, to conclude any affair of importance, or on the birth of a fon. If the ftems of the plants are open, they do not doubt of fuccefs; but they account it a bad omen to see them thut, and therefore renounce their project if it be not too

" This plant is neither subject to rot nor to wither, It will bear to be transplanted; and thrives without de-

generating in any kind of foil whstever."

ROSES, Otter or effential oil of, is obtained from roles by fimple distillation, and may be made in the following manner: A quantity of fresh roles, for example 40 pounds, are put in a fill with 60 pounds of water, the rofes being left as they are with their calyxes, but

& Vol. i. 332.

with the stems: cut close. The mass is then well mixed together with the hands, and a gentle fire is made under the still; when the water begins to grow hot, and fumes to rife, the cap of the still is put on, and the pipe fixed; the chinks are then well luted with paste, and cold water put on the refrigeratory at top: the receiver is also adapted at the end of the pipe; and the fire is continued under the ftill, neither too violent nor too weak. When the impregnated water begins to come over, and the still is very hot, the fire is lessened by gentle degrees, and the distillation continued till 30 pounds of water are come over, which is generally done in about four or five hours; this rofe-water is to be poured again on a fresh quantity (40 pounds) of roses, and from 15 to 20 pounds of water are to be drawn by distillation, following the same process as before. The rose-water thus anade and cohobated will be found, if the rofes were good and fresh, and the distillation carefully performed, highly scented with the roses. It is then poured into pans either of earthen ware or of tinned metal, and left exposed to the fresh air for the night. The otter or esfence will be found in the morning congealed, and fwimming on the top of the water; this is to be carefully feparated and collected either with a thin shell or a skimmer, and poured into a vial. When a certain quantity has thus been obtained, the water and feces must be separated from the clear essence, which, with respect to the first, will not be difficult to do, as the esfence congeals with a flight cold, and the water may then be made to run off. If, after that, the effence is kept fluid by heat, the feces will fubfide, and may be feparated; but if the operation has been neatly performed, these will be little or none. The feces are as highly perfumed as the effence, and must be kept, after as much of the effence has been skimmed from the rofewater as could be. The remaining water should be used for fresh distillations, instead of common water, at least

as far as it will go. The above is the whole process, as given in the Asiatic Refearches by Lieutenant-colonel Polier \*, of making genuine otter of rofes. But attempts (he fays) are often made to augment the quantity, though at the expence of the quality. Thus the raspings of fandalwood, which contain a deal of effential oil, are used; but the imposition is easily discovered, both by the smell, and because the effential oil of fandal-wood will not congeal in common cold. In other places they adulterate the otter by distilling with the roses a sweetscented grass, which colours it of a high clear green. This does not congeal in a flight cold. There are numerous other modes, far more palpable, of adulteration. The quantity of effential oil to be obtained from rofes is very precarious, depending on the skill of the distiler, on the quality of the roles, and the favourableness of the feafon. The colour of the otter is no criterion of its goodness, quality, or country. The calyxes by no means diminish the quality of otter, nor do they impart any green colour to it. They indeed augment the quantity, but the trouble necessary to strip them is such as to prevent their being often used.

The following is a fimpler and lefs expensive process for preparing this delicate and highly valued perfume; but whether it be equally productive, we know not. A large earthen or stone jar, or a large clean wooden cask is filled with the leaves of the flowers of roses, well

picked and freed from the feeds and stalks; and as much Role, fpring water as will cover them being poured into the Roleito vessel, it is fet in the sun in the morning at sunrise and allowed to fland till the evening, when it is removed into the house for the night. In the same way it is to be exposed for fix or seven days successively. At the end of the third or fourth day a number of particles of a fine vellow oily matter is feen floating on the furface. These particles in the course of two or three days more collect into a fcum, which is the otter of rofes. This is taken up by means of cotton tied to the end of a piece of flick, and foucezed with the finger and thumb into a fmall phial, which is immediately well flopped; and this is repeated for fome fuccessive evenings, or while any of this fine effential oil rifes to the furface of the water.

It is faid that a few drops of this effential oil have at different times been collected in the city of London by distillation, in the same manner as those effential oils which are obtained from other plants.

Rose-Noble, an ancient English gold coin, first struck in the reign of Edward III. It was formerly current at 6s, 8d. and fo called because stamped with a rose. See MONEY.

ROSE-Wood. See ASPALATHUS, BOTANY Index.

ROSETTO, or ROSETTA, a town of Africa, in Egypt, is pleafantly fituated on the west fide of that branch of the Nile called by the ancients Bolbitinum, affirmed by Herodotus to have been formed by art; the town and castle being on the right hand as you enter that river. Any one that fees the hills about Rosetto would judge that they had been the ancient barriers of the fea, and conclude that the fea has not loft more ground than the space between the hills and the water.

Rosetto is esteemed one of the pleasantest places in Egypt; it is about two miles long, and confifts only of two or three streets. The country about it is most delightful and fertile, as is the whole Delta on the other fide of the Nile, exhibiting the most pleafant prospect of gardens, orchards, and corn-fields, ex-cellently cultivated. The castle stands about two miles north of the town, on the west side of the river, It is a fquare building, with round towers at the four corners, mounted with fome pieces of brass cannon. The walls are of brick, cafed with stone, supposed to have been built in the time of the holy war, though fince repaired by Cheyk Begh. At a little distance lower, on the other fide of the river, is a platform, mounted with some guns, and to the east of it are the falt lakes, from which great quantities of that commodity are gathered. At some farther distance, failing up the river, we fee a high mountain, on which flands an old building that ferves for a watch-tower. From this eminence is discovered a large and deep gulf, in form of a crescent, which appears to have been the work of art, though it be now filled up, and discovers nothing but its ancient bed. Roletto is a confiderable place for commerce, and hath fome good manufactures in the linen and cotton way; but its chief bufines is the carriage of goods to Cairo, all the European merchandise being brought thither from Alexandria by fea, and carried in other boats to that capital; as those that are brought down from it on the Nile are there shipped off for Alexandria; on which account the Eu-

Roletta, ropeans have here their vice-confuls and factors to Rotteru- transact their business; and the government maintains a beigh, a customhouse, and a garrison, to keep all safe

and quiet.

In the country to the north of Rosetto are delightful gardens, full of orange, lemon, and citron trees, and almost all forts of fruits, with a variety of groves of palm-trees; and when the fields are green with rice, it adds greatly to the beauty of the country. It is about 25 miles north-east of Alexandria, and 100 north-west

of Cairo. E. Long. 30. 45. N. Lat. 31. 30. ROSICRUCIANS, a name affumed by a feet or cabal of hermetical philosophers; who arose, as it has been faid, or at least became first taken notice of, in Germany, in the beginning of the fourteenth century, They bound themselves together by a solemn secret, which they all fore inviolably to preferve; and obliged themselves, at their admission into the order, to a strict observance of certain established rules. They pretended to know all fciences, and chiefly medicine; whereof they published themselves the restorers. They pretended to be mafters of abundance of important fecrets, and, among others, that of the philosopher's stone; all which they affirmed to have received by tradition from the ancient Egyptians, Chaldeans, the Magi, and Gymnofophists. They have been dillinguished by several names, accommodated to the feveral branches of their doctrine, Because they pretend to protract the period of human life, by means of certain noftrums, and even to reftore youth, they were called Immortales; as they pretended to know all things, they have been called Illuminati; and because they have made no appearance for several years, unless the fect of Illuminated which lately flarted up on the continent derives its origin from them, they have been called the invisible brothers. Their fociety is frequently figned by the letters F. R. C. which fome among them interpret fratres roris colti; it being pretended, that the matter of the philosophers stone is dew concocted, exalted, &c. Some, who are no friends to free-masonry, make the present flourishing society of free-masons a branch of Rosicrucians; or rather the Roficrucians themselves, under a new name or relation, viz. as retainers to building. And it is certain, there are fome free-masons who have all the characters of Rosicrucians; but how the æra and original of masonry (see MASONRY), and that of Roficrucianism, here fixed from Naudæus, who has written expressly on the subject, confift, we leave others to judge.

Notwithstanding the pretended antiquity of the Rosscrucians, it is probable that the alchemists, Paracelfists, or fire-philosophers, who spread themselves through almost all Europe about the close of the fixteenth century, assumed about this period the obscure and ambiguous title of Roficrucian brethren, which commanded at first some degree of respect, as it seemed to be borrowed from the arms of Luther, which were a cross placed upon a rofe. But the denomination evidently appears to be derived from the science of chemistry. It is not compounded, fays Mosheim, as many imagine, of the two words rola and crux, which fignify role and crofs, but of the latter of these words, and the Latin ros, which fignifies dew. Of all natural bodies, dew was deemed the most powerful dissolvent of gold; and the crofs, in the chemical language, is equivalent to light, because the figure of a cross + exhibits, at the

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fame time, the three letters of which the word lux, or Reficralight, is compounded. Now lux is called, by this feet, the feed or menstruum of the red dragon, or, in other Roskild. words, that gross and corporeal light which, when properly digested and modified, produces gold. Hence it follows, if this etymology be admitted, that a Roticracian philosopher is one who, by the intervention and affiftance of the dew, feeks for light, or, in other words, the substance called the philosopher's stone. The true meaning and energy of this denomination did not escape the penetration and fagacity of Gassendi, as appears by his Examen Philosophia Fluddana, fect. 15. tom. iii. p. 261. And it was more fully explained by Renaudot. in his Conferences Publiques, tom. iv. p. 87.

At the head of these fanatics were Robert Fludd, an English physician, Jacob Behmen, and Michael Maver; but if rumour may be credited, the present Illuminated have a head of higher rank. The common principles, which ferve as a kind of centre of union to the Roficrucian fociety, are the following: They all maintain, that the diffolution of bodies, by the power of fire, is the only way by which men can arrive at true wildom, and come to difcern the first principles of things. They all acknowledge a certain analogy and harmony between the powers of nature and the doctrines of religion; and believe that the Deity governs the kingdom of grace by the fame laws with which he rules the kingdom of nature; and hence they are led to use chemical denominations to express the truths of religion. They all hold, that there is a fort of divine energy, or foul, diffused through the frame of the universe, which some call the archeus, others the universal foirit, and which others mention under different appellations. They all talk in the most superstitious manner of what they call the fignatures of things, of the power of the stars over all corporeal beings, and their particular influence upon the human race, of the efficacy of magic, and the various ranks and orders of demons .-These demons they divide into two orders, suphs and gnomes; which supplied the beautiful machinery of Pope's Rape of the Lock. In fine, the Roficrucians and all their fanatical descendants agree in throwing out the most crude incomprehensible notions and ideas, in the most obscure, quaint, and unusual expressions .- Mosh. Eccl. Hift. vol. iv. p. 266, &c. English edition, 8vo. See BEHMEN and THEOSOPHISTS.

ROSIER. See PILATRE.

ROSIERS-AUX-SALINES, a town of France, in the department of Meurthe, famous for its fult-works. The works that King Staniflaus made here are much admired. It is feated on the river Muerthe, in E. Long. 6. 27. N. Lat. 48. 35.

ROSKILD, formerly the royal refidence and metropolis of Denmark, flands at a small distance from the bay of lieford, not far from Copenhagen. In its flourishing flate it was of great extent, and comprised within its walls 27 churches, and as many convents .-Its present circumserence is scarcely half an English mile, and it contains only about 1620 fouls. The houses are of brick, and of a neat appearance. The only remains of its original magnificence are the ruins of a palace and of the cathedral, a brick building with two foires, in which the kings of Denmark are interred. Little of the original building now remains. According to Holberg, it was confirueded of wood, and af terwards

Reskild, terwards built with stone, in the reign of Canute .--From an infeription in the enoir, it appears to have been founded by Harold VI. who is styled king of Denmark, England, and Norway. Some verles, in Darbarous Latin, coscurety allude to the principal incidents of his line; adding, that he built this church, and died in 980. -See Coxe's Travels into Poland, Ruffia, Sweden, and Denmark, vol. ii. p. 525.

ROSLEY-HILL, a village in Cumberland, with a fair on Whit-Monday, and every tortnight after till September 29. for hories, horned cattle, and linen cloth. ROSLIN, or ROSKELYN, a place in the county of Mid Lothian in Scotland, remarkable for an ancient chapel and cattle. The chapel was tounded in 1446. by St Clare, prince of Orkney, for a provoit, fix prebendaries, and two finging boys. The outfide is ornamented with a multitude of pinnacles, and variety of ludicrous sculpture. The inside is 69 feet long, the breadth 34, supported by two rows of clustered pillars, between feven and eight feet high, with an aitle on each fide. The arches are o' tufe y Gothic. Thefe arches are continued across the fide aitles, but the centre of the church is one continued arch, elegantly divided into compartments, and finely fculptured. The capitals of the pillars are enriched with toliage, and a variety of figures; and amidit a heavenly concert appears a cherubin blowing the ancient Enghland bagpipes. The cattle is feated on a per infulated rock, in a deep glen far beneath, and accolliple by a bridge of great height. This had been the feat of the great family of Sinctair. Of this house was Oliver, favourite of James V. and the innocent cause of the loss of the battle of Solway Mois, by reason of the envy of the nobility on account of his being preferred to the command.

Vear this place the English received three defeats in one day under John de Segrave the English regent of Scotland in 1902. The Scots, under their generals Cummin and Fraler, had resolved to surprise Segrave ; with which view they began their march on the night of Saturday preceding the first Sunday of Lent, and reached the English army by break of day. Segrave, however, had time to have fallen back upon the other division which lay behind him; but either despising his enemies too much, or thinking that he would be difhonoured by a retreat, he encountered the Scots; the consequence of which was, that he himself was made prisoner, and all his men either killed or taken, except fuch as fled to the other division. As in this routed division there had been no fewer than 300 knights, each of whom brought at least five horsemen into the field. great part of the Scots infantry quickly furnished themselves with their horses; but, as they were dividing the ipoils, another divition of the English appeared, and the Scots were obliged to fight them also. The English, after a bloody engagement, were defeated a second time; which was no fooner done, than the third and most powerful division made its appearance. The Scots were now quite exhausted; and, pleading the excessive lathey had already undergone, earneftly requefted their generals to allow them to retreat while it was yet in their power. Their two generals, who perhaps knew that to be impracticable, reminded them of the cause for which they were fighting, the tytanny of the English, &c. and by these arguments prevailed upon them to fight a third time; though, previous to the engagement, they were reduced to the cruel necessity of putting all the common foidiers whom they had made prifoners to the fword. The victory of the Scots at this time was less complete than the other two had been; fince they could not prevent the retreat of the English to Edinburgh, nor Segrave from being releved from his captivity.

ROSALARINUS, RESEMARY, a genus of plants belonging to the diandria class, and in the natural method ranking under the 42d order, Verticillata. See BOTA-

ROSS, in Herefordshire, in England, 119 miles from London, is a fine old town, with a good trade, on the river Wye. It was made a free borough by Henry III. It is a populous place, famous for cyder, and was noted in Camden's time for a manufacture of iron-wares. There are in it two charies tchools, which lately have been enriched by a legacy of 200h per annum from Mr Scott, in Dec. 1786, a fecond Man of Rofs. And its market and fairs are well flored with cattle and other provisions. At the west end of it there is a fine broad causeway, confiructed by Mr John Kyrle, the celebrated Man of Rofe, who also raised the spire upward of 100 feet, and inclosed a piece of ground with a ftone wall, and tunk a refervoir in its centre, for the use of the inhabitants of the town. He died in 1714, aged oo, with the bleffing of all who knew him. both rich and poor. The banks of the Wive, between this town and Monmouth, are extremely pleafant, W. Long. 2. 25. N. Lat. 91. 56.

ROSSANO, a throng town of Italy, in the kingdom of Naples, and in the Hither Calabria, with an archivishop's lee, and the title of a principality. It is a reity large, well peopled, and feated on an eminence furouseed with rocks. There is nothing in this archiepifeepal city that claims much notice; the buildings are mean. the flieets vilely paved and contrived. The number of inhabitants does not exceed 6000; who subfift by the fale of their oil, the principal object of their attention, though the territory produces a great deal of good wire and corn.

Roffeno probably owes its origin to the Roman emperors, who confidered it as a poit equally valuable for ftrength and convenience of traffic. The Marfaus, a family of French extraction, possessed this territory, with the title of prince, from the time of Charles II. to that of Alphonius II. when the last male heir was, by that prince's order, put to death in Ischia, where he was confined for treason. It afterwards belonged to Bona, queen of Poland, in right of her mother Itabella. daughter to Alphonius II; and at her deceate returned to the crown. It was next in the poffethon of the Aldobrandini, from whom the Borghesi inherited it. So late as the 16th century, the inhabitants of this city spoke the Greek language, and followed the rites of the eaftern church. Here was formerly the most colebrated. rendezvous of the Bufillan monks in Magna Greecia. E. Long. 16, 52. N. Lat. 30. 45.

ROS-solis, Sun-deve, an agreeable spirituous liquor, composed of burnt brandy, fugar, cinnamon, and milk. water; and fometimes perfumed with a little musk. It has its name from being at first prepared wholly of the juice of the plant ros folis, or drofera. See DROSERA, BOTANY Index.

ROSS-SHIRE, is the most extensive county in Scot-

land.

Ros hate. land, measuring about So miles in length by almost as much in breadth, and contains 1,776,000 fquare acres. It is even more extensive than any county of England. if we except Yorkshire; and contains in it the itland of Lowis, which is one of the Hebrides, or Western Isles. The county of Sutherland is the northern boundary of Rofs; on the east it is bounded by the county of Cromarty and the ocean; on the fouth by the thire of Inverness; and on the west by the ocean.

> R is thire is very fertile in corn, and its eaftern coaft. which is ornamented with different country feats inhabited by the proprietors, has always been regarded as constituting a part of the Lowlands of Scotland; but the wellers parts rife into mountains, and properly form part of the Highlands, where the vernacular tongue is the

Erfe or Gaelic.

Among the different waters which are met with in this county, we may mention the friths of Dornoch and Cromarty, the latter of which ftretches far into the land from the Moray frith. The river Ockel, which has its fource in the parish of Assist in Sutherlandshire, is one of the chief streams of Ross; and after a course of more than 40 miles, dicharges itself into the head of the frith of Dornoch. The river Conan bends its course towards the east coast, and empties itself into the most inland part of the frith of Cromarty. It contains abundance of falmon, and pearls at one period were found not far from its mouth. The frith of Beauly conftitutes the boundary of Rofs with Inverne's shire; and this, together with those of Dornoch and Cromarry, are of confiderable importance, as they afford access to a great part of it by means of water carriage. Between the friths of Moray and Cromarty, the coast is bold and rocky, abounding with dreadful precipices and highly romantic views. Along the shore there are numerous caves hollowed out by the hand of nature, some of them extremely deep, and one in particular runs entirely through the rock, a dillance of about 150 feet. There are also natural caves on the north fide of the frith of Cromarty, some of which, it is faid, are of such vast dimensions as to be able to contain about 600 men. From their upper parts there are drops of water continually diffilling, and by the petrifaction thus gradually accomplified, their appearance above refembles the finest marble. In these a variety of birds take up their refidence, and pigeons bring forth their young.

The western coast is deeply indented with arms of the fea called bays, or otherwife lochs; among which are great and little Loch Broom, to the fouthward of which there is a fresh water lake of considerable extent, known by the name of Loch Mari, in the parith of Gairloch. It is about 16 miles long, but its breadth varies confiderably. It contains 24 small islands, which are decorated with fir and other trees. We find the ruins of a druidical edifice on the large island called Mari, round which there is a burying ground made use of by the inhabitants on the north fide of Loch Mari as a place

of interment.

The cod fishing has been long established at Gairloch, in the fame vicinity; nearly 40,000 cod being annually fent to market by a fingle proprie or. It has also been long celebrated, as we'l as Loch Broom. for the berring fishery. In the parish of Loca Alsh there are extensive banks of corals, which have been found, upon trial, to be valuable manure.

In the level parts of the country between the moun Ru thire. tains there are numerous lakes adorned with elightful scenery, and some of them measuring not less than three miles in length. This county is almost wholly mountainous, yet even here we fin i some which are more memorable than others, and very much calculated to arrest the attention. Tulloch Ard is a mountain of great height, and becomes remarkable on account of the use which was made of it in ancient times. At the commencement of hostilities with any enemy, a barrel of burning tar might be feen flaming from is fuminit, which was the established tranal, in confequence of which the tenants and vallals of Scaforth appeared at the castle of St Donan in twenty-four hours, completely equipped for marching against the foc. The arms of that honourable family have this mountain for a crest. Ben-Uaish, in the parith of Kiltearn, reats its summit above the rest of the mountains, and may be seen across the Moray frith, from the counties of Elgin and Banff. It is constantly covered with fnow, from which the family of Foulis must give, if demanded, to his Britannie majesty on any day of the year, a snowball as quitrent for its tenure of the forest of Ualth. There is plenty of heath and grafs around its bak, which affords excellent pasture for cattle.

The county of Rofs cour ins 82 proprietors of land, 7 of whom are of the falt chifs, 3 of the fee nd, 12 of the third, 16 of the forth and 41 of the fifth ches; the valued rent of all t of amounting to 75.040l. 108. 3d. Scots money, as fe the in the reign of Charles I. while the real rent is computed at not less than 28,7:11.

The grains usually cultivated in the shire of Ross are barley, oats, peafe and beans, petatnes, and wheat on particular occasions. A great part of the county, however, is converted into grafs, owing to the want of marke's for the conjumption of other productions; and those who adopt this plan find it more for their interest than that which is ufually followed in more fiturate fituations. The foil in general is good; fome of it bears luxuriant crops, and the vast improvements in modern agriculture, if carefully attended to, would make the most unfavourable pols become worthy of cultivation. Lime, mark and thelly fand, conflitute the manure which is used by gentlemen and extensive farmers. while fmaller tenants substitute a compost of earth and dung, in the proportion of three loads of the former to one of the latter. The country in general lies open, but the farms of gentlemen and fome of the wealthier tenants are inclosed; and fuch as are fo are reckoned one half more valuable than those which are

Would proprietors in this county grant their tenants leafes for 19 at leaft, inflead of 5 or 7 years, they would hold out a flimulus to industry and improvement which cannot possibly he felt as circumstances now fland. What encouragement has a man to beflow monev and labour on the property of another, of which he knows he must be deprived in the course of seven years. The man who holds a farm during fuch a trifling period, must tear all out of it he can at the least possible expence, and leave it to the proprietor, when he

departs, little better than a common.

The proprietors of the county of Rofs have of late become very attentive to different species of impresements ;

Ros-shire ments; and in the lower parts of it we meet with excellent roads, as well as bridges built over every rivulet of any extent whatever, which facilitate travelling, and render it agreeable. The moors which once exhibited nothing but flerility, are now covered with firs; while pines, with different species of timber, surround their boules. The fit, elm, oak, and beech, are found to thrive in this county, as well as various kinds of fruit trees, not even excepting apricots, peaches, and plums. In the central district of Rofs still remains the extensive forest of Fainish, about 20 miles in length. The western diffrict is very extensive; but its general aspect is by no means inviting. From the top of a mountain a stranger sees nothing around him but a desolate and dreary region, vatt piles of rocky mountains with forked fummits; yet interspersed among these are many beautiful and fertile vales, exhibiting, however, a great variety of foil, owing to the peculiarity of their

> The climate may be faid to be as unequal as the face of the country iffelf, fince no two days in fuccession can at all be depended on at any given period of the year. Indeed the featons may not improperly be regarded as always wet, and the lower classes of the inhabitants especially consider almost every thing as an indication of rain. If mist fettle on the tops of the hills; if the clouds be heavy; if a crow chatter, or if the day be hot or cold, rain, in the judgement of a Highlander, may be affuredly expected to follow. From thus having what fome have denominated a weeping climate, it is enfy to fee that it must be much better adapted for passurage than agriculture; yet invincible patience, perfeverance, and a competent knowledge of hufbandry have, in many parts of it, furmounted the obstacles that fuch a climate must ever throw in the way of improve-

> The mineral productions are not very abundant, but fome of them are of confiderable importance in the arts and manufactures. Here there is plenty of freestone, and different species of limestone, some of which are of the nature of marble: Marl is also to be met with, and ironstone in great abundance. A copper mine in the northern district of the parish of Applecross, has been confidered by Williams, in his Mineral Kingdom, as equally rich with any mine of the fame metal to be met with in the British empire. There is a rich ore of iron in the parish of Alness; and in the same vicinity there is a vein of lead, containing a large proportion of filver. Indications of lead one have likewife been met with in the parish of Kilteam. There is a chalybeate fpring near the storehouse of Foulis, the good effects of which were experienced many years ago; but of the medical properties of the foring at Tienleod, known by the name of St Colman's Well, we have no certain accounts, although the votaries of superflition have frequently drunk of its waters, and then fulpended some rags from the branches of the furrounding trees, as an oblation to the faint.

This county contains three royal boroughs, viz. Tain, Dingwall, and Portrole, a description of which will be found in this work, in the order of the alphabet, as well as of Lewis, one of the Hebrides, and its chief town Stornoway, which have fometimes been taken notice of in a general description of Ross-Ibire, although wholly detached from it.

In this county there are many remains of antiquity, Ros-shire. the most memorable of which we shall here enumerate. There is a Druidical circle or temple on the eastern part of the county, and parish of Kiltearn, confisting of twelve large stones placed perpendicularly, and fo arranged as to form two ovals, which are united together, and having equal areas, mcaluring 13 feet each from east to west, and ten feet in the middle from north

There is a large obelisk in the parish of Nigg, with figures of different animals on one fide of it, and a cross on the other, executed with confiderable tafte. The former is conjectured to be of greater antiquity than the latter. According to tradition, it was erected to perputuate a shipwreck suffered by the Danes, at which time three fons of the king of Denmark are supposed to have perished, and to have been interred in the place on which the obelifk stands. In the churchyard of Nigg there once flood another of a fimilar nature, likewife supposed to have been erected by the Danes. which in confequence of a violent wind was thrown down about the year 1725. The fculpture is still in a flate of tolerable preservation, and resembles that which is found on the other monuments left by that people in

different parts of Scotland.

Craigchenichan in the parish of Kincardine, is memorable for being the place where the celebrated marquis of Montrofe fought his last battle, when he was defeated by Colonel Strachan. Having fwimmed across the Kyle, he lay for fome time concealed in Affint; but on being discovered, he was apprehended, and sent prisoner to Inverness. The ground on which the battle was fought derived its name from the iffue of that interesting day; for the fignification of Craigehenichan is, the Rock of Lamentation. There is still feen in the parish of Avoch, the foundation of a large castle of great antiquity, on the fummit of a hill in the neighbourhood of Castletown Point, elevated about 200 feet above the level of the fea. Some people call this Ormondy hill; and tradition has given the name of Douglas castle to the ruins. It covers a space of ground in the form of a parallelogram; the longest fides of which measure 350, and the shortest 160 feet, fo that the whole area contains upwards of 6,300 fquare yards.

According to tradition, there are many places in the eastern district of this county where bloody battles were fought, either with the invading Danes and Norwegians, with daring plunderers, or between rival clans, who bitterly contended for superiority. Large collections of stones, called cairns, direct the traveller to the fpots where the remains of the dead were deposited, who had fallen in the field of battle. There are manifest indications of an encampment on a large plain to the westward of the church of Eddertown, where a battle is faid to have been fought with the invading Danes. In its vicinity there is an extensive circle of earth, about two feet higher than the circumjacent ground, being flat at the top, with an obelick in the centre about 10 feet in height, on which a number of rude figures may still be traced. This is regarded as the tomb of fome Danish prince.

The abbey and castle of Locklin are the most remarkable remains of antiquity in the parish of Fearn, the former of which is faid to have been first built of mud, but afterwards confiructed of more durable ma-

Roftoff.

Rois thire terials. It measured on feet in length within walls, was 25 feet fix inches broad, and its walls were 24 feet in height. This abbey continued to be employed as a place of worship till the month of October 1742, at which time the roof fell in during divine fervice, and 36 persons are faid to have lost their lives by this melancholy accident. The castle of Lochlin is supposed to be more than five centuries old. It is fituated on an eminence about fix miles to the eastward of Tain, and feems evidently to have been crefted as a place of fecurity against the sudden incursions of any invading enemy. Its form refembles that of a double square united at the angles, in which union there is a staircase leading to the top of it, which is about 60 feet in height. The fquares are not of equal and fimilar dimensions, the one towards the west measuring 20, and the other towards the east about 38 feet every way, fortified with three turrets of fuch dimensions, that any one of them can contain three or more men with eafe. The castle of Cadboll, of which few remains can now be traced, is supposed to be more ancient than that of Lochlin, deriving all its interest from a fingular tradition, viz. that no person ever died in it, though inhabited for ages ;a circumstance, however, which may be fatisfactorily accounted for without recurring to the marvellous. Many of the inhabitants becoming weary of life, requested to be removed; and a lady May in particular, whose residence it was about 100 years before the prefent period, and whose lingering diseases made her long for death, begged that she might be carried out of it, which was at last granted in consequence of her importunity; and we are told that after her removal she inflantly expired. The cave or fubterraneous dwelling in the district of Applecross, is considered by many, and with great probability, as the quondam magazine of plunder, rather than the habitation of men; and perhaps the fame may be faid of every other place of a fimilar nature to be met with in this county. The caftle of Donan in the peninfula of Kintail, which is now in ruins, was probably built in the reign of Alexander III. of Scotland, with a view to oppole the incursions of the Danes. It was demolithed by a thip of war in the year 1719, after the battle of Glensheil, a mile above which fome of the bullets fired against it are occasionally found, employed by the people as weights in felling butter and cheefe.

The chief clans in Ross shire are the Mackenzies, Roffes, Frazers, Mackays, Macraes, and the Munroes, all of whom speak Gaelic, and wear the Highland dress, efteeming the earl of Seaforth as their head, being the lineal descendant of Mackenzie Lord Seaforth, who county contains 30 parochial districts, fends one member to the British parliament, and by a census taken in 1801, in consequence of the population act, it was found to contain 52,291 inhabitants, being an increase of 9,798 fince the return to Dr Webster in 1755. The following table exhibits a view of the population of this county according to its parishes at two different periods.

	Parifhes.		Population in 1758.		pulation in
1	Almefs -	10	1000		-1121
	Applecrofs	41.1	835	1	3734
	Avoch -	3 14 11	1457		1318
1	Contin .	1 18	1949		2500

	}	10 4			
	Parifhes.		Population	Population in	E
	-		in 1755-	1790-1798.	
5	Dingwall -	-	1030	1379	_
	Eddertown -	-	780	1000	_
	Fearn	-	1898	1600	
	Gairloch 50 -		2050	2200	
	Glenshiel -	-	500	721	
CI	Killearnan -	-	945	1147	
	Kilmuir, Easter	-	1095	1975	
	Wester	-	1367	1805	
	Kiltearn -		1570	1616	
	Kincardine -	-	1743	1600	
15	Kintail -	-	698	840	
,	Kirkmichael		1371	1234	
	Lochalsh -	~	613	1334	
	Lochbroom -		2211	3500	
	Lochcarron -		771	1068	
20	Logie, Easter	-	850	1125	
	Nigg	-	1 261	1133	
	Rosekeen -		1958	1700	
	Rofemarkie -		1140	1262	
	Tain	-	1870	2100	
25	Urquhart -	-	2590	2901	
-	Urray	-	2456	1860	
	I/la	nd of L	ewis.		
	Barvas -		1995	2006	
	Lochs		1267	1768	
	Stornaway -	-	1812	2639	
30	Uig		1312	1898	
	0				
		Total,	42,493	50,146	
				42,493	

Increase, 7,653

ROSTOCK, a town of Germany, in the circle of Upper Saxony, and duchy of Mecklenburg, with an univerfity and a very good harbour. It is the best town in this country; and has good fortifications, with an arfenal. The duke has a strong castle, which may be looked upon as a citadel. It is divided into three parts, the Old, the New, and the Middle Towns, It was formerly one of the Hanfeatic towns, and is still Imperial, under the protection of the duke of Mecklenburg. It is feated on a lake where the river Varne falls into it, and carries large boats. The government is in the hands of 24 aldermen, elected out of the nobility, university, and principal merchants; four of whom are burgomasters, two chamberlains, two stewards for the river, and two judges of civil and criminal matters. These 24 are called the Upper House, and have in a manner the whole executive power lodged in them, with the power of coining money, and electing officers. There is also a common council of 100 inferior citizens, who are fummoned to give their advice upon extraordinary emergencies relating to the whole community. The principal things worth feeing are the fortifications, the prince's palace, the stadthouse, the arsenal, and the public library. The town is famous for good beer, which they export in great quantities. Some years ago they had no less than 250 privileged brewers, who, it is faid, brewed fo many thousand tuns a year, belides what particular persons brew for their own use. E. Long. 12.55 N. Lat. 54. 8.

ROSTOFF, or Rostow, a large town of the Ruffism empire, and capital of a territory of the fame name, with

Roftest an archbishop's see, seated on the lake Coteri, in E. Long.

40. 25. N. Lat. 57. 5. The duchy of Rostoff is bounded on the north by Jaroslow, on the east by Sutdal, on the fouth by the duchy of Moscow, and on the west by that of Tuere.

ROSTRA, in antiquity, a part of the Roman forum, wherein orations, pleadings, funeral harangues, &c. were delivered.

ROSTRUM, literally denotes the beak or bill of a bird; and hence it has been figuratively applied to the beak or head of a thip.

ROSYCHUCIANS. Sec ROSICRUCIANS.

ROT, a very fatal disease incident to sheep, arising from wet featons, and too moift pasture. It is very difficult of cure, and is attended with the fingular circum-Rance of a kind of animals being found in the blood-veffels. See Sheer, difeofes of, under FARRIERY.

ROTA, the name of an ecclefialtical court of Rome. compoled of 12 prelates, of whom one must be a German, another a Frenchman, and two Spaniards; the other eight are Italians, three of whom must be Romans, and the other five a Bolognese, a Ferraran, a Milanese, a Venetian, and a Tuscan.—This is one of the most august tribunals in Rome, which takes cognizance of all suits in the territory of the church, by appeal; as also of all matters, beneficiary and patrimonial.

ROTA ARISTOTELICA, or Arifotle's Wheel, denotes a celebrated problem in mechanics, concerning the motion or rotation of a wheel about its axis, fo called because Aristotle was the first who took notice of it.

The difficulty of it may be represented in the following manner. While a circle makes one revolution on its centre, advancing at the fame time in a right line along a plane, it describes on that plane, a right line which is equal to its circumference. Now, if this circle carry with it another smaller circle, concentric with it, like the nave of a coach wheel; then this fmaller circle or nave, will describe a line in the time of the revolution, which shall be equal to that of the large wheel or I'ne as fall as that of the wheel does, being in reality the

Aristotle attempted to solve this problem, but his foliation can only be regarded as a good account of the

It was vext attempted by Galileo, who had recourse to an infinite number of infinitely fmall vacuities in the right line described by the two circles, and imagined thale vacuities; but in reality only applies it to a line equal to its own circumference, though it appears to have applied it to a much larger. This, however, is nothing

According to Tacquet, the little circle making its rotation more flowly than the great one, does, on that account, describe a line longer than its own circumference; yet without applying any point of its circumference to more than one point of its base. This is no more satisfactory than the former.

After the fruitless endeavours of many great men, M. Dortous de Meyran, a French gentleman, had the good fortune to hit upon a folution which, after being fully examined by a committee of the Academy of Sciences, was declared to be fatisfactory. The following is his

The wheel of a coach is only afted on, or drawn in ; a right line; its rotation or circular motion crites purely from the relialance of the ground. Now this reliatance is equal to the force which draws the wheel in a right line, as it defeats that direction, and therefore the causes of the two motions are equal. The wheel therefore describes a right line on the ground equal to its cir-

On the contrary, the nave is drawn in a right line by the same force as the wheel, but it only turns round hecause the wheel does so, and can only turn in the same time with it. Hence, its circular velocity is less than that of the wheel, in the ratio of the two circumferences, and therefore its circular motion is less than the rectilinear one. Since it must describe a right line equal to that of the wheel, it can only do it by partly fliding and partly revolving, the fliding part being more or less as the nave itself is smaller or greater.

ROTACEÆ (from rota, "a wheel"), the name of the 20th order in Linnæus's Fragments of a Natural Method; confifting of plants with one flat, wheel-shaped petal, without a tube. See BOTANY.

ROTALA, a genus of plants belonging to the triandria class. See BOTANY Index.

ROTANG. See CALAMUS.

ROTATION, is a term which expresses the motion Definition of the different parts of a folid body round an axis, and and indiffined from the progressive motion which it may have nature of in its revolution round a diffant point. The earth has a the subject. rotation round its axis, which produces the viciflitudes of day and night; while its revolution round the fun, combined with the obliquity of the equator, produces

the varieties of fummer and winter. The mechanism of this kind of motion, or the relation which fubfifts between the intenfity of the moving forces, modified as it may be by the manner of application, and the velocity of rotation, is highly interesting, both to the speculative philosopher and to the practical engineer. The precession of the equinoxes, and many other astronomical problems of great importance and difficulty, receive their folutions from this quarter : and the actual performance of our most valuable machines cannot be ascertained by the mere principles of equilibrium, but require a previous acquaintance with certain general propositions of rotatory motion.

It is chiefly with the view of affifting the engineer that we propose to deliver in this place a few fundamental propositions; and we shall do it in as familiar and popuirr a manner as possible, althout. "Is may cause the application of them to the abilities abilities of allionomy to be greatly deficient in the ele, - ce of which they are fusceptible.

When a folid body tona round an axi , retaining its State of fhape and dimensions, every particle is a Quality deleri the partibing a circle round this axis, and the axis passes through the centre of the circle, and is perpendicular to its an axes. plane. Moreover, in any inflant of the motion, the or line joining it with its centre of rotation. "herefore, in order to afcertain the direction of the motion of any particle P (fig. 1.), we may draw a firaight line PC ceccuxu.

from the particle perpendicular to the axis AB of 10-Fig. 1.

tation.

H w the

dide ent

bodies in

pray be

Ratation, tation. This line will lie in the plane of the circle P m n of ret. . . e particle, and will be its radius vector; diam's from the particle reportdicu ar t is redus vector will be a tangent to the cirele of rota. . . and will have the direction of the motion

of this put le. The weet bout by f profed to turn together, it is evident, that when it is made a complete rotation. each particle has deferred a circumference of a circle, and the same as he of the different particles will be in the ratio of these circumferences, and therefore of their radii; and this is true of any portion of a whole turn, fuch as 1. 1, or 20 degrees, or any arch whaever; therefore the velocities of the different particles are proportional to their radii vectores, or to their diffances from the axis of relation.

And, ladly, all these motions are in parallel planes, to

which the axis of rotation is person cular.

When we come a the rotation of different bodies in respect of velocity, it is plain that it cannot be done by directly comparing the velocity of any particle in one of the bodies with that of any particle of the other; for, as all the particles of each have different velocities, this comparison can establish no ratio. But we familiarly compare such motions by the number of complete turns which they make in equal times, and we fay that the fecond hand of a clock turns 60 times faster than the minute hand; now this comparison is equally just in any part of a turn as in the whole. While the minute hand moves round one degree, the fecond-hand moves 60; therefore, as the length or number of feet in the line uniformly described by a body in its progressive motion is a proper measure of its progressive velocity, so the number of degrees described by any particle of a whirling body in the circumference of its circle of rotation, or the angle described by any radius vector of that body, is a proper measure of its velocity of rotation. And in this manner may the rotation of two bodies be compared; and the velocity is with propriety termed ANGULAR

An angle is directly as the length of the circumference on which it stands, and inversely as the radius of the circle, and may be expressed by the fraction of which the numerator is the arch, and the denominator the radius. Thus the angle PC p may be expressed by Pp PC This fraction expresses the portion of the radius which is equal to the arch which measures the angle; and it is converted into the usual denomination of degrees, by knowing that one degree, or the 360th part of the circumference, is  $\frac{1}{57.296}$  of the radius, or that

an arch of \$7.206 degrees is equal to the radius.

Effe fig. 800. When a folld body receives an intpulse on any one of the feve- point, or when that point is anyhow urged by a moving rai particles force, it cannot move without the other points also moconnected. ving. And whatever is the motion of any particle, that in one body particle must be conceived as urged by a force precisely on each competent to the production of that motion, by afting immediately on the particle itself. If this is not the particle immediately afted on by the external force, the force which really impels it is a force arifing from the cohefion of the body. The particle immediately impelled by the external force is preffed towards its neigh-

boaring particles, or is drawn away from them; and, Rotting. by this change of place, the connecting forces are braight into action, or are excited; they act on the particles adjoining, and charge, or tend to chan e. their d.flances from the particles immediately beyond them; and thus the for es which connect this next icries of particles are also excited, and another feries of particles are made to exert their forces; and this goes on through the body till we come to the remote perticle, whose motion we are considering. The forces which connect it with the a 'joining feries of particles are excited, and the particle is moved. We frequently fav that the external moving force is propagated through the body to the diffant particle; but this is not accurate. The particle is really and immediately moved by the forces which connect it with those adjoining. It will reatly affift our conception of the menner in which fider the particles as fo many little balls, connected with each other by flender spiral fixings like cork forews. This would compose a mass which would be compresfible, or which could be firetched, &cc. And if we give affemblage in motion round any axis which we may finpole to support it. Now any one of these balls is really and immediately moved by the elafticity of the foiral wires which join it to its neighbours.

We are but little acquainted with the nature of thefe The force. connecting forces. It can be learned only by the phe-by which nomena which are their effects. These are various, al-the partimost beyond description; but the mechanical philoso-cles of bopher has little to do with this variety. The diffinctions diesact on which are the immediate causes of fluidity, of hardwess acceptal, foftness, elasticity, ductility, are not of very difficult and the conception. There is one general fact which is fuffi-confequencient for our present purpose-the forces by which the ces. particles of bodies act on each other are equal. This is a matter of unexcepted experience; and no other foundation can be given to it as a law of mechanical na-

An immediate confequence of this law is, that when two external forces A and B are in equilibrium by the intervention of a folid body (or rath r when a folid body is in equilibrium between two external forces), there forces are equal and opposite; for the force A is in fact in immediate equilibrium with the opposite forces exerted by the particle to which it is applied, and is therefore equal and opposite to the force resulting from the combination of all the force which connect that particle with the feries of particles immediately adjoining. This refulting force may with propriety be called the equivalent of the forces from the combination of which it refults. The use of this term will greatly abbreviate language. This first fet of connecting forces confilts of a number of distinct forces corresponding to e. ch particle of the feries, and each force has an equal and opposite force corresponding to it: therefore the compound force by which the first feries of particles acts on that to which the external force A is applied, is nects this first feries with the next feries. And the fame thing mull be faid of each succeeding series of particles, till we come at last to the particle to which the external force B is immediately applied. The force exerted by this purlicle is equal and opposite to that ex-

Retation ternal force; and it is equal to the compound force exerted by the fecond feries of particles on that fide; therefore the forces A and B are equal and oppo-

Fig. 2.

It results from this proposition, that when any number of external forces are applied to a folid body, and it is in equilibrio between them, they are fuch as would be in equilibrio if they were all applied to one point. Let the forces a A, b B, c C (fig. 2.), be applied to three particles of the folid body. Therefore a A is immediately in equilibrium with an equal and opposite force A a, refulting from the composition of the force AD, which connects the particles A and B, and the force AE which connects A with C. In like manner b B is immediately in equilibrio with B &, the equivalent of the forces BF and BG; and c C is in immediate equilibrio with the equivalent C x of the forces CH and CI. We shall conceive it very clearly if we suppose the three forces A a, B b, C c, to be exerted by means of threads pulling at the folid body. The connecting parts between A and B, as also between A and C, are stretched. The lines AB and AC may be confidered as elaftic threads. Each thread is equally firetched through its whole length; and therefore if we take AD to represent the force with which the particle A is held back by the particle B, and if we would also represent the force with which B is held back by A, we must make BF equal to AD. Now (No 9.), the forces AD and BF are equal and opposite; so are the forces AE and CI; so are the forces CH and BG. Now it is evident, that if the fix forces AD, BF, BG, CH, CI, AE, were applied to one particle, the particle would be in equilibrio; for each force is accompanied by an equal and opposite force : and if the force A & were applied in place of AD, AE, the equilibrium would remain, because A a is equivalent to AD and AE. The same is true of B & and C x. Therefore if the three forces A a, B &, C x, were applied to one point, they would be in equilibrio. Confequently if the three forces a A, b B, c C, which are respectively equal and opposite to A a, B B, C z, are so applied, they will be in equilibrio. It is plain that this demonstration may be extended to any number of forces.

We may just remark by the bye, that if three forces are thus in equilibrio, they are acting in one plane; and, if they are not parallel, they are really directed to one point : for any one of them must be equal and oppofite to the equivalent of the other two; and this equivalent is the diagonal of a parallelogram, of which the other two are the fides, and the diagonal and fides of any parallelogram are in one plane; and fince they are in one plane, and any one of them is in equilibrio with the equivalent of the other two, it must pass through the same point with that equivalent, that is, through the point of

concourse of the other two.

These very simple propositions are the foundation of the whole theory of statics, and render it a very simple branch of mechanical fcience. It has been made abstrufe by our very attempts to simplify it. Many claborate treatifes have been written on the fundamental Rotation property of the lever, and in them all it has been thought next to an insuperable difficulty to demonstrate the equilibrium of a straight lever when the parallel forces are inverfely as their distances from the ful-

We think the demonstrations of Archimedes, Fonse-Mechaninex, D'Alembert, and Hamilton, extremely ingenious; cal science but they only bring the mind into fuch a flate of con-has been ception that it cannot refuse the truth of the proposi-rendered tion; and, except Mr Hamilton's, they labour under attempts at the disadvantage of being applicable only to commentanguiscaturable distances and forces. Mr Vince's, in the Phi-tion. losophical Transactions for 1794, is the most ingenious of them all; and it is wonderful that it has not occurred long ago. The difficulty in them all has arisen from the attempt to simplify the matter by considering a lever as an inflexible straight line. Had it been taken out of this abstract form, and considered as what it really is, a natural body, of some fize, having its particles connected by equal and opposite forces, all difficulty would have vanished.

That we may apply these propositions to explain the Mode of motion of rotation, we must recollect an unquestionable conceiving proposition in dynamics, that the force which produces the magniany motion is equal and opposite to the force which tude of any would prevent it, when applied in the same place and in force. the same line, or which would extinguish it in the same time in which we suppose it to be produced. Therefore the force which is excited and made to act on any particle of a body, by the action of an external force on another particle, so as to cause it to move round an axis, is equal and opposite to the force which, when applied to that particle in the opposite direction, would be in

equilibrio with the external force.

The only diffinct notion we can form of the magnitude of any moving force is the quantity of motion which it can produce by acting uniformly during fome given time. This will be had by knowing the velocity which it will produce in a body of known bulk. Thus we know that the weight of ten pounds of matter acting on it for a fecond will cause it to fall 16 feet with an uniformly accelerated motion, and will leave it in a flate fuch that it would move on for ever at the rate of 32 feet in a fecond; which we call communicating the velocity of 32 feet per fecond. In the fame manner, the best way of acquiring a distinct conception of the rotatory effort of a moving force, is to determine the quantity of rotatory motion which it can produce by acting uniformly during some known time.

Let a folid body turn round an axis passing through And of the the point C (fig. 2.) perpendicular to the plane of this quantity figure. Let this rotation be supposed to be produced and effort by an external force acting in the direction FP. Let motions. this force be fuch, that if the body were free, that is, Fig. 3. unconnected with any axis supported by fixed points, it would, by acting uniformly during a fmall moment of time, cause its centre of gravity G (A) to describe a line of a certain length parallel to FP. This we know

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<sup>(</sup>A) We take this term in its usual sense, as expressing that point where the sum of the equal gravitations of each particle may be supposed united. It is by no means (though commonly supposed) the point where the equivalent of the real gravitations of the particles may be supposed to act, and to produce the same motion as when acting

Rotation to be the effect of a moving force acting on any folid body in free space. The centre of gravity will always describe a straight line. Other particles may chance to move differently, if the body, belides its progressive motion, has also a motion of rotation, as is generally the cafe. Draw GI parallel to FP, and make GI to GC as the velocity which the external force would communicate to the centre of the body (if moving freely, unconnected with a supported axis), to the velocity which it communicates to it in the same time round the axis Cc. Also let m be the number of equal particles, or the quantity of matter in the body. Then m.Gl will express the quantity of motion produced by this force, and is a proper measure of it as a moving force; for GI is twice the space described during the given time with an uniformly accelerated motion.

But fince the body cannot move any way but round the axis passing through C, the centre G will begin to move with the velocity, and in the direction, GH perpendicular to the line CG (No 2.) And any particle A can only move in the direction AL, perpendicular to CA. Moreover, the velocities of the different particles are as their radii vectores; and CG is actually equal to the line GH, which expresses the velocity of a particle in G. Therefore CA will in like manter express the velocity of the particle A. If A express its quantity of matter, A.CA will express its quantity of motion, and will reprefent the force which would produce it by acting uniformly during the moment of time.

We expressed the external moving force by m.Gl. Part of it is employed in exciting the force A.C.A., which urges the particle A. In order to discover what part of the external force is necessary for this purpose, draw CP perpendicular to FP. The preceding observations show us, that the force wanted at A is equal to the force which, when applied at P in the direction FP, would balance the force A.CA applied to A in the direction LA. Therefore (by the property of the lever ACP, which is impelled at right angles at A and P) we must have CP to CA as the force A.C.A to the balancing preffure, which must be exerted at P, or at any point in the line FP. This preffure is therefore  $\frac{A \cdot CA \cdot CA}{CP}$  or  $\frac{A \cdot CA^2}{CP}$ . As we took m.GI for the mea-

fure of the whole external force, GI being the velocity which it would communicate to the whole body moving in free space, we may take G i for the velocity which would be communicated to the whole body by

the pressure A·CA4 and then this pressure will be VOL. XVIII. Part I.

properly expressed by m.G i. In like manner, m.i k may Rotation express the portion of the external force employed in communicating to another particle B the motion which it acquires; and fo on with respect to all the particles of the body.

It must be defirable to see the manner in which the forces are really concerned in giving motion to the dif-

terent particles.

Suppose the external force to act immediately on the external particle F. The line BC connecting this particle with the axis in C is either Aretched or compreffed by the effort of giving motion to a remote particle A. It is plain that, in the circumstances represented in the figure, the line FC is compressed, and the axis is pushed by it against its supports in the direction Ca; and the body must, on this account, reful in the opposite direction Ff. The particle A is dragged out of its position, and made to begin its motion in the direction AL perpendicular to AC. This cannot be, unless by the connexion of the two lines AC, AT. A refitts by its inertia, and therefure both AC and AF are firetched by diagging it into motion. By this refiffance the line AC tends to contract itself again, and it pulls C in the direction Co, and A in the direction A a; and if we take Co to represent the action on C, A a must be taken equal to it. In like manner AF is stretched and toads to contract, pulling F in the direction F o and A in the direction A & with equal forces. Thus the particle A is p led in the directions A a and A a; the particle F is pulled in the direction F q, and pushed in the direction Ff; and C is pulled in the direction C c, and pulled in the direction Cx. A a and A a have produced their equivalent AL, by which A is dragged into motion ; Ff and F o produce their equivalent Tg, by which the external force is ref. fied, and Fg is equal and opposite to m.G i; the forces Cc and Cx produce their equivalent Cd by which the axls is preffed on its supports, and this is refixed by an equal and opposite reastion of the supports in the diresion dC. The forces therefore which excite in the body the motion A.AL are both external, viz. the impelling force g F, and the supporting force dC. AL therefore is not only the immediate equivalent of A a and A s, but also the remote equivalent of g F and d C. We may therefore afcertain the proportion of g F (that is, of m.G i) to AL (that is, of A.AC), independent of the property of the lever. gF is to AL in the ratio compounded of the ratios of gF to F3 or A a, and of A a to AL. But we shall obtain it more easily by considering g F as the equivalent of AL and dC. By what has been demonstrated above, the directions

acting on each particle separately. It is this point only when all the particles gravitate alike, and in parallel directions. If the body were near the centre of the earth, for instance, the gravitations of the different particles would neither be nearly equal nor in parallel lines; and the place of its real centre of gravity, on which the equivalent of its whole gravitation may be supposed to act, would be very different from G. Were we to denominate the point G, as usually determined, by its mathematical properties, we would call it the CENTRE OF POSITION; because its distance from any plane, or its position with respect to any plane, is the average distance and position of all the par-The true defignation of G is " the point through which if any plane whatever be made to pass, and if perpendiculars to this plane be drawn from every particle, the fum of all the perpendiculars on one fide of this plane is equal to the fum of all the perpendiculars on the other fide."

If we were to denominate G by its mechanical properties, we would call it the CENTRE OF INFRITA; for this is equal in every particle, and in the fame orection : and it is not in consequence of gravity, but of inertia, that

the body describes with the point G a line parallel to FP. We wish this remark to be kept in mind.

Rotation directions of the three forces g F, AL, and d C must meet in one point E, and g F must be equal to the diagonal t E of the parallelogram Eett, of which the fides E e, E a are respectively equal to AL and dC. Now t E is to E e as the sine of the angle t e E to the fine of the angle Ete, that is, as the fine of CEA to the fine of CEP, that is, as CA to CP, as we have already demonstrated by the property of the lever. We preferred that demonstration as the shortest, and as abundantly familiar, and as congenial with the general mechanism of rotatory motions. And the intelligent reader will observe, that this other demonstration is nothing but the demonstration by the lever expanded into its own elements. Having once made our readers fensible of this internal process of the excitement and operation of the forces which connect the particles, we shall not again

It is evident that the fum of all the forces g F, or m.G i, must be equal to the whole moving force m.GI. that m.Pp may be =m.GI. That is, we must have  $m.GI = \int \frac{A.CA^2}{CP}$ ; or; because CP is given when the position of the line FP is given, we must have m.GI= A.C.A., where both A and CA are variable quanti-

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This equation gives us m.GI.CP=/A.CA1. Now we learn in mechanics that the energy of any force applied to a lever, or its power of producing a motion round the fulcrum, in opposition to any resistance whatever, is expressed by the product of the force by the perpendicular drawn from the fulcrum on the line of its direction. Therefore we may call m.GI.CP the momentum (B), energy, or rotatory effort, of the force m.GI. And in like manner \( \int A.CA^2 \) is the fum of the momenta of all the particles of the body in actual rotation; and as this rotation required the momentum m.GI.CP to produce it, this momentum balances, and therefore may express the energy of all the resistances made by the inertia of the particles to this motion of rotation. Or fA.CA' may express it. Or, take p to represent the quantity of matter in any particle, and r to represent its radius vector, or distance from the axis of rotation, /p.r2 will express the momentum of inertia, and the equilibrium between the momentum of the external force m.GI, acting in the direction FP, and the combined momenta of the inertia of all the particles of the whirling body, is exprefied by the equation m.GI.CP=/A.CA1,=/pr2. The usual way of studying elementary mechanics gives ns the habit of affociating the word equilibrium with a flate of reft; and this has made our knowledge fo

imperfect. But there is the fame equilibrium of the Rotation actual immediate preffures when motion entues from the action. When a weight A defcending raifes a fmaller weight B by means of a thread paffing over a pulley, the thread is equally stretched between the acting and resisting weights. The strain on this thread is undoubtedly the immediate moving force acting on B. and the immediate relifting force acting on A.

The fame equation gives us  $GI = \frac{\int \hat{\rho}_r r^2}{m.CP}$ . Now  $GI: CG = \frac{\int \hat{\rho}_r r^3}{m.CP}: CG, = \int \hat{\rho}_r r^3: m.CP,CG$ ;

but CG represents the velocity of the centre. Hence we derive this fundamental proposition fp.r2: m.CP.CG = GI : CG; or, that fp.r2 is to m.CP.CG as the velocity of the body moving freely to the velocity of the

centre of gravity round the axis of rotation.  $\mathbb{F}$  herefore the velocity of the centre is  $=\frac{m.\text{GI.CP.CG}}{\int \rho_{s} r^{2}}$ .

The velocity of any point B is  $=\frac{m.GI.CP.CB}{(p.r^2)}$ .

This fraction represents the length of the arch defcribed by the point B in the fame time that the body unconnected with any fixed points would have defcribed GI.

Therefore the angular velocity (the arch divided by the radius) common to the whole body is  $=\frac{m.GI.CP}{\int P r^2}$ .

It may be here asked, how this fraction can express an angle? It evidently expresses a number; for both the numerator and denominator are of the fame dimensions. namely, surfaces. It therefore expresses the portion of the radius which is equal to the arch measuring the angle, fuch as 1, 1, 5, &c. And to have this angle in degrees, we have only to recollect that the radius

is 57,2958.

This angular velocity will be a maximum when the axis of rotation passes through the centre of gravity G. axis of rotation paties through the centre of gravity G. For draw from any particle A the line A of perpendicular to CG, and join AG. Then  $CA^3 = GA^3 + CG^2 \pm 2 CG \times G$  a. Therefore  $fCA^3 = fGA^3 + fCG \pm f^2 + fCG \times G$  a. But, by the nature of the centre of gravity, the fum of all the +G a is equal to that of all the -G a; and therefore  $\pm f^2 + f^$ 

Therefore  $f \in A^a$  or  $f p r^a$  is smallest, and  $\frac{m \cdot GI \cdot CP}{f p r^a}$ 

is greatest when m. CG2 is nothing, or when CG is nothing; that is, when C and G coincide.

The absolute quantity of motion in the whirling body,

<sup>(</sup>B) The word momentum is very carelessly used by our mechanical writers. It is frequently employed to express the product of the quantity of matter and velocity, that is, the quantity of motion; and it is also used (with strict propriety of language) to express the power, energy, or efficacy of a force to produce motion in the circumstances in which it acts. We wish to confine it to this use alone. Sir Isaac Newton adhered rigidly to this employment of the term (indeed no man exceeds him in precision of expression), even when he used it to express the quantity of motion: for in these inflances the energy of this quantity of motion, as medified by the circumstances of its action, was always in the ratio of the quantity of motion.

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Rotation dy, or the fum of the motions of all its particles, is m. GI. CP. sp.r. For the motion of each particle is m.Gl.CP.pr

ance of

Ratio of the relift-The refistance which a given quantity of matter makes to a motion of rotation is proportional to for? For this must be measured by the forces which must be a quantity a quantity finitarly applied in order to give it the same angular to a spotton motion or angular velocity. Thus let one external of rotation force be m. GI, and the other m. 9n.—Let both be applied at the distance CP. Let r be the radius vector in the one body, and p in the other; now the angular

velocities  $\frac{m.GI.CP}{\int \rho r^a}$  and  $\frac{m.\gamma s.CP}{\int \rho \rho^a}$  are equal by supposition. Therefore m.GI:  $m.\gamma s = \int \rho r^a : \int \rho \rho^a$ .

As in the communication of motion to bodies in free space a given force always produces the same quantity of motion; fo in the communication of motion to bodies obliged to turn round axes, a given force, applied at a given distance from the axes, always produces the same quantity of momentum. Whence it may easily be deduced (and we shall do it afterwards), that as in the communication of motion among free bodies the same quantity of motion is preferved, so in the communication of motion among whirling bodies the fame quantity of whirling motion is preferved.

This is a proposition of the utmost importance in practical mechanics, and may indeed be confidered as the fundamental propolition with respect to all machines of the rotatory kind when performing work; that is, of all machines which derive their efficacy from levers or wheels. There is a valuable fet of experiments by Mr Smeaton in the Philosophical Transactions, Volumo lxvi. which fully confirm it. We shall give an example by and bye of the utility of the proposition, showing how exceedingly imperfect the usual theories of

mechanics are which do not proceed on this principle. With respect to the general proposition from which all these deductions have been made, we must observe, that the demonstration is not restricted to the time necoffary for caufing each particle to describe an arch equal to the radius vector. We assumed the radius vector as the measure of the velocity merely to simplify the notation. Both the progressive motion of the fice body and the rotation of the whirling body are uniformly accelerated, when we suppose the external force to act uniformly during any time whatever; and the spaces described by each motion in the fame time are in a constant ratio. The formulæ may therefore with equal propriety represent the momentary accelerations in the different

It must also be observed, that it is not necessary to fuppose that all the particles of the body are in one plane, and that the moving force acts in a line FP lving also in this plane. This was tacitly allowed, merely to make the present investigation (which is addressed sone plane. chiefly to the practical mechanic) more familiar and The equilibrium between the force A X CA, which is immediately urging the particle A, and the force m. Gi employed at P or F, in order to excite that force at A, would have been precifely the fame although the lines AC and FP had been in different planes, pro-

vided only that these planes were parallel. This is Rotation known to every person in the least acquainted with the wheel and axle. But if the external moving force does not act in a plane parallel to the circles of rotation of the different particles, it must be resolved into two forces, one of which is perpendicular to these planes, or parallel to the axis of rotation, and the other lying in a plane of rotation. And it is this last only that we confider as the moving force; the other tends merely to push the body in the direction of its axis, but has no tendency to turn it round that axis. When we come to confider the rotation of a body perfectly free, it will be necessary to attend particularly to this circumstance. But there are several important mechanical propositions which do not require this.

The motion of any body is estimated by that of its The motion centre of gravity, as is well known. The difference of a body between the motion of the centre of a free body and caimated between the motion of the centre of a free pour and simulation the motion of the centre of a body turning round an by that of the motion of the centre of axis, is evidently owing to the connexion which the gravity, parts of the body have with this axis, and to the ac-scc. tion of the points of support on this axis. This action must be considered as another external force, combined with that which acts on the particle P, and therefore must be such as, if combined with it, would produce the very motion which we observe. That is, if we suppose the body unconnected with any fixed points, but as having its axis acted on by the fame forces which these points exert, the body would turn as we observe it to do, the axis remaining at reft.

Therefore join I and H, and complete the parallelogram GIHK. It is plain that m. GK must represent the forces exerted by the axis on the fixed points.

If therefore GI should coincide with GH, and the point I with the point H, the force GK vanishes, and the body begins to turn round C, without exerting any pressure on the points of support; and the initial motion is the same as if the body were free. Or, the axis at C is then a foontaneous axis of convertion.

That this may be the case, it is necessary, in the first place, that the external force act in a direction perpendicular to CG; for GI is always parallel to FP: it being a leading proposition in dynamics, that when a moving force acts on any part whatever of a folid body, unconnected with fixed points, the centre of gravity will proceed in a flraight line parallel to the direction of that force. In the next place GH

must be equal to GI; that is, 
$$(n^0 21) \frac{m.\text{GI.CP.CG}}{\int \rho r^3}$$
 is equal to GI, or  $\frac{m.\text{CP.CG}}{\int \rho r^3} = 1$ , and  $\text{CP} = \frac{\int \rho r^3}{m.\text{CG}}$ .

The equation  $CP = \frac{\int \rho r^2}{m \cdot CG}$  gives us  $m \cdot CG \cdot CP$ =  $\int \rho r^3$ , =  $\int \Lambda \cdot CA^3$ . But it was shown (n° 23), that  $\int \Lambda \cdot CA^3 = \int \Lambda \cdot GA^3 + m \cdot CG^3$ . Therefore  $\int \Lambda \cdot GA^3 = m \cdot CG \cdot CP - m \cdot CG \cdot CG = m \cdot CG$ (CP-CG), = m. CG. GP. Therefore we have (for another determination of the point of impulse P fo as to annihilate all pressure on the axis) GP = JA, GA3 This is generally the most easily obtain-

ed, the or thematical fituation of the centre of gravity being well known,

Pp2

N.B.

All the par-

Rotation.

N. B. When  $CP = \frac{\int \rho P}{m \cdot CG}$ , we shall always have the

velocity of the centre the fame as if the body were free, but there will always be a preffure on the points of fupport, unless FP be also perpendicular to CG. In other positions of FP the preflure on the axis, or on its points

Advantage

of Support, will be m. GI x 2 in. GCP. It would be a defirable thing in our machines which of annihila-derive their efficacy from a rotatory motion, to apply the preffures arising from the power and from the refiftthe prefure ance opposed by the work in such a manner as to annion the fun- hilate or diminish this pressure on the supports of the ports of the axis of motion. Attention to this theorem will point axis of mo- out what may be done; and it is at all times proper, nay necessary, to know what are the pressures in the points of Japport. If we are ignorant of this, we shall run the rifk of our machine failing in those parts; and our anxiety to prevent this will make us load it with needless and ill-disposed strength. In the ordinary theories of machines, deduced entirely from the principles of equilibrium, the pressure on the points of support (exclusive of what proceeds from the reight of the machine itself) is stated as the same as if the moving and in their own directions. But this is in all cases erroueous; and, in cases of swift motions, it is greatly so. We may be convinced of this by a very fimple instance. Suppose a line laid over a pulley, and a pound weight at one end of it, and ten pounds at the other; the preffare of the axis on its support is eleven pounds, according to the usual rule; whereas we shall find it only 311. For, if we call the radius of the pulley I, the momentum of the moving force is 10 x 1-1 x 1, = 9; and the momentum of inertia is 10 × 1 + 1 × 1.

(n° 18.) = 11. Therefore the angular velocity is ?... But the distance CG of the centre of gravity from the axis of motion is also or, because we may suppose the two weights in contact with the circumference of the pulley. Therefore the velocity of the centre of gravity is  $r_1 \times r_2 = r_3 r_4$  of its natural velocity. It is therefore dim nished 40 by the figure of the axis of the pulley, and the 11 pounds press it with 40 of their weight, that is, with 3x'r pounds.

Ofknowing Since all our machines confift of inert matter, which the momen requires force to put it in motion, or to stop it, or to sum of inchange its motion, it is plain that some of our natural power is expended in producing this effect; and fince the principles of equilibrium only state the proportion between the power and refistance which will preferve the machine at reft, our knowledge of the actual performance of a machine is imperfect, unless we know bow much of our power is thus employed. It is only the remainder which can be flated in opposition to the resistance opposed by the work. This renders it proper to give fome general propositions, which enable us

to compute this with eafe.

fary to

and confe-It would be very convenient, for instance, to know quently te some point in which we might suppose the whole rotaforce neces tory part of the machine concentrated; because then we could at once tell what the momentum of its inertia is, evercome and what force we must apply to the impelled point of the machine, in order to move it with the defired velo-

Let S, fig. 3. be this point of a body turning round

the supported axis passing through C; that is, let She Rotation. fuch a point, that if all the matter of the body were collected there, a force applied at P-will produce the fame angular velocity as it would if applied at the fame point of the body having its natural form.

The whole matter being collected at S, the expression The whole matter of the singular velocity becomes  $\frac{m \cdot GI \cdot CP}{m \cdot e \cdot S^2}$  (N° 22.); and these are equal by supposition. There-

fore  $\int p r^3 = m \cdot CS^3$ , and  $CS = \sqrt{\frac{\int p r^3}{m}}$ This point S has been called the CENTRE of GYRA-

In a line or flender rod, fuch as a working beam, or

the spoke of a wheel in a machine, CS is a/+ of its

In a circle or cylinder, fuch as the folid drum of a capstane, CS = 1/1 its radius, or nearly 70. But if it turns round one of its diameters, CS= 1 radius.

In the periphery of a circle, or rim of a wheel, CS

= radius nearly.

If it turn round a diameter, CS = \( \frac{1}{2} \) radius. The furface of a fphere, or a thin fpherical shell, turning round a diameter, has CS = 1 radius, or nearly 4

A folid fphere turning round a diameter has CS.  $=\sqrt{\frac{2}{3}}$  radius, or nearly  $\frac{2}{3}$ . This is useful in the problem of the precession of the equinoxes. We may obferve by the way, that if we confider the whirling body as a fystem of several bodies with rigid or inflexible connections, we may confider all the matter of each of these bodies as united in its centre of gyration, and the rotation of the whole will be the fame; for this does not change the value of fpr3

There is another way of making this correction of a fimpler the motion of a machine, or allowing for the inertia of mode of althe machine itself, which is rather simpler than the one lowing for now given. We can suppose a quantity of matter col- of malected at the point to which the moving force is applied, chines, fuch that its inertia will oppose the same resistance to rotation that the machine does in its natural form. Suppose the moving force applied at P, as before, and that instead of the natural form of the body a quantity of matter =  $\frac{\int p^{r^2}}{CP}$ , collected at P; the moving force

will produce the same angular velocity as on the body, in its natural form. For the angular velocity in this

in its natural form. For the angular velocity in this 
$$m$$
. GI. CP  $m$ . GI. CP  $\frac{m}{CP^2}$ , CP $_a$  (N° 22.), which is  $\frac{m.GI.CP}{\int \rho r^2}$ ,

the fame as before

A point O may be found, at fuch a distance from the Centre of axis, that if all the matter of the body were collected of illation there, and an external force m. GI applied to it in a direction perpendicular or any how inclined to CO, it will produce the same angular velocity as when applied to the centre of gravity G, with the fame inclination to the line CG.

In this case, the angular velocity must be m. GI.CO

tation. (No 22.), which is  $\equiv \frac{GI}{CO}$ . This must be equal (by supposition) to the angular velocity where the same force m. GI is applied in the same inclination to G .-

The angular velocity in the same inclination to G.

Therefore we have  $\frac{GI}{CO} = \frac{m \cdot GI \cdot CG}{\int \rho r^a}$ , and  $\frac{m \cdot GI \cdot CG}{GI} = \frac{f \rho r^a}{m \cdot GI \cdot CG}$ , and  $\frac{f \rho r^a}{GI \cdot CG}$ , and  $\frac{f \rho r^a}{GI \cdot CG} = \frac{f \rho r^a}{m \cdot GI \cdot CG}$ . Also, as in N° 31.  $\frac{GO}{GO} = \frac{f A \cdot GA^a}{m \cdot GO}$ .

Remark-

This point O has feveral remarkable properties.

In the first place, it is the point of a common heavy able proper- body swinging round C by its gravity, where, if all its weight be supposed to be concentrated, it will perform its ofcillations in the fame time. For while the body has its natural form, the whole force of gravity may be supposed to be exerted on its centre of gravity. When the matter of the body is collected at O, the force of gravity is concentrated there also; and if CG have the same inclination to the horizon in the first case that CO has in the second, the action of gravity will be applied in the fame angle of inclination, and the two bodies will acquire the fame angular velocity; that is, they will descend from this situation to the vertical situation (that is, through an equal angle) in the fame time. These two bodies will therefore oscillate in equal times. For this reason, the point O so taken in the line CG, which is the radius vector of the centre of inertia, that CO is equal to  $\frac{\int A \cdot CA^*}{m \cdot CC}$ , or  $GO = \frac{\int A \cdot GA^*}{m \cdot CG}$ ,

is called the CENTRE of OSCILLATION of the body; and a heavy point suspended by a thread of the length CO is called its equivalent or functionous pendulum, or the fimple pendulum, corresponding to the body ittelf, which is confidered as a compound pendulum, or as confilling of a number of fimple pendulums, which by their rigid connection diffurb each other's motions.

That CO may be the equivalent pendulum, and O

the centre of oscillation, O must be in the line CG, otherwife it would not relt in the fame polition with the body, when no force was keeping it out of its vertical position. The equation  $CO = \frac{\int A \cdot CA^2}{m \cdot CG}$  only deter-

mines the distance of the centre of oscillation from the centre of fuspension, or the length of the equivalent simple pendulum, but does not determine the precise point of the body occupied by the centre of ofcillation; a cir-

cumftance also necessary in some cases.

Mathematicians have determined the fituation of this point in many cases of frequent occurrence. Huyghens, in his Horologium Ofcillatorium, and all the best writers of treatifes of mechanics, have given the method of investigation at length. The general process is, to multioly every particle by the fquare of its distance from the axis of supersion, and to divide the sum of all these products by the product of the whole quantity of matter multiplied by the distance of its centre of gravity from the same axis. The quotient is the distance of the centre of oscillation, or the length of the equivalent Simple pendulum : for CO = m.CG.

a. If the body is a heavy straight line, suspended by Rotation one extremity, CO is 2 of its length.

b. This is nearly the case of a stender rod of a cylindrical or prismatic shape. It would be exactly so if all the points of a transverse section were equally distant from the axis of suspension.

c. If the pendulum is an ifofceles triangle fulpended by its apex, and vibrating perpendicularly to its own

plane, CO is 4 of its height.

d. I his is nearly true of a very flender triangle (that is, whose height many times exceeds its base) fwinging round its vertex in any direction.

e. In a very flender cone or pyramid fwinging from

its vertex, CO is \$ of its height nearly.

f. If a fphere, of which r is the radius, he suspended by a thread whose weight may be neglected, and whose. length is /, the distance between its centre of suspen-

fron and centres of oscillation is  $a+r+\frac{1}{4}-\frac{r^3}{a+r}$ ; and the distance between its centres of bulk and oscillation

Thus, in a common fecond's pendulum, whose length at London is about 30% inches, the centre of oscillation will be found about 1 of an inch below the centre of the ball, if it be two inches in dia-

g. If the weight of the thread is to be taken into the account, we have the following diffance between the centre of the ball and that of ofcillation, where B is the weight of the ball, a the distance of the point of suspension and its centre, d the diameter of the of largenion and is centre,  $\delta$  the diameter or une ball, and w the weight of the thread of rod,  $GO = (\frac{1}{2}w + \frac{1}{2}B) \, \delta^{*} - \frac{1}{2}w \, (\alpha \, \delta^{*} + \alpha^{*})$ ; or, if we confider the weight of the thread as an unit, and the weight of the ball as its multiple (or as expressed by the

number of times it contains the weight of the thread).

 $GO = \frac{\frac{7}{6}a}{B + \frac{1}{2}}$ 

As the point O, determined as above, by making  $CO = \frac{\int \hat{p} r^2}{m_i CG}$ , is the centre of ofcillation of the body turning round C, fo C is the centre of oscillation of the fame body turning round O: for, refuming A.CA in place of pr, we have fA.CA =m.CO.CG. Now fA.CA'=/,A.OA'+/A.OC'-/A.OC. 2 O d, (Euclid, II. 12. 13.), or mCOCG=fAOA\*+fA.OC\*—fA.OC. 20 d. But fA.OC\*=m.OC\*, =m.OC.OC; and (by the nature of the critice of gravity) f A.OC. 20 a = m. OC. 2 OG. Therefore we have m.  $CO.CG = \int A.O.A^2 + m. OC.O.C - m.O.C. 2 OG;$ and  $\int A.OA^2 = m.OC.CG + m.CO. 2 OG - m.CO.CO$ , =m.CO (CG + 2 OG - CO). But CG + 2 OG is equal to CO + OG, and CG + 2 OG - CO is equal to OG. Therefore [A.OA2=m.CO.OG, and  $CO = \frac{\int A.O.A^3}{m.O.G}$ , which is all that is wanted (according

to No 39.) to make C the centre of oscillation when O is the centre of sulpension.

If the point of fulpenfion, or axis of rotation, be anywhere in the circumference of a circle of which G is the centre, the point O will be in the circumference of another circle of which G is the centre : for, by No 38.

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Mode of determining its fitus-

C4= (15)

Rotation  $GO = \frac{SA_iGA^i}{m_iCG}$ . Now  $fA_iGA^i$  is a fixed quantity; and therefore while GG is conflant, GG will also be

constant. We may also observe, that the distance of the axis from the centre S of gyration is a mean proportional between its distance from the centre G of gravity, and the centre O of oscillation: for we had  $(N^0)$ . CS\*  $= \frac{f p}{m}$ , and CO  $= \frac{f p - r^*}{m \cdot CG}$ , and therefore CO.CG  $= \frac{f p}{m} = CS^*$  and CO: CS=CS: CG.

We fee also that the distance CO is that at which an external force must be applied; so that there may not be any preflure excited in the axis upon its points of support, and the axis may be a spontaneous axis of conversion. This we learn, by comparing the value of CO with that of CP in art. 30. This being the case, it follows, that if an external store is applied in a direction passing through O, perpendicularly to CO, it will produce the same initial velocity of the centre as if the body were free: for as it exerts its pressure on the points of support, the initial motion must be the same as it these were not there.

If the external force be applied at a greater diffance in the line CG, the velocity of the centre will be greater than if the body were free. In this case the prefsure excited in the axis will be backward, and confequently the points of support will re-act forward, and this re-action will be equivalent to another external force conspiring with the one applied at O. Some cu-

rious confequences may be deduced from this.

If the external force be applied to a point in the line GC lying beyond C, the motion of the centre will

line GC lying beyond C, the motion of the centre will be in the opposite direction to what it would have taken had the body been free, and so will be the prefsures exerted by the points of support on the axis.

A force m.GI applied at P produces the initial progressive motion m.GH; and any force applied at O, perpendicularly to CG, produces the same motion of the centre as if the body were free. Therefore a force m.GH applied thus at O will produce a motion m.GH in the centre, and therefore the fame motion which m.GI applied at P would produce; and it will produce the momentum m.GI at P. Therefore if a force equal to the progressive motion of the body be applied at O, perpendicularly to CO, in the opposite direction, it will ftop all this motion without exciting any ftrain on the axis or points of support. Therefore the equivalent of all the motions of each particle round C is conceived as passing through () in a direction perpendicular to CO; and the blow given by that point to any body opposed to its motion is considered as equal to the compounded effect of the rotatory motion, or to the progressive motion of the body combined with its

For fuch reasons O has been called the CENTRE OF PERCUSSION of the body tuning round C. But the name of centre of momentum, or rotatory effort, would have been more proper.

We can feel this property of the point O when we give a fmart blow with a flick. If we give it a motion round the joint of the wrift only, and firike fmartly

with a point confiderably nearer or more remote than twothinds of its length, we feel a painful shock or wrench in the hand; but if we fitthe with that point which is precisely at two-thirds of its length, we feel no such difagreeable frain.

as the centre of percussion, is that with which the most violent blow is fruck. But this is by no means true; O is that point of a body turning round C which gives a blow precifely equal to the progressive motion of the body, and in the fame direction. As we have already faid, it is the point where we may suppose the whole rotatory momentum of the body accumulated. Every particle of the body is moving in a particular direction, with a velocity proportional to its diffance from the axis of rotation; and if the body were stopped in any point, each particle tending to continue its motion endeavours to drag the rest along with it. Whatever point we call the centre of percussion should have this property, that when it is stopped by a sufficient force, the whole motion and tendency to motion of every kind should be stopped; fo that if at that instant the supports of the axis were annihilated, the body would remain in absolute rest.

The confideration of a very fimple case will show Centre of that this point of stoppage cannot be taken indifferently, percussion, Suppose a square or rectangular board CDD'C', fig. 4, how deadvancing in the direction GH, perpendicular to its fined, plane, without any rotation. Let G be the centre of Fig. 4. gravity, and the middle of the board. It is evident, that if a force be applied at G, in the direction HG and equal to the quantity of motion of the board, all motion will be stopped; for when the point G is stopped, no reason can be assigned why one part of the board shall advance more than another. The same thing must happen if the board be stopped by a straight edge put in its way, and paffing through G: for example, in the line LGM, or gGh. But if this edge be fo placed that the board shall meet it with the line IPK, then, because this line does not divide it equally, and because there is a greater quantity of motion in the part CIKC' than in the part IDD'K, though the progressive motion may be stopped, the upper part will advance, and a motion of rotation will commence, of which IK will be the axis. Now suppose that the board, instead of having been moving along in the direction GH, every part with the same velocity had been fwinging round the axis CC' like a pendulum, from the position C dd C', and that it is stopped by a straight edge meeting it in the line LGM parallel to CO', in the moment that it has attained the vertical position CDD'C'; all its motion will not be flopped: for, although LGM divides the board equally, there is more motion in the lower part LDD'M than in the upper part CLMC', because every particle of the lower part is describing larger circles and moving swifter. Therefore when the line LGM is stopped, there will be a tendency of the lower part to advance, and the pivots C and C of the axis will be prefied backwards on their holes; and if the holes were at that inftant removed, a rotation would commence, of which LM is the axis. The board must therefore be stopped in some line IPK below LGM, and fo fitnated, that the fum of all the momenta on each fide of it shall be equal. This alone

Why this point is fometimes ealled the centre of percussion.

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Fig. 5.

Rotation can hinder a rotation round the axis IPK. From what has been already demonstrated, it appears, that this will be prevented if the edge meets the board in a line IPK passing through O the centre of oscillation, which is situated in the line g G h passing through the centre of gravity perpendicular to the axis CC'. This line IOK may therefore be called the line or axis of per-

> But any point of this line will not do. It is evident that if the board should meet the fixed edge in the line g GO & all motion will be stopped, for the motions on each fide are equal, and neither can prevail. But if it be stopped in the line p P q, there is more motion in the part pa D'C' than in the part pa DC; and if the fupports at C and C' were that instant taken away, there would commence a rotation round the axis pq. Confequently, if the body were not stopped by an edge, but by a fimple point at P, this rotation would take place. The motions above and below P would indeed balance each other, but the motions on the right and left fides of it would not. Therefore it is not enough for determining the centre of percussion that we have ascertained its distance g O from the axis of rotation by

the equation  $g O = \frac{\int \rho r^4}{m_s g G}$ . This equation only gives us the line IOK parallel to CC', but not the point of percussion. This point (suppose it P) must be such that if any line p P q be drawn through it, and confidered as an axis round which a rotation may commence, it fball not commence, because the sum of all the momenta round this axis on the right fide is equal to the fum of the momenta on the left. Let us investigate in

what manner this condition may be fecured.

Let there be a body in a state of rotation round the axis Dd (fig. 5.), and let G be its centre of gravity, and CGO a line through the centre of gravity perpendicular to the axis DC d. At the moment under confideration, the centre of gravity is moving in the direction GH, perpendicular to the radius vector GC, as also perpendicular to a plane passing through the lines D d and CG. Let O be the centre of oscillation. Draw the line n O parallel to D d. The centre of percuffion must be somewhere in this line. For the point of percussion, wherever it is, must be moving in the same direction with the progressive motion of the body, that is, in a direction parallel to GH, that is, perpendicular to the plane DCG. And its distance from the axis Dd must be the same with that of the centre of oscillation. These conditions require it therefore to be in fome point of nO. Suppose it at P. Draw Pp perpendicular to Dd. P must be fo situated, that all the momenta tending to produce a rotation round the line p P may balance each other, or their fum total be nothing.

Now let A he any particle of the body which is out of the plane DCG, in which lie all the lines CGO, pP, nOP, &c. Draw its radius vector Aa perpendicular to Da, and draw an parallel to CG, and therefore perpendicular to Da. The plane Aan is perpendicular to the plane Dan (Euclid, XI. 4.). Draw AL perpendicular to A a, and A/ perpendicular to an. Then, while the body is beginning to turn round Dd, the incipient motion of the par icle A is in the direction AL, perpendicular to its radius vector A a.

This motion AL may be confidered as compounded of Rotation. the motion A /, perpendicular to the plane DCG, and' the motion / L in this plane. It is evident that it is A / only which is opposed by the external force stopping the body at P, because A / alone makes any part of the progressive motion of the centre of gravity in the direction GH.

We have hitherto taken the radii vectores for the measures of the velocities or motions of the particles. Therefore the quantity of motion or the moving force of A is A.Aa, and this is exerted in the direction AL, and may be conceived as exerted on any point in this line, and therefore on the point L. That is, the point L might be confidered as urged in this direction with the force A.A a, or with the two forces of which the force A.A a is compounded. The force in the direction AL is to the force in the direction A / as AL to A /, or as a A to a /, because the triangles A / L and a / A are fimilar. Therefore, instead of supposing the point L urged by the force A.A a, acting in the direction AL, we may suppose it impelled by the force A.a 1, afting perpendicularly to the line A 1, or to the plane DCG, and by the force A.A / acting in this plane, viz. in the direction Ln. This last force has nothing to do with the percussion at P. Therefore we need confider the point L as only impelled by the force A.A /. The momentum of this force, or its power to urge the plane DCG forward in the direction GH, by turning it round Dd, must be A.al. a L. (N. B. This is equal to A.A a, because a /: a A = a A: a L, and A.A a1, has been shown long ago to be the general expression of the rotatory momentum of a par-

Draw L m perpendicular to Pp. If we confider Pp as an axis about which a motion of rotation may be produced, it is plain that the momentum of the point L to produce such a rotation will be A.al. Lm. In like manner, its momentum for producing a rotation round nP would be A.al. Ln. In general, its momentum for producing rotation round any axis is equal to the product of the perpendicular force at L (that is, . A.a/) and the distance of L from this axis.

In order therefore that P may be the centre of percustion, the sum of all the forces A.a l.L m must be equal to nothing; that is, the sum of the forces A.a.l.L.m on one side of this axis Pp must be balanced by the fum of forces A'.a'l'.L'm' on the other fide. To express this in the usual manner, we must have  $\int A.a/n P = 0$ . But n P = n O = OP. Therefore  $\int A.a/n O = \int A.a/n O = 0$ , and  $\int A.a/n O = 0$ (A.a l.OP. But OP is the same wherever the particle A is fituated; and because G is the centre of gravity, the fum of all the quantities is A.al is m. GC, m beray, the turn of all the quantities is A.a/1s m. GC, m being the quantity of matter of the body; that is, fA..a/=m. GC, and fA..a/. OP = m. GC. OP, = fA..a/. n. O. Hence we derive the final equation OP  $= \frac{fA..a/.$  nO.  $= \frac{fA..a/.}{m.}$  GC.

Therefore the centre of percussion P of a body turning round the axis D d is determined by these condiaxis and the centre of gravity; 2d, It is in a line "O passing through the centre of oscillation, and parallel to the axis, and therefore its diffance Pp from the axis of

centre of of illation is fA.a l.n O

centres coincide.

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portance.

In order therefore that the centres of oscillation and percuffion may coincide, or be one and the fame, OP must vanish, or SA.a l.n Q must be equal to nothing, that is, the fam of all the quantities A.a l.n O on one fide of the line CO must be equal to the fum of all the

quantities A'.a' l'.n' O on the other fide.

Let Dada be a plane passing through the axis Dd perpendicular to that other plane DCG through it, in which the centre of gravity is fituated, and let Cgyz be a third plane paffing through the centre of gravity perpendicular to both the planes Dd & and DCG. Draw /r and a m perpendicular to a L, and ra perpenticular to er, and then draw A a, A & perpendicular to a a and ra. It is evident that A a and A a are respectively equal to a l and lr, or to a l and no; so that the two factors or constituents of the momentum of a particle A round the centre of percussion are the diflances of the particle from the planes Ddd and z cg y, both of which are perpendicular to that plane through the axis in which the centre of gravity is placed.

We may see, from these observations, that the centres of oscillation and percussion do not necessarily coincide, and the circumstance which is necessary for their coincidence, viz. that / A.A & A & is equal to O. It is of

importance to keep this in mind.

There occurs here another observation of great importance. Since every force is balanced by an equal gions of 1mforce acting in the opposite direction, and fince all motion progressive and rotatory is stopped by an external force applied at P in the direction q P, it follows that, if the body were at reft, and the same force be applied there, it will fet the body in rotation round the axis Dd. in the opposite direction, with the same angular velocity, and without any preffure on the pivots D and For whatever motion of the particle A, in the direction AL, was stopped by a part of the external force applied at P, the same motion will be produced by it in the quiescent particle A in the opposite direction LA. And as the pivots D and d had no motion in the case of the body turning round them, they will acquire no motion, or will have no tendency to motion, or no preffure will be exerted on them, in the last case. Therefore when an external force is applied at P in a direction perpendicular to the line Pp, the line Dd will become a momentary fpontaneous axis of converfion, and the incipient motion of the body will perfectly refemble the rotation of the fame body round a fixed axis Dd.

There is another fet of forces of which we have as yet taken no notice, viz. that part of each force AL which is directed along the plane DCG, and is represented by /L when the whole force is represented by AL, or by A / when the whole force is represented by A a. These forces being all in the plane DCG, and in the direction CG or GC, can have no effect on the rotation round any axis in that plane. But they tend, forwarely, to produce rotation round any axis passing through this plane perpendicularly. And the perpendicular to this plane, in O for instance, must evi- Rotation. dently be A.A.nO, and round P it must be A.A.n.P. &c. We shall have occasion to consider these afterwards.

It is usual in courses of experimental philosophy to Of battle illustrate the motions of bodies on inclined planes and and cylin-curved furfaces by experiments with balls rolling down down inthese surfaces. But the motions of such rolling balls clined are by no means just representations of the motions planes they represent. The ball not only goes down the inclined plane by the action of gravity, but it also turns round an axis. Force is necessary for producing this rotation; and as there is no other fource but the weight of the ball, part of this weight is expended on the rotation, and the remainder only accelerates it down the plane. The point of the ball which refts on the plane is hindered from sliding down by friction; and therefore the ball tumbles, as it were, over this point of contact, and is instantly catched by another point of contact, over which it tumbles in the same manner. A cylinder rolls down in the very fame way; and its motion is nearly the same as if a fine thread had been lapped round it, and one end of it made fast at the head of the inclined plane. The cylinder rolls down by unwinding this thread.

The mechanism of all such motions (and some of Mechanism them are important) may be understood by confidering of thefe them as follows: Let a body of any shape be connect- motions. ed with a cylinder FCB (fig. 6.) whole axis passes Fig. 6. through G the centre of gravity of the body. Suppose that body suspended from a fixed point A by a thread wound round the cylinder. This body will defeend by the action of gravity, and it will also turn round, unwinding the thread. Draw the horizontal line OGC. It will pass through the point of contact C of the thread and cylinder, and C is the point round which it begins to turn in descending. Let Q be its centre of oscillation corresponding to the momentary centre of rotation C. It will begin to descend in the fame manner as if all its matter were collected in O: for it may be confidered, in this inflant, as a pendulum fuspended at C. But in this case O will descend in the fame manner as if the body were falling freely. Therefore the velocity of G (that is, the velocity of defcent) will be to the velocity with which a heavy body would fall as CG to CO. Now fince the points C, G, O, are always in a horizontal line, and the radius CG is given; as also CO (No 48.) the velocity of a body falling freely, and of the body unwinding from this thread, will always be in the fame proportion of CO to CG and fo will the spaces described in any given time. And thus we can compare their motions in every case when we know the place of the centre of oscillation.

Cor. 1. The weight of the descending body will be to the tension of the thread as CO to GO: for the tension of the thread is the difference between the momentum of the rolling body and that of the body falling

Observe, that this proportion between the weight of the body and the tension of the thread will be always the fame: for it has been demonstrated already, No 42. that if C be in the circumference of a circle whose centre is G, O will be in the circumference of another

Rotation. circle round the same centre, and therefore the ratio of CG to CO is constant.

Cor. 2. If a circular body FCB roll down an inclined plane by unfolding a thread, or by friction which prevents all fliding, the space described will be to that which the body would defcribe freely as CG to CO: for the tendency down the inclined plane is a determined proportion of the weight of the body. The motion of rotation in these cases, both progressive and whirling,

is uniformly accelerated.

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Cafe of pen- Something of the same kind obtains in common dulous bo-pendulous bodies. A ball hung by a thread not only oscillates, but also makes part of a rotation; and for this reason its oscillations differ from those of a heavy point hanging by the fame thread, and the centre of oscillation is a little below the centre of the ball. A ball hung by a thread, and ofcillating between cycloidal cheeks, does not oscillate like a body in a cycloid, because its centre of oscillation is continually shifting its place. Huyghens avoided this by suspending his pendulous body from two points, fo that it did not change its attitude during its ofcillation. If our fpringcarriages were hung in this manner, having the four lower staples to which the straps are fixed as far asunder as the four upper staples at the ends of the fprings, the body of the carriage would perform its ofcillations without kicking up and down in the difagreeable manner they now do, by which we are frequently in danger of firking the glaffes with our heads. The fwings would indeed be greater, but incomparably easier; and we could hold things almost as steadily in our hand as if the carriage were not fivinging at all.

This will fuffice for an account of the rotation round fixed axes, as the foundation for a theory of machines actually performing work. The limits of our undertaking will not allow us to do any more than just point

out the method of applying it.

Method of Let there be any machine of the rotatory kind, i. e. composed of levers or wheels, and let its construction be fuch, that the velocity of the point to which the power of rotation is applied (which we shall call the impelled point) is to to practice. the velocity of the working point in the ratio of m to n. It is well known that the energy of this machine will be the same with that of an axis in peritrochio, of

which the radii are m and n.

Let p express the actual pressure exerted on the impelled point by the moving power, and let r be the actual preffure or reliftance exerted on the working point by the work to be performed. Let x be the inertia of the power, or the quantity of dead matter which must move with the velocity of the impelled point in order that the moving power may act. Thus the moving power may be the weight of a bucket of water in a water-wheel; then & is the quantity of - matter in this bucket of water. Let y in like manner be the inertia of the work, or matter which must be moved with the velocity of the working point, in order that the work may be performed. Thus y may be a quantity of water which must be continually pushed along a pipe. This is quite different from the weight of the water, though it is proportional to it, and may be menfured by it.

Let f be a pressure giving the same resistance when applied at the working point with the friction of the machine, and let an' be the momentum of the machine's Vol. XVIII. Part I.

inertia, viz. the same as if a proper quantity of matter Rotation. a were attached to the working-point, or to any point at the fame distance from the axis.

This state of things may be represented by the wheel and axle PQS (fig. 7.) where x and y and a are repre-Fig. 7. fented by weights acting by lines. P is the impelled point, and R the working point; CP is m and CR is n. The moving force is represented by PA, the resistance

by RB, and the friction by BF. It is evident that the momentum of the inertia of x, y, and a are the same as if they were for a moment attached to the points P and R.

Hence we derive the following expressions,

1. The angular velocity  $= \frac{p m - r + f n}{x m^2 + y + a n^2}$ 64 Formulæ and their use in prace

2. Velocity of the working-point  $= \frac{\rho mn - r + fn^2}{x m^3 + y + an^3}$ 3. Work performed  $= \frac{\rho mn r - r + fn^3 r}{x m^3 + y + an^3}$ . For the pork is preparational to the

work is proportional to the product of the relifance and the velocity with which it is overcome.

We shall give a very simple example of the utility of these formulæ. Let us suppose that water is to be raifed in a bucket by the descent of a weight, and that the machine is a fimple pulley. Such a machine is described by Desaguliers \*, who says he found it prefe- \* Experrable to all other machines. The bucket dipped itself Phil vol. in the ciftern. A chain from it went over a pulley, and at its extremity was a stage on which a man could step from the head of a stair. His preponderance brought down the flage and raifed the bucket, which discharged its water into another cistern. The man quitted the stage, and walked up stairs, and there he found

it ready to receive him, because the empty bucket is made heavier than the empty stage.

Now, if there be no water in the bucket, it is evident, that although the motion of the machine will be the quickest possible, there will be no work performed. On the other hand, if the loaded stage and the full bucket are of equal weight, which is the usual statement of fuch a machine in elementary treatifes of mechanics, the machine will stand still, and no work will be performed. In every intermediate state of things the machine will move, and work will be performed. Therefore the different values of the work performed must be a feries of quantities which increase from nothing to a certain magnitude, and then diminish to nothing again. The maxim which is usually received as a fundamental proposition in mechanics, viz. that what is gained in force by the intervention of a machine is loft in time, is therefore falle. There must be a particular proportion of the velocities of the impelled and workingpoints, which will give the greatest performance when the power and refistance are given; and there is a certain proportion of the power and refftance which will have the same effect when the structure of the machine has previously fixed the velocities of the impelled and working points.

This proportion will be found by treating the formula which expresses the work as a fluxionary quantity, and finding its maximum. Thus, when the ratio of the power and refiltance is given, and we with to know what must be the proportion of the velocities

Rotation. m and n, that we may construct the machine accordingly, we have only to confider n as the variable quan-

tity in the third formula. This gives us  $n = m \times \frac{\sqrt{x^2 \times r + f^2 + f^2 \times a + y} - xr + f}{p \cdot a + y}$ 

This is a fundamental proposition in the theory of 63 working machines: but the application requires much attention. Some natural powers are not accompanied by any inertia worth minding; in which case a may be omitted. Some works, in like manner, are not accompanied by any inertia; and this is a very general cafe. In many cases the work exerts no contrary strain on the machine at reit, and r is nothing. In most instances the intensity of the power varies with the velocity of the impelled point, and is diminished when this increases: the resistance or actual pressure at the working-point frequently increases with the velocity of the working-point. All these circumstances must be attended to; but still they only modify the general pro-position. These are matters which do not come within the limits of the prefent article. We only took this opportunity of showing how imperfect is the theory of machines in equilibrio for giving us any knowledge of

60 Common mode of efficieting external impulfions,

One thing, however, must be particularly attended to in this theory. The forces which are applied to the body moveable round an axis are confidered in the theory as oreffures actually exerted on the impelled points of the body or machine, as when a weight is appended to a lever or wheel and axie, and, by descending uniformly, acts with its whole weight. In this case the weight multiplied by its diffance from the axis will always express its momentum, and the rotation will (ceteris paribus ) be proportional to this product. But in many important cases our machines are actuated by external impulsions. A body in motion strikes on the impelled point of the machine, and causes it to turn round its axis. It is natural for us to consider the quantity of motion of this impelling body as the meafure of our moving force. Supposing n to be its quantity of matter, and V its velocity, n V appears a very proper measure of its intensity. And if it be applied at the distance CP from the axis of rotation, nV CP flould express its energy, momentum, or power to turn the machine round C; and we should express the an-

their performance or just principles of their construc-

gular velocity by  $\frac{n \text{ V-CP}}{\sqrt{p r^2}}$ . Accordingly, this is the manner in which calculations are usually made for the construction and performance of the machine, as may be feen in almost every treatife of mechanics.

fhown to be erronecus.

But nothing can be more erroneous, as we shall show by a very fimple instance. It should result from these principles that the angular velocity will be proportional to CP. Let us suppose our moving power to be a stream of water moving at the rate of ten feet per second, and that every fecond there passes 100 pounds of water. We should then call our moving force 1000. It is evident, that if we suppose the arm of the floatboard on which it ftrikes to be infinitely long, the impelled point can never move faster than 10 feet in a fecond, and this will make the angular velocity infinitely small, instead of being the greatest of all. The rotation will therefore certainly be greater if CP be short- Rotation-We need not examine the case more minutely.

We must therefore carefully distinguish between the Distriction quantity of motion of the impeling body and its mo-to be made ving power, as it is modified by its manner of acting, between The moving power is the preffure actually exerted on the the quanimpelled point of the machine. Now the universal fact tity of mo-of the equality of action and reaction in the collision of the convenience. bodies affures us, that their mutual pressure in their col-power of lifton is measured by the change of motion which each an impelfustains: for this change of motion is the only indica-ling body. tion and measure of the pressure which we suppose to be its cause. A way therefore of ascertaining what is the real moving force on a machine actuated by the impullion of a moving body, is to discover what quantity of motion is loft by the body or gained by the machine; for these are equal. Having discovered this, we may proceed according to the propositions of rotatory mo-

Therefore let AEF (fig. 8.) represent a body moveable round an axis passing through C, perpendicular to Fig. 3, the plane of the figure. Let this body be fruck in the point A by a body moving in the direction FA, and let BAD be a tangent to the two bodies in the point of collision. It is well known that the mutual actions of two folid bodies are always exerted in a direction perpendicular to the touching surfaces. Therefore the mutual pressure of the two bodies is in the direction AP perpendicular to AD. Therefore let the motion of the impelling body be refolved into the directions AP and AD. The force AD has no there in the preffure. Therefore let V be the velocity of the impelling body estimated in the direction AP, and let n be its quantity of matter. Its quantity of motion in the direction AP will be n V.

=A a : A o, therefore  $\varphi p = A o$ .

Did AP pass through C, it is evident that the only effect would be to prefs the axis on its supports. But AP, the direction of the pressure, being inclined to AC, the point A is forced afide, and in some small moment of time describes the little arch A a round the centre C. The point P will therefore describe a finall arch P  $\rho$ , fubtending an angle PC  $\rho = AC a$ . Draw a o perpendicular to AP, and a d perpendicular to AD. The triangles d A o, ACP are fimilar, and A a: A o= AC: CP. But the angles AC a, PC p being equal, the arches are as their radii, and A a: Pp=AC: CP,

Now fince, in consequence of the impulse, A describes A a in the moment of time, it is plain that A o is the space through which the impelling body continues to advance in the direction of the pressure; and if V be taken equal to the space which it described in an equal moment before the ftroke, v will express the remaining velocity, and V-v is the velocity loft, and n (V-v) is the quantity of motion loft by the impelling body, and is the true measure of the pressure exerted. This gives us the whole circumstances of the rotatory motion. The

angular velocity will be  $\frac{n(V-v)\cdot CP}{\int \rho t^2}$ , and the velocity of the point A will be  $\frac{n(V-v)\cdot CP\cdot CA}{\int \rho t^2}$ . Call this velocity u. The fimilarity of triangles gives vo CA:  $CP = A a \text{ (or } u) : A o \text{ (or } v) \text{ and } u = \frac{v \cdot CA}{CP}$ . There-

fore  $\frac{\text{V-CA}}{\text{CP}} = \frac{n(\text{V}-v)\text{CP.CA}}{\int \rho r^4}$ . Rotation. From this we deduce  $v = \frac{f \rho r^2}{f \rho r^2 + n.CP^2}$ , and thus we have obtained the value

of w in known quantities; for n was given, or supposed known; so also was V: and since the direction FA was given, its distance CP from the axis is given; and the form of the body being known, we can find the value of  $f \rho r^a$ . Now we have feen that v is also the velocity of the point P; therefore we know the absorbing the point P; lute velocity of a given point of the body or machine. and confequently the whole rotatory motion.

We have the angular velocity  $=\frac{n \cdot V \cdot CP}{\sqrt{p \cdot r^2 + n \cdot CP^2}}$ ; we shall find this a maximum when  $\int p \cdot r^2 = n \cdot CP^2$ ; and in this case  $CP = \sqrt{\frac{n \cdot r^2}{n}}$ , and  $v = \frac{1}{2}V$ . So that the greatest velocity of rotation will be produced when the

striking body loses & of its velocity. 74 Authors

What we have now delivered is sufficient for explaining all the motions of bodies turning round fixed axes; and we prefume it to be agreeable to our readers, that we have given the investigation of the centres of gyrathat theory tion, oscillation, and percussion. The curious reader will find the application of these theorems to the theory of machines in two very valuable differtations by Mr Euler in the Memoirs of the Academy of Berlin, vols viii. and x. and occasionally by other authors who have treated mechanics in a fcientific and ufeful manner, going beyond the school-boy elements of equilibrium.

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There remains a very important case of the rotation of bodies, without which the knowledge of the motion free bodies of folid bodies is incomplete; namely, the rotation of free bodies, that is, of bodies unconnected with any fixed points. We hardly fee an inftance of motion of a free body without some rotation. A stone thrown from the band, a ball from a cannon, the planets themselves, are observed not only to advance, but also to whirl round. The famous problem of the precession of the equinoxes depends for its solution on this doctrine; and the theory of the working of thips has the fame foundation. We can only touch on the leading proposi-

We need not begin by demonstrating, that when the direction of the external force passes through the centre of the body, the body will advance without any rotation. This we confider as familiarly known to every person versant in mechanics; nor is it necessary to demonstrate, that when the direction of the moving force does not pass through the centre of gravity, this centre will still advance in a direction parallel to that of the moving force, and with the same velocity as if the direction of the moving force had passed through it. This is the immediate confequence of the equality of action and reaction observed in all the mechanical phenomena of the universe.

But it is incumbent on us to demonstrate, that when the direction of the moving force does not pass through the centre of gravity, the body will not only advance in the direction of the moving force, but will also turn round an axis, and we must determine the position of this axis, and the relation subfishing between the pro-

greffive and rotatory motions.

The celebrated John Bernoulli was the first who con- Rotation fidered this subject; and, in his Difquisitiones Mechanicodynamica, he has demonstrated feveral propositions concerning the spontaneous axis of conversion, and the motions alifing from eccentric external forces: and although he assumed for the leading principle a proposition which is true only in a great number of cates, he has determined the rotation of spherical bodies with great accuracy. This combination of motions will be palpable in fome

fimple cases, such as the following: Let two equal bodies A and B (fig. 9.) be connected by an inflexible Fig. 9. rod (of which we may neglect the inertia for the prefent). Let G be the middle point, and therefore the centre of gravity. Let an external force act on the point P in the direction FP perpendicular to AB, and let AP be double of PB. Also let the force be such, that it would have caused the system to have moved from the fituation AB to the fituation ab, in an indefinitely small moment of time, had it acted immediately on the centre G. G would in this case have described Gg, A would have described A a, and B would have described B b, and ab would have been parallel to AB: for the force impressed on A would have been equal to the force impressed on B; but because the force acts on P, the force imprefied on A is but one half of that impressed on B by the property of the lever: therefore the initial motion or acceleration of A will be only half of the initial motion of B; yet the centre G must still be at g. We shall therefore ascertain the initial motion of the fystem, by drawing through g a line  $a g \beta$ , so that A a shall be  $\frac{1}{2}$  of  $B \beta$ . This we shall do by making AC = AB, and drawing  $C a g \beta$ . Then  $a \beta$ will be the position of the system at the end of the moment of time. Thus we see that the body must have a motion of rotation combined with its progressive mo-

And we deduce immediately from the premises that How mothis rotation is performed round an axis passing through tion is perthe centre of gravity G: for fince the centre describes formed in a straight line, it is never either above or below the axis of rotation, and is therefore always in it. This is a fundamental theorem, and our fablequent investigation is by this means greatly fimplified, being thus reduced to two problems: 1. To determine in what direction the axis paffes through the centre of gravity. 2. To determine the angular velocity of the rotation, or how far the centre must advance while the body makes one turn round the axis. This establishes the relation between the progressive and rotatory motions. It will contribute to our better conception of both these pro-

It is evident, in the first place, that the impressions made on A and B are in lines A a, B b parallel to FP and Gg; and therefore the motions of the points A, G, and B, are made in one plane, viz. the plane FPG. The axis of rotation therefore must be a line drawn through G, perpendicular to this plane. If we give it any other position, one of the points A, B, or both of

blems to fee the refult in the prefent fimple cafe.

them, must quit this plane.

In the next place, in ba produced take be = BC. Then supposing AC to be a rigid line connected with the fystem, it is evident that if there had been no rotation, the line BC would have kept parallel to its first position, and that at the end of the moment of time C Q q 2

Rotation. would have been at c. The point C therefore has had, by the rotation, a backward motion c C, relative to the centre G or g, and this motion is equal to the progreffive motion Gg of the centre; therefore if we make Gy equal to the circumference of a circle whose radius is CG, the body will make one rotation round the centre of gravity, while this centre moves along Gy; and thus the relation is established between the two mo-

But farther, the point C has, in fact, not moved out of its place. The incipient motion has therefore been fuch, that C has become a spontaneous centre of conversion. It is easy to see that this must always be the case, whatever may be the form of the rigid body or fystem of particles connected by inflexible and inextenfible lines. Since the fyftem both advances and turns round an axis passing through its centre of gravity, there must be some point in the system, or which may be conceived as connected with it by an inflexible line, which moves backward, by the rotation, as fast as the centre advances forward. A line drawn through this point parallel to the axis must in this instant be at rest, and therefore must be a spontaneous axis of conversion. And, in this instant, the combined motions of rotation round an axis passing through the centre of gravity and the motion of progression, are equivalent to, and actually constitute, an incipient simple motion of rotation round another axis parallel to the former, whose position may be afcertained. But it is necessary to establish this pro-

position and its converse on clearer evidence. Therefore let G (fig. 10.) be the centre of gravity of a rigid fystem of particles of matter, such as we suppose a folid body to be. Let this fystem be supposed to turn round the axis Gg, while the axis itself is moving forward in the direction and with the velocity GI. Let the rotation be fuch, that a particle A has the direction and velocity A h. Let us first suppose the progressive motion GI to be perpendicular to the axis Gg. It will therefore be parallel to the planes of the circles described round the axis by the different particles. Let CGg be a plane perpendicular to GI. It will cut the plane of the circle deferibed by A in a straight line eg, and g will be the centre round which A is turning. Therefore A g will be the radius vector of A, and A h is perpendicular to Ag. Let Ad be perpendicular to cg, and in Ad take Ae equal to GI or gi. It is evident, that the absolute motion of A is compounded of the motions A e and A h, and is the diagonal Af of the parallelogram A efh. In the line gc, which is perpendicular to Gg, take ge to gA, as Ae to Ah, and draw c C parallel to g G, and produce h A till it cut cg in n. We say that C c is in this moment a spontaneous axis of conversion; for, because A n is perpendicular to Ag and Ad to Cg, the angle cg A is equal to dAn, or fhA. Therefore, fince cg:gA=fh : h  $\Lambda$ , the triangles eg  $\Lambda$  and fh  $\Lambda$  are fimilar, and the angle g  $\Lambda$  e is equal to h  $\Lambda$  f. Take away the common angle g  $\Lambda$  f, and the remaining angle e  $\Lambda$  f is equal to the remaining angle hAg, and Af is perpendicular to A c, and the incipient motion of A is the same in refpect of direction as if it were turning round the axis cC. Morcover, Afis to flor gias Ac to cg. Therefore, both the direction and velocity of the absolute motion of A is the same as if the body were turning round the fixed axis & C; and the combined motion A e of progref-

fion, and the motion A h of rotation round Gg, are Retation. equivalent to, and really conflitute, a momentary fimple motion of rotation round the axis Cc given in position,

that is, determinable by the ratio of A e to A h.

On the other hand, the converse proposition is, that a fimple motion of rotation round a fixed axis Cc, fuch that the centre G has the velocity and direction GI perpendicular to CG, is equivalent to, and produces a motion of rotation round an axis Gg, along with the progreffive motion GI of this axis. This proposition is demonstrated in the very same way, from the consideration that, by the rotation round Cc, we have cA: cg=Af: gi. From this we deduce, that A h is perpendicular to Ag, and that fh: A h=cg:gA; and thus we resolve the motion Af into a motion Ah of rotation round Gg, and a motion A e of progression common to the whole body.

But let us not confine the progressive motion to the direction perpendicular to the axis Gg. Let us suppose that the whole body, while turning round Gg, is carried forward in the direction and with the velocity GK. We can always conceive a plane LGC, which is perpendicular to the plane in which the axis Gg and the direction GK of the progressive motion are situated .-And the motion GK may be conceived as compounded of a motion GI perpendicular to this plane and to the axis; and a motion of translation GL, by which the axis slides along in its own direction. It is evident, that in consequence of the first motion GI, there arises a motion of rotation round Cc. It is also evident, that if, while the body is turning for a moment round Cc, this line be flid along itself in the direction c C, a motion equal to GL will be induced on every particle A, and compounded with its motion of rotation AF, and that if  $f \varphi$  be drawn equal and parallel to GL,  $\varphi$  will be the fituation of the particle A when G is in K.

And thus it appears, that when the progressive motion is perpendicular to the axis of rotation passing through the centre of gravity, the two motions progressive and rotatory are equivalent to a momentary fimple motion of rotation round a spontaneous axis of corversion, which is at rest: but when the progressive motion is inclined to the axis passing through the centre, the fpontaneous axis of conversion is sliding in its own

direction. We may conceive the whole of this very diffinctly exempliand accurately by attending to the motion of a gar-fied. den roller. We may suppose it six feet in circumference, and that it is dragged along at the rate of three feet in a fecond from east to west, the axis of the roller lying north and fouth. Suppose a chalk line drawn on the furface of the roller parallel to its axis. The roller will turn once round in two feconds, and this line will be in contact with the ground at the intervals of every fix In that inflant the line on the roller now spoken of is at rest, and the motion is the same as if it were fixed, and the roller really turning round it. In flort,

Now, suppose the roller dragged in the same manner and in the same direction along a sheet of ice, while the ice is floating to the fouth at the rate of four feet in a fecond. It is now plain that the roller is turning round an axis through its centre of gravity, while the centre is carried in the direction / 360 52' W. at the rate of

it is then a spontaneous axis of conversion.

Fig. 19.

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Rotation. five feet per second. It is also plain, that when the line drawn on the furface of the ftone is applied to the ice. its only motion is that which the ice itself has to the

fouthward. The motion is now a motion of rotation round this spontaneous axis of conversion, compounded with the motion of four feet per fccond in the direction of this axis. And thus we fee that any complication of motion of rotation round an axis palling through the centre of gravity, and a motion of progression of that centre, may always be reduced to a momentary or incipient motion of rotation round another axis parallel to the former, compounded with a motion of that axis

in its own direction.

The demonstration which we have given of these two propositions points out the method of finding the axis Cc, the incipient rotation round which is equivalent to the combined progressive motion of the body, and the rotation round the axis G g. We have only to note the rotatory velocity A h of fome particle A, and its distance Ag from the axis, and the progressive velocity GI of the whole body, and then to make GC a fourth proportional to A h, GI, and g A, and to place GC in a plane perpendicular to GI, which is perpendicular to Gg, and to place C on that fide of Gg which is mo-

ving in the opposite direction to the axis.

In the simple case of this problem, which we exhibited in order to give us eafy and familiar notions of the fubject, it appeared that the retrograde velocity of rotation of the point C was equal to the progressive velo-city of the centre. This must be the case in every point of the circumference of the circle of which CG, fig. o. is the radius. Therefore, as the body advances, and turns round G, this circle will apply itself in fuccession to the line CK parallel to Gy; and any individual point of it, such as C, will describe a cycloid of which this circle is the generating circle, CK the base, and CG half the altitude. The other points of the body will describe trochoids, elongated or contracted according as the describing points are nearer to or more remote from G than the point C is.

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made to

It is now evident that all this must obtain in every The applicafe, as well as in this simple one. And when we have ascertained the distance GC between the axis of rotation more compassing through the centre, and the momentary spontaplex cafes. neons axis of conversion palling through C, we can then afcertain the relation between the motions of rotation and progression. We then know that the body will make one rotation round its central axis, while its centre moves over a space equal to the circumference of a circle of a known diameter.

We must therefore proceed to the methods for determining the position of the point C. This must depend on the proportion between the velocity of the general progressive motion, that is, the velocity of the centre, and the velocity of some point of the body .-This must be ascertained by observation. In most cases which are interesting, we learn the position of the axis, the place of its poles, the comparative progressive velocity of the centre, and the velocity of rotation of the different points, in a variety of ways; and it would not much increase our knowledge to detail the rules which may be followed for this purpose. The circumstance which chiefly interests us at present is to know how these motions may be produced; what force is needfary, and how it must be applied, in order to produce a given motion of rotation and progression; or what will Rotation. be the motion which a given force, applied in a given manner, will produce.

We have already given the principles on which we may proceed in this investigation. We have shown the circumflances which determine the place of the centre of percussion of a body turning round a given fixed axis. This centre of percussion is the point of the body where all the inherent forces of the whirling body precifely balance each other, or rather where they unite and compose one accumulated progressive force, which may then be opposed by an equal and opposite external force. If, therefore, the body is not whirling, but at rest on this fixed axis, and if this external force be applied at the centre of percussion, now become a point of impulsion, a rotation will commence round the fixed axis precifely equal to what had been stopped by this external force, but in the opposite direction; or, if the external force be applied in the direction in which the centre of percussion of the whirling body was moving at the infrant of floppage, the rotation produced by this impulse will be the same in every respect. And we found that in the infrant of application of this external force, either to ftop or to begin the motion, no pressure whatever was excited on the supports of the axis, and that the axis was, in this instant, a spontaneous axis of conversion.

Moreover, we have shown, art. 84, that a rotation round any axis, whether fixed or fpontaneous, is equivalent to, or compounded of, a rotation round another axis parallel to it, and passing through the centre of gravity, and a progressive motion in the direction of the

centre's motion at the inftant of impulse.

Now, as the position of the fixed axis, and the known disposition of all the particles of the body with respect to this axis, determines the place of the centre of percustion, and furnishes all the mathematical conditions which must be implemented in its determination, and the direction and magnitude of the force which is produced and exerted at the centre of percussion; fo, on the other hand, the knowledge of the magnitude and direction of an external force which is exerted on the point of impulsion of a body not connected with any fixed axis, and of the disposition of all the parts of this body with respect to this point of impulsion, will furnish us with the mathematical circumstances which determine the position of the spontaneous axis of conversion, and therefore determine the position of the axis through the centre (parallel to the fpontaneous axis of conversion), round which the body will whirl, while its centre proceeds in the direction of the external force.

The process, therefore, for determining the axis of Mode of progreffive rotation is just the converse of the process determin-

for determining the centre of percussion.

John Bernoulli was the first who confidered the mo- five rotation of free bodies impelled by forces whose line of di-tion the rection did not pass through their centre of gravity; and converse of he takes it for granted, that fince the body both advances termining and turns round an axis passing through the centre of the centre gravity, this axis is perpendicular to the plane passing of percusthrough the direction of the force, and through the fion. point of impulsion and the centre of gravity. Other authors of the first name, such as Huyghens, Leibnitz, Roberval, &cc. have thought themselves obliged to demonstrate this. Their demonstration is as follows:

Fig. 11.

Fig. 12.

Rotation. Let a body whose centre of gravity is G (fig. 11.) be impelled at the point P by a force afting in the direction PQ not passing through the centre. The inertia of the whole body will refit in the fame manner as if the whole matter were collected in G, and therefore the refultance will be propagated to the point P in the direction GP. The particle P, therefore, is impelled in the direction PQ, and refitted in the direction PA, and must therefore begin to move in some direction PB, which makes the diagonal of a parallelogram of which the fides have the directions PO and PA. The diagonal and fides of a parallelogram are in one plane. P is therefore moving in the plane APQB or GPQ, and it is turning round an axis which passes through G .--Therefore this axis must be perpendicular to the plane GPO.

It would require a feries of difficult propositions to show the fallacy of this reasoning in general terms, and to determine the position of the axis through G. We shall content ourselves with a very simple case, where there can be no hefitation. Let A and A (fig. 12.) be two equal balls connected with the axis ab by inflexible lines Aa, Bb, perpendicular to ab. Let Aa be 1, and B b 2. The centre of gravity G will evidently be in the line c G parallel to A a and B b, and in the middle of ab, and cG is 11. Let O be the centre of

 $c ext{ O is } = rac{ ext{A} \cdot ext{A} \, a^2 + ext{B} \cdot ext{B} \, b^3}{ ext{A} + ext{B} \cdot c \, ext{G}}$ oscillation. -,= 5.-

Draw Am, Bn perpendicular to cG, and suppose the balls transferred to m and n. Their centre of oscillation will be still at O; and we see that if the system in this form were stopped at O, all would be in equilibrio. For the force with which the ball A arrives (by fwinging round the axis) at m, is as its quantity of matter and velocity jointly, that is, A. Aa, or 1. That of B arriving at n is B. B b, or 2. The arm m O of the lever turning round O is \$, and the arm n O is \$. The forces, therefore, are reciprocally as the arms of the lever on which they act, and their momenta, or powers to turn the line mn round O, are equal and opposite, and therefore balance each other; and therefore, at the instant of stopping, no pressure is exerted at c. fore, if any impulse is made at O, the balls at m and n will be put in motion with velocities 1 and 2, and c will he a spontaneous centre of conversion. Let us see whether this will be the case when the balls are in their natural places A and B, or whether there will be any tendency to a rotation round the axis cO. The momentum of A, by which it tends to produce a rotation round c O is A. Aa. Am, = 1 × Am. That of B is B.B b. Bn,  $=2 \times Bn$ . Am and Bn are equal, and therefore the momentum of B is double that of A. and there is a tendency of the fystem to turn round oC; and if, at the instant of stoppage, the supports of the . xis ab were removed, this rotation round c O would take place, and the point b would advance, and a would recede, c only remaining at rest. Therefore, if an impulle were made at O, ab would not become a spontaneous momentary axis of conversion, and O is not the centre of percussion. This centre must be somewhere in the line OP parallel to a b, as at P, and fo fituated that the momenta A . A a . A a and B . B B . B B may be equal, or that  $A \in \text{may}$  be double of  $B \beta$ , or  $a \not p$  double of  $b \not p$ . If an impulse he now made at P, the balls A B will be urged by forces as I and 2, and

therefore will move as if round the axis a b, and there Rotation will be no preffures produced at a and b, and ab will really become a momentary spontaneous axis of converfion.

Now join G and P. Here then it is evident, that a body or fystem A, B, receiving an impulse at P perpendicular to the plane ac G, acquires to itself a spontaneous axis of conversion which is not perpendicular to the line joining the point of impulsion and the centre of gravity. And we have shown, in art. 84. that this motion round ab is compounded of a progressive motion of the whole body in the direction of the centre, and a rotation round an axis pailing through the centre parallel to a b. Therefore, in this tystem of free bodies, the axis of rotation is not perpendicular to the plane passing through the centre of gravity in the direction of the impelling force.

As we have already observed, it would be a laborious Difficulty task to ascertain in general terms the position of the of ascerprogressive axis of rotation. Although the process is taining its the inverse of that for determining the centre of per-general custion when the axis of rotation is given, it is a most terms. intricate business to convert the steps of this process. The general method is this: The momentum of a particle A (fig. 5.) by which it tends to change the position of the axis Dd, has for its factors A a A /, and A &, which are its distances from three planes D d & A. DCO n, and Cg y x, given in position. The sum of all these must be equal to nothing, by the compensation of positive and negative quantities. We must find three other planes (of which only one is in forme meafure determined in position, being perpendicular to DCO n), so situated that the sums of similar products of the distances of the particles from them may in like manner be equal to nothing. This is a very intricate problem; fo intricate, that mathematicians have long doubted and disputed about the certainty of the folutions. Euler, d'Alembert, Frisi, Landen, and others, have at last proved, that every body, however irregular its shape, has at least three axes passing through its centre of gravity, round which it will continue to revolve while proceeding forward, and that thefe are at right angles to each other; and they have given the conditions which must be implemented in the determination of these axes. But they still leave us exceedingly at a lofs for means to discover the positions of the axes of a given body which have these conditions,

To folve this problem therefore in general terms, would lead to a disquisition altogether disproportioned to our work. We must restrict ourselves to those forms of body and fituations of the point of impulsion which admit of the coincidence of the centres of oscillation and percussion; and we must leave out the cases where the axis has a motion in the direction of its length; that is, we shall always suppose the spontaneous axis of conversion to have no motion. Thus we shall comprehend the phenomena of the planetary motions, fimilar to the precession of our equinoctial points, and all the interesting cases of practical mechanics. The speculative mathematical reader will fill up the blanks of this investigation by consulting the writings of Euler and D'Alembert in the Berlin Memoirs, Frisi's Cosmographia, and the papers of Mr Landen, Mr Milner, and Mr Vince, in the Philosophical Transactions. But we hope, by means of a beautiful proposition on the com-

311 Retation polition of rotatory motions, to enable every reader to discover the polition of the axis of progressive rotation in every case which may interest him, without the previous folution of the intricate problem mentioned above.

Mode of it in m. ? cales. Fig. 13.

Let ABPC pb A (fig. 13.) be a fection of a body afcertaining through its centre of gravity G, fo formed, that the part ABPC is fimilar, and fimilarly placed with the part Abp C, fo that the plane AC would divide it equally. Let this body be impelled at P in the direction HP, perpendicular to the plane AC. The axis round which it will turn will be perpendicular to G x. Suppose it at A. Then drawing AB and Ab to similar points, it is plain that B &, b & are equal and oppofite; these represent the forces which would raise or lower one end of the axis, as has been already obferved. The axis therefore will remain perpendicular to Ga.

Let the body be fo shaped, that if the parts to the right and left of the point of impulse a (the impulse is here supposed not perpendicular to the plane AC, but in this plane) are equal and fimilarly placed; then the momenta round AC must balance each other, and the axis EF will have no tendency to go out of the plane

ABC b A perpendicular to the inpulse.

Any body whose shape has these two properties will turn round an axis perpendicular to the plane which passes through the centre of gravity in the direction of the impelling force. This condition is always found in the planets when diffurbed by the gravitation to a diftant planet: for they are all figures of revolution. The direction of the diffurbing or impelling force is always in a plane paffing through the axis and the diffurbing body.

With fuch limitations therefore we propose the fol-

lowing problem :

Fig. 14.

Let G (fig. 14.) be the centre of gravity of a body in free space, which is impelled by an external force f. acting in the line FP, which does not pass through the centre. Let m be the number of equal particles in the body, or its quantity of matter. Let the force f be fuch, that it would communicate to the body the velocity v; that is, would cause the centre to move with the velocity v. It may be expressed by the quantity of motion which it produces, that is, by m v, and it would produce the velocity m v on one particle. It is required to determine the whole motion, progressive and rotatory, which it will produce, and the space which it will describe during one turn round its axis,

Draw GI parallel and PGC perpendicular to FP, and let GI be taken for the measure of the progressive

velocity v.

It has been demonstrated that the centre G will proceed in the direction GI with the velocity v, and that the body will at the same time turn round an axis passing through G, perpendicular to the plane of the figure, every particle deferibing circles in parallel planes round this axis, and with velocities of rotation proportional to their diffances from it. There is therefore a certain distance GB, such that the velocity with which a particle describes its circumference is equal to the progresfive velocity v. Let RCD be this circumference. When the particle describing this circumference is in the line CGP, and in that part of it which lies beyond P from G, its absolute velocity must be double that of the centre G; but when it is in the opposite point C. Rotation, its retrograde velocity being equal to the progressive velocity of the centre, it must be at roll. In every position of the body, therefore, that point of the accompanying gircumference which is at this extremity of the perpendicular drawn through the centre on the line of direction of the impelling force is at rell. It is at that initant a spontaneous centre of conversion, and the ftraight line drawn through it perpendicular to the plane of the figure is then a ipontaneous axis of converfion, and every particle is in a momentary state of rotation round this axis, in directions perpendicular to the lines drawn to the axis at right angles, and with velocities proportional to these distances; and lastly, the body advances in the direction GI through a space equalto the circumference BCD, while it makes one turn round G.

Let A be one of the particles in the plane of the figure. Join AC, AG, AP. Draw Ab, Ac, Ad perpendicular to CP, CA, GA. The absolute motion A c of A is compounded of the progressive motion A b common to the whole body and equal to GI, and the motion Ad of rotation round the centre of gravity G. Therefore fince A b is equal to v, and A c is the diagonal of a parallelogram given both in species . d magnitude, it is also given, and (as appears also from the reasoning in art. 85.) it is to GI as CA to CG.

By the application of the force mv in the direction FP, every particle of the body is dragged out of its place, and exerts a refistance equal to the motion which it acquires. A part of this force, which we may call mv, is employed in communicating the motion Ac to A. And, from what has been lately shown, CG: CA =GI: Ac, =v:Ac, and therefore  $Ac = \frac{v.CA}{CG}$ But farther (agreeably to what was demonstrated in art. 16.) we have  $CP : CA = Ac : m\dot{v}, = \frac{v.CA}{CG} : m\dot{v}$ ,

and therefore  $m\dot{v} = \frac{v.CA^a}{CG.CP}$ . Therefore the whole force employed in communicating to each particle the motion quantity  $\frac{v.CA^2}{CP.CG}$  or  $mv = \frac{v.\int CA^2}{CP.CG}$ , and m.CP.CG

= f CA2, which by art. 23. is equal to f GA2+m.CG2. Therefore we have m.CP.CG—m.CG=CG=/GA<sup>2</sup>, or m.GP.CG=/GA<sup>3</sup>, and finally, CG= $\frac{fGA^2}{m.GP}$ .

Now the form of the body gives us fGA2, and the position of the impelling force gives us m.GP. Therefore we can compute the value of CG; and if a be the periphery of a circle whose radius is unity, we have T.CG equal to the space which the body must celeribe in the direction GI, while it makes one rotation round its axis.

Cor. 1. The angular velocity, that is, the number of turns or the number of degrees which one of the radu will make in a given time, is proportional to the i pel-ling force: for the length of CG depends only on the form of the body and the fituation of the p int of impulfion; while the time of describing a times this length is invertely as the force.

2. The angular velocity with any given force is as

Reaction. GP: for CG, and confequently the circumference  $\pi$ .CG, described during one turn, is inversely as GP.

3. PC is equal to  $\frac{fPA^3}{mGP}$ : for we have  $\int PA^3 = \int GA^3 + m \cdot GP^3$ . Therefore  $\frac{\int PA^3}{m \cdot GP} = \frac{\int GA^3}{m \cdot GP} + \frac{\int GA^3}{m \cdot GP} = \frac{\int GA^3}{m \cdot GP} = \frac{\int GA^3}{m \cdot GP} + \frac{\int GA^3}{m \cdot GP} = \frac{\int GA^3}{m \cdot GP}$  $\frac{m.GP}{m.GP}$ , =CG+GP, =CP.

4. If the point C is the centre of impulsion of the fame body, P will be a fpontaneous centre of conversion (fee art. 41.).

5. A force equal and opposite to mv, or to f, applied at G, will stop the progressive motion, but will make no change in the rotation; but if it be applied at P, it will ftop all motion both progreffive and rotatory. If applied between P and G, it will ftop the progreffive motion, but will leave fome motion of rotation. If applied beyond P it will leave a rotation in the opposite direction. If applied beyond G, or between G and C, it will increase the rotation. All this will be eafily conceived by reflecting on its effect on the body at reit.

6. A whirling body which has no progressive motion cannot wive been brought into this state by the action of a fingle force. It may have been put into this condition by the fimultaneous operation of two equal and opposite forces. The equality and opposition of the forces is necessary for stopping all progressive motion. If one of them has acted at the centre, the rotatory motion has been the effect of the other only. If they have acted on opposite sides, they conspired with each other in producing the rotation; but have opposed each other if they acted on opposite sides.

In like manner, it is plain that a motion of rotation, together with a progressive motion of the centre in the direction of the axis, could not have been produced by

the action of a fingle force.

7. When the space S which a body describes during one rotation has been observed, we can discover the point of impulse by which a fingle force may have acted in producing both the motions of progretion and rotation: for  $CG = \frac{S}{\pi}$ , and  $GP = \frac{fGA^2}{m.CG}$ ,

Application In this manner we can tell the distances from the heavenly? motions.

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of this doc- centre at which the fun and planets may have received trine to the the fingle impulses which gave them both their motions of revolution in their orbits and rotation round their axes, It was found (art. 40. f) that the distance OG of

the centre of oscillation or percussion of a sphere swinging round the fixed point C from its centre G, is 3 of the third proportional to CG, and the radius of the fphere, or that OG=2 RG3. Supposing the planets to be homogeneous and fpherical, and calling the radius of the planet r, and the radius of its orbit R, the time of a rotation round its axis t, and the time of a revolution in its orbit T, and making 1: # the ratio of radius to the periphery of a circle, we shall have \* R for the circumference of the orbit, and \* R T for

the arch of this circumference described during one ros Rotation tation round the axis. This is S in the above-mentioned formula. Then, diminishing this in the ratio of

the circumference to radius, we obtain  $CG = R \frac{t}{T}$ and  $OG = \frac{3}{5} \frac{r^3}{CG}$ ,  $= \frac{3}{5} \frac{T r^2}{IR}$ . This is equivalent to  $\frac{\pi \int G A^a}{m.S}$ , and easier obtained.  $\begin{array}{cccc}
\frac{r}{157} \\
\text{Mars} & \frac{r}{555} \\
\frac{r}{955} \\
\text{Jupiter} & \frac{r}{2.8125} \\
\text{urn} & \frac{r}{2.588} \\
\text{for determivance of } \\
\text{vs. it } \\
\text{v} \\
\text{is}
\end{array}$ This gives us G v 105 For the Earth =

We have not data for determining this for the furt. But the very circumstance of his having a rotation in 27 d. 7 h. 47 m. makes it very probable that he, with all his attending planets, is also moving forward in the celeflial spaces, perhaps round some centre of still more general and extensive gravitation: for the perfect oppofition and equality of two forces, necessary for giving a rotation without a progressive motion, has the odds against it of infinity to unity. This corroborates the conjectures of philosophers, and the observations of Herschel and other astronomers, who think that the folar fyftem is approaching to that quarter of the heavens in which the confiellation Aquila is fituated.

8. As in the communication of progressive motion among bodies, the same quantity of motion is preserved before and after collision, so in the communication of rotation among whirling bodies the quantity of rotatory momentum is preferved. This appears from the general tenor of our formulæ : for if we suppose a body turning round an axis passing through its centre, without any progressive motion, we must suppose that the force m v, which put it in motion, has been opposed by an equal and opposite force. Let this be supposed to have acted on the centre. Then the whole rotation has been the effect of the other acting at some distance GP from the centre. Its momentum is mu.GP. Had it acted alone, it would have produced a rotation compounded with a progressive motion of the centre with the velocity v; and the body acquires a momentary fpontaneous axis of conversion at the distance GC from the centre of gravity. The absolute velocity AC of

any particle is  $\frac{v \cdot AC}{CG}$ ; its momentum is  $\frac{v \cdot AC^{a}}{GC}$ , and the fum of all the momenta is  $\frac{fv.AC^2}{CG}$ , or  $\frac{v/AC^a}{CG}$ , and this is equal to mv. GP. But when the

progressive motion is stopped, A b, which was a constituent of the absolute motion of A, is annihilated, and nothing remains but the motion A d of rotation round G. But the triangles dAc and GAC were demonRotation. firated (10 81.) to be fimilar; and therefore AC: Ad = CA : GA. Therefore the absolute velocity of the particle, while turning round the quiefcent centre of

gravity  $G_i$  is  $\frac{v.GA}{GC}$ ; its momentum is  $\frac{v.GA^s}{GC}$ ; the fum of all the momenta is  $\frac{v./GA}{GC}$ ; and this is fill

equal to mv. Observe, that now GC is not the di-

Mance of the centre of conversion from the centre of gravity, because there is now no fuch thing as the spontaneous axis of conversion, or rather it coincides with the axis of rotation. GC is the diffance from the centre of a particle whole velocity of rotation is equal

Now let the body be changed, either by a new diftribution of its parts, or by an addition or abstraction of matter, or by both; and let the fame force mo act at the same distance GP from the centre. We shall fill have  $\pi v \cdot GP = \frac{v/GA^2}{GC}$ ; and therefore the fum

of the momenta of the particles of the whirling body is fill the fame, viz. equal to the momentum of the force mu acting by the lever GP. If therefore a free body has been turning round its centre of gravity, and has the diffribution of its parts fuddenly changed (the centre however remaining in the (ame place), or has a quantity of matter fuddenly added or taken away, it will turn with fuch an angular velocity that the fum of the momenta is the fame as before.

Application We have been fo particular on this subject, because to the pro- it effects the celebrated problem of the precession of blem of the the equinoxes; and Sir Isaac Newton's solution of it is prece fion of the equi- erroneous on account of his millake in this particular.

He computes the velocity with which a quantity of matter equal to the excess of the terrestrial spheroid over the inferibed sphere would perform its librations, if detached from the fpherical nucleus. He then fupposes it suddenly to adhere to the sphere, and to drag it into the fame libratory motion; and he computes the libration of the whole mass, upon the supposition that the quantity of motion in the libratory spheroid is the fame with the previous quantity of motion of the librating redundant ring or shell; whereas he should have computed it on the fupposition that it was the quantity of momenta that remained unchanged.

The same thing obtains in rotations round fixed axes, as appears by the perfect famenels of the formulæ for

both classes of motions.

Fig. 15.

This law, which, in imitation of the Leibnitzians, we might call the confervatio momentorum, makes it of importance to have expressions of the value of the accumulated momenta in fuch cases as most frequently occur. The most frequent is that of a sphere or sphetoid in rotation round an axis or an equatorial diameter; and a knowledge of it is necessary for the solution of the problem of the precession of the equinoxes. See PRECESSION, nº 33.

Let AP ap (fig. 15.) be a sphere turning round the diameter Pp, and let DD', dd' be two circles parallel to the equator Aa, very near each other, comprehending between them an elementary flice of the fphere. Let CA be = a, CB = x, and BD = y, and let  $\pi$  be the circumference of a circle whose radius is 1. Lastly, let the velocity of the point A be v. Then

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v 2 is the velocity at the distance y from the axis, = y

is the quantity of matter in the circumference whose radius is v; for it is the length of that circumference when expanded.

 $\frac{v\pi y^3}{a}$ , or  $\frac{vy}{a} \times \pi y$ , is the quantity of motion in this circumference turning round the axis Pp.

 $\frac{v \pi y^3}{y^3}$  is the momentum of the same circumference.

 $\frac{v \pi y^3 y}{x}$  is the fluxion of the momentum of the circle whose radius is y, turning in its own plane round the

 $\frac{v \pi y^4}{4 \cdot a}$  is the fluent, or the momentum of the whole circle; and therefore it is the momentum of the circle

 $\frac{v = y^4 \cdot x}{4a}$  is the fluxion of the momentum of the hemilphere; for Bb = x, and this fraction is the momentum of the flice d' DD' d'.

 $y^4 = a^2 - x^2$ , and  $y^4 = a^4 - 2 a^2 x^2 + x^4$ . Therefore  $\frac{v\pi}{2a} \times (a^4 x - 2ax^3 x + x^4 x)$  is the fluxion of

the momentum of the whole sphere. Of this the fluent for the fegments whose heights are CB, or x, is  $\frac{v}{2}$ 

$$(a^4 x - \frac{2a^2 x^3}{3} + \frac{x^5}{5}).$$

Let x become a, and we have for the momentum of the whole fibere  $\frac{v\pi}{2a}(a^5 + \frac{1}{3}a^5) = v\pi\left(\frac{a^4}{2} - \frac{a^4}{2}\right)$  $\left(\frac{a^4}{2} + \frac{a^4}{10}\right) = v \pi \sqrt{\frac{4}{3}} a^4$ .

Let us suppose that this rotation has been produced by the action of a force mu; that is, a force which would communicate the velocity u to the whole matter of the sphere, had it acted in a direction passing through its centre; and let us suppose that this force aded on the equatorial point A at right angles to AC: Its momentum is mua, and this is equal to  $v\pi_{AA}^{\alpha}a^{\alpha}$ . Also, we know that  $m=\frac{1}{2}\pi a^{\alpha}$ . Therefore we have  $u:\frac{1}{2}$  $\pi a^4 = v \frac{4}{15} \pi a^4, \frac{1}{3} u = \frac{4}{15} v, \text{ and } v = \frac{5}{3} u.$ 

Let EPO p be an oblate spheroid whose semi-axis PC is a, and equatorial radius EC is b, and let v be the velocity on the equator of the inferibed sphere. Then fince the momentum of the whirling circle DD is  $\frac{v \times y^4}{4a}$ , the momenta of the fphere and fpheroid are in

the quadruplicate ratio of their equatorial radii; and therefore that of the whole spheroid is the wb v. And if w be the velocity at E corresponding to the velocity

v at A. fo that w = -v, we have the momentum of the spheroid, expressed in terms of the equatorial velocity at the furface, 4 l' a w.

If the fame force mu be made to act in the fame marmer

Rotation, manner at E, its momentum mub is = 14c b3 a to, and  $w = \frac{15 \, m \, u}{4 \, \pi \, b^3 \, a}$ . Therefore the angular velocities  $\frac{a}{a}, \frac{w}{b}$ ,

which the same force mu acting at A or E will produce in the fphere and the fpheroid, are as  $\frac{15 mu}{4 \pi a^4}$  and  $\frac{15 mu}{4 b^5 a}$ , that is, in the triplicate ratio of the equatorial diameter b to the polar axis a.

Lastly, if the oblate spheroid is made to turn round an equatorial diameter passing through C perpendicular to the plane of the figure, it is plain that every fection parallel to the meridian EPO p is an ellipse similar to this meridian. If this ellipse differs very little from the inscribed circle, as is the case of the earth in the problem of the precession of the equinoxes, the momentum of cach ellipse may be considered as equal to that of a circle of the fame area, or whose diameter is a mean proportional between the equatorial and polar diameters of the fpheroid. This radius is to the radius of the circumforibed circle as  $\sqrt{ba}$  to b. Therefore the momenta of the fection of the fpheroid and of the circumscribed sphere are in the constant ratio of ba as to b4, or of as to l2. And if the velocity in the equator of this circumscribed sphere be called w, the momentum of the fphere is 4 mb w; and therefore that of the fpheroid is 4 w, agreeably to what was affumed in the article PRECESSION, nº 33.

This value of the momentum of a feberoid round an equatorial diameter is only a very eafy approximation; an exact value may be obtained by an infinite feries. The whole matter of the spheroid may be considered as uniformly distributed on the furface of a fimilar feberoid whole diameter is  $=\sqrt{\frac{1}{2}}$  of the diameter of the spheroid. It will have the same momentum, because a triangle in one of the ellipses, having an elementary arch of the circumference for its bafe, and the centre of the ellipse for its vertex, has its centre of gyration distant from the vertex A the length of the radius of the ellipse, and the problem is reduced to the finding the fum of all these lines. But even when the series for this fum involves the 3d power of the eccentricity, it is not more exact than the above approximation.

A fimilar proposition may be obtained for a prolate spheroid vibrating round an equatorial diameter, and applied to the conjectural shape of the moon, for ex-

plaining her ofcillations. The reader must have observed that the preceding

disquisitions refer to those motions only which result from the action of external forces and to the state of incipient motion. All circular motions, fuels as those fug I torces, of rotation, are accompanied by centrifugal forces. A central force is necessary for retaining every particle in its circiliar path; fuch forces must therefore be excited in the body, and can arise only from the forces of cohesion by which its particles are held together. These forces are mutual, equal, and opposite; and as much as a particle A (fig. 5.) is retained by a force in the direction A a of the line which connects it with the fixed axis Dd, or in the direction AG (fig. 10.), which connects it with the progressive axis; so much must the point a of the axis D a be urged in the opposite direction a 1, or so much mud the whole by be urged in the direction GA. Every point therefore of the axis

Dd, or of the axis through G in fig. 10. is carried in Retation. a variety of directions perpendicular to itself. These forces may or may not balance each other. If this balance obtains with respect to the fixed axis, its supports will fuffain no preffure but what arises from the external force; if not, one support will be more pressed than the other; and if both were removed, the axis would change its position. The same must be affirmed of the axis through G in fig. 10. This, having no support, must change its position.

And thus it may happen, that the axis of rotation passing through G which has been determined by the preceding disquisitions, is not permanent either in respect of the body, or in respect of absolute space. These two totations are effentially different. The way to conceive both is this. Suppose a spherical surface described round the body, having its centre in the centre of gravity; and suppose this surface to revolve and to proceed forward along with the body: in short, let it be conceived as an immaterial furface attached to the body. The axis of rotation will pass through this surface in two points which we shall call its poles. Now, we fay that the axis is permanent with respect to the body when it has always the fame poles in this spherical furface. Suppose another spherical surface described round the same centre, and that this surface also accompanies the body in all its progressive motion, but does not turn with it. The axis is permanent with respect to absolute space when it has always the same poles in this surface: it is evident that thele two facts are not infeparable. A boy's top fpins on the fame point and the fame corporeal axis, while, towards the end of its motion, we observe it directing this round and round to different quarters of the room. And when we make an egg or a lemon spin with great rapidity on its side on a level table, we see it gradually rise up, till it stand quite on end, fpinning all to. while round an axis pointing to the zenith.

This change in the position of the axis is produced by the unbalanced actions of the centrifugal forces ex- Fig. 16. erted by the particles. Suppose two equal balls A and B (fig. 16.) connected by an inflexible rod whose middle point is G, the centre of gravity of the balls. This fustem may be made to turn round the material axis Dd. A describing the circle AEFA, and B describing the circle BHKB. The rou AB may also be conceived as moveable round the point G by means of a pin at right angles to the axis. Suppose the balls passing through the fituations A and B; their centrifugal forces urge them at the same time in the directions CA and OB, which impulsions conspire to make the connecting rod recede from both ends of the axis Dd. And thus the balls, inftead of describing parallel circles round this axis, will describe parallel spirals, gradually opening the angles DGA, dGB more and more, till the balls acquire the polition as at right angles to the axis. They will not flop there, for each came into that position with an oblique motion. They will pass it; and were it not for the resistance of the air and the faction of the joint at G, they would go on till the ball A came to describe the circle BHK, and the ball B to describe the circle AEF. The centrifugal fo.ces will now have exhaufted by opposition all the motions which they had acquired during their perflage from the polition AB to the position as; and now they will again describe spi-

All rota-1100 20-Comparied balls arrive at their original polition AB, when the pro-cess will begin again. Thus they will continue a kind

or ofcillating rotation.

Thus the axis is continually changing with respect to the fystem of balls; but it is fixed in respect to abfolute space, because the axis Dd is supported. It does not yet appear that it has any tendency to change its polition, because the centrifugal tendency of the balls is completely yielded to by the joint at G. The material axis has indeed fustained no change; but the real axis, or mathematical line round which the rotation was going on every moment, has been continually thifting its place. This is not fo obvious, and requires a more attentive confideration. To show accurately the gradual change of polition of the real axis of rotation would require a long discussion. We shall content ourselves with exhibiting a cafe where the position of the momentary axis is unquestionably different from Dd, which we may suppose herizontal.

Take the balls in the position & B. They came into this position with a spiral motion, and therefore each of them was moving obliquely to the tangents a Q. By to the circle ad Bs, suppose in the directions ad, B A. They are therefore moving round the centre G in a plane 8 a 3 h, inclined to the plane 0 a 3 v of the circle adds. The momentary axis of rotation is therefore perpendicular to this oblique plane, and therefore does not

coincide with Dd.

We cannot enter upon the investigation of this evagation of the axis, although the fubiect is both curious and important to the speculative mathematicians. A knowledge of it is absolutely necessary to a complete folution of the great problem of the precession. But when treating that article, we contented ourselves with flowing that the evagation which obtains in this natural phenomenon is so exceedingly minute, that although multiplied many thousands of times, it would escape the nicest observations of modern astronomers; and that it is a thing which does not accumulate beyond a certain limit, much too fmall for observation, and then diminishes again, and is periodical. Euler, D'Alembert, Frisi, and De la Grange, have shown the momentary position of the real variable axis corresponding to any given time; and Landen has with great ingenuity and elegance connected these momentary positions, and given the whole paths of evagation. Mr Segnor was, we believe, the first who showed (in a Differtation De Motu Turbinum, Halle, 1755), that in every body there were at least three lines passing through the centre of gravity at right angles to each other, forming the folid angle of a cube, round which the centrifugal forces were accurately balanced, and therefore a rotation begun round either of these three lines would be continued, and they are permanent axes of rotation. Albert Euler gave the first demonstration in 1760, and fince that time the investigation of these axes has been extended and improved by the different authors already named. It is an exceedingly difficult fubject; and we recommend the fynthetical investigation by Frisi in his Colinographic as the fittest for instructing a curious reader o whom the subject is new. We shall conclude this differtation with a beautiful theorem, the enunciation of which we owe to P. Frifi, which has amazingly improved the whole theory, and gives cafy and elegant

Rotation rais gradually opening, and then contracting, till the folutions of the most difficult problems. It is analogous Rotation to the great theorem of the composition of motions and

If a body turn round an axis AG a (fig. 17.) paf-p page fing through its centre of gravity G with the angularthere . velocity a, while this axis is carried round another axis BGb with the angular velocity b, and if GD be

taken to GK as a to b (the points B and E being ta. ken on that fide of the centre where they are moving towards the fame fide of the plane of the figure), and the line DE be drawn, then the whole and cherk particle of the body will be in a flate of rotation round a third axis CGc, tying in the plane of the other twu. and parallel to DE, and the angular velocity e round this axis will be to a and to b as DE is to GD and to

GE.

For, let P be any particle of the body, and suppose a spherical surface to be described round G passing through P. Draw PR perpendicular to the plane of the figure. It is evident that PR is the common fection of the circle of rotation IP i round the axis A a, and the circle KPk of rotation round the axis Bb. Le Ii, K& be the diameters of these circles of rotatio: F and G their centres. Draw the radii PF and PO, and the tangents PM and PN. These tangents are in a plane MPN which touches the fphere in P, and cut the plane of the axis in a line MN, to which a line drawn from the centre G of the sphere through the point R is perpendicular. Let PN represent the velo city of rotation of the point P round the axis Bb, and Pf its velocity of rotation round Aa. Complete the parallelogram PNtf. Then Pt is the direction and velocity of motion resulting from the composition of PN and Pf. Pt is in the plane MPN, because the diago nal of a parallelogram is in the plane of its fides PN and P.f.

Let perpendiculars f F, 1 T, be drawn to the plane of the axes, and the parallelogram PNtf will be orthographically projected on that plane, its projection being a parallelogram RNIF. (F here falls on the centre by accident). Draw the diagonal RT. It is evident that the plane PR/T is perpendicular to the plane of the two axes, because PR is so. Therefore the compound motion Pt is in the plane of a circle of revolution round fome axis fituated in the plane of the other two. Therefore produce TR, and draw GC cutting it at right angles in H, and let LP/ be the circle, and PH a radius. Pt is therefore a tangent, and perpendicular to PH, and will meet RT in some point Q of the line The particle P is in a state of rotation round the axis CGc, and its velocity is to the velocities round Aa or Bb as Pt to Pf or PN. The triangles PRN and OPN are fimilar. For PN the tangent is perpendicular to the radius OP, and PR is perpendicular to ON. Therefore OP: PN = PR: RN, and RN = PR.PN

But the velocity of P round the axis Bb is OP.b. Therefore RN =  $\frac{PR.OP.b}{OP}$ , = PR.b. In like manner RF

= PR. a. Therefore RF : RN = a : b = GD : GE. But NT: RN = fine NRT: fine NTR, and GD: GE = fine GED : fine GDE. Therefore fine NRT : fine NTR = fine GED ; fine GDE. But RNT = EGD, for NR is perpendicular to EG and NT (being parallel Rr2

Of the evagation of the axis.

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Rotation, to IF) is perpendicular to DG. Therefore TR is perpendicular to ED, and Ce is parallel to ED, and the rotation of the particle P is round an axis parallel to ED.

And fince PN, RF, RT, are as the velocities b, a, cound these different axes, and are proportional to EG, DG, DE, we have c to a or to b as ED to GD

or GE, and the propolition is demonstrated.

TIO' Expressed! in general retmis.

This theorem may be thus expressed in general terms. If a hody revolves round an axis passing through its centre of gravity with the angular velocity a, while this axis is carried round another axis, also passing through its centre of gravity, with the angular velocity b, thefe two motions compose a motion of every particle of the body round a third axis, lying in the plane of the other two, and inclined to each of the former axes in angles whose fines are inversely as the angular velocities round them; and the angular velocity round this new axis is to that round one of the primitive axes as the fine of inclination of the two primitive axes is to the fine of the inclination of the new axis to the other primitive axis.

When we fay that we owe the enunciation of this theorem to P. Frifi, we grant at the same time that Comething like it has been supposed or assumed by other authors. Newton seems to have considered it as true, been tacitly acquiefced in by the authors who followed him in the problem of the precession. Inferior writers have carelessly assumed it as a truth. Thus Nollet, Gravefande, and others, in their contrivances for exhibiting experiments for illustrating the composition of vortices, proceeded on this affumption. Even authors of more forupulous refearch have fatisfied themfelves with a very imperfect proof. Thus Mr Landen, in his excellent differtation on rotatory motion, Philosophical Transactions, Vol. Ixvii. contents himself with showing, that, by the equality and opposite directions of the motions round the axes Aa and Bb, the point C will be at rest, and from thence concludes that CG c will be the new axis of rotation. But this is exceedingly hafty (note alfo, that this differtation was many years pollerior to that of P. Frish): For although the separate motions of the point C may be equal and opposite, it is by no means either a mathematical or a mechanical confequence that the body will turn round the axis Cc. In order that the point C may remain at rest, it is neceffary that all tendencies to motion be annihilated: this is not even thought of in making the assumption. Frifi has shown, that in the motion of every particle round the axis Cc, there is involved a motion round the two axes Aa and Bb, with the velocities a and b; and it is a confequence of this, and of this only, that the impulses which would separately produce the rotations of every particle round A a and Bb will, either in fecceshon or in conjunction, produce a rotation round Cc. Moreover, Mr Landen's not having attended to this, has led him, as we imagine, into a missake respecting. the velocity with which the axis changes its position; and though his process exhibits the path of evagation with accuracy, we apprehend that it does not affign the true times of the axes arriving at particular points of

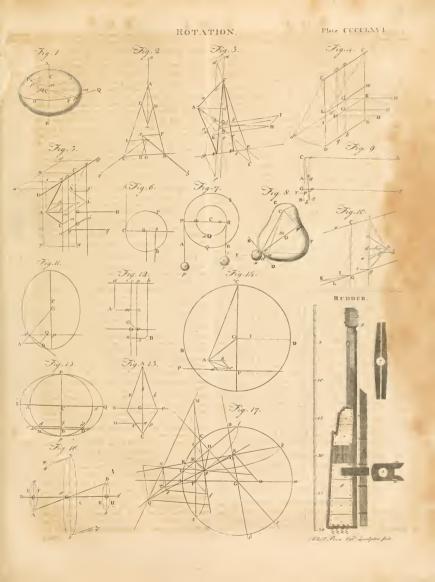
It follows from this proposition, that if every par-Conclusions ticle of a body, whether folid or fluid, receives in one deduced instant a separate impulse, competent to the production of a motion of the particle round an axis with a cerpropossion.

tain angular velocity, and another-impulse competent Recentions to the production of a motion round another axis with a certain velocity, the combined effect of all these impultions will be a motion of the whole tystem round a trirdaxis given in polition, with an angular velocity which is also given : and this motion will o tain without any separation or dilunion of parts; for we see that a motion round two axes conflicutes a motion round a third axis in every particle, and no separation would take place although the fystem were incoherent like a mais of fand, except by the action of the centrifugal forces ariling from rotation. Mr Simpson therefore erred in his folution of the problem of the precession, by suppofing another force necessary for enabling the particles of the fluid feberoid to accompany the equator when e displaced from its former fituation. The very force which makes the displacement produces the accompaniment, as far as it obtains, which we shall fee prefently is not to the extent that Mr Simpson and other authors who treat this problem have supposed.

For the fame realon, if a body be turning round any axis, and every particle in one inflant get an impulse precifely fuch as is competent to produce a given angular velocity round another axis, the body will turn round a third axis given in position, with a given angular velocity : for it is indifferent (as it is in the crdinary composition of motion) whether the forces act on a particle at once or in succession. The final motion is the same both in respect of direction and velocity.

Laftly, when a rigid body acquires a rotation round an axis by the action of an impulse on one part of it, and at the same time, or afterwards, gets an impulse on any part which, alone, would have produced a certain rotation round another axis, the effect of the combined actions will be a rotation round a third axis, in terms of this proposition; for when a rigid body acquires a motion round an axis, not by the limultaneous impulse of the precifely competent force on each particle, but by an impulse on one part, there has been propagated to every particle (by means of the connecting forces) an impulse precisely competent to produce the motion which the particle really acquires; and when a rigid body, already turning round an axis Aa (fig. 17.), receives an impulse which makes it actually turn round another axis Cc, there has been propagated to each particle a force precifely competent to produce, not the motion, but the change of motion which takes place in that particle, that is, a force which, when compounded with the inherent force of its primitive motion, produces the new motion; that is (by this theorem), a force which alone would have caused it to turn round a third axis Bb. with a rotation making the other conftituent of the actual rotation round Cc.

This must be considered as one of the most important 123 propositions in dynamics, and gives a great extension to the doctrine of the composition of motion. We see that rotations are compounded in the fame manner as other motions, and it is extremely easy to discover the conposition. We have only to suppose a sphere described round the centre of the body; and the equator of this fphere corresponding to any primitive position of the axis of rotation gives us the direction and velocity of the particles fituated in it. Let another great circle cut this equator in any point; it will be the equator of another rotation. Set off an arch of each from the





Retation: point of interlection, proportional to the angular velocity of each rotation, and complete the spherical parallelogram. The great circle, which is the diagonal of this parallelogram, will be the equator of the rotation, which is actually compounded of the other two.

And thus may any two rotations be compounded. We have given an instance of this in the folution of the

problem of the PHECESSION of the Equinoxes. It appears plainly in the demontration of this theorem that the axis Co is a new line in the body. The change of rotation is not accomplished by a transference of the poles and equator of the former rotation to a new fituation, in which they are again the poles and equator of the rotation; for we lee that in the rotation round the axis Ce, the particle of the body which was formerly the pole A is describing a circle round the axis Cc. Not knowing this composition of rotations, Newton, Walmeily, Simpson, and other celebrated mathematicians, imagined, that the axis of the earth's rotation remained the fame, but changed its position. In this they were confirmed by the conitancy of the observed latitudes of places on the furface of the earth. But the axis of the earth's rotation really changes its place, and the poles shift through different points of its surface; but these different points are too near each other to make the change fensible to the nicest observation.

126 Refrecting of the axis

It would feem to refult from these observations, that the polition it is impollible that the axis of rotation can change its position in absolute space without changing its position of totation, in the body, contrary to what we experience in a thoufand familiar initances; and indeed this is imposlible by any one change. We cannot by the impulse of any one force make a body which is turning round the axis A a change its position and turn round the same material axis brought into the position Cc. In the same way that a body must pass through a series of intermediate points, in going from one end of a line to the other, fo it must acquire an infinite feries of intermediate rotations (each of them momentary) before the fame material axis palles into another polition, fo as to become an axis of rotation. A momentary impulse may make a great change of the position of the axis of rotation, as it may make in the velocity of a rectilineal motion. Thus although the rotation round A a be indefinitely fmall, if another equally fmail rotation be innerested round an axis Bb perpendicular to Aa, the axis will at once shirt to Cc half way between them; but a succession of rotations is necessary for carrying the primitive material axis into a new polition, where it is again an axis. This transference, however, is possible, but, gradual, and must be accomplished by a continuation of impulies totally different from what we would at first fuppole. In order that A may pals from A to C, it is not enough that it gets an impulse in the direction AC. Such an impulse would carry it thither, if the body had not been whirling round A a by the mere perseverance or matter in its flate of motion; but when the body is already whirling round A a, the particles in the circle IP i are moving in the circumference of that circle; and fince that circle allo partakes of the motion given to A, every particle in it must be inceffantby deflected from the path in which it is moving. The continual agency of a force is therefore necessary for this purpose; and if this force be discontinued, the point LUT. BUEL TO BILL I

A will immediately out the plane of the arch AC, along Rotation, which we are endeavouring to move it, and will flart up.

This is the theorem which we formerly faid would enable us to overcome the difficulties in the inveftiga-

tion of the axis of rotation. Thus we can discover what Mr Landen calls the The eva-

evaga ions of the poles of rotation by the action of cen-cation of tritugal forces : For in fig. 16. the known velocity of relation by the bail A and the radius AC of its circle of rotation the action will give us the centrifugal force by which the balls of centrifutend to turn in the plane DAdBD. This gives the gal forces, axis Dd a tendency to move in a lane perpendicular to the plane of the figure; and its separation from the poles D and d does not depend on the separation of the connecting rod AB from its prefent inclination to Dd. but on the angle which the fpiral path of the ball makes with the plane of a circle of rotation round Dd. The distance of the new poles from D and d is an arch of a circle which measures the angle made by the spiral with the circle of rotation round the primitive axis. This will gradually increase, and the mathematical axis of rotation will be describing a foiral round D and d, gradually separating from these points, and again approaching them, and coinciding with them again, at the time that the balls themselves are most of all removed from their primitive fituation, namely, when A is in the place of B.

The fame theorem also enables us to find the inci- and the inpient axis of rotation in the complicated cases which opene axis are almost inaccessible by means of the elementary prin- in compli-

ciples of rotation.

Thus, when the centres of oscillation and percussion do not coincide, as we supposed in fig. 5, and 12. Suppole, first, that they do coincide, and find the polition of the axis ab, and the angular velocity of the rotation. Then find the centre of percufiion, the axis Pp, and the momentum round it, and the angular velocity which this momentum would produce. Thus we have obtained two rotations round given axes, and with given angular velocities. Compound their rotations by this . theorem, and we obtain the required polition of the true incipient axis of rotation, and the angular velocity, without the intricate process which would otherwise have been necess, rv.

If the hody is of fuch a Stape, that the forces in the plane DCG do not balance each other, we shall then discover a momentum round an axis perpendicular to this plane. Compound this rotation in the fame manner

with the rotation round Dd.

And from this simple view of the matter we learn polition of (what would be difficult to discover in the other way), the axis that when the centre of percusion does not coincide when the with that of rotation, the axis is in the plane DGC, centresof though not perpendicular to PG. But when there is and rota-a momentum round an axis perpendicular to this plane, too do not the incipient axis of rotation is neither perpendicular to coincide. PC, nor in a plane perpendicular to that passing through the centre in the direction of the impelling force.

We must centent ourselves with merely pointing out these tracks of invelligation to the curious reader, and recommending the cultivation of this most fruitful theo-

rem of Father Frisi.

Thele are by no means speculations of mere curiofity, Concluding interesting to none but mathematicions: the models are emarks on which camanahape Rotation which is practifed by man must receive great improvement from a complete knowledge of this fubiect. mean the art of SEAMANSHIP. A fhip, the most admirable of machines, must be confidered as a body in f ee ipace, impelled by the winds and waters, and continually moved round foontaneous axes of conversion, and inceffantly checked in these movements. The trimming of the fails, the action of the rudder, the very difuofition of the loading, all affect her verfatility. An experienced feaman knows by habit how to produce and facilitate these motions, and to check or slop such as are inconvenient. Experience, without any reflection or knowledge how and why, informs him what position of the rudder produces a deviation from the course. A fort of common fense tells him, that, in order to make the thip turn her head away from the wind, he must increase the surface or the obliquity of the head fails, and diminish the power of the fails near the ftern. A few other operations are dictated to him by this kind of common fenie; but few, even of old feamen, can tell why a thip has fuch a tendency to bring her head up in the wind, and why it is fo necessary to crowd the fore part of the thip with fails; fewer still know that a certain shifting of the loading will facilitate some motions in different cases; that the crew of a great thip running fuddenly to a particular place shall enable the thip to accomplish a movement in a fformy fea which could not be done otherwise; and perhaps not one in ten thousand can tell why this procedure will be successful. But the mathematical inquirer will fee all this; and it would be a most valuable acquisition to the public, to have a manual of fuch propositions, deduced from a careful and judicious confideration of the circumftances, and freed from that great complication and intricacy which only the learned can unravel, and expressed in a familiar manner, clothed with fuch reasoning as will be intelligible to the unlearned; and though not accurate, yet persuasive. Mr Bougner, in his Traité du Navire, and in his Manauvre des Vaiffeaux, has delivered a great deal of uleful information on this fubject; and Mr Bezout has made a very ufeful abstract of these works in his Cours de Mathematique. But the subject is left by them in a form far too abstruse to be of any general use: and it is unfortunately so combined with or founded on a false theory of the action and refistance of fluids, that many of the propositions are totally inconfillent with experience, and many maxims of feamanship are false. This has occasioned these doctrines to be neglected altogether. Few of our professional feamen have the preparatory knowledge necessary for improving the science; but it would be a work of immense utility, and would acquire great reputation to the person who successfully prosecutes it.

We shall mention under the article SEAMANSHIP the chief problems, and point out the mechanical principles

by which they may be folved.

ROTHERAM, a town in the west riding of Yorkshire, seated on the river Don, near which there is a handsome stone-bridge. It is a well-built place, and the market is large for provisions. W. Long. 1.

10. N. Lat. 53. 25.

ROTHS AY, a town in the ifle and county of Bute, in Scotland. It is the capital of the county, is a wellbuilt town of small houses, and is within these few years much improved. It has a good pier, and is feated at

the bottom of a fine bay, whose mouth lies exactly op- Rothsay posite to Loch Steven in Cowal. Here is a fine depth Retterdam, of water, a secure retreat, and a ready navigation down the frith for an export trade. Magazines of goods for foreign parts might be most advantageously erected here. The frinning of yarn has been long carried on in Rothfav, and lately the cotton manufacture has been introduced. The herring fithery has been also long a great source of trade in this place. W. Long. 5. 0. N. Lat. 55. 50.

Rothfay gives the title of duke to the prince of Scotland, a title which was formerly accompanied with fuitable revenues, powers, and privileges. Of the origin of this title the following account is given. Some time between the 16th of March and the 26th of October 1398, John of Gaunt, who is ftyled John duke of Aquitaine and Lancaster, uncle to the king of England, and David, who is ftyled earl of Carrick, eldett ion of the king of Scotland, met for the purpose of fettling the borders, and terminating all matters in dispute. At a fublequent interview between the fame parties, David is styled Duke of Rothfay, " This innovation, it is faid, probably proceeded on an idea, to which the interview of the two princes might naturally give rife, that it was unfuitable, and unworthy of the Scottish national dignity, that the princes of England should enjoy a title of nobility, which was esteemed to be of higher rank than that poffesfed by the hereditary prince of Scotland." In this way it is supposed the title of Duke was introduced into Scotland.

ROTTBOELLIA, a genus of plants belonging to

the triandria class. See BOTANY Index.

ROTONDO, or ROTUNDO, in Architecture, an appellation given to any building that is round both within and without; whether it be a church, a faloon, or the like. The most celebrated rotundo of the ancients is the pantheon at Rome. See PANTHEON.

ROTTEN-STONE, a mineral found in Derbyshire, and used by mechanics for all forts of finer grinding and polithing, and fometimes for cutting of stones. According to Ferber, it is a tripoli mixed with calcarcous

earth. ROTTENNESS. See PUTREFACTION.

ROTTERDAM, is a city in the province of Holland, in E. Long. 4. 20. N. Lat. 52. fituated on the north bank of the river Maese, about 37 miles south of Amsterdam, nine fouth-east of the Hague, and 15 to the eastward of Briel. It is a large and populous city, of a triangular figure, handsomely built of brick, the ffreets wide and well paved. There are ten gates to the town, fix of which are at the land fide and four at the fide of the Maefe. It is supposed to take its name from the Roter, or Rotter, a little river that falls into the canals of this city, and from Dawn, a dike. It is uncertain when it was first built; and though it is suppoled to be very ancient, yet we find no mention made of it before the 13th century. In the year 1270 it was furrounded with ramparts, and honoured with feveral privileges; but 27 years after it was taken by the Flem-In the year 1418, Brederode chief of the Hacks made himself master of it; since which time it has continued yearly to increase by means of the conveniency of its harbour. Its arms are vert, a pale argent, quar-terly in a chief on the first and third, or, a lion spotted fable, on the fecond and fourth a lion spotted gules.

Ratterdam is not reckoned one of the principal ci-

Holland,

its present flourishing condition. The Dutch call it the first of the second rank, whereas it ought to be efteemed the fecond of the first, being, next to Amsterdam, the most trading town in the United Provinces. Its port is very commodious; for the canals, which run through most parts of the town, bring the ships, some of 200 or 300 tons, up to the merchant's door; a conveniency for loading and unloading which is not to be found in other places. The great ships go up into the middle of the town by the canal into which the Maele enters by the old head, as it comes out by the new. A stranger, upon his first entering this place, is astonished at the beautiful confusion of chimneys intermixed with tops of trees with which the canals are planted. and streamers of vessels; infomuch that he can hardly tell whether it be fleet, city, or forest. The Harring Vliet is a very fine street; most of the houses are new, and built of hewn stone; but the grandest as well as most agreeable street in Rotterdam is the Bomb Quay. which lies parallel with the Maefe; on one fide it is open to the river, and the other is ornamented with a grand façade of the best houses in the city, inhabited chiefly by the English; they are five or fix stories high, maffy and very clumfy: wherever there is any attempt at ornament, it is the worst that can be conceived. One sees no Grecian architecture, except Doric entablatures, fluck upon the top of the upper flory, without pilasters; Ionic volutes, turned often the wrong way, and an attempt at Corinthian capitals, without any other part of the order. The doors are large, and fluck with great knobs and clumfy carving; you afcend to them, not in front, but by three or four steps going up on each fide, and you are affilted by iron rails of a most immense thickness. These houses are almost all window; and the window flutters and frames being painted green, the glass has all a green cast, which is helped by the reflection from the trees that overfliadow their houses, which, were it not for this circumstance. would be intolerably hot, from their vicinity to the canals. Most of the houses have looking-glasses placed on the outsides of the windows, on both fides, in order that they may fee every thing which passes up and down the freet. The flair-cases are narrow, fleep, and come down almost to the door. In general, the houses rife with enormous fleep roofs, turning the gable end to the fireet, and leaning confiderably forward, to that the top often projects near two feet beyond the perpendicular. The Bomb Quav is fo broad, that there are diffinet walks for carriages and foot-paffengers, lined and fhaded with a double row of trees .- You look over the river on some beautiful meadows, and a fine avenue of trees, which leads to the Pest-house: it feems to be an elegant building, and the trees round it are fo diffused as to appear a thick wood. This street is at least half a mile in length, and extends from the old to the new head, the two places where the water enters to fill the canals of this extensive city. When water runs

is spacious, and covered with ships at one end stands the English church, a next pretty building, of which the host of London is ordinary.

The part is much more frequented by the British

through a firect, it then affames the name of a canal,

the horses are of free-stone, and very lofty; the canal

merchants than Amsterdam, infomuch that, after a frost, Rotterdamwhen the fea is open, fometimes 300 fail of British veffels fail out of the harbour at once. There is always a large number of British subjects who reside in this town, and live much in the fame manner as in Great Britain. The reason of the great traffic between this place and England, is because the ships can generally load and unload, and return to England from Rotterdam, before a ship can get clear from Amsterdam and the Texel. Hence the English merchants find it cheaper and more commodious, after their goods are arrived at Rotterdam, to fend them in boats over the canals to Amsterdam. Another great advantage they have here for commerce is, that the Maefe is open, and the passage free from ice, much sooner in the foring than in the Y and Zuyder-fea, which lead to Amster-

The glafs-house here is one of the best in the seven provinces; it makes abundance of glafs-toys and enamelled bowls, which are sent to India, and exchanged for china-ware, and other oriental commodities.

The college of admiralty here is called the college of the Magfe, the chief of all Holland and the United Provinces. The lieutenant-general, admiral of Holland, is obliged to go on board of a Rotterdam thip in the Macfe when he goes to fea, and then he commands the foundron of the Macfe.

Os the eaft fide of the city there is a large bason and dock, where ship-carpenters are continually employed for the use of the admiralty, or of the East India company. But the largest ships belonging to the admiralty of lotterdam are kept at Helwoetluys, as the most commodious station, that place being situated on the ocean; for it requires both time and trouble to work a large ship from the dock of Rotterdam to the sea.

Rotterdam has four Datch churches for the effablifted religion. There is one thing very remarkable in refpect to the great church, that the tower which leaned on one fide was fet up firaight in the year 1053, as appears by the infeription engraced on brafs at the bottom of the tower withinfide. In the choir of this church are celebrated, with no fmail foleranity, the promotions made in the Latin fchools. Befides, there are two English churches, one for those of the church of England and the other for the Prebyterians; and one Scotch church; as likewise one Lutheran, two Arminian, two Ambapitif, four Roman Catholic chapels, and one Jewish fungaque.

Though the public buildings here are not to fately as those of Amsterdam and some other cities, yet there are several of them well worth seeing. The great church of St Laurence is a good old building, where are many stately monuments of their old admirals. From the top of this church one may see the Hague, Dulft, Leyden, Durt, and most of the towns of South Holland. There are several sine market places, as three fish markets, the great market, the new-market, and the hogs market. The stadthouse is an old building, but the chambers large and finely adorned. The magazines for fitting out their ships are very good structures. The exchange is a noble building, begun in the year 1725, and similar of 1736. Upon the great bridge in the market-place there is a fine brafs shaue exceled to the great Erashus, who was born in the city is 14567, and died at Eastlin Switzerland. He is a superscript of the second of the second

Retferdam fented in a furred gown, and a round cap, with a book in his hand. The flatue is on a pedestal of marble, furrounded with rails of iron. Just by, one may see the house where this great man was born, which is a very finall one, and has the following diffich written on the door:

> Midibus his ortus, mundum decoravit, Erofinus, Artibus, ingenio, religione, file.

Butterdam and the whole of the United Provinces are now in the possession of the French, and form nominally a feparate kingdom.

ROTULA, in Anatomy, the finall bone of the knee,

ralled also patella. See ANATOMY.
ROTUNDUS, in Anatomy, a name given to several muscles otherwise called teres.

ROUAD. See ARADUS.
ROUANE, or ROANE, an ancient and confiderable town in France, in Lower Forez, with the title of a duchy; fested on the river Loire, at the place where it begins to be navigable for boats. E. Long. 4.9. N. Lat.

ROUCOU, in Dyeing, the fame with ANOTTA and

BIXA. See DYEING.

ROUEN, a city of France, and capital of Normandy, had an archbishop's see, a parliament, a mint, a handfome college, an academy, two abbeys, and an old cast'e. It is seven miles in circumference, and surrounded with fix fuburbs; and contained before the revolution 35 parishes, and 24 convents for men and women. The metropolitan church has a very handfome front, on which are two lofty fleeples, whence there is a fine view of the town and country. The great bell is 13 feet high and 11 in diameter. The church of the Benedictine abbey is much admired by travellers. The parliament-house is adorned with beautiful tapeftry and fine pictures. There is a great number of sountains, though the houses are ordinary; but the walk upon the quay is very pleafant, and there are 13 gates from thence into the city. The number of the inhabitants is about 60,000, and they have feveral woollen manufactures. It is feated on the river Seine; and the tide rifes fo high, that veffels of 200 tons may come up to the quay : but one of the greatest curiosities is the bridge, of 270 paces in length, supported by boats, and confequently is higher or lower according to the tide. It is paved, and there are ways for footpaffengers on each fide, with benches to fit upon; and coaches may pals over it at any hour of the day or night. It is often called Roan by English historians; and is 50 miles fouth-west of Amiens, and 70 north-west of Paris.

Though large, and enriched by commerce, Rouen is not an elegant place. The streets are almost all narrow. crooked, and dirty; the buildings old and irregular. It was fortified by St Louis in 1253, but the walls are now demolished. The environs, more particularly the hills which overlook the Seine, are wonderfully agreeable, and covered with magnificent villas. E. Long. 1. 10.

N L. 19 25. ROVERE, or ROVEREDO, a flrong town of the Tyrul on the confines of the republic of Venice; feated on the raver A ige, at the foot of a mountain, and on the fide of a tree r, over which there is a bridge, defended by two large owers and a firong calle, so miles fouth of Trent. The town is tolerably well built; and Rovere governed by a chief magistrate, styled a podestat. There are feveral churches and convents, that contain nothing, worthy of notice. The most remarkable thing, and what they call the great wonder of Roveredo, is its fpinning house for a manufacture of filk, in which they have a great trade here to the fairs of Bolzano. They have also a very good trade in wine. Between Trent and Roveredo is the strong fort of Belem, belonging to the house of Austria. It is situated on a rock, and commands the roads at the foot of the mountain. E. Long.

ROUERGUE, a province of France, in the government of Guienne; bounded on the cast by the Cevennes and Gevaudan, on the west by Querci, on the north by the fame and Auvergne, and on the fouth by Languedoc. It is 75 miles in length, and 50 in breadth; not very fertile, but feeds a number of cattle, and has mines of copper, iron, alum, vitriol, and fulphur. 'It is divided into a county, and the upper and lower marche. It now forms the department of Aveiron,

Rhodez is the capital town.

ROVIGNO, a populous town of Italy, in Istria, with two good harbours, and quarries of fine stone. It is feated in a territory which produces excellent wine, in a peninfula on the western coast. E. Long 13. 53.

N. Lat. 45. 14.
ROVIGO, is a town of Italy, in the territory of Venice, and capital of the Polesin di Rovigo, in E. Long. 12. 25. N. Lat. 45. 6. It is a finall place, poorly inhabited, and encompassed with ruinous walls. Formerly it belonged to the dake of Ferrara, but has been fubject to the Venetians fince 1 500, and is famous for being the birth place of that learned man Colius Rhodoginus, It was built upon the ruins of Adria, anciently a noble harbour one mile from Rovigo, that gave name to the gulf, but now a half-drowned village, inhabited by a few fithermen.

ROUNDELAY, or Roundo, a fort of ancient poem, deriving its name, according to Menage, from its form, and because it still turns back again to the first verse, and thus goes round. The common roundelay confiss of 13 verses, eight of which are in one rhyme and five in another. It is divided into couplets; at the end of the second and third of which the beginning of the roundelay is repeated; and that, if possible, in an equivocal or punning fense. The roundelay is a popular poem in France, but is little known among us. Marot and Voiture have fucceeded the best in it. Rapin remarks, that if the roundelay be not very exquisite, it is intolerably bad. In all the ancient ones, Menage obferves, that the verse preceding has a less complete sense, and yet joins agreeably with that of the close without depending necessarily thereon. This rule, well observed, makes the roundelay more ingenious, and is one of the fineffes of the poem. Some of the ancient writers speak of the roundelay or roundel as a kind of air appropriated to dancing; and in this fense the term feems to indicate little more than dancing in a circle with the hands joined.

ROUND House, a kind of prison for the nightly watch in London to fecure diforderly persons till they can be carried before a magistrate.

Round-House, in a ship, the uppermost room or cabin on the flern of a fhip, where the mafter lies.

ROUNDS.

Rounds ROUNDS, in military matters, a detachment from fill a the main-guard, of an officer or a non-commissioned officer and fix men, who go round the rampart of a garrifon, to liften if any thing be flirring without the place, and to fee that the centinels be diligent upon their duty, and all in order. In first garrisons the rounds go every helf-hour. The centinels are to challenge at a distance, and to rest their arms as the round passes. All guards turn out, challenge, exchange the parole, and rest their arms, &c.

ROUNDS are ordinary and extraordinary. The ordinary rounds are three; the town-major's round, the

grand-round, and vifiting-round.

Manner of going the ROUNDS. When the town-mafor goes his round, he comes to the main-guard, and demands a ferjeant and four or fix men to efcort him to the next guard; and when it is dark, one of the men is to

carry a light.

As foon as the fentry at the guard perceives the round coming, he shall give notice to the guard, that they may be ready to turn out when ordered; and when the round is advanced within about 20 or 30 paces of the guard, he is to challenge brifkly; and when he is answered by the serjeant who attends the round, Town-major's round, he is to fay, Stand round! and rest his arms; after which he is to call out immediately, Serjeant, turn out the guard, town-major's round. Upon the fentry calling, the ferjeant is to turn out the guard immediately, drawing up the men in good order with shouldered arms, the officer placing himself at the head of it, with his arms in his hand. He then orders the ferjeant and four or fix men to advance towards the round, and challenge: the ferjeant of the round is to answer, Town-major's round; upon which the serjeant of the guard replies, Advance, ferjeant with the parole! at the same time ordering his men to rest their arms. The serjeant of the round advances alone, and gives the ferjeant of the guard the parole in his ear, that none else may hear it; during which period the ferjeant of the guard holds the spear of his halbert at the other's breast. The serjeant of the round then returns to his post, whilst the serjeant of the guard leaving his men to keep the round from advancing, gives the parole to his officer. This being found right, the officer orders his ferjeant to return to his men; fays, Advance, town-major's round! and orders the guard to rest their arms; upon which the serjeant of the guard orders his men to wheel back from the centre, and form a lane, through which the townmajor is to pals (the efcort remaining where they were), and go up to the officer and give him the parole, laying his mouth to his ear. The officer bolds the spear of his esponton at the town-major's breast while he gives him the parole.

The defign of rounds is not only to visit the guards, and keep the centinels alert; but likewise to discover

what passes in the outworks, and beyond them.

ROUSSILLON, a province of France, in the Pyrenecs, bounded on the east by the Mediterranean sea, on the west by Cerdagne, on the north by Lower Languedoc, and on the fouth by Catalonia, from which it is separated by the Pyrenees. It is a fertile country, about 50 miles in length, and 25 in breadth, and remarkable for its great number of olive-trees. Perpignan is the capital town.

Vol. XVIII. Part I.

ROUSSEAU, JAMES, an eminent painter, was born Rouffeau at Paris in the year 1630, and studied first under Swanevelt, who had married one of his relations; after which he improved himself by travelling into Italy, practifing folely in perspective, architecture, and landscape. On his return home, he was employed at Marly. He diftinguished himself very much in painting buildings, and by his knowledge of, and attention to the principles of perspective. Louis XIV. employed him to decorate his hall of devices at St Germaine en-Laie, where he represented the operas of Lulli. But being a Protestant, he quitted France on the persecution of his brethren, and retired to Swifferland. Louis invited him back; he refused, but fent his designs, and recommended a proper person to execute them. After a short stay in Swifferland, he went to Holland; whence he was invited to England by Ralph duke of Montague, to adorn his new house in Bloomsbury, where he painted much. Some of his pictures, both in landscape and architecture, are over doors at Hamptoncourt; and he etched fome of his own defigns. His perspectives having been most commonly applied to decorate courts or gardens, have fuffered much from the weather. them as remain are monuments of an excellent genius. The colours are durable and bright, and the choice of them most judicious. He died in Soho-fquare.

about the year 1693, aged 63.

ROUSSEAU, John Bapiift, a celebrated French poet, was born at Paris, in April 1671. His father, who was a shoemaker in good circumstances, made him fludy in the best colleges of Paris, where he distinguished himself by his abilities. He at length applied himfelf entirely to poetry, and foon made himfelf known by feveral short pieces, that were filled with lively and agreeable images, which made him fought for by perfons of the first rank, and men of the brightest genius. He was admitted in quality of eleve, or pupil, into the academy of Inscriptions and Belles Lettres, in 1701, and almost all the rest of his life attached himself to fome great men. He attended Marshal Tallard into England, in quality of secretary, and here contracted a friendship with St Evremond. At his return to Paris, he was admitted into the politest company, lived among the courtiers, and feemed perfectly fatisfied with his fituation; when, in 1708, he was profecuted for being the author of fome couplets, in which the characters of several persons of wit and merit were blackened by the most atrocious calumnies. This profecution made much noise; and Rousseau was banished in 1712 out of the kingdom, to which he was never more to return, by a decree of the parliament of Paris, However, he always fleadily denied, and even on his death-bed, his being the author of these couplets.— From the date of this sentence he lived in foreign countries, where he found illustrious protectors. The count de Luc, ambassador of France, in Swifferland, took him into his family, and studied to render his life agreeable. He took him with him to the treaty of Baden in 1714, where he was one of the plenipotentiaries, and prefented him to Prince Eugene, who entertaining a particular effect for him, took him to Vienna, and introduced him to the emperor's court. Rouffeau lived about three years with Prince Eugene; but having loft to the court of his favour by fatirifing one of his mistresses, he retired a Profile, where he afterwards usually refided, and where Rouffeau, he met with much attention and much generofity, as we of it, by which unfortunate event Rouffeau, when ar Rouffeau fhall foon mention.- It was there that his disputes with Voltaire commenced, with whom he had become acquainted at the college of Louis the Great, who then much admired his turn for poetry. At that time Voltaire affidnously cultivated the acquaintance of Rousieau, and made him a prefent of all his works; and Rouffeau, fixttered by his respect, announced him as a man who would one day be a glory to the age. The author of the Henriade continued to confult him about his productions, and to lavish on him the highest encomiums, while their friendship daily increased. When they again met at Bruffels, however, they harboured the blackeft malice, against one another. The cause of this enmity, as Rouffeau and his friends tell the flory, was a lecture which he had composed from his Epistle to Julia, now Urania. This piece frightened Voltaire, as it plainly discovered his rage against him. The young man, vexed at these calumnies, understood the whole as thrown out against him. This is what Rousseau afferts. But his adversaries, and the friends of the poet whom he eried down, suspected him, perhaps rather rashly, of having employed farcalms, because he thought that his own reputation was in danger of being eclipfed by that of his rival. What is very fingular, thefe two celebrated characters endeavoured each of them to prepoffeis the public with a bad opinion of the other, which they themicives never entertained in reality, and to imother in their breast that esteem for each other which, in defiance of all their exertions, fill beld its place. Rouffean, from the period of this diffoute, always reprefented Voltaire as a buffoon, as a writer pofferling neither tafte nor judgement, who owed all his fucces to a particular mode which he purfued. As a poet he confidered him as inferior to Lucan, and little fuperior to Pradon. Voltaire treated him flill worfe. Routleau. according to him, was nothing better than a plagiaritt, who could make thift to rhime, but could not make any reflections; that he had nothing but the talent of arranging words, and that he had even loll that in foreign countries. He thus addresses him, in a piece little known.

> Aussitôt le Dieu qui m'inspire T'arracha le luth et la lyre Qu'avoient désbonorés tes mains; Tu n'es plus qu'un reptile immonde, Rebut du Parnasse et du monde Enféveli dans tes venins.

In consequence of the little esteem in which Rousseau was held at Bruffels, he could never forget Paris. The grand-prior of Vendome, and the baron de Breteuil, folicited the regent duke of Orleans to allow him to return : which favour was obtained. But our poet, before he would make use of the lettres de rapel iffued in his favour, demanded a review of his process, which he wished to be repealed, not as a matter of favour, but by a folemn judgement of court; but his petition was refused. He then came over, in 1721 to England, where he printed A Collection of his Works, in 2 vols 12mo, at Lordon. This edition, published in 1723, brought him near 10,000 crowns, the whole of which he placed in the hands of the Oftend company. The affairs of this company, however, foon getting into confusion, all those who had any money in their hands lost the whole

rived at that age when he flood most in need of the comforts of fortune, had nothing to depend upon but the generofity of iome friends. Boutet, public notary in Paris, was peculiarly generous and attentive to him. He found a still greater asylum in the linke d'Aremberg, whose table was open to him at all times; who being obliged in 1733 to go into the army in Germany, fettled on him a pension of 1 500 livres. But unfortunately he foon loft his good opinion, having been intprudent enough to publish in a journal (of which Voltaire accused him), that the duke d'Aremberg was the author of those verses for which he himself had been banished France. He was therefore dismissed from his table, and his pride would not allow him to accept of the pension after this rupture. Brustels now became insupportable to him; and the count de Luc, and M. de Senozan, receiver-general of the church revenue, being informed of his disappointments, invited him to come privately to Paris, in the hopes of procuring a diminution of the period of his banishment. Some time previous to this Rouffeau had published two new letters; one to P. Brumoy, on tragedy; the other to Rollin, on history. It is faid, he expected from his letter to Brumoy to get the favour of all the Jeluis; and from the one to Rollin, the patronage of the Janfenilis. He had likewife written an Ode, in praife of Cardinal de Fleury, on Peace, which met with a favourable reception, although it was not equal to fome of his former pieces. He imagined his return to Paris would be found no difficult matter. He attempted it, and found he could not obtain a pais for a fingle year. Some fav, that Roulleau had irritated fome persons in power, by an allegory, called The Judgement of I into; in which piece he deferibes one of the principal judges, whole ikin Pluto had canfed to be taken off and firetched out on the feat in the bench. This fatire, joined to the fecret machinations of chemies, rendered all the attempts of his friends to procure his return abortive. After having staid three months at Paris, he returned to Bruffels in February 1740, at which place he died March 17, 1741, ftrongly impressed with religious lentiments. Immediately before he received the viaticum, he protested he was not the author of those horrid vertes which had so much embittered his life; and this deelaration, in the opinion of the virtuous part of mankind, will be confidered as a sufficient proof of his innecence. Some have faid that Rouffeau was profane, troublefome, capricious, forward, vindictive, envious, a flatterer, and a fatirist. Others again represent him as a man full of candour and openness, a faithful and grateful friend, and as a Christian affected with a sense of religion .-Amidst fuch widely varied accounts it is difficult to form an opinion of his character. Such of our readers as wish to know more of this great poet may consult the Dictionary of M. Chaupepie, written with as much precision as impariality, who endeavours to give a just idea of his character. From what he fays, it does not appear that Rousseau can be cleared from the accusation brought against him of having attacked his benefactors. We believe he may be much more easily freed from the imputation brought against him by some of having difewhed his father; for what decaffon had Rouffeau to conceal the obscurity of his! birth? It exalted is own merit, In 6% o . 108

Roulleau. 7 M. Seguy, in concert with M. the prince of la Tour Tallis, has given a very beautiful edition of his works, agreeable to the poet's last corrections. It was published in 1743, at Paris, in 3 vels. 4to, and in 4 vols. 12mo, containing nothing but what was acknowledged by the anthor as his own. It contains, 1. Four Books of Odes, of which the first are facred odes, taken from the Pialms. " Rouffeau (fays Ferron) unites in himfelf Pindar, Horace, Anacreon, and Malherbe. What fire, what genius, what flights of imagination, what rapidity of description, what variety of affecting frokes, what a crowd of brilliant comparisons, what richnels of r'ivmes, what happy verification; but especially what inimitable expression! His verses are finished in the highest style of perfection that French verse is capable of "fluming." The lyric compositions of Rousfeau are, in general, above mediocri'y. All his odes are not, however, of equal merit. The most beautiful are those which he has addressed to count de Luc, to Malherbe, to Prince Eugene, to Vendôme, to the Chriftian princes; his Odes on the death of the prince de Conti, on the battle of Peterwaradin; and the Ode to Fortune, although there are certainly some few weak flanzas to be met with in it. There is confiderable neatness in the composition of the Ode to a Widow, in his tlanzas to the Abbé de Chaulien, in his addresses to Roffignol, in his Odes to count de Bonneval, to M. Duche, and to count de Sinzindorf; and it is to be lamented that he wrote fo few pieces of this kind, from which his genius feemed to lead him with difficulty. 2. Two Books of Epities, in verse. Although these do not want their beauties, yet there prevails too much of a mifanthropic spirit in them, which takes away greatly from their excellence. He makes too frequent mention of his enemies and his misfortunes; he displays those principles which are supported less on the basis of truth than on those various passions which ruled his mind at the time. He puts forth his anger in paradoxes. If he be reckoned equal to Horace in his odes, he is far inferior in his epiftles. There is much more philosophy in the Roman poet than in him. 3. Cantatas. He is the father of this fpecies of poetry, in which he stands unrivalled. His pieces of this fort breathe that poetical expression, that picturefque style, those happy turns, and those easy graces, which constitute the true character of this kind of writing. He is as lively and impetuous as he is mild and affecting, adapting himfelf to the passions of those persons whom he makes to speak. " I confess (fays M. de la Harpe) that I find the cantatas of Rouffeau more purely lyric than his odes, although he rifes to greater heights in thefe. I fee nothing in his cantatas but bold and agreeable images. He always addresses himfelf to the imagination, and he never becomes either too verbole or too prolix. On the contrary, in fome of the best of his odes, we find some languishing franzas, ideas too long delayed, and veries of inexculable meannefs." 4. Allegories, the most of which are happy, but some of them appear forced. 5. Epigrams, after the manner of Martial and Marot. He has taken care to leave out of this edition those pieces which licentionfinels and debauchery inspired. They bear, indeed, as well as his other pieces, the marks of genius; but fuch productions are calculated only to diffeonour their authors, and corrupt the heart of those who read them. s. A Book of Poems on Various Subjects, which fometimes want both eafe and delicacy. The Rouffean mult diffinguished are two ellogues, imitated from Virgil. 6. Four comedics in verle; the Fiatterer, whole character is well tapported; the Imaginary Forefathers, a piece which had much lefs fuccefs, although it affords fushciently good fentiment; the Capricious Man, and the Dupe of Herfelf, pieces of very inconfiderable merit. 7. Three comedies in profe; the Coffee houfe, the Ma-gie Girdle, and the Madragore, which are little better than his other theatrical pieces. The theatre was by no means his forte; he had a genius more fuited for fatire than comedy, more akin to Boileau's than Mo-liere's. 8. A Collection of Letters, in profe. In this edition he has felected the most interesting - There is a larger collection in 5 volumes. This last has done at the same time both injury and honour to his memory. Rouffeau in it speaks both in favour of and against the very fame persons. He appears too hasty in tearing to pieces the characters of thole who displease him. We behold in them a man of a fleady character and an elevated mind, who wishes to return to his native country only that he might be enabled completely to justify his reputation. We see him again corresponding with perfons of great merit and uncommon integrity, with the Abbé d'Olivet, Racine the son, the poets La Fosse and Duche, the celebrated Rollin, M. le Franc de Pompignan, &c. &c. We meet also with some anecdotes and exact judgements of teveral writers. A bookfeller in Holland has published his port-folio, which does him no honour. There are, indeed, fome pieces in this wretched collection which did come from the pen of Rouffeau; but he is less to be blamed for them than they are who have drawn these works from that oblivion to which our great poet had configued them. A pretty good edition of his Select Pieces appeared at Paris in 1741, in a finall 12mo volume. His portrait, engraved by the celebrated Aved, his old friend, made its appearance in 1778, with the following motto from Martial .:

## Certior in nostro carmine vultus erit.

ROUSSEAU, John-James, was born at Geneva, June 28. 1712. His father was by profession a clock and watch maker. At his birth, which, he fays, was the first of his missortunes, he endangered the life of his mother, and he himfelf was for a long time after in a very weak and languishing state of health; but as his bodily strength increased, his mental powers gradually opened, and afforded the happiest prefages of future greatness. His father, who was a citizen of Geneva, was a well-informed tradefman; and in the place where he wrought he kept a Plutarch and a Tacitus, and these authors of course foon became familiar to his fon. A rafit juvenile step occasioned his leaving his father's house. " Finding himself a sugitive, in a strange country, and without money or friends, he changed (fays he himself) his religion, in order to procure a sublishence." Bornex, bishop of Anneci, from whom he fought an afylum, committed the care of his education to Madame de Warrens, an ingenious and amiable lady, who had in 1726 left part of her wealth, and the Proteslant religion, in order to throw herfelf into the bosom of the church. This generous lady ferved in the triple capacity of a mother, a friend, and a lover, to the new profelyte, whom the regarded as her fon. The necessity of procuring for himself

· He possessed more than ordinary talents for music; and the Abbé Blanchard flattered his hopes with a place in the royal chapel, which he, however, failed in obtaining for him; he was therefore under the necessity of teaching music at Chamberi. He remained in this place till 1741, in which year he went to Paris, where he was long in very destitute circumstances. Writing to a friend in 1743, he thus expresses himself: " Every thing is dear here, but especially bread." What an expression; and to what may not genius be reduced! Meanwhile he now began to emerge from that obscurity in which he had hitherto been buried. His friends placed him with M. de Montaigne, ambassador from France to Venice. According to his own confession, a proud milanthropy and a peculiar contempt of the riches and pleasures of this world, constituted the chief traits in his character, and a mifunderstarding foon took place between him and the ambaffador. The place of depute, under M. Dupin, farmer-general, a man of confiderable parts, gave him fome temporary relief, and enabled him to be of some benefit to Madame de Warrens his former benefactress. The year 1750 was the commencement of his literary career. The academy of Dijon had proposed the following question: " Whether the revival of the arts and sciences has contributed to the refinement of manners?" Rouffeau at first inclined to support the affirmative. " This is the pons afinorum (fays a philosopher, at that time a friend of his), take the negative fide of the question, and I'll promise you the greatest fuccels."

His discourse against the sciences, accordingly, having been found to be the best written, and replete with the deepest reasoning, was publicly crowned with the approbation of that learned body. Never was a paradox supported with more eloquence: it was not however a new one; but he enriched it with all the advantages which either knowledge or genius could confer on it. Immediately after its appearance, he met with feveral opponents of his tenets, which he defended; and from one dispute to another, he found himfelf involved in a formidable train of correspondence, without having ever almost dreamed of such opposition. From that period he decreased in happiness as he increafed in celebrity. His " Discourse on the Causes of Inequality among Mankind, and on the Origin of Social Compacts," a work full of almost unintelligible maxims and wild ideas, was written with a view to prove that mankind are equal; that they were born to live apart from each other; and that they have perverted the order of nature in forming focieties. He bestows the highest praise on the state of nature, and deprecates the idea of every focial compact. This discourse, and especially the dedication of it to the republic of Geneva, are the chef-d'œuvres of that kind of eloquence of which the ancients alone had given us any idea. By presenting this performance to the magistrates, he was received again into his native country, and reinstated in all the privileges and rights of a citizen, after having with much difficulty prevailed on himself to abjure the Catholic religion. He foon, however, returned to France, and lived for some time in Paris. He afterwards gave himself up to retirement, to escape the shafts of criticism,

and follow after the regimen which the ftrangury, with Rouffeauwhich he was tormented, demanded of him. This is an important epoch in the history of his life, as it is owing to this circumstance, perhaps, that we have the most elegant works that have come from his pen. His " Letter to M. d'Alembert" on the defign of erecting a theatre at Geneva, written in his retirement, and publithed in 1757, contains, along with fome paradoxes, fome very important and well-handled truths. This letter first drew down upon him the envy of Voltaire, and was the cause of those indignities with which that author never ceased to load him. What is fingular in him, is, that although fo great an enemy to theatrical representations himfelf, he caused a comedy to be printed, and in 1752 gave to the theatre a pastoral (The Village Conjuror), of which he composed both the poetry and music, both of them abounding with fentiment and elegance, and full of innocent and rural fimplicity. What renders the Village Conjuror highly delightful to perfons of taile, is that perfect harmony of words and musicwhich everywhere pervades it; that proper connection among the parties who compose it; and its being perfeetly correct from beginning to end. The mufician hath spoken, hath thought, and felt like a poet. Every thing in it is agreeable, interesting, and far superior to those common affected and insipid productions of our modern petit-dramas. His Dictionary of Music affords feveral excellent articles; fome of them, however, are very inaccurate. " This work (fays M. la Borde), in his Essay on Music, has need to be writen over again, to fave much trouble to those who wish to study it, and prevent them from falling into errors, which it is difficult to avoid, from the engaging manner in which Rouffeau drags along his readers." The paffages in it which have any reference to literature may be eafily distinguished, as they are treated with the agreeableness of a man of wit and the exactness of a man of taste. Rouffean, foon after the rapid fuccefs of his Village Conjuror, published a Letter on French Music, or rather against French Music, written with as much freedom as livelinefs. The exasperated partisans of French comedy treated him with as much fury as if he had conspired against the state. A crowd of infignificant enthusiasls fpent their strength in outcries against him. He was infulted, menaced, and lampooned. Harmonic fanaticifm went even to hang him up in effigy

That interesting and tender style, which is so conspicuous throughout the Village Conjuror, animates feveral letters in the New Heloifa, in fix parts, published 1761, in 12mo. This epistolary romance, of which the plot is ill-managed, and the arrangement bad, like all other works of genius, has its beauties as well as its faults. More truth in his characters and more precision in his details were to have been wished. The characters, as well as their style, have too much fameness, and their language is too affected and exaggerated. Some of the letters are indeed admirable, from the force and warmth of expression, from an effervescence of sentiments, from the irregularity of ideas which always characterife a passion carried to its height. But why is so affecting a letter fo often accompanied with an unimportant digreffion, an infipid criticism, or a self-contradict. ing paradox? Why, after baving shone in all the energy of fentiment, does he on a sudden turn unaffecting? It is because none of the personages are truly interesting.

That.

Rouffeair. That of St Preux is weak, and often forced. Julia is an affemblage of tenderness and pity, of elevation of foul and of coquetry, of natural parts and pedantry. Wolmar is a violent man, and almost beyond the limits of nature. In fine, when he wishes to change his style, and adopt that of the speaker, it may easily be observed that he does not long support it, and every attempt embarraffes the author and cools the reader. In the Heloifa, Rouffeau's unlucky talent of rendering every thing problematical, appears very conspicuous; as in his arguments in favour of and against duelling, which afford an apology for fuicide, and a just condemnation of it : in his facility in palliating the crime of adultery, and his very firong reasons to make it abhorred: on the one hand, in declamations against focial happiness; on the other, in transports in favour of humanity : here, in violent rhapfodies against philosophers; there, by a rage for adopting their opinions: the existence of God attacked by forhiftry, and Atheifts confuted by the most irrefragable arguments; the Christian religion combated by the most specious objections, and celebrated with the

most sublime eulogies.

His Emilius afterwards made more noise than the new Heloifa. This moral romance, which was published in 1762, in four vols 12mo, treats chiefly of education. Rouffeau wished to follow nature in every thing; and though his fystem in several places differs from received ideas, it deferves in many respects to be put in practice, and with some necessary modifications it has been fo. His precepts are expressed with the force and dignity of a mind full of the leading truths of morality. If he has not always been virtuous, no body at least has felt it more, or made it appear to more advantage. Every thing which he fays against luxury shows the vices and conceited opinions of his age, and is worthy at once of Plato or of Tacitus. His style is peculiar to himself. He sometimes, however, appears, by a kind of affected rudeness and asperity, to ape at the mode of Montaigne, of whom he is a great admirer, and whose sentiments and expressions he often clothes in a new drefs. What is most to be lamented is, that in wishing to educate a young man as a Chriftian, he has filled his third volume with objections against Christianity. He has, it must be confessed, given a very fublime eulogium on the gospel, and an affecting portrait of its divine Author: but the miracles and the prophecies, which ferve to establish his mission, he attacks without the least referve. Admitting only natural religion, he weighs every thing in the balance of reason; and this reason being false, leads him into dilemmas very unfavourable to his own repose

He dwelt from 1754 in a fmall house in the country near Montmorenci; a retreat which he owed to the generofity of a farmer-general. The cause of his love for this retirement was, according to himfelf, " that invincible fpirit of liberty which nothing could conquer, and in competition with which honours, fortune, and reputation, could not fland. It is true, this defire of liberty has occasioned less pride than laziness; but this indo-lence is inconceivable. Every thing startles it; the most inconsiderable reciprocalities of social life are to it insupportable. A word to speak, a letter to write, a wifit to pay, things necessary to be done, are to me punithments! Hear my reasons. Although the ordinary

intercourse between mankind be odious to me, intimate Rousseau. friendthip appears to me very dear; because there are no mere ceremonies due to it; it agrees with the heart, and all is accomplished. Hear, again, why I have always shunned kindnesses so much; because every act of kindness requires a grateful mind, and I find my heart ungrateful, from this alone, that gratitude is a duty. Lastly, that kind of felicity which is necessary for me, is not fo much to do that which I with, as not to do what I with not to do." Rousseau epioyed this felicity which he so much withed in his retirement. Without entirely adopting that too rigorous mode of life purfued by the ancient Cynics, he deprived himfelf of every thing that could in any measure add fuel to this wished-for luxury, which is ever the companion of riches, and which inverts even custom itself. He might have been happy in this retreat, if he could have forgot this public which he affected to despife; but his defire after a great name got the better of his felf-love, and it was this thirst after reputation which made him introduce fo many danger-

ous paragraphs in his Emilia.

The French parliament condemned this book in 1762, and entered into a criminal profecution against the author, which forced him to make a precipitate retreat. He directed his fleps towards his native country, which that its gates upon him. Proferibed in the place where he first drew breath, he sought an asylum in Switzerland, and found one in the principality of Neufchatel. His first care was to defend his Emilia against the mandate of the archbishop of Paris, by whom it had been anathematised. In 1763 he published a letter, in which he re-exhibits all his errors, fet off with the most animated display of eloquence, and in the most insidious manner. In this letter he describes himself as " more vehement than celebrated in his refearches, but fincere on the whole, even against himself; simple and good, but fenfible and weak; often doing evil, and always loving good; united by friendship, never by circumstances, and keeping more to his opinions than to his interests; requiring nothing of men, and not withing to be under any obligation to them; yielding no more to their prejudices than to their will, and preferving his own as free as his reason; disputing about religion without licentiousness; loving neither impiety nor fanaticism, but difliking precise people more than bold spirits," &c. From this specimen, the limitations he would appoint to this portrait may eafily be discovered.

The letters of La Montaigne appeared foon after; but this work, far less cloquent, and full of envious discustions on the magillrates and clergy of Geneva, irritated the Protestant ministers without effecting a reconciliation with the clergy of the Romish church. Rousfeau had folemnly abjured the latter religion in 1753, and, what is fomewhat strange, had then resolved to live in France, a Catholic country. The Protestant clergy were not fully reconciled by this change; and the protection of the king of Pruffia, to whom the principality of Neufchatel belonged, was not sufficient to rescue him from that obloquy which the minister of Moutiers-Travers, the village to which he had retired, had excited against him. He preached against Rousseau, and his fermons produced an uproar among the people. On the night between the 6th and 7th September 176; fome fanatics, drove on by wine and the declamations of their minister, threw some stones at the windows of RouTean, the Genevan philosopher, who fearing new infults, in vain lought an a'ylum in the canton of Berne. As this canton was connected with the republic of Geneva, they did not think proper to allow him to remain in their city, being proferibed by that republic. Neither his broken state of health, nor the approach of winter, could foften the hearts of those obdurate Spartans. In vain, to prevent them from the fear they had of the fpreading of his opinions, did he befeech them to that him up in prison till the spring; for even this savour was denied him. Obliged to fet out on a journey, in the beginning of a very inclement feason, he reached Strasbourg in a very destitute situation. He received from Marshal de Contades, who then commanded in that place, every accommodation which could be expected from generofity, humanity, and compassion. He waited there till the weather was milder, when he went to Paris, where Mr Hume then was, who determined on taking him with him to England. After having made fome stay in Paris, Rousseau actually set out for London in 1766. Hume, much affected with his fituation and his misfortunes, procured for him a very agreeable fettlement in the country. Our Genevan philosopher was not, however, long fatisfied with this new place. He did not make fuch an impression on the minds of the English as he had done on the French. His free disposition, his obdurate and melancholy temper, was deemed no fingularity in England. He was there looked upon as an ordinary man, and the periodical prints were filled with fatires against him. In particular, they published a forged letter from the king of Pruffia, holding up to ridicule the principles and conduct of this new Diogenes. Rouffeau imagined there was a plot between Hume and some philosophers in France to destroy his glory and repose. He sent a letter to him, filled with the most abusive expressions, and reproaching him for his conduct towards him. From this time he looked upon Hame as a wicked and perfidious perfon, who had brought him to England with no other view than to expole him to public ridicule; which foolith and chimerical idea was nourished by felf-love and a reftless disposition. He imagined that the English philosopher, amidst all his kindnesses, had something disagreeable in the manner of expressing them. The bad health of Rousfeau, a strong and melancholy imagination, a too nice fenfibility, a jealous disposition, joined with philosophic vanity, cherished by the false informations of his governefs, who poffeffed an uncommon power over him; all these taken together, might tend to preposses him with unfavourable fentiments of fome innocent freedoms his benefactor might have taken with him, and might render him ungrateful, which he thought himfelf incapable of becoming. Meanwhile, these false conjectures and probabilities ought never to have had the weight with an honest mind to withdraw itself from its friend and benefactor. Proofs are always necessary in cases of this kind; and that which Rouffeau had was by no means a certain demonstration. The Genevan philosopher, however certainly returned to France. In passing through Amiens, he met with M. Greffet, who interrogated him about his misfortunes and the controversies he had been engaged in. He only answered, "You have got the ar of making a parent speak; but you are not vet poffelled of the fecret of making a hear speak." In the mean time, the magistrates of this city wished to confer

refused. His disordered innovination viewed these flattering civilities as nothing elle than infults, fuch as were lavished on Sancho in the ithord of Barataria. He thought one part of the people looked upon him as like Lazarille of Tormes, who, being fixed to the bottom of a tub, with only his head out of the water, was carried from one town to another to amufe the vulgar, But these wrong and whimsical ideas did not prevent him from afpiring after a refidence in Paris, where, without doubt, he was more looked on as a speciacle than in any other place whatever. On the 1ft July 1770, Rousieau appeared, for the first time, at the regency coffee-house, dreffed in ordinary clothing, having for tome time previous to this wore an Armenian habit. He was loaded with praises by the furrounding multitude. " It is fomewhat fingular (fays M. Sennebier) to fee a man fo haughty as he returning to the very place from whence he had been banished so often. Nor is it one of the fmallest inconsistencies of this extraordinary character, that he preferred a retreat in that place of which he had spoken so much ill." It is as singular that a perfon under sentence of imprisonment thould with to live in fo public a manner in the very place where his fen-tence was in force against him. His friends procured for him, however, liberty of staying, on condition that he should neither write on religion nor politics : he kept his word; for he wrote none at all. He was contented with living in a calm philosophical manner, giving himfelf to the fociety of a few tried friends, thunning the company of the great, appearing to have given up all his whimfies, and affecting neither the character of a philosopher nor a bel esprit. He died of an apoplexy at Ermenonville, belonging to the marquis de Girardin, about ten leagues from Paris, July 2, 1778, aged 66 years. This nobleman has crected to his memory a very plain monument, in a grove of poplars, which conflitutes part of his beautiful gardens. On the tomb are inferibed the following epitaphs:

> Lei repofe L'Homme de la Nature Et de la Verité! Vitam impendere Vero \*. Hie jacent Offa J. J. Rouffeau.

\* His mer-

The curious who go to fee this tomb likewife fee the cloak which the Genevan philosopher wore. Above the door is infcribed the following fentence, which might afford matter for a whole book: " He is truly free, who, to accomplish his pleasure, has no need of the affiftance of a second perfor." Rouffeau, during his flay in the environs of Lyons, married Mademoifelle le Vaffeur, his governess, a woman who, without either beauty or talents, had gained over him a great ascendancy. She waited on him in health and in fickness: But as if the had been jeulous of poffetting him alone, the drove from his mind, by the most perfidious infinuations, all those who came to entertain him; and when Rouffeau did not difmifs them, the prevented their return by invariably refusing them admittance. By these means the the more easily led her husband into inconfiftencies of conduct, which the originality of his character as well as of his opinions fo much contributed to uffult. Nature had perhaps but given him the em-

Rouffean, bryo of his character, and art had probably united to make it more fingular. He did not incline to affociate with any person; and as this method of thinking and living was uncommon, it procured him a name, and he displayed a kind of fantal icalicals in his behaviour and his writings. Like Diegenes of oid, he united simplicity of manners with all the pride of genius; and a large stock of ind slence, with an extreme lentitility, ferved to render his character still more uncommon. " An indolent mind ( lays he), terrified at every application, a warm, bilious, and irritable temperament, fentible also in a high degree to every thing that can affect it, appear not possible to be united in the same person : and yet thele two contrarieties compole the chief of mine. An active life has no charms for me. I would an hundred times rather confent to be jule than to do any thing against my will; and I have an hundred times thought that I would live not amifs in the Baffile, provided I had nothing to do but just continue there. In my younger days I made leveral attempts to get in there; but as they were only with the view of procuring a refage and relt in my old age, and, like the exertions of an indolent person, only by fits and flarts, they were never attended with the smallest success. When milfortunes came, they afforded me a pretext of giving myself up to my r. ling passion." He often exagg rated his missortunes to himself as well as to others. He endeavoured particularly to render interesting by his defoription his misfortunes and his poverty, although the former were far less than he imagined, and notwithstanding he had certain resources against the latter. In other respects he was charitable, generous, sober, just, contenting himfelt with what was purely necessary, and reading the means which might have procured him wealth and offices. He cannot, like many other for phility be accuded of having often repeated with a fludied emphasis the word Virtue, without inspiring the fentiment. When he is speaking of the duties of mankind, of the principles necessary to our happiness, of the duty we owe to ourselves and to our equals, it is with a copiousness, a charm, and an impetuosity, that could only proceed from the heart. He faid one day to M. de Buffon, "You have afferted and proved before J. J. Rousseau, that mothers ought to fuckle their children." "Yes (fays this great naturalist), we have all faid so; but M. Rousseau alone forbids it, and causes himfelf to be obeyed." Another academician faid, " that the virtues of Voltaire were without heart, and those of Rouffeau without head." He was acquainted at an early age with the works of the Greek and Roman authors; and the republican virtues there held forth to view, the rigorous austerity of Cato, Brutus, &c. carried him beyond the limits of a simple estimation of them. Influenced by his imagination, he admired every thing in the ancients, and faw nothing in his contemporaries but enervated minds and degenerated bo-

> His ideas about politics were almost as ecceptric as his paradoxes about religion. Some reckon his Social Compact, which Voltaire calls the Unfocial Compact, the greatest effort his genius produced. Others find it full of contradictions, errors, and cynical passages, obscure, ill arranged, and by no means worthy of his flining pen. There are feveral other fmall pieces wrote by him, to be found in a collection of his works published

in 25 vols 2vo and 12mo, to which there is appended Rouffest. a very imagnificant supplement in G vols.

The most uleful and most important truths in this collection are picked out in his Troughes; in which the nothing is offered to the reader but the eloquent writer and the contemplative morabil. There were found in his port-folio his Conlettions, in twelve books; the mit fix of which were published. " In the preface to thele memoirs, which abound with characters well drawn, and written with warmth, with energy, and joinetimes with elegance, he declares (lays M. Paliflot), like a pervist milanthrope, who boldly introduces himfelf on the role of the world, to declare to mankind, whom he supposes ailembled upon these ruins, that in that innumerable multitude, none could dare to fay, I am better than that man. This affectation of feeing himself alone in the universe, and of continually, directing every thing to himself, may appear to some morose minds a fanaticism of pride, of which we have no examples, at least fince the time of Cardan." But this is not the only blame which may be attached to the author of the Contessions, With uneafiness we fee him, under the pretext of fire cerity, dithonouring the character of his benefactress Lady Warran. There are innuendos no less offensive against obscure and celebrated characters, which ought entirely or partly to have been suppressed. A lady of wit faid, that Roufieau would have been held in higher ellimation for virtue, " had he died without his confesfion." The fame opinion is entertained by M. Sennebier, author of the Literary History of Geneva: " His confessions (fays he) appear to me to be a very dangerous book, and paint Rouffeau in fuch colours as we would never have ventured to apply to him. The excellent analyses which we meet with of some sentiments, and the delicate anatomy which he makes of fome actions, are not sufficient to counterbalance the detestable matter which is found in them, and the unceasing obloquies everywhere to be met with." It is certain, that if Rouffeau has given a faithful delineation of fome perions, he has viewed others through a cloud, which formed in his mind perpetual fuspicions. He imagined . he thought juilly and spoke truly; but the simpletly thing in nature, fays M. Servant, if diffilled through big violent and fufpicious head, might become poison. Routfeau, in what he fays of himfelf, makes fuch acknowledgments as certainly prove that there were better men than he, at least if we may judge him from the first fix books of his memoirs, where nothing appears but his vices. They ought not perhaps to be separated from the fix last books, where he speaks of the victues which make reparation for them; or rather the work ought not to have been published at all, if it be true (which there can be little doubt of) that in his confeffions he injured the public manners, both by the bafeness of the vices he disclosed, and by the manner in which he united them with the virtues. The other pieces which we find in this new edition of his works are. 1. The Reveries of a Solitary Wanderer, being a journal of the latter part of his life. In this he confesses, that he liked better to fend his children into hospitals destined for orphans, than to take upon himfelf the charge of their maintenance and education; and endeavours to palliate this error, which nothing can exculpate. 2. Confiderations upon the Government

Rouffean vernment of Poland. 3. The Adventures of Lord Edward, a novel, being a kind of supplement to the new Heloifa. 4. Various Memoirs and Fugitive Pieces, with a great number of letters, some of which are very long, and written with too much fludy, but containing some eloquent passages and some deep thought. c. Emilia and Sophia. 6. The Levite of Ephraim, a poem in profe, in 4 cantos; written in a truly ancient ftyle of fimplicity. 7. Letters to Sara. 8. An Opera and a Comedy. e. Translations of the first book of Tacitus's History, of the Episode of Olinda and Sophronia, taken from Tasso, &c. &c. Like all the other writings of Rouffeau, we find in these posthumous pieces many admirable and fome ufeful things; but they also abound with contradictions, paradoxes, and ideas very unfavourable to religion. In his letters especially we see a man chagrined at misfortunes, which he never attributes to himfelf, fufpicious of every body about him, calling and believing himself a lamb in the midt of wolves; in one word, as like Pascal in the strength of his genius, as in his fancy of always feeing a precipice about him. This is the reflection of M. Servant, who knew him, affifted him, and careffed him during his retreat at Grenoble in 1768. This magistrate having been very attentive in observing his character, ought the rather to be believed, as he inspected it without either malice, envy, or resentment, and only from the concern he had for this philofopher, whom he loved and admired.

ROUT, in Law, is applied to an affembly of persons going forcibly to commit fome unlawful act, whether

they execute it or not. See RIOT.

ROUTE, a public road, highway, or course, especially that which military forces take. This word is also

used for the defeat and flight of an army.

ROWE, NICHOLAS, descended of an ancient family in Devonshire, was born in 1673. He acquired a complete taile of the claffic authors under the famous Dr Bufby in Westminster school; but poetry was his early and darling fludy. His father, who was a lawyer, and defigned him for his own profession, entered him a student in the Middle Temple. He made remarkable advances in the fludy of the law; but the love of the belles lettres, and of poetry in particular, flopt him in his career. His first tragedy, the Ambitious Stepmother, meeting with univerfal applause, he laid aside all thoughts of rifing by the law. He afterward compofed feveral tragedies; but that which he valued himfelf most upon, was his Tamerlane. The others are, the Fair Penitent, Ulysses, the Royal Convert, Jane Shore, and Lady Jane Grev. He also wrote a poem called the Biter. and several poems upon different subjects, which have been published under the title of Miscellaneous Works, in one volume, as his dramatic works have been in two. Rowe is chiefly to be confidered (Dr Johnson obferves) in the light of a tragic writer and a translator, In his attempt at comedy, he failed fo ignominiously, that his Biter is not inferted in his works; and his occasional poems and short compositions are rarely worthy of either praise or censure, for they seem the cafual sports of a mind feeking rather to amuse its leisure than to exercise its powers. In the construction of his dramas there is not much art; he is not a nice observer of the unities. He extends time, and varies place, as his convenience requires. To vary the place is not (in the opinion of the learned critic from whom these ob-

fervations are borrowed) any violation of nature, if Rowe the change be made between the acts; for it is no less easy for the spectator to suppose himself at Athens in the second act, than at Thebes in the first; but to change the scene, as is done by Rowe in the middle of an act, is to add more acts to the play, fince an act is fo much of the business as is transacted without interruption. Rowe, by this licence, eafily extricates himfelf from difficulties; as in Lady Jane Gray, when we have been terrified with all the dreadful pomp of public execution, and are wondering how the heroine or the poet will proceed, no fooner has Jane pronounced fome prophetic rhimes, than-pass and be gone-the scene closes, and Pembroke and Gardiner are turned out upon the itage. I know not (favs Dr Johnson) that there can be found in his plays any deep fearch into nature, any accurate difcriminations of kindred qualities, or nice display of passion in its progress; all is general and undefined. Nor does he much interest or affect the auditor, except in Jane Shore, who is always feen and heard with pity. Alicia is a character of empty noise. with no refemblance to real forrow or to natural madness, Whence then has Rowe his reputation? From the reafonableness and propriety of some of his scenes, from the elegance of his diction, and the fuavity of his verse. He seldom moves either pity or terror, but he often elevates the fentiment; he feldom pierces the breast, but he always delights the ear, and often improves the understanding. Being a great admirer of Shakespeare, he gave the public an edition of his plays; to which he prefixed an account of that great man's life. But the most considerable of Mr Rowe's performances was a translation of Lucan's Pharlalia, which he just lived to finish, but not to publish; for it did not appear in print till 1728, ten years after his death.

Meanwhile, the love of poetry and books did not make him unfit for bufiness; for nobody applied closer to it when occasion required. The duke of Oucenfberry, when fecretary of state, made him fecretary for public affairs. After the duke's death, all avenues were stopped to his preferment; and during the rest of Queen Anne's reign he paffed his time with the Muses and his books. A flory, indeed, is told of him, which shows that he had some acquaintance with her ministers. It is faid, that he went one day to pay his court to the lord treasurer Oxford, who asked him, " If he under-flood Spanish well?" He answered, " No:" but thinking that his Lordstip might intend to send him into Spain on some honourable commission, he presently added, " that he did not doubt but he could fhortly be able both to understand and to speak it." The earl approving what he faid, Rowe took his leave; and, retiring a few weeks to learn the language, waited again on the Earl to acquaint him with it. His Lordship afking him, " If he was fure he understood it thoroughly ?" and Rowe affirming that he did, " How happy are you, Mr Rowe," faid the Earl, " that you can have the pleafure of reading and understanding the History of Don Quixote in the original!" On the accession of George I. he was made poet laureat, and one of the land furveyors of the customs in the port of London. The prince of Wales conferred on him the clerkship of his council; and the Lord Chancellor Parker made him his fecretary for the presentations. He did not enjoy these promotions long; for he died Dec. 6. 1718, in his 45th year. Mr Rowe was twice married, had a fon by his first wife, and a daughter by his second. He was a hand-forne, genteel man; and his mind was as amidble as his person. He lived beloved; and at his death had the honour to be lamented by Mr Pope, in an epitaph which is printed in Pope's works, although it was not affixed on Mr Rowe's monument in Westminster abbey, where he was interred in the poet's corner, opposite to

Chaucer. Rowe, Elifabeth, an English lady, eminent for her excellent writings both in profe and verfe, born at Ilchefter in Somersetshire in 1647, was the daughter of worthy parents, Mr Walter Singer and Mrs Ellabeth Portnel. She received the first ferious impressions of religion as foon as the was capable of it. There being a great affinity between painting and poetry, this lady, who had a vein for the one, naturally had a talte for the other. She was also very fond of music; chiefly of the grave and folemn kind, as best fuited to the grandeur of her fentiments and the sublimity of her devotion. But poetry was her favourite employment, her diftinguishing excellence. So prevalent was her genius this way, that her profe is all poetical. In 1606, a collection of her poems was published at the defire of two friends. Her paraphrase on the xxxviiith chapter of Job was written at the request of Bishop Ken. She had no other tutor for the French and Italian languages than the honourable Mr Thynne, who willingly took the talk upon himfelf. Her shining merit, with the charms of her person and conversation, had procured her a great many admirers. Among others, it is faid, the famous Mr Prior made his addresses to her. But Mr Thomas Rowe was to be the happy man. This gentleman was honourably descended; and his superior genius, and infatiable thirst after knowledge, were confpicuous in his earliest years. He had formed a design to compile the lives of all the illustrious persons in antiquity omitted by Plutarch; which, indeed, he partly executed. Eight lives were published since his decease. They were translated into French by the abbé Bellenger in 1734. He spoke with ease and fluency; had a frank and benevolent temper, an inexhaustible fund of wit, and a communicative disposition. Such was the man who, charmed with the person, character, and writings, of our authoress, married her in 1710, and made it his fludy to repay the felicity with which the crowned his life. Too intense an application to study, beyond what the delicacy of his frame would bear, broke hi health, and threw him into a confumption, which put a period to his valuable life in May 1715, when he was but just past the 28th year of his age. Mrs Rowe wrote a beautiful elegy on his death; and continued to the last moments of her life to express the high vereration and affection for his memory. As foon an r his decease as her affairs would permit, she indulged her inclination for folitude, by retiring to Frome, in Somerfetshire, in the neighbourhood of which place the greatest part of her estate lay. In the recess it was that the composed the most celebra of her works, Friendship in Death, and the Lett Voral and Entertaining. In 1736, the publish he History of Joseph; a poem which she had writ in her younger years. She did not long furvive this publication; for the died of an apoplexy, as was supposed, Feb. 20. 1736 7. In her cahinet were found letters to feveral of YOL. XVIII. Part I.

her friends, which the had ordered to be delivered immediately after her deceale. The Rev. Dr Ifaac Watts, agreeably to her requeft, revifed and publified her devotions in 1737, under the title of Devout Exercises of the Heart in Meditation and Solitoquy, Praife and Prayer; and, in 1730, her Mifcellarcous Works, in profe and verte, were published in 2 vols 8vo, with an account of her life and writings prefixed.

As to her perfon, the was not a regular beauty, yet pofferfied a large flaver of the charms of her fex. She was of a moderate flature, her hair of a fine colour, her eyes of a darkith gray in things to blue, and full of fire. Her complexion was very fair, and a natural bluffi glowed in her cheeks. She fjoke gracefully; her voice was exceedingly fivest and harmoniour; and the had a foftness in her alpeet which infured low, yet not without fome mixture of that awe and veneration which diffinguished fense and virtue, apparent in the countenance, are wont to create.

ROWEL, among farriers, a kind of iffue answering to what in surgery is called a feron. Sec FARRIERY, sect. v.

ROWLEY, a monk who is faid to have flourished at Briftol in the 11th century, and to have been an author voluminous and elegant. Of the poems attributed to him, and published fome time a50, various opinions have been enterentiated, which we have noticed elies here. They feem now to be almost forgotten. See

ROWLEY, William, who flands in the third clafs of dramatic writers, lived in the reign of King Charles I. and received his education at the univerfity of Cambridge; but whether he took any degree there, is not evident; there being but few partic-lars preferred in regard to him more than his clofe intimacy and connection with all the principal wits and poetical geniufes of that age, by whom he was well beloved, and with fome of whom he joined in their writings. Wood flyles him "the ornament, for wit and ingenuity, of Pembrokehall in Cambridge." In a word, he was a very great beneficier to the English flags, Laving, exclusive of his aid lent to Middleton, Day, Heywood, Webler, &c. left us five plays of his own composing, and one in which even the immortal Shakefpeare afforded him fome af-

ROWNING, John, an English mathematician and philosopher of confiderable ingenuity, was fellow of Magdalen college, Cambridge, and afterwards rector of Anderby in Lincolnshire, in the gift of that society. He constantly attended the meetings of the Spalding fociety, and was a man of an extraordinary philosophical habit and turn of mind, while at the fame time his difpolitions were focial and cheerful. His genius was peculiarly fitted for mechanical contrivances or inventions. He published a compendious fystem of Natural Philosophy at Cambridge, in the year 1738, in two vols. 8vo.; a work of much ingenuity, which has gone through feveral editions. He likewise inscrted two pieces in the Philosophical Transactions, viz. a description of a baro-meter, wherein the scale of variation may be increased at pleasure; vol. xxxviii. p. 39.; and directions for making a machine for finding the roots of equations univerfally, together with the manner in which it is to be used; vol. lx. p. 247

He died at his lodgings in Carey fireet, rear Lin-

Rosburgh: coln's-inn Fields, in the end of November 1771, at 72 fbire. years of age. Though a man both ingenious and pleafant, his external appearance was rather forbidding, as he was tall, thooped in the floulders, and his counterparts.

nance was down looking and fallow.

ROXBURGHSHIRE, a county of Scotland, which is alfo known by the name of TEVIOTDALE, messures about 4.0 miles in length from north to fouth, and in breatth about 36 miles in a direction between east and west; containing 47,23.20 fquare acres. The centre of the county is computed to lie in 55°, 25′, N. Lat, and in 2°, 37′, W. Long, from the meridian of London. The counties of Northumberland and Cumberland form its boundary on the fouth; it is also bounded by the former county on the east, by Berwickshire on the north, and on the west by the counties of Dumfries, Selkiuk, and Edisburgh.

The external appearance of this county is regarded as upon the whole extremely beautiful, exhibiting an alternate faccefilon of hills and dales, through which flow a confiderable number of fimal rivers. The greater part of the hills are covered with a fine fiward, producing valuable graffes for the feeding of facep; and the county is divided into four different difficits, the most mountainous part of it being denominated the diffrit of Hawite's the feeond is that of Jedburgh; the third is the diffrit of Kelfo, and the fourth is known by the name of the diltrict of Melrofe, being composed of that part of the county which is fituated to the northward of the

f.o.

The most remarkable hills in the county of Roxburgh are Minto, 8,38 feet above the level of the fea; Dunion 1021; Eldon 1330; Ruberslaw 1419; Carterfell 1602, Wisp 1823. These constitute a part of that extensive range generally known by the appellation of Chewier, which is ditlant not above a mile from the most easilerly point of Roxburgh. Whinstone is their chief constituent, in which veins of Scotch pebbles are usually interfered. They are often covered with whinstone reduced to the late of powder by the action of the weather. The hills towards their funnits are in general of a conical form, a circumstance which some think is favourable to the volcanic systems—that the globe at some remote period has suffered the most dreadful convaluous from the irresultable action of free.

The county of Roxburgh is interfected by a multitude of flucams, the most important of which are the Teriot, Jed, Tweed, Rule, Kale, Oxnam, Gala, Sitrig, Ale, Caster, Borthwick, Ednam, Bowmont, Allan, Leader, Ettrick, Hermitage, Liddel. The term rivers rarely applied to any of these ftreams, except to the three first, viz. the Teviot, the Jed, and the Tweed, name of which are mavigable but for small ferry boats. Some rivers in England, such as the Tyne, the Cocket, &c. have their origin in the more elevated parts of the

county of Rexburgh.

In an agricultural point of view, Roxburghfhire may be divided into land under tillage and under patture, although a confiderable portion of the latter may be reduced to urable land. The fails under tillage may be divided into light and clayer, the former of which is ufually denominated green, and the latter white foil, because it is be't adapted to the rearing of ors, which, and other white grain's. What is called it!! in Roxburghflire, generally confirs of a hard clay internalized

with flones, by which it refembles coarfe gravel. Moft Rosburghof the different frecies of till may be changed into a flower fill of the different frecies of time, by being exposed to the action of the atmosphere, and mixed with lime and manure. Sweet, four, and healthy, are the terms by which lands under pasture are usually distinguished, and these are conferred from a consideration of the nature of the foil, its grasses, and such other circumflances as indicate them to be favourable or unfavourable for the rearing of sheep. Much of these lands was, at a remote period, under wood and heath, the existence of the former being pointed out by the roots of trees still remaining in the ground. The foil in general is sharp and dry upon the hills; but some of the high moors and the grounds in the vicinity of rivers are wet and marshy.

There are different tracts of land in this county which flill continue in a flate of nature, a portion of which kind, measuring about four miles long and two broad. runs through part of the parishes of Ancrum and Roxburgh, chiefly of a light gravelly nature, covered with heath, bent, and other coarle graffes. The large diffrict of Liddefdale is wholly under sheep passurage, with the exception of a few stripes on the banks of the Liddel and Hermitage. Indeed a cold wet foil, an exposed fituation, and unfriendly climate, hold out few incentives to improvements in agriculture. In ancient times this must have been very different from what it is at present. The marks of the plough can fill be traced on the fummits of lofty mountains, where the production of crops at this day is wholly impracticable. The counties on the borders were not, at a remote period, possessed by individuals in large detached portions, but the people of a whole neighbourhood had their alternate ridges, in which case they became interested in defending the property of each other against invaders and plunderers. The wars of the border, however, were happily terminated by the union of England and Scotland under one fovereign, in confequence of which the holding of property in what was denominated runrigg, no longer possessed its ancient advantages, but was rather a disadvantage, as it created constant quarrels and disputes among farmers, and greatly retarded the improvement of the foil. Each individual, therefore, became anxious to have his lands detached from those of his neighbours, an advantageous change which was very foon and very generally adopted.

A Mr Dawlon, the fon of a farmer in Roxburghthire, having refided four years in the west riding of Yorkshire, and a year in Essex, thereby made himself well acquainted with the most approved methods of hufbandry practifed in England, and returned to his native country in the full affurance of being able to introduce into the agriculture of Scotland the most effential improvements. On his arrival in Roxlor hihire in the year 1753, he immediately introduced the turnip hufbandry, which he fowed in drills, and was certainly the first Scots farmer who introduced the cultivation of turnip into the open field. His neighbours being wholly gentleman had acquired in En land, began to predict his ruin as wholly inevitable; but he was not to be intimidated by their prophetic featlments, and he went on resolutely in bringing his lands in the very best condition, which he fully effected by means of the turnip

husbandry,

Raxburgh-husbandry, by the fowing of artificial graffes, a practice then unknown in Scotland, and by the free and extenfive use of lime. By fuch a procedure his neighbours faw him becoming rapidly opulent, and having followed his example with the most flattering success, they were conftrained to alter their fentiments respecting his conduct as a farmer, and to hail him the father of the agricul-

ture of the fouth of Scotland.

The rotation of crops now followed in this county has nothing in it of a peculiar nature, the arrangement on a dry foil being generally oats, turnips, barley with graffes, hay or patture for one year, then barley as be-Where the foil is good and properly prepared, it is not uncommon with farmers to adopt the following rotation, viz. oats, turnips, oats, turnips, wheat or barley with graffes, and hay or pasture for one year. A part of Roxburghshire has been long celebrated for a fpecies of oats wuich produce early crops, and which are known by the appellation of Blainfly oats, because they have been produced at Blainfly from time immemorial, which is a diffrict in the parith of Melrofe, and northern extremity of the county. These are often five shillings a boll dearer than common oats, and in no fituation whatever are they known to degenerate. In some rich feils the produce is 16 or 18 for 1, and the lowest average produce is at least fix for one. The general practice of feeding cattle with turnip has diminished the culture of peale and beans in this county, and there are fo few potatoes reared that they cannot be regarded as forming a part of the farmer's crop. Extensive crops of hay are not in general cultivated in this county, there being but few cities in which an advantageous market could be found; and the use of it is in a great measure Supplanted by that of turnip. Little more flax is reared than what is necessary for domestic purposes.

There is a circumflance worthy of observation, that the rearing of tobacco was, at one period, attempted in this county with remarkable fuccess. It was introduced by a Mr Thomas Man, who had been for fome time in America. Soon after the first experiments were made, a fingle acre of land produced a crop worth 701. fterling; and the crop of 13 acres was fold on the ground for 3201.; but in confequence of an act of parliament prohibiting the culture of it, the purchaser could not implement his bargain, and the farmer was obliged to Iell it to government at the rate of fourpence a pound, in confequence of which it brought him no more than

Great quantities of cattle are fed in this county, and about 260,000 sheep of the Cheviot breed in general, which are found to theire remarkably in every part of the county. The horses are either of the English breed. or from Lanarkshire, which latter are deemed preferable for fleady work in the plough. Although fivine are not kept by the farmers as a part of their flock, yet great numbers of them are reared by tradefmen, cottagers, hinds, and others, the fmall breed being chiefly preferred, not exceeding eight or nine flones English each. Roxburghshire is also famous for the rearing of poultry, and immense quantitie of eggs are sent firm it to Berwick, to be flip ed for the London mak c. Crows are here fo numerous, the hey frequently darben the air in the'r flight, and are extremely destructive to every species of grain. A great part of the county is uninclosed, and the sences made use of are the hedge

and ditch, although in some places upright sone dykes Roxburgh. have the decided preference, where flones can be readily fore

The orchards of Roxburgh county have been long celebrated for different kinds of fruit, and there are here two extensive nurseries for the rearing of trees. These last are a. Hassendean burn in the parith of Minto, and at Hawick. The whole county, however, like that of Berwick, is extremely defestive in mineral prois no doubt met with in different places of it, but the want of fuel requifite for its calcination, induces farmers to bring it from Dalkeith or Edinbur, h, in their corn carts, which might o'herwife return empry.

In the vicinity of Jedburgh there are two fprings of chalybeate water, with indications of more in different parts of the parith, which have not yet been subjected to any examination or analytis, although the waters of Tudhope well have been regarded as antifcorbutic, and

of use alto in rheumatic diforders.

In this county there are many remains of antiquity, fuch as ancient firong buildings, and veffiges of camps, Different remains of encampments and fortifications are to be met with in the parish of Roberton, which in all probability have been the work of the Romans. Herthe same name, and is nearly 100 feet square, defended by a strong rampart and ditch. The inner part of it is a heap of ruins, but the walls are almost entire. This is probably the very castle mentioned by Smellet, which was built in Liddefdale by Alexander II. and which gave fuch offence to Henry III. of England, that he made war on Alexander in the year 1240. There are feveral caves or recesses on the banks of the Ale water, not fewer than fifteen of which, it is faid, may be ffill pointed out, in some of which the vestiges of chimneys or fire-places are very discernible. Although at first used by plunderers as places of tafe retreat, they were no doubt afterwards employed by the poorer classes of the community as their ordinary habitations. Perhaps the abbey of Melrofe is the most distinguished moriument of antiquity to be met with in this county; for an account of which the reader may confult the article

Roxburgh hire has given birth to some of the most eminent characters who have adorned the republic of letters, among whom we find Dr John Armstrong, a distinguished physician and poet; James Thomson, the far-famed author of the Seasons; the poet Gawin Douglas, at one time rector of Hawick, afterwards bishop of Dunkeld; and the celebrated George Augustus Elliot, afterwards

this county, feveral manufactures have been carried on with a confiderable degree of spirit and determined perfeverance, the chief of which are carpets, inkle, cloth and flockings, in the manufacture of which nearly 306 packs of wool (each 12 ftones) have been annually confirmed. About 4000 pairs of flockings have been made in the fame time, and 10 tons of linen yarn confumed in the m king of inkle.

The population of this county, estimated in 1807. amounted to 33,682; and the following is the juralation according to the parishes, taken from the Stat stical History of Scotland.

Roxbargh-Royal.

		r 2-
P '4	Population	Population in
Parifles.	ın 1755.	1790-1793.
Ancrum -	1066	1146
Athkirk -	629	539
Bedrule -	297	259
Bowden	672	865
Caftleton =	1507	1418
Cavers -	993	1300
Crailing	387	6,2
Ednam	337	600
Eckford -	1583	952
10 Hawick -	2713	2928
Hobkirk -	530 .	700
Hownsm -	632	365
Jedburgh -	5816	3 288
Kelfo -	2781	4324
15 Kirktown -	330	342
Leffuden -	309	500
Liliesleaf -	521	630
Linton -	413	383
Mackerson -	165	25.5
20 Maxton .	397	3 26
Melrofe -	2322	2446
Minto -	395	513
Morebattle -	789	789
Oxnam -	760	690
25 Roberton -	651	629
Roxburgh - Śmailholm -	784	840
Southdean -	551 569	421
Sproudon -	1089	714
		1215
30 Wilton - Vetholm -	936 699	976
r cenorm .	099	970
	31,273	32,020
	3-12:3	31,273
		3-1-/3

Increase 747

ROXENT-CAPE, or ROCK of Lifton, a mountain and remarkable promontory in Portugal, fituated in the Atlantic ocean, at the north entrance of the Tagus, 22

ROYAL, fomething belonging to a king: thus we fay, royal family, royal affent, royal exchange, &c.

ROYAL Family. The first and most considerable branch of the king's royal family, regarded by the laws of Eng-

land, is the queen. 1. The queen of England is either queen regent, queen confort, or queen dowager. The queen regent, regnant, or fovereign, is the who holds the crown in her own right; as the first (and perhaps the second) Queen Mary, Queen Elifabeth, and Queen Anne; and such a one has the fame powers, prerogatives, rights, dignities, and du-ties, as if the had been a king. This is expressly de-clared by flatture i Mar. I. ft. 3. c. 1. But the queen confort is the wife of the reigning Ling; and the by virtue of her marriage is participant of divers prerogatives above other women.

And, first, she is a public person, exempt and distinct from the king; and not, like other married women, so closely connected as to have lost all legal or separate extitence fo long as the marriage continues. For the queen is of ability to purchase lands and to convey

them, to make leafes, to grant copyholds, and do other Royal acts of ownership, without the concurrence of her lord; which no other married woman can do: a privilege as old as the Saxon era. She is also capable of taking a grant from the king, which no other wife is from her hufband; and in this particular the agrees with the que gusta or pullima regina conjux divi imperatoris of the Roman laws; who, according to Justinian, was coually capable of making a grant to, and receiving one from. the emperor. The queen of England hath feparate courts and officers dutinct from the king's, not only in matters of ceremony, but even of law; and her attorney and folicitor general are entitled to a place within the bar of his majesty's courts, togther with the king's counfel. She may likewife fue and be fued alone, with- . out joining her husband. She may also have a separate property in goods as well as lands, and has a right to dispose of them by will. In short, she is in all legal proceedings looked noon as a feme fole, and not as a feme covert; as a fingle, not as a married woman. For which the reason given by Sir Edward Coke is this; because the witdom of the common law would not have the king (whose continual care and study is for the public. and circa ardua regni) to be troubled and disquieted on account of his wile's domestic affairs; and therefore it vests in the queen a power of transacting her own concerns, without the intervention of the king, as if the were an unmarried woman.

The queen hath also many exemptions, and minute prerogatives. For inflance : she pays no toll; nor is the liable to any amercement in any court. But in goneral, unless where the law has expressly declared her exempt, the is upon the fame footing with other fubjects; being to all intents and purpofes the king's fulject, and not his equal: in like manner as in the imperial law,

Augustus legibus folutus non est.

The queen bath also some pecuniary advantages, which form her diffinct revenue : as, in the first place, the is entitled to an ancient perquifite called queen gold, or aurum regine; which is a royal revenue belonging to every queen-confort during her marriage with the king, and due from every perion who hath made a voluntary offering or fine to the king, amounting to 10 merks or upwards, for and in confideration of any privileges, grants, licences, pardons, or other matter of royal favour conferred upon him by the king : and it is due in the proportion to one-tenth part more, over and above the entire offering or fine made to the king, and becomes an actual debt of record to the queen's majefly by the mere recording of the fine. As, if 100 merks of filver be given to the king for liberty to take in mortmain, or to have a fair, market, park, chale, or free warren; there the queen is intitled to 10 merks in filver, or (what was formerly an equivalent denomination) to one merk in gold, by the name of queen-gold, or aurum regine. But no fuch payment is due for any aids or ful fidies granted to the king in parliament or convocation; or for fines imposed by courts on effenders against their will; nor for voluntary prefents to the king, without any confideration moving from him to the subject; nor for any sale or contract whereby the present revenues or possessions of the crown are granted away or

The original revenue of our ancient queens, before and foon after the conquest, feems to have confisted in certain Royal certain refervations or rents out of the demelne lands of the crown, which were expressly appropriated to her majesty, distinct from the king. It is frequent in domefday book, after frecitying the rent due to the crown, to add like wife the quantity of gold or other renders referred to the queen. Thefe were frequently appropriated to particular purpoles; to buy wood for her majety's ule to parchale oil for lamps, or to furwith her attire from head to foot, which was frequent-Iv very colly, as one fingle robe in the fifth year of Henry 11. stood the city of London in upwards of 80 pounds: A practice somewhat similar to that of the eaftern countries, where whole cities and provinces were specifically assigned to purchase particular parts of the queen's apparel. And for a farther addition to her income, this duty of queen-gold is supposed to have been originally granted; those matters of grace and favour, out of which it arole, being frequently obtained from the crown by the powerful intercession of the queen. There are traces of its payment, though obfoure ones, in the book of domefday, and in the great pipe-roll of Henry I. In the reign of Henry II. the manner of collecting it appears to have been well understood; and it forms a distinct head in the ancient dialogue of the exchequer written in the time of that prince, and usually attributed to Gervase of Tilbury. From that time downwards, it was re-plarly claimed and enjoyed by all the queen-conforts of Lngland till the death of Henry VIII, a though after the accession of the Tudor family, the collecting of it feems to have been much neglected: and there being no quee confort afterwards till the accession of James I. a period of near 60 years, its very nature and quantity then became a matter of doubt; and being referred by the king to the chief juffices and chief baron, their report of it was to very unfavourable, that his confort Queen Anne, though the claimed it, yet never thought proper to exact it. In 1635, 11 Car. I. a time fertile of expedients for raising money upon dormant precedents in our old records (of which thip-money was a fatal instance), the king, at the petition of his queen Henrietta Maria, issued out his writ for levying it; but afterwards purchased it of his confort at the price of 10,000 pounds; finding it, perhaps, too trifling and troublefome to levy. And, when afterwards, at the Restoration, by the abolition of military tenures, and the fines that were confequent upon them, the little that legally remained of this revenue was reduced to almost nothing at all: in vain did My Prynne, by a treatife that does honour to his abilities as a nimful and judicious antiquerian, endeavour to excite Queen Catherine to revive this antiquated claims

Another ancient perquifité belonging to the queen confort, mentioned by all our old writers, and therefore only worthy notice, is this: that on the taking a whale on the coults, which is a royal fifth, it shall be divided between the king and queen; the head only being the king's property; and the tail of it the queen's. De flurgione observerur, quod ren illum habebit integrum : de b. lena vero fuffich. A ret habeat capit, et regina caudam. The reason of this whim lead division, as affigued by our and up tecarde, was, to furnish the queen's ward-

But I mart ? bogs the queen is in all respects a fa' is to gette in point of the fecurity of her life and

person, she is put upon the same footing with the king. Royal. . It is equally treason (by the statute 2; Edward HI.) to imagine or compals the death of our lady the king's companion, as of the king himfelf; and to violate or defile the queen confort, amounts to the fame high crime; as well in the person committing the fact, as in the queen herfelf if confenting. A law of Henry VIII. made it treason also for any woman who was not a virgin, to marry the king without informing him thereof: but this law was foon after repealed; it trefpaffing too strongly, as well on natural justice as female modesty. If however the queen be accused of any species of treafon, the shall (whether confort or dowager) be tried by the peers of parliament, as Queen Ann Boleyn was in 28 Hen VIII.

The husband of a queen regnant, as Prince George of Denmark was to Queen Anne, is her subject; and may be guilty of high treason against her : but, in the instance of conjugal fidelity, he is not subjected to the fame penal reftrictions. For which the reason seems to be, that if a queen confort is unfaithful to the royal bed. this may debale or battardize the heirs to the crown; but no fuch danger can be confequent on the fidelity of

the hufband to a queen regnant.

2. A queen downger is the widow of the king, and as fuch enjoys most of the privileges belonging to her as queen confort. But it is not high treafon to confpire her death, or to violate her charlity; for the fame reason as was before alleged, because the succession to the crown is not thereby endangered. Yet fill, pro dignicate regali, no man can marry a queen-dowager feiting his lands and goods. This Sir Edward Coke tells us, was enacted in parliament in 6 Henry VI. though the flatute be not in print. But the, though an allen born, shall fill be emitted to dower after the king's demife, which no other alien is. A queendowager when married again to a subject, doth not lofe her regal dignity, as peereffes-dowager do when they marry communers. For Kathanine, queen-dowager of Henry V. thou, h fhe married a private gentleman, Owen ap Meredith ap Theodore, commonly called Owen Tudor; yet, by the name of Katharine queen of England, maintained an action against the bishop of Carlisle. And so the dowager of Navarre marrying with Edmond the brother of King Edward I, maintained an action of dower by the name of queen of Na-

2. The prince of Wales, or heir apparent to the crown, and also his royal confort and the princess royal, or eldest daughter of the king, are likewife peculiarly regarded by the laws. For, by flatute 25 Edw. III. to compass or conspire the death of the former, or to violate the chaffity of either of the latter, are as much high treafon as to conspire the death of the king, or violate the challity of the queen. And this upon the same reason as was before given; because the prince of Wales is next in succession to the , crown, and to violate his wife might taint the bloodroyal with baftardy; and the eldeft daughter of the king is also alone inheritable to the crown on failure of iffue male, and therefore more respected by the laws than any of her younger fifters; infomuch that upon , this, united with other (feodal) principles, while our p military tenures were in force, the king might levy an

Royal. aid for marrying his eldeft daughter, and her only. The heir apparent to the crown is usually made prince of Wales and earl of Chetter, by special creation and investiture; but being the king's eldest fon, he is by inheritance duke of Cornwall, without any new crea-

4. The rest of the royal family may be considered in two different lights, according to the different fenfes in which the term royal family is used. The larger fense includes all those who are by any possibility inheritable to the crown. Such, before the revolution, were all the descendants of William the Conqueror; who had branched into an amazing extent by intermarriages with the ancient nobility. Since the revolution and act of fettlement, it means the Protestant iffue of the princes Sophia; now comparatively few in number, but which in process of time may possibly be as largely diffused. The more confined sense includes only those who are in a certain degree of propinquity to the reigning prince, and to whom therefore the law pays an extraordinary regard and respect; but after that degree is past, they fall into the rank of ordinary fubjects, and are feldom confidered any farther, unless called to the fuccession upon failure of the nearer lines. For though collateral confanguinity is regarded indefinitely with respect to inheritance or succession, yet it is and can only be regarded within fome certain limits in any other respect, by the natural constitution of things

The younger fons and daughters of the king, and other branches of the royal family, who are not in the immediate line of fuccession, were therefore little farther regarded by the ancient law, than to give them a certain degree of precedence before all peers and public officers as well ecclefiaffical as temporal. This is done by the statute 31 Henry VIII. c. 10. which enacts, that no person except the king's children shall prefume to fix or have place at the fide of the cloth of estate in the parliament chamber; and that certain great officers therein named shall have precedence. above all dukes, except only fuch as shall happen to be the king's fon, brother, uncle, nephew (which Sir Edward Coke explains to fignify grandfon or nepos), or brother's or fifter's fon. But under the description of the king's children, his grandfons are held to be included, without having recourse to Sir Edward Coke's interpretation of nephew; and therefore when his late majesty King George II. created his grandson Edward, the fecond fon of Frederick prince of Wales deceased, duke of York, and referred it to the house of lords to fettle his place and precedence, they certified that he ought to have precedence next to the late duke of Cumberland, the then king's voungest son; and that he might have a feat on the left hand of the cloth of estate. But when, on the accession of his present majesty, these royal personages ceased to take place as the children, and ranked only as the brother and uncle of the king, they also left their feats on the fide of the cloth of effate; fo that when the duke of Gloucester, his majefty's fecond brother, took his feat in the house of peers, he was placed on the upper end of the earls bench (on which the dakes usually fit) next to his royal high e's the duke of Y rk. And in 1717, upon a

question referred to al the judges by King George I.

it was refolved, by the opinion of ten against the other

two, that the education and care of all the king's grand. Royal children, while minors, did belong of right to his majesty as king of this realm, even during their father's life. But they all agreed, that the care and approbation of their marriages, when grown up, belonged to the king their grandtather. And the judges have more recently concurred in opinion, that this care and approbation extend also to the presumptive heir of the crown : though to what other branches of the royal family the fame did extend, they did not find precifely determined, The most frequent instances of the crown's interposition go no farther than nephews and nieces; but examples are not wanting of its reaching to more distant collaterals. And the flatute of Henry VI. before mentioned, which prokibits the marriage of a queen-dowager without the confent of the king, assigns this reason for it: " because the disparagement of the queen shall give greater comfort and example to other ladies of effate. who are of the blood-royal, more lightly to difparage themselves." Therefore by the statute 28 Hen. VIII. c. 18. (repealed, among other statutes of treasons, by 1 Edw. VI. c. 12.) it was made high treason for any man to contract marriage with the king's children or reputed children, his fifters or aunts ex parte paterna, or the children of his brethren or fifters; being exactly the same degrees to which precedence is allowed by the statute 31 Hen. VIII. before-mentioned. And now, by flatute 12 Geo. III. c. 11. no descendant of the body of King Geo. Il. (other than the iffue of princeffes married into foreign families) is capable of contracting matrimony, without the previous confent of the king fignified under the great feal; and any marriage contracted without fuch a confent is void. Provided, that fuch of the faid descendants as are not above 25, may, after a twelvemonth's notice given to the king's privy council, contract and folemnize marriage without the confent of the crown; unless both houses of parliament shall, before the expiration of the said year, expressly declare their disapprobation of such intended marriage. And all persons solemnizing, assisting, or

cur the penalties of the statute of pramunire. ROYAL Oak, a fair spreading tree at Boscobel, in the parifly of Donnington in Staffordshire, the boughs of which were once covered with ivy; in the thick of which King Charles II. fat in the day-time with ColoneI Carelels, and in the night lodged in Boscobel house : fo that they are mistaken who speak of it as an old hollow oak; it being then a gay flourishing tree, furrounded with many more. Its poor remains are now fenced in with a handsome wall, with this inscription in gold letters : Felicifimam arborem quam in afylum potentissimi regis Caroli II. Deus op. max. per quem reges regnant, hic crescere voluit, &c.

being present at any such prohibited marriage, shall in-

ROTAL Society. See SOCIETY.

ROYALTIES, the rights of the king; otherwise called the king's prerogative, and the regalia. See PRE-ROGATIVE and REGALIA.

ROYENIA, a genus of plants belonging to the decandria class; and in the natural method ranking under the 18th order, Bicornes. See BOTANY Index.

ROYSTON, a town of Hertfordshire in England, feated in E Long. O. 1. N. Lat. 52 3. It is a large place, feated in a fertile vale full of inns, and the marhet is very confiderable for corn. There was lately discovered,

Roydon discovered, almost under the market-place, a subterraneous chapel of one Rofia, a Saxon lady : it has feveral altars and images cut out of the chalky fides, and is in form of a fugar-loaf, having no entrance but at the

RUBBER, INDIA. See CAOUTCHOUG.

RUBENS, SIR PETER PAUL, the most eminent of the Flemish painters, was born in 1577; but whether at Antwerp or Cologne is uncertain. His father, who was a counfellor in the fenate of Antwerp, had been forced by the civil wars to feek refuge in Cologne, and during his refidence there Rubens is commonly faid to

The genius of Rubens, which began to unfold itself in his earliest years, was cultivated with peculiar care, and embellished with every branch of classical and polite

He foon discovered a strong inclination for designing; and used to amuse himself with that employment in his leifure hours, while the rest of his time was devoted to other studies. His mother, perceiving the bias of her son, permitted him to attend the instructions of Tobias Verhaecht a painter of architecture and landscape. He next became the pupil of Adam Van Oort, but he foon found that the abilities of this mafter were infufficient to answer his elevated ideas. His furly temper too was difgustful to Reubens, whose natural disposition was modest and amiable.

Anxious to find an artist whose genius and dispositions were congenial with his own, he became the difciple of Octavio Van Veen, generally known by the name of Otho Venius, a painter of fingular merit, and who was not only skilled in the principles of his art, but also dittinguithed for learning and other accomplishments. Between the master and scholar a remarkable fimilarity appeared in temper and inclination; indeed, in the whole turn of their minds. It was this congeniality of fentiments which animated Rubens with that ardent passion for the art of painting which at length determined him to purfue it as a profession. From this time he gave up his whole mind to it; and fo fuccessful were his exertions, that he foon equalled his mafter.

In order to arrive at that perfection which he already beheld in idea, it became requifite to fludy the productions of the most eminent artists. For this purpose he travelled through Italy, vifiting the most valuable collections of paintings and antique statues with which that

country abounds.

Sandrart, who was intimately acquainted with Rubens, informs us, that he was recommended in the most honourable manner to the duke of Mantua by the archduke Albert, who had witneffed his talents in the finishing of some fine paintings designed for his own palace. At Mantua he was re cived by the duke with the most flattering marks of diffinction, and had opportunities of improving himfelf, which he did not neglect. If ere he carefully fludied the works of Julio Romano. He next visited Rome, where he had an opportunity of examining the productions of Ranhael. The paintings of Titian and Paolo Veronese called him to Venice, where

He continued in Italy fever ye is. At length resei ing intelligence that his mother was token ill, he i.a eved to Antwerp : but his fill affection was not gratified with a falt of her; the died before his arrival. He married foon after; but his wife dying at the end Rubens. of four years, he retired from Answerp for some time, and endeavoured to foothe his melancholy by a journey to Holland. At Utrecht he vifited Hurtort, whom he

The fame of Ruhens was now fpread over Europe. He was invited by Mary of Medicis queen of Henry IV. of France to Paris, where he painted the galleries in the palace of Luxembourg. These form a series of paintings which delineate the history of Mary; and afford a convincing proof how well qualified he was to excel in allegorical and emblematical compositions, While at Paris he became acquainted with the duke of Buckingham, who was fo taken with his great talents and accomplithments, that he judged him well qualified to explain to Ifabella, the wife of Albert the archduke, the cause of the misunderstanding which had taken place between the courts of England and Spain. In this employment Rubens acquitted himfelf with fuch propriety, that Ilabella appointed him envoy to the king of Spain, with a commission to propose terms of peace, and to bring back the instructions of that monarch. Philip was no less captivated with Rubens; he conferred on him the honour of kighthood, and made him fecretary to his privy council. Rubens returned to Bruffels, and thence passed over into England in 1630 with a commission from the Catholic king to negociate a peace between the two crowns. He was fuccessful in his negociation, and a treaty was concluded. Charles I. who then filled the British throne, could not receive Rubens in a public character on account of his profession; nevertheless, he treated him with every mark of respect. Having engaged him to paint fome of the apartments of Whitehall, he not only gave him a handsome sum of money, but, as an acknowledgment of his merit, created him a knight; and the duke of Buckingham, his friend and patron, purchased of him a collection of pictures, statues, medals, and antiques, with the fum of

He returned to Spain, where he was magnificently honoured and rewarded for his fervices. He was created a gentleman of the king's bedchamber, and named fecretary to the council of state in the Netherlands. Rubens, however, did not lay afide his profession. He returned to Antwerp, where he married a fecond wife called Helena Forment, who, being an eminent beauty, helped him much in the figures of his women. He died on 35th May 1640, in the 63d year of his age; fuccedued him in the office of fecretary of state in Flan-

As Rubens was possessed of all the ornaments and advantages that render a man worthy to be effected or courted, he was always treated as a person of confequence. His figure was noble, his manners engaging, and his converfation lively. His learning was univerfal. Though his favourite study must have occupied him much, yet he found time to read the works of the most celebrated authors, and especially the poets. He spoke feveral languages perfectly, and was an excellent flatef-

His house at Antworp was enriched with every thing in the arts that was rare and valuable. It contained on frecious apartment, in imitation of the retunda at Rome, adoined with a choice collection of pitrs Rubins which he had purchased in Italy; part of which he fold

to the duke of Buckingham. Rubia.

His genius qualified him to excel equally in every thing that can enter into the composition of a picture. His invention was fo fertile, that, if he had occasion to paint the fame subject several times, his imagination always supplied him with fomething striking and new. The attitudes of his figures are natural and varied, the carriage of the head is peculiarly graceful, and his expreffion noble and animated.

He is by all allowed to have carried the art of colouring to its highest pitch; he understood so thoroughly the true principles of the chiaro-fouro, that he gave to his figures the utmost harmony, and a prominence refembling real life. His pencil is mellowed, his firskes bold and easy, his carnation glows with life, and his drapery is fimple, but grand, broad, and hung with

much fkiil.

The great excellence of Rubens appears in his grand compositions; for as they are to be viewed at a distance, he laid on a proper body of colours with uncommon boldness, and fixed all his tints in their proper places; fo that he never impaired their luftre by breaking or torturing them; but touched them in fuch a manner as to give them a lasting force, beauty, and

I is generally allowed, that Rubens wanted correctness in drawing and defigning; some of his figures being heavy and too fhort, and the limbs in some parts not being justly sketched in the outline. Though he had fpent feven years in Italy in studying those antiques by which other celebrated artists had modelled their taste; though he had examined them with fuch minute attention as not only to perceive their beauties, but to be qualified to describe them in a Differtation which he wrote on that fubject : yet he feems never to have diwested himself of that heavy style of painting, which, being peculiar to his native country, he had infenfibly acquired. The aftonishing rapidity too with which he painted, made him fall into inaccuracies, from which those works that he finished with care are entirely exempted.

Among his finished pieces may be mentioned the Crucifixion of Jelus Christ between the two Thieves, which was very lately to be feen at Antwerp; but of all his works the paintings in the palace of Luxembourg

best display his genius and his style.

It is the observation of Algarotti, that he was more moderate in his movements than Tintoretto, and more foft in his chiaro scuro than Carravaggio; but not so rich in his compositions, nor so light in his touches, as Paolo Veronese; in his carnations less true than Titian, and less delicate than Vandyck. Yet he contrived to give his colours the utmost transparency and harmony, notwithstanding the extraordinary deepness of them; and he possessed a strength and grandeur of style which were entirely his own.

RUBIA, MADDER; a genus of plants belonging to the tetrandria class; and in the natural method ranking under the 47th order, Stellata. See BOTANY Index; and for an account of the use of madder as a dye fluff,

fee DYEING Index.

Madder-root is also used in medicine. The virtues attributed to it are those of a detergent and aperient; whence it has been usually raphed among the o ening roots, and recommended in obthructions of the viscora. Rubia particularly or the kidn ys, in coagulations of the blood from falls or bruiles, in the jaundice, and beginning dropfies.

This root, taken internally, tinges the urine of a deep red colour; and in the Philosophical Transactions we have an accurent or its producing a like effect upon the bones of animals who had it mixed with their food : all the bones, particularly the more folid ones, were faid to be changed, both externally and internally, to a deep red; but neither the fleshy nor cartilaginous parts suffered any alterations : fome of these bones macerated in water for many weeks together, and afterwards fleeped and boiled in spirit of wine, lost none of their colour. nor communicated any tinge to the liquors. This root, therefore, was concluded to be pofferfed of great fubtilty of parts, and its medical virtues hence to deferve izquiry. The fame trials, however, made by others, have not been found to produce the fame effects as those above mentioned .- Of late the root has come into great reputation as an emmenagogue.

RUBININSKA, one of the northern provinces of Ruffia, bounded by the province of Dwing on the north, by Syrienes on the east, by Belowra on the

fouth, and by the lake Onega on the weil.

RUBRIC, in the canon law, fignifies a title or article in certain ancient law-books; thus called because written, as the titles of the chapters in our ancient

bibles are, in red letters.

RUBUS, the BRAMBLE, or Rafpherry-bufb; a genus of plants belonging to the icolandria class; and in the natural method ranking under the 35th order, Senticofe. See BOTANY Index. The principal fpecies is the common raspberry, which, with its varieties, demands culture in every garden for their fruit; particularly the common red kind, white fort, and twicebearing raspberry; all of which are great bearers : but for the general plantations, we choose principally the common red and the while kind, as being generally the greatest bearers of all; planting also a share of the twice-bearing fort, both as a curiofity and for the fake of its autumnal crops of finit, which in favourable feafons ripen in tolerable perfection; observing to allow all the forts fome open exposure in the kitchen garden, though they will profper in almost any fitua-

The other species are considered as plants of variety, for hardy plantations in the shrubbery. Some of them are also very ornamental flowering plants; particularly the Virginian flowering rafpberry, and the double-bloffomed bramble, which answer well for ornamental compartments; and the white-berried bramble, which is a great curiofity. All the other species and varieties serve

to diverfify large collections.

RUBY, a species of precious stone, belonging to the f.liccous genus. See MINERALOGY Index. The ruby is of various colours; as, of a deep red colour inclining a little to purple; the carbuncle of Pliny; the spinell, of the colour of a bright corn poppy flower; the balass or pale red inclining to violet. Tavernier and Dutens inform us, that in the East Indies all coloured gems are named rubies, without regard to what their colours may be; and that the particular colour is added to the name of each in order to diffinguish them from one another. The fpinell rubies are about half the value of diamonds

of the fame weight; the balass is valued at 30 shillings per carat. Taversier mentions 108 rubics in the throne of the Great Mogul, from 100 to 200 carats, and of a round one almost 2; ounces: there is also mention made by other travellers of rubies exceeding 200 carats in weight. According to Dutens, a perfect ruby, if it weigh more than 3 carats, is of greater value than a diamond of the fame weight. If it weigh one carat, it is worth 10 guineas; if two carats, 40 guineas; three carats, 150 guineas; if fix carats, upwards of 1000 guineas.

Rubies, it is faid, are artificially made from Brafilian topazes of a fmoky appearance, by giving them a gradual heat in a crucible filled with athes, until it be red

Rock RUBY, the amethystizontas of the ancients, is found in Syria, Calcutta, Cananor, Cambaya, and Ethiopia. It is the most valued of all the varieties of garnets, and is frequently fold as a ruby under the name of rubinus Russicum.

RUCTATION, a ventofity arising from indigestion. and discharging itself at the mouth with a very disagree-

RUDBECK, OLAUS, a learned Swedish physician, born of an ancient and noble family in 1630. He became profesior of medicine at Upfal, where he acquired great applause by his extensive knowledge; and died in 1702. His principal works are, 1. Exercitatio anatomica, exhibens dustus novos hepaticos aquojos, et vafa glandularum serosa, in 4to. He there affects his claim to the discovery of the lymphatic vessels, against the pretentions of Thomas Bartholin. 2. Athlantica, five Manheim, vera Japheti posterorum sedes ac patria, 4 vols folio, is full of thrange paradoxes supported with profound learning: he there endeavours to prove, that Sweden was the country whence all the ancient Pagan divinities and our first parents were derived; and that the Germans, English, French, Danes, Greeks, and Romans, with all other nations, originally came from thence.

RUDBECKIA, a genus of plants belonging to the fyngenefia class; and in the natural method ranking under the 49th order, Compositie. See BOTANY Index.

RUDDER, in Navigation, a piece of timber turning on hinges in the stern of the ship, and which, opposing fometimes one fide in the water and fometimes another, turns or directs the vessel this way or that. See

HELM.

In the feventh volume of the Transactions of the Society instituted at London for the Encouragement of Arts, Manufactures, and Commerce, there is explained a method of supplying the loss of a ship's rudder at sea. The invention, which is Capt. Pakenham's of the royal navy, has been approved by Admiral Cornwallis, the commissioners of the admiralty, by the society in whose transactions the account of it was first published, and who prefented to Capt. Pakenham their gold medal, by the Trinity-house, by the managing owners of East India shipping, by the duke of Sudermania then regent of Sweden, and by the fociety for the improvement of naval architecture. The fubilitute here recommended for a loft rudder, fays the inventor, is formed of those materials without which no thip goes to fen, and its construction is simple and spredy. Cip'. Paken'iam, however, did not give a particular account of his inven-VOL. XVIII. Part I.

tion to the fociety whom he addressed, and to whom he Ruller. fent a model of his invention, till fuch time as he had an opportunity of reducing the theory he had conceived to practice. On the 7th of July 1783, he made this trial with the Merlin of Newfoundland; and he declares that, during the different manœuvres of tacking and wearing, he could not di cover the leaft variation between the operation of the machine and that of the thip's rudder : the was fleered with the fame eafe by one man, and answered the holm in every fituation fully as quick. Admiral Cornwallis certifies the fame with respect to the Crown of 64 guns, which loft her rudder on the Kentith Knock, when with the tubilitute the was fleered to Portimoush with the utmost ease in a heavy gale, and, as the admiral afferts, it would have taken her to the East Indies.

The materials and construction are thus described in the Transactions. " No 1. a topmast inverted; the fid. eccelxvis hole to ship the tiller in, and secured with hoops from the anchor stocks; the heel forming the head of the rudder. No 2. The inner half of a jibb-boom. No 3. The outer half of a jibb boom. No 4. A fith: the whole of these materials well bolted together :- in a merchantman her ruff-tree. No s. A cap, with the fquare part cut out to fit the stern-post, and acting as a lower gudgeon, fecured to the stern-post with hawfers, leading from the bolts of the cap, under the ship's bottom, into the hawfe-holes, and hove well tort. No 6. A plank, or, if none on board, the ship's gangboards. No 7. Anchor flocks, made to fit the topniast as partners, secured to the deck, and supplying the place of the upper gudgeon, and in a merchant thip the clamps of her windlass. No 8. A stern-post. No 9. Hoops from the anchor-stocks. No 10. Pigs of ballest, to sink the lower part. The head of the rudder to pais through as many decks as you with."

On this the Captain makes the following remarks: " It might probably be supposed, that a difficulty would occur in bringing the jaws of the cap to embrace the stern-post; but this will at once be obviated, when it is remembered that the top-chains, or hawfers, leading from each end of the jaws, under the ship's bottom, are in fact a continuance of the jaws themselves. Nor can it be appreliended that the cap, when fixed, may be impelled from its station, either by the efforts of the fea, or the course of the ship through the water, though even the hawfers, which confine it in the first instance, should be relaxed :- the experiment proves, that the partners must be first torn away, or the main-piece bro-

ken off.

" Since the improved flate of navigation, notwithstanding remedies have been found in general for the most disastrous accidents at sea, experience has evinced that nothing complete had been hitherto invented to supply the loss of a rudder. The first expedient within my knowledge were cables veered aftern, with tackles leading from them to the ship's quarter. This practice was superfeded by the invention of the machine usually complex and unwieldy, and veffels are foldom found in possession of the materials which form it. Commodore Byron, in the Journal of his Voyage round the World, fays, that the Tamer, with every affiltence from his own thip, was five days in constructing it. Besides, like the before-mentioned scheme, it can only operate to floer a

R U D Rudder, flap large (and that but very wildly), and of course, years of age when he lest the university, it appears from Ruddern

Rudajman under the circumflance of a les shore, defeat the most Scilful exertions of a feaman. Several other expedients have been adopted, which I shall not mention here, as

the fame defects equally appear in all.

"Thus it was apparent, that ample room was left for the discovery of some more certain resource than any of the former; and the scheme which has suggested ideif to me, will, I truit, be found fully to answer the purpole intended. The materials are fuch as fearcely any thip can venture to fea without; and the construction to fpeedy, eafy, and fimple, that the capacity of the meanest failor will at once conceive it. I need not, from mathematical principles, show the certainty of its effect, as it is formed and managed in the lame manner as a flaip's common rudder: and as the common rudder is certainly of all inventions the best calculated for guiding a vessel through the water, it will of course follow, that whatever fubflitute the nearest resembles that, much be best adapted to supply its loss."

RUDDIMAN. THOMAS, one of the most eminent grammarians which Scotland has produced, was born in October 1674 at Raggel, in the parith of Boyndie and county of Banff. His father James Raddiman was a farmer, and throughy attached to the house of

Stuart.

Mir Ruddiman was infructed in the principles of Latin grammar at the parith-school of Boyndie, where his application was fo vigorous, and his progress fo rapid, that he quickly furgaffed all his class-fellows. His mafter George Morrison, who was a skilful and attentive teacher, being unwilling to check his ardour for learning, permitted him to follow the impulse of his gemius, and to advance without waiting the flow progress of the other boys.

The pleafure which the youthful mind receives from vivid description, though wild and romantic, approaches to ecstafy, and often makes an impression which remains indelible. While at school, the first book which charmed the opening mind of Ruddiman was Ovid's Metamorphofes; nor did he cease to relish the beauties of this author when his judgment was mature, for during the

rest of his life Ovid was his favourite poet.

At the age of fixteen he became anxious to purfue his studies at the university; but his father thinking him too young, opposed his inclination. Hearing of the competition trial, which was annually held at King's college, Aberdeen, for a certain number of burfaries on the foundation of that university, Ruddiman's ambition was kindled. Without the knowledge of his father, and with only a fingle guinea in his pocket, which his fifter had privately given him, he fet out for that place. On the road he was met by a company of gypleys, who robbed him of his coat, his shoes, his stockings, and his guinea. This misfortune did not damp his enterprising spirit : He continued his journey to Aberdeen, presented himself before the professors as a candidate; and though he had neither clothes to give him a decent appearance nor friends to recommend him, he gained the first prize.

After attending the university four years, he obtained the degree of mafter of arts; an honour of which he was always proud. The thefis fays, the disputation on this occasion lasted ab aurora usque ad vesperum, i. e. "from morning till night." Though Ruddiman was only 20

a book initiled Rhetoricorum Libri tres, compo ed before this period, but never published, that he had then read the Roman classics with uncommon attention and

advantage.

He was from after engaged as a tutor to the fon of Robert Young, Eig. of Auldbar, the great grandion of Sir Peter Young, who under the direction of Buchanan had been preceptor of James VI. His income here must have been very finall, or his fituation unpleafant; for within a year he accepted the office of schoolmaster in the parish of Laurencekirk. The profession of schoolmafter in a country parish at that period could open no field for ambition, nor prospect of great emolument; for by an act of parliament passed in 1633, the falary appropriated to this office could not be increased above 200 merks Scots, or 11l. 2s. 24d. flerling. In dicharging the duties of this humble but important flation, it is probable that he used Simfon's Rudimenta Grammatica, which was then generally taught in the northern tchools, and by which he himfelf had been indructed in

When Ruddiman had spent three years and a half in ing to pass through Laucencekirk, was detained in that village by a violent florm. Pitcairne wanting amusement, inquired at the horles if the could procure any agreeable companion to bear him company at dinner. She replied, that the felioolmafter, though young, was faid to be learned, and, though modelt, the was fare could talk. Pitchine was delighted with the converis-

E linburgh, and promited him his patronage.

library, which had been founded 18 years before by Sir George Mackenzie, attracted his curiofity and attention, and he was foon after appointed affiliant-keeper under Mr Spottifwoode the principal librarian. His falary for executing this laborious office was 81. 6s. Sd. He had befides a small honorary present from those who were admitted advocates for correcting their thefes: he was also paid for copying manuscripts for the use of the library. And the faculty, before he had held the office two years, were fo highly pleafed with his conduct, that they made him a prefent of 50 pounds Scots, or 41. 3s. 4d.

During the fitting of the court of fession he attended the library from ten till three. But this confinement did not prevent him from engaging in other laborious duties: A part of his time was occupied in teaching young gentlemen the Latin language. Some he attended at their lodgings, some waited upon him, and some refided in his own house. An exact lift of the names of those who attended him, expressing the date of their entry, and the fums which he was to receive from each, has been found in his pocket-book; a curious relick,

which is flill preferved.

When Ruddiman's merit as a fcholar became better known, his afficience was anxiously folicited by those who were engaged in literary publications. Freebairne, a refrectable bookfeller of that period, prevailed upon him to correct and prepare for the profs Sir Robert rum in ea Borcalis Britannia parte qua ultra murum Picticum est. He received for his labour 31. sterling.

Ruddiman At the request of Mr Sportistoode sibralian, for 51.

sterling he contributed his aid to the publication of Sir Rubert Spottistoode's Practiques of the Laws of Scotland.

In 1707 he commenced austioneer, an employment not very faitable to the dignisied character of a man of letters: but to this occupation he was probably impelled by necessity; for upon balancing his accounts at the end of the preceding year, the whole furplus was 281: 2s. with profpects of 2361. 7s. 6d. Scots. Ruddiman had a family; and feems to have been a ftranger to that foolish pride which has seduced some literary men into the opinion, that it is more honourable to tharve than have recourse to an occupation which men of rank and opulence are accustomed to despife. The same year he published an edition of Voluseni de Animi Tranquil-Vitate Dialogus, to which he prefixed the life of Voluse-Volutenus or Wilson was a learned Scotsman, and had the honour to be patronifed by Cardinal Wolfey (fee WILSON). In 1700 he published Johnstoni Cantici Solomonis Parephrafis Phetica, and Johnstoni Cantica with notes, which he dedicated in verse to his friend and patron Dr Pitcairne. The edition confifted of 200 copies. The expence of printing amounted to vl. 10s. flerling, and he fold them at a shilling each

The philological talents of Ruddiman were next directed to a more important object, in which they became more confpicuous and ufeful. Freebairne the bookseller proposed to publish a new edition of the Scottish translation of Virgil's Æneid by Gawin Douglas bithop of Dankeld. Of the contributions which some eminent characters of the age prefented, the most valuable were supplied by Ruddiman. Freebairne acknowledged in general terms this obligation, but has not done him the juffice to inform the reader what thefe valuable contributions were, and Ruddiman's modesty restrained him from publicly afferting his claim. From the pocket book which has been already mentioned, it appears that Ruddiman corrected the work and wrote the gloffary; and there is firong reason to believe that he was the author of the 42 general rules for affifting the reader to underfland the language of Douglas. To those who wish to be acquainted with the ancient language of this island, the glosfary will be a treasure, as it forms a compendious dictionary of the Anglo-Saxon. For this elaborate work Ruddiman was allowed 81. 6s. Sd. fterling.

The reputation of Ruddiman had now extended to a difference. He was invited by the magifitates of Dundee to be refor of the grammar febool of that town; but the faculty of advocates, anxious to retain him, augmented his falary to 3cl. 6s. 8d. fierling, and he declined the offer.

In 1711 he affided Biftop Sage in publishing Drummond of Hawthornden's works; and performed the fame favour to Dr Ahercrombie, who was then preparing for the prefs his Maxial Atchievements.

In 1713 he was deprived of his friend Dr. Piteaires Ruddings On this occasion he tellified all the religion which friend-filly could infigure to the memory of his deceased patron and furriving family. He composed Piteairne's epitaph, and conducted the false of his library, which was dispoted to Peter the Great of Rullia.

In 1714 the Rudiments of the Latin tongue were published. Eighteen or mineteen Latin grammans, composed by Societimen, had appeared before this period-ty et fach is the intrinsic value of this little treatife, that it foon fuperfield all other books on the fubject, and is now tought in all the grammar feloods in Scotland. It has also been translated into other lenguages.

He was next called upon to publish the works of Buchanan. The value of these he enhanced much by an elaborate preface, his Tubula Regum Scotice Chronslogica and Propriorum Nominum Interpretatio. The interpretation of proper names was highly requifite; for Buchanan has fo difguifed them in the Roman drefs, that the original name is fcarcely difcernible; and the preface puts the reader on his guard against the chronological errors and factions spirit of the history. Ruddiman also added a learned differtation, jutitled De iletris Buchananæis Libellus, and subjoined annotations critical and political on the History of Scotland. As he espoused the cause of Queen Mary, he raised against himfelf a hoft of enemies, and gave occasion to that celebrated controverly which has been carried on with much keenness and animosity, and with little intermission, even to the present times. For this work Ruddiman was promiled tol. fterling.

He had now been fo long accustomed to furgeristend the prefs, that he was led to form the plan of erecting a printing-office himfelf (a.). Accordingly, in the year 1715, he commenced minter in partnership with his brother Walter, who had been regularly bred to the business. Some years after he was appointed printer to the university, along with James Davidson book-

The first literary fociety formed in Scotland was infituted in the year 1718. It probably derived its origin from the factious and turbelent (print of the times.
The learned, anxious perhaps to find fone respite from
the political diffensions of the day, endeavoured to procure it in elegant anuscement; for one of the fundamental articles of the new association was, that the "affixes
of church and state should not be introduced." Buddiman and the masters of the high-school bad the honour
to found this society. They were assertiars joined by
Lord Kaimes.

In 1735 the first part of his Grammatica Latine Infinationer, which treated of extmology, was published. The second part, which explained the nature and principles of fyntax, appeared in 1731. He also wrote a third part on profody, which is faid to be more copious and correct than any other publication on the fabilet. When arged to give it to the public, he faid dryly, "The age has so little taste, the sale would not pay the

<sup>(</sup>A) It has long been an object of curiofity to afcertain the time at which the art of printing was introduced into Scotland. Mr Robertion, the late keeper of the records, difcovered a patent of King James IV, which renders it certain that a printing-prefs was first established at Edinburgh during the year 1507, 30 years after Caxton had brought it into England. See PRINTIPS.

Ruddiman, the expense." Of this work he published an abridge- the mean time marked with a jealous eye. His fon Ruddiman. ment, to which he subjoined an abstract of his pro-

Ruddiman next engaged in the management of a newfpaper, an employment for which his genius and industry feemed to render him well qualified. But those who thould expect either much information or amusement from this publication, would perhaps be greatly difappointed. The newspaper which he conducted was the Caledonian Mercury, and was established in 1720 by William Rolland a lawyer. Ruddiman acted only in the capacity of printer for five years; but upon the death of Mr Rolland in 1729, the property was transferred to him, or to his brother Walter and him conjunctly. This paper continued in the family of Ruddiman till the year 1772, when it was fold by the trustees of his grandchildren.

The Caledonian Mercury was at first printed three times a week, on Monday, Tuesday, and Thursday, in a fmall 4to of four pages, with two columns in each page, and 50 lines in each column; fo that the whole paper contained only 400 lines. It now contains in its

folio fize 2480 lines. Mr Ruddiman, after the death of Mr Spottifwoode librarian, remained for some time in his former station; but was at length appointed keeper of the library; though without any increase of falary; and some years after Mr Goodal, the defender of Queen Mary, succeeded him in the office of fub-librarian.

The affiduous application of Ruddiman, supported by fuch learning, was intitled to wealth, which now indeed flowed upon him in what was at that period deemed great abundance. On the first of October 1735, it appeared from an exact flatement of his affairs, that he was worth 1882l, 5s. 2d. sterling; and on the 20th of May, the enfuing year, his wealth hadincreased to 19851. 6s. 3d. sterling. In 1710 he valued his effects at 241. 14s. 9d sterling.

In 1737 the schoolmasters and teachers in Edinburgh formed themselves into a fociety, in order to establish a fund for the support of their wives and children. Of this scheme Ruddiman was an active promoter, and was chosen treasurer. Perhaps it was this affociation which in 1742 gave the idea to the Scots clergy of forming their widows fund.

In 1739 he published Selectus Diplomatum et Numifmatum Scotiæ Thefaurus. This work was projected and begun by Anderson (hence called Anderson's Diplomata), but was finished by Ruddiman. The preface, which is an excellent commentary on Anderson's performance, was written by Ruddiman, and displays a greater extent of knowledge than any of his other pro-

As Ruddiman had imbibed from his father those political principles which attached him to the family of Stuart, he probably did not remain an unconcerned fpectator of the civil commotions which in 1745 agitated Scotland. He did not, however, take any active part in the rebellion. His principles, he has been heard to fay, induced him to be a quiet subject and a good citizen. He retired to the country during the fummer of 1745; and while his fellow-citizens were spiiling each others blood, he was more happily engaged in writing Critical Observations on Burman's Commentaries on Lucan's Pharfalia. The Caledonian Mercury was in

who had for fame time been the principal manager of that newspaper, having copied a paragraph which was reckened feditions from an English paper, was impulfoned. The folicitation of his father procured his releafe; but it was too late; for the unhappy young man had contracted a diffemper in the tolbooth of Edinburgh

which brought him to his grave. During the last feventeen years of his life: Ruddiman was almost incessantly engaged in controversy. To this he was in some measure compelled by the violent attacks which some critics of the times had successively made upon his works. He was first called upon by Benfon, auditor in the exchequer, to determine the comparative merit of Buchanan and Johnston as poets. He gave a decided preference to Buchanan in perspicuity, purity, and variety of ftyle; but, like a candid critic, allowed Johnston to be superior in the harmony of his numbers. His next antagonist was Logan, one of the ministers of Edinburgh, a weak illiterate man, but an obstinate polemic. The subject of contest was, whether the crown of Scotland was strictly hereditary, and whether the birth of Robert III. was legitimate? Ruddiman maintained the affirmative in both points, and certainly far furpaffed his antagonist in the powers of reasoning. He proved the legitimacy of Robert by the public records of the kingdom with a force of argument which admits of no reply; but in discussing the first question (by which he was led to consider the contest between Bruce and Baliol) he was not fo successful: for there are many instances in the history of Scotland in which the brother fucceeded to the crown in preference to the fon, He showed, however, that the Scottilh crown was at no period properly elective; and that, according to the old licentious constitution of the kingdom, the right of Bruce, who was the nearest in blood to the royal flock, was preferable to the claim of Baliol though descended from the eldest daughter.

But the labours of Ruddiman did not end when the pen dropt from the feeble hand of Logan. He was foon called upon to repel the attacks of Love schoolmaster of Dalkeith, who maintained, in opposition to him, that Buchanan had neither repented of his treatment of Queen Mary, nor had been guilty of ingratitude to that princefs. That Buchanan ever repented there is reason to doubt. Whether he was guilty of ingratitude, let the unbiassed determine, when they are assured by authentic records that Mary conferred on him a pension for life of

500 pounds Scots. When Ruddiman had arrived at his eightieth year, and was almost blind, he was affailed by James Man, maller of an hospital at Aberdeen, with a degree of rancour and virulence, united with fome learning and ability, which must have touched him in a sensible manner, and alarmed his fears for his reputation after his decease. He was called a finished pedant, a furious calumniator, and a corrupter of Buchanan's works. The venerable old man again put on his armour, entered the lifts, and gained a complete victory. Man, with all his acuteness, could only point out twenty errors in two folio volumes. Some of these were typographical, some triiling, and fome doubtful. Ruddiman, with much pleafantry, drew up against Man an account of 460 errors, confisting of 14 articles, of which two or three may be produced as a specimen. 1. Falsehoods and prevarications.

Rudelboyn relaffic authors which were infunderflood by Man, 10.

The triumph which he gained over this virulent adverfary he did not long enjoy; for he died at Edinburgh on the 19th of January 1757, in the 83d year of his age, and was buried in the Grey Friars churchyard without any monument to diftinguish his grave.

He was three times married, but left behind him only one daughter, Alifon, who was married in 1747 to James Stewart, Efg. He is supposed to have died worth 3000l. sterling.

He was of the middle fize, of a thin and ftraight make, and had eyes remarkably pieceing. Of his talents and learning his works afford the most fatisfactory proofs. His memory was tenacious and exact. He could repeat long passages of his favourite poet Ovid, to the amount of 60 lines, and without omitting a word. He was fo great a master in the Latin language, that he has perhaps been equalled by none fince the days of Buchanan.

Ruddiman has left a character unftained by vice, and distinguished by many virtues. His picty was exemplary. He spent Sunday in religious employment; and we are informed had prayers read to him every morning by his amanuentis when the infirmities of age required fuch an affiltant. He was frugal of his time, neither indolent nor fond of amusement; and so remarkably temperate, that it is faid he was never intoxicated. Though often forced into controverly, and treated with infolence, he never descended to scurrility and abuse, nor cherished resentment against his enemies. His candour was much admired in one instance in the favourable character which he published in the Caledonian Mercury of his antagonist Love (B), after his decease. Upon the whole, it must be allowed that Ruddiman has been of great fervice to classical literature, and an honour to his native country.

RUDESHEIM, a rich village of the Rhinegau, fituated about five miles from the city of Mentz, contains about 2500 inhabitants. The wine of this place is looked upon as without comparison the best of the Rhinegau, and confequently of all Germany. Baron Riefbeck fays, he found it much more fiery than that of Hochheim; but that for pleafantness of taste there is no comparison betwirt them. The best Rudesheim, like the best Hochheimer, sells upon the spot for three guilders the bettle. "You can (says our author) have no tolerable wine here for one guilder, nor any very good for two; at least I should prefer the worst Burgundy I ever tafted to any Rudesheimer I met with either here or at Mentz for these prices. Indeed the wine of our host (a rich ecclesiastic) was far better than any we could get at the inn. It stands to reason, that the same vintage furnishes grapes of very different degrees of goodness; but befides this, it is in the Rhirally fent abroad by the poor and middling inhabitarits. and the worst kept for internal consumption; for the expence of the carriage being the fame in both cafes. ftrangers had much rather pay a double price for the good than have the bad. It is only rich people, fuch as our host was, who can afford to keep the produce of their land for their own drinking. Upon this principle. I have eaten much better Swifs cheefes out of Switzerland than in it, and have drank much better Rhenish in the inns of the northern parts of Germany than in the country where the wine grows. The pofition of the country also contributes to render the wine . dearer than it would otherwise be. As the best wine grows in its more northern parts, the easy transport by the Rhine to Holland, and all parts of the world, raifes its price above its real value. The place where the flower of the Rudesheim wine grows is precifely the neck of the land, formed by the winding of the Rhine to the north, after it has run to the westward from Mentz hither. This neck, which is a rock almost perpendicular, enjoys the first rays of the rising and the last of the fetting fun. It is divided into finall low terraces. which are carried up to the utmost top of the hill like fleep flairs; thefe are guarded by fmall walls and earthen mounds, which are often washed away by the rain. The first vine was brought hither from France. and they still call the best grape the Orleannois. They plant the vine flocks very low, fearce ever more than four or five feet high. This way of planting the vine is favourable to the production of a great deal of wine, but not to its goodness, as the phlegmatic and harsh parts of it would certainly evaporate more, if the fap was refined through higher and more numerous canals. This is undoubtedly the reason why every kind of Rhenish has something in it that is harsh, four, and watery. The harvest of the best vineyards, which are the lower ones, in the above-mentioned neck of land, is often bought before hand, at the advanced price of fome ducats, by Dutch and other merchants. It must be a very rich stock to yield above four measures of wine .- You may eafily imagine, that the cultivation of vineyards must be very expensive in this country, as the dung, which is extremely dear, must be carried up to the top of the mountains on the peafants shoul-

RUDIMENTS, the first principles or grounds of any art or science, called also the elements thereof.

RUE, See RUTA, BOTANY Index.

Rue, Charles de la, a French orator and poet, was born at Paris in 1643. He waseducated at the college of the Jeditis, where he afterwards became a professor of humanity and rhetoric. At an early age his talent for poetry dictoled itels. In 1667, when he was only 24 years old, he composed a Latin poem on the conquests of Louis XIV, which was so much esteemed by

<sup>(</sup>a) The following character of Love was published in the Caledonian Mercury of the 24th of September 1750. On Thursday morning died at Dalkeith, after a lingering illnes, in the 55th year of his age, Mr John Love, rector of the grammar-febool there; who, for his uncommon knowledge in classifical learning, his indefatigable difference, and strictness of discipline without severity, was justly accounted one of the most sufficient matters in this country." This character is doubtless just; though Love is now known to have been the schoolmafter sufficient matters by Smolleti in the beginning of his Roderick Random.

the celebrated Peter Corneille, that he translated it into French, prefented it to the king, and at the fame time paffed so high encomiums on the superior merit of the original, that the author was received into, the favour of that monarch, and ever after treated by him with fingu-

lar respect De la Rue, anxious to preach the gospel to the Canadians, requested leave of absence from his superiors; but having deftined him for the pulpit, they refused to comply with his request. Accordingly he commenced preacher, and became one of the most eminent orators of his age. In his discourses he would probably have been too lavish of his wit, if he had not been cautioned against it by a judicious courtier. "Continue (said he) to preach as you do. We will hear you with pleasure as long as you reason with us; but avoid wit. We value the wit contained in two verses of a song more than all that is contained in most of the seemons in Lent."

Respecting the delivery of sermons, he entertained an opinion quite opposite to the established practice of his countrymen. In France it was customary not to read fermons from the pulpit, but to recite them from memory. This he confidered as a laborious tafk, not compensated by any advantages. On the contrary, he was of opinion that reading fermons was preferable.— The preacher, with his discourse before him, could read it with ease, free from that timidity and embarraffment which frequently attends the act of recollection; and he would fave a confiderable time which is usually spent in committing it to memory. In these fentiments many will not be disposed to acquiesce : but, without pretending to determine the question, it may be afferted, that a fermon, whether read or recited, if fpoken in a ferious manner, and with proper inflections and tones of voice, will produce all the effects for which a fermon is calculated.

De la Rue died at Paris on the 27th of May 1725, at

the age of 82.

He was as amiable in fociety as he was venerable in the pulpit. His conversation was pleasant and inftructive. His tafte and knowledge enabled him to converfe with eafe, and to express himself with propriety on every fubject. He charmed his superiors by his wit, and his inferiors by his affacility. Though living amidst the buffle of the world, he was always prepared for the folitude of the closet and the retreat of the cloister. In the pulpit he poured forth the finest effusions of eloquence in the most animated and impressive manner .-He pullished Panegyries, Funeral Orations, and Sermons. His best fermon is that intitled Des Colamites Publiques, and his most admired funeral oration was comp il d on the Prince of Luxembourg. There are alfo tragedies of his writing, both in Latin and French, which were approved by Corneille. He was one of those who published editions of the classics for the use of the Dauphin. Virgil, which fell to his fliare, was published with notes, and a Life of the Poet, in 1675, 4to, and is a valuable and ufeful edition. RUELLIA, a genus of plants belonging to the didy-

namia class; and in the natural method ranking under the 40th order, Perfinate. See BOTANY Index.

RUFF, a species of PERCA. See ICHTHYOLOGY

RUFF, a species of TRINGA. See ORNITHOLOGY Index.

RUFFHEAD, DR OWEN, was the fon of his Redhead Majefty's baker in Piccadilly; who beying a lottery ticket for him in his infancy, which happened to be drawn a prize of 5001, this lum was applied to educate him for the law. He accordingly entered in the Middle Temple; and teconded fo well the views of his father, that he became a good scholar and an acute barrifler. While he was waiting for opportunities to diflinguish himself in his profession, he verote a variety of pamphlets on the politics of the day; and was afterwards diffinguithed by his accurate edition of The Statutes as Large, in 4to. He now obtained good bufiness, though more as a chamber counsellor in framing bills for parliament than as a pleader; but his close application to fludy, with the variety of works be engaged in as an author, to impaired his constitution, that after the last exertion of his abilities to defend the conduct of administration toward Mr Wilkes, by a pamphlet intitled. " The Cafe of the late election for the county of Middlefex confidered," he was prevented from receiving the reward of a place in the Treasury, by dying in 1769, at about 46 years of age. Some time before his death, Bishop Warburton engaged him to write his long promiled Life of Alexander Pope; which, however, when executed, was very far from giving general fatisfaction. The author attributed his ill fuccess to the deficiency of his materials; while the public feemed rather to be of opinion that, as a lawyer, he ventured beyond his proper line, when he affumed the talk of a critic in poetry. RUFFLING, or RUFFING, a beat on the drum. Lieutenant-generals have three ruffles, major-generals two, brigadiers one, and governors one, as they pals

by the regiment, guard, &c.

RUFINUS was born about the middle of the fourth century at Concordia, an inconfiderable town in Italy. At first he applied himself to the belles lettres, and particularly to the fludy of eloquence. To accomplish himself in this elegant art, he removed to Aquileia, a town at that time to celebrated that it was called a fecond Rome. Having made himfelf acquainted with the polite literature of the age, he withdrew into a monaflery, where he devoted himfelf to the fludy of theology. While thus occupied, St Jerome happened to puls through Aquileia. Rufinus formed an intimate friendthip with him; but to his inexpreffible grief was foon deprived of the company of his new friend, who continued his travels through France and Germany, and then fet out for the east, Rufinus, unable to bear his absence, refolved to follow him. Accordingly he embarked for Egypt; and having vifited the hermits who inhabit the deferts of that country, he repaired to Alexandria to hear the renowned Didymus. Here he was gratified with a fight of St Melania, of whose virtue and charity he had heard much. The fanctity of his manners foon obtained the confidence of St Melania, which continued without interruption during their refidence in the east, 'a period of 30 years. The Arians, who fwayed the ecclefiaffical fceptre in the reign of Valens, perfecuted Rufinus with great cruelty. They threw him into a dungeon, loaded him with chains, and after almost starving him to death, banished him to the deferts of Palestine. From this exile he was relieved by the recuniary aid of St Melania, who employed her wealth in ransoming these confessors who had been condemned to prison or banishment.

St Jerome, Supposing that Rufinus would immediately proceed to Jerutalem, wrote to one of his friends there, congratulating him on the profeed of fo illustrious a vistor. To Jerusalem he went, and having built a monastery on the Mount of Olives, he there affembled a great number of hermits, whom he animated to virtue by his exhortations. He converted many to the Christian faith, and perfunded more than 400 hermits who bad taken part in the schism of Antioch to return to the church. 'He prevailed on many Macedonians and Arians to renounce their errors.

His attachment to the opinions of Origen fet him at variance with St Jerome, who, being of a temper peculiarly irritable, not only retracted all the praies which he had lavished upon him, but loaded him with fevere repreaches. Their disputes, which were carried to a very indecent height, tended to injure Christianity in the eyes of the weak. Theophilus, their mutual friend, Lettle their differences; but the reconciliation was of thort continu nce. Raficus having published a translation of the principles of Origin at Rome, was fummoned to appear before Pope Analtafius. But he made a specious apology for not appearing, and fent a vindication of his work, in which he attempted to prove that certain errors, of which Origon had been accused, were perfectly confident with the opinions of the orthodox. St Jerome attacked Rufinus's translation. Rufihus composed an eloquent reply, in which he declared that he was only the translator of Origen, and did not confider himfelf bound to fanction all his errors. Most ecclefiaftical historians fay that Rufinus was excommunicated by Pope Anastasius; but for this no good evidence has been brought. In 407, he returned to Rome; but the year after, that city being threatened by Alaric, he retired to Sicily, where he died in 410.

His works are, 1. A Translation of Josephus; 2. A Translation of several works of Origen; 3. A Latin Version of Ten Discourses of Gregory Nazianzen, and Eight of Bafil's; 4. Chromatius of Aquileia prevailed on him to undertake a Translation of the Ecclefiaftical Hiftory of Eufebius, which engaged him almost ten years. He made many additious to the body of the work, and continued the hiftory from the 20th year of Constantine to the death of Theodosius the Great. Many parts of this work are negligently written, many things are recorded as facts without any authority but common report, and many things of great importance are entirely omitted. 5. A Vindication of Origen. 6. Two Apologies addressed to St Jerome, 7. Commentaries on the prophets Hofea, Joel, and Amos. 8. Lives of the Hermits. 9. An Explanation of the Creed.

RUGEN, an island in the Baltic sea, on the coast of Pomerania, over against Stralfund, about 23 miles in length and 15 in breadth, with the title of a principality. It is strong both by art and nature, abounds in corn and cattle, and belongs to Sweden. The chief town is Bergen. E. Long. 14. 30. N. Lat. 54. 32.

RUINS, a term particularly used for magnificent buildings fallen into decay by length of time, and whereof there only remains a confused heap of materials. Such are the ruins of the tower of Babel, of the tower of Belus, two days journey from Bagdat, in Syria, on the banks of the Euphrates; which are now no more than a heap of bricks, cemented with bitumen, and whereof we only perceive the plan to have been fquare. Such also are the ruins of a famous temple, or palace, near Schiras, in Perlin, which the antiquaries will have to have been built by Ahafuerus, and which the Perfians now call Tchelminar, or Chelminar; q. d. the 40 columns; because there are so many columns remaining pretty entire, with the traces of others; a great quantity of baffo-relievos, and unknown characters, fufficient to shew the magnifice ce of the antique archi.ecture. The most remarkable ruins now existing of whole cities are those of PALMYRA and PERSEPOLIS, of the grandeur of which tome idea may be formed from the views given in the plates referred to from these articles, to which may be added those of HERCULANEUM and POMPEH. The magnificent reins fill remaining in Rome, Athens, &c. of particular edifices, as temples. palaces, amphitheatres, aqueducts, baths, &c. it were endless to chumerate, and beyond the plan of this work

RUIZIA, a genus of plants belonging to the monadelphia class; and in the natural method ranking under the 37th order, Columniferie. See BOTANY

RULE, in matters of literature, a maxim, canon, or precept, to be observed in any art or science.

RULE, in a monattic fense, a syttem of laws or regulations, according to which religious houses are governed, and which the religious make a vow, at their entrance, to observe. Such are the rules of the Augustines, Benedictines, Carthusians, Franciscans, &c. See AUGUSTINES, &c.

RULEs of Court, in Law, are certain orders made from time to time in the courts of law, which attorneys are bound to observe, in order to avoid confusion; and both the plaintiff and defendant are at their peril also bound to pay obedience to rules made in court relating

to the cause depending between them.

It is to be observed, that no court will make a rule for any thing that may be done in the ordinary course; and that if a rule be made, grounded upon an alfidavit, the other fide may move the court against it, in order to vacate the fame, and thereupon shall bring into court a copy of the affidavit and rule. On the breach and contempt of a rule of court an attachment lies; but it is not granted for disobedience to a rule, when the party has not been personally served; nor for disobeying a rule made by a judge in his chamber, which is not of force to ground a motion upon, unless the same be en-

A rule of court is granted every day the courts at Weitminster fit, to prisoners of the King's bench or Fleet prisons, to go at large about their private affairs.

RULE of Three. Sce ARITHMETIC and PROPOR-TION.

RULE, or Ruler, an inframent of wood or metal, with feveral lines delineated on it; of great use in practical mensuration. When a ruler has the lines of chords, tangents, fines, &c. it is called a plane feale.

RUM, a species of brandy or vinous spirits, distilled

from fugar-canes.

Rum, according to Dr Shaw, differs from fimple fugar-spirit, in that it contains more of the natural flayour or effential oil of the fugar-cane; a great deal of raw juice and parts of the cane itself being usually fermented in the liquor or folution of which the ram is prepared. The unctuous or oily flavour of rim is often upposed to proceed from the large quantity of fix used in boiling the figar; which fat, indeed, if coarfe, will usually give a flusking flavour to the fairit in our dittill-lations of the figar liquor or wath, from our refiniting flugar-boases; but this is nothing of kin to the flavour of the rum, which is really the effect of the natural flavour of the cane.

The method of making rum is this: When a fufficient fock of the materials are got together, they add water to them, and ferment them in the common method, though the fermentation is always carried on very flowly at ful; because at the beginning of the season for making rum in the islands, they want yeaft or some other ferment to make it work: but by degrees, after this, they procure a sufficient quantity of the ferment, which rises up as a head to the liquor in the operation; and thus they are able afterwards to ferment and make their rum with a great deal of expedition, and in large quantities.

When the wash is fully fermented, or to a due degree of weldity, the diffillation is carried on in the common way, and the spirit is made up proof: though sometimes it is reduced to a much greater strength, nearly approaching to that of alcohol or spirit of wine; and it is then called doubbe-diffilled rum. It might be easy to re-citify the spirit, and bring it to much greater purity than we usually find it to be of: for it brings over in the distillation a very large quantity of the oil; and this is often so disgresselbe, that the rum must be suffered to lie by a long time to mellow before it can be used; whereas, if well resclided, it would grow mellow much sooner, and would have a much less potent sta-

The best state to keep rum in, both for exportation and other uses, is doubtless that of alcohol or reclified spirit. In this manner it would be transported in one half the bulk it usually is, and might be let down to the common proof-strength with water when necessary: for the common use of making punch, it would likewise serve much better in the state of alcohol; as the taste would be cleaner, and the Arength might always be regulated to a much greater exactness than in the ordinary way.

The only use to which it would not so well serve in this state, would be the common practice of adulteration among our diffillers; for when they want to mix a large portion of cheaper spirit with the rum, their business is to have it of the proof-strength, and as full of the slavour of the spirits they mix with it, and extend its swwn. If the business of rectifying rum was more nicely managed, it seems a very practicable scheme to throw out so much of the oil, as to have it in the sine light state of a clear spirit, but lightly impregnated with it in this case it would very nearly resemble arack, as is proved by the mixing a very small quantity of it with a tasteless spirit, in which case the whole bears a very near resemblance to arack in stavour.

Rum is usually very much adulterated in Britsin; fome are so hare-fixed as to do it with malt spirit; but when it is done with molailes spirit, the tastes of both are so nearly allied, that it is not easily discovered. The best method of judging of it is by fetting fire to a little of it; and, when it has burnt away all the inflamma-

ble party examining the phlegm both by the talk and finell.

Rum is a confiderable island, one of the Hebrides, Russiand or rather one continued rock, of nearly 30 miles in circumference. It is the property of Mr Maclean of Coll; contains 400 inhabitants; grazes cattle and sheep; pays above 2001, rent annually: but has neither kelp, free-

flone, nor lime.

RUMELIA, in Geography, the fame with ancient

Greece; now a part of Turkey in Europe.
RUMEN, the pounch, or first stomach of such animals as chew the cua; thence called Ruminant Animals.
See ANATOMY, COMPARATIVE.

RUMEX, DOCK, a genus of plants belonging to the hexandria class, and in the natural method ranking under the 12th order, Holoraceae. See BOTANY Index.

RUMINANT, in Natural Hiftery, is applied to an animal which chews over a sain what it has eaten before; which is popularly called chewing the cud. Peyer, in a treatife De Ruminantibus et Ruminatione, shows that there are ofnen animals which really ruminate; as oxen, sheep, deer, goats, camels, hares, and squirrels: and that there are others which only appears to do so, as moles, crickets, bees, beetles, crabs, mullets, &c. The latter class, he observes, have their slomachs composed of musicalar shorts, by which the food is ground up and down'as in those which really ruminate. Mr Bay observes, that ruminants are all four-footed, hairy, and vivinarous; some with hollow and perpetual horns, others with deciduous ones.

RUMP OF THE SACRIFICE. Mofes had ordained, that the rump and fat of the sheep that were offered for a peace-offering should be put upon the fire of the altar, (Lev. iii. 9, viii. 2, viii. 25; ix. 19.). The rump was effected the most delicate part of the animal.

RUMPHIA, a genus of plants belonging to the triandria class, and in the natural method ranking with those of which the order is doubtful. See BOTANY

RUNCIMAN, ALEXANDER, an eminent Scottish painter, was born in Edinburgh in the year 1736. He was the fon of an architect, a profession which has a strong affinity to that of painting. The opportunity he thus enjoyed of examining his father's drawings, gave him an early propenfity to the art in general, which he very foon evinced by making fketches of any remarkable object, either of nature or art, that happened to come in his way. We are unacquainted with the gradual progress of his fertile genius; but it is not to be supposed that he long remained satisfied with the delineations of straight lines, while the fafeinating beauties of landscape lay open to his inspection. Water that falls over a rugged precipice in the form of cafcades, or the foaming lurges of the deep, when carried like hoar frost with impetuosity into the air, both astonish and delight by their awful grandeur. Theie objects. and fuch as thefe, would naturally fire the genius of Runciman at an early period.

He was bound an apprentice to John and Robert Norries in the year 1750; the former of whom was a landfeape painter of very comfederable eminence, and by his inferections our young artill made rapid progress. About the year 1755, when only 10 years of age, he began profeffionally to paint landscapes; from which it appeared that they were by no means art, attempts, as they emiRuncimen ced his ardent application to study before he ventured to appear at the tribunal of the public. Yet, although these were excellent, they were nothing more than the dawn of that dillinguished eminence to which he afterwards attained. His reputation as a painter of landicage continued to increase during five years; but such was the strength of his genius, and the amazing fertility of his invention, that he could not rest satisfied with eminence in a fingle department. About the year 1760 he fuccessfully attempted historical painting, in which his mind had more ample scope than in pourtraying the solemn silence of a field, a humble cottage, or a shepherd void of ambition. Six years of his life were devoted to the study and practice of this important branch of the art, notwithstanding his situation was attended with numerous disadvantages. Great, however, as his attainments were in this department, he never could be fatisfied with himfelf, till he had studied in Italy those masterly performances which it was his highest ambition to imitate.

> He accordingly fet out for Italy in the year 1766, when just 30 years of age, and during a residence of five years in that enchanting country, where specimens of his favourite art are met with in all their grandeur and perfection, he continued to copy the best pictures of the ancient masters, in consequence of which his talle was very much corrected and improved. His conceptions were also greatly enlarged, by the steady contemplation of fo many fublime works of the greatest and most celebrated artists. The art of composition, which it is of the first consequence for an historical painter to understand, was only to be acquired from the study of its principles, as these are exemplified in such highly finished models; and to these he applied himself with indefatigable industry. He caught the rich yet chaste co-louring of the Venetian school with such truth, that he was allowed to surpass all his competitors in this valuable quality.

> In the year 1771, Runciman returned to his native country, in the full poffelfion of fuch improvements as were to be expected from the opportunities he enjoyed, and also with a judgment very much matured. It will readily be granted that he had now fome claim upon the patronage of his country, and we are happy to add that this was not withheld; for the Honourable Board of Truftees, and Sir James Clerk of Pennycuick, were among his patrons; and to Mr Robert Alexander in particular, a respectable merchant in Edinburgh, his country was more indebted for the foftering of his rifing genius, than to the whole of its nobility.

> An academy for the study of drawing and painting was established in Edinburgh by the honourable trudees for the encouragement of arts in Scotland, of which De la Cour and Pavilso, two French artists of some ability were successfully chosen masters. When Pavilon dick in 1771, an application was made to Runciman to take charge of the academy, the laborious and interesting duties of which he discharged much to his own honour and the benefit of his country.

His mailerly work in the Hall of Offian at Pennyculck, the feat of his parron Sir James Clerk, was projected and begun by him foon after his return to Edinburgh. Of this performance, the following account was given by a very eminent judge.

"The fate of old Ollian feems to have been peculiarly happy. Upon the eve of being deferted by tradi-Vol. XVIII, Part I.

tion, his only preferver, and even by the language it. Ranciman felf, the genius of Macpherson interposed, received the charge, and gave him to the world.

"Fortunate in a translator, the Celtic bard has been equally so, in receiving his fame from the taite and judgment of a critic, blett with every valuable quality and character.

"To complete the honours of the poet, nothing was wanting, but the attendance of the fifter art. It was therefore with uncommon pleafure, that I heard his being adopted by a native artift, under the patronage of a gentleman, diffinguished by a fine task and warm regard to the arts. The work, which is now finished, is the only original performance ever executed in Scctland."

The next able performance of Runciman was the picture of the Alcension, painted on the ceiling above the altar of the Episcopal Chapel, Cowgate, Edinburgh.

The fire and feeling displayed in his King Lear, were conceived and executed in a manner not inferior to those of Shakespeare; and the Andromeda, from which Legat took his highly finished engraving, will bear a comparison, in respect of colouring, with the works of Titian or Corregio. He appears to have regarded his own historical work of Agrippina landing the astes of Germanicus her hutband, as a capital performance, in the execution of which he bestowed more than ordinary pains; and posterity will determine that his opinion was just, as the ingenious Mr Brown bestowed upon it the highest encomiums.

While his health permitted (which the painting the hall of Offian had much impaired), he continued to fuperintend the bufinels of the academy, and devoted his leifure hours to the drawing of historical pieces. He enjoyed a competency from his office as teacher, which, with the emoluments arifing from his other works, made him independent. He never formed any matrimonial connection, but he had a natural fon called John, who was bred to the occupation of a filversmith, and went afterwards to refide in London.

Runciman as a man, was possessed of great candour and simplicity of manners, having a happy talent for conversation, which made some of the most distinguished literary characters, such as Hume, Robertson, Kaims, and Monboddo, extremely fond of his company; but the genuine worth of this eminent man, and his real goodness of heart, were only fully known to his most intimate friends. He could communicate information with great facility, and gave his best advice to young artists, with a view to further the progress of their improvement.

As a painter, his character has been eleganity drawn by a brother critif, the accomplished Mr John Brown, who was better qualified than most men to make a proper estimate of his merits. We shall lay this sketch before our readers in his own words.

\* Mr liuncium was an artiit by nature, eminently qualified to excel in all those nobler parts of the art, the attainment of which depends on the possession of the highest powers of the nand.—Though for a long period of years labouring under every possible disdavantage, he completed works, which upon the whole, are equal to the best us those of his cotemporaries, and in some ripedes, it may be boldly afferted, that they are superior.—His fancy was fertile, his discrement of character.

X x

Streiman keen, his taffe truly elegant, and his conceptions always great .- Though his genius feems to be best fuited to the grand and ferious, yet many of his works amply prove, that he could move with equal fuccess in the less elevated line of the gay and pleafing. His chief excellence was composition, the noblest part of the art, in which it is doubted whether he had any living fuperior. With regard to the truth, the harmony, the richness, and the gravity of colouring; in that flile, in thort, which is the peculiar characteritic of the ancient Venetian, and the direct contrast to the modern English febool, he was unrivalled. His works, it must be granted, like all those of the present times, were far from being perfect; but it was Mr Runciman's peculiar misfortune, that his defects were of fuch a nature, as to be obvious to the most

> The fine arts and his friends were deprived of this extraordinary painter, on October 21st 1785.

RUNDLET, or RUNLET, a fmall veffel, containing an uncertain quantity of any liquor, from 3 to 20

RUNGS, in a ship, the same with the sloor or ground timbers; being the timbers which constitute her floor; and are bolted to the keel, whose ends are

rung-heads.

RUNG-Heads, in a ship, are made a little bending to direct the fweep or mold of the futtocks and naveltimbers; for here the lines begin which make the compass and bearing of the ship.

RUNIC, a term applied to the language and letters of the ancient Goths, Danes, and other northern na-

tions. See ALPHABET.

RUNNER, in the sea-language, a rope belonging to the garnet and the two bolt-tackles. It is reeved in a fingle block joined to the end of a pendant: it has at one end a hook to hitch into any thing; and, at the other, a double block, into which is reeved the fall of the tackle, or the garnet, by which means it purchases more than the tackle would without it

RUNNING-THRUSH, a difease in the feet of horses.

Sce FARRIERY Index.

RUNNET, or RENNET, is the concreted milk found in the stomachs of sucking quadrupeds, which as yet have received no other nourishment than their mother's milk. In ruminating animals, which have feveral stomachs, it is generally found in the last, though sometimes in the next to it. If the runnet is dried in the fun, and then kept close, it may be preserved in perfection for years. Not only the runnet itself, but also the stomach in which it is found, curdles milk without any previous preparation. But the common method is, to take the inner membrane of a calf's stomach, to clean it well, to falt and hang it up in brown paper : when this is used the falt is washed off, then it is macerated in a little water during the night, and in the morning the infusion is poured into the milk to curdle it. But fee more particularly the article CHEESE for a proper seceipt to make runnet, upon which the quality of the cheefe greatly depends.

RUPEE, a filver coin current in the East Indies,

equal to about 2s. 6d. sterling.

RUPERT, or ROBERT. See ROBERT.

RUPERT, prince palatine of the Rhine, &cc. fon of Frederic prince elector palatine of the Rhine and Eli-

fabeth daughter to King James I. of Eugland, was born Rupert. in 1619. He gave proofs of his bravery at the age of 13; and in 1642 came over into England, and offered his fervice to King Charles I. his uncle, who gave him a command in his army. At Edgehill he charged with incredible bravery, and made a great flaughter of the parliamentarians. In 1643 he feized the town of Circucefter; obliged the governor of Litchfield to furrender; and having joined his brother Prince Maurice, reduced Bristol in three days, and passed to the relief of Newark. In 1644 he marched to relieve York, where he gave the parliamentarians battle, and entirely defeated their right wing; but Cromwell charged the marquis of Newcastle with such an irresistible force, that Prince Rupert was entirely defeated. After this the prince put himself into Bristol, which furrendered to Fairfax after a gallant refistance. The king was fo enraged at the loss of this city, fo contrary to his expectation, that he recalled all Prince Rupert's commiffions, and fent him a pass to go out of the kingdom. In 1648 he went to France, was highly complimented by that court, and kindly received by King Charles II. who fojourned there for the time. Afterward he was constituted admiral of the king's navy; attacked the Dutch ships, many of which he took; and having engaged with De Ruyter, obliged him to fly. He died in 1682, and was interred with great magnificence in King Henry VII.'s chapel, Westminster. Mr Grainger observes, that he possessed in a high degree that kind of courage which is better in an attack than a defence; and is less adapted to the land-service than that of the fea, where precipitate valour is in its element. He feldom engaged but he gained the advantage, which he generally loft by purfuing it too far. He was better qualified to florm a citadel, or even to mount a breach, than patiently to fustain a siege; and would have furnithed an excellent hand to a general of a cooler head.

This prince is celebrated for the invention of prints in mezzotino, of which he is faid to have taken the hint from a foldier's fcraping his rufty fufil. The first print of this kind ever published was done by his highness, and may be seen in the first edition of Eve-lyn's Sculptra. The secret is said to have been soon aster discovered by Sherwin an engraver, who made use of a loaded file for laying the ground. The prince, upon seeing one of his prints, suspected that his servant had lent him bis tool, which was a channeled roller; but upon receiving full fatisfaction to the contrary, he made him a prefent of it. The roller was afterwards laid aside; and an instrument with a cronelled edge, shaped like a shoemaker's cutting knife, was used instead of it. He also invented a metal called by his name, in which guns were cast; and contrived an ex-cellent method of boring them, for which purpose a water-mill was crected at Hackney-marsh, to the great detriment of the undertaker, as the fecret died with the

illustrious inventor.

RUPERT's Drops, a fort of glass drops with long and flender tails, which burst to pieces on the breaking off those tails in any part; faid to have been invented by Prince Rupert, and therefore called by his name. Concerning the cause of this surprising phenomenon scarcely any thing that bears the least appearance of probability has been offered. Their explosion, it is faid, is attended

Rupin tended in the dark with a flash of light; and by being Rushworth quality.

RUPIN, or RAPIN, a town of Germany, in the marquifate of Brandenburg, and capital of a duchy of the fame name. It is divided into the Old and the New. The Old was nothing but an ancient caffle, very well furnifhed, the late king of Prufia, before his father's death, refiding there. New Rupin is feated on a lake, and become a confiderable place of trade, with a manufactory of cloth. It is also noted for brewers. E.

Long. 13. 23. N. Lat. 53. 0.
RUPPIA, a genus of plants, belonging to the tetrandria class; and in the natural method ranking under the 15th order, Inundates. See BOTANY Index.

RUSCUS, KNEE-HOLLY, or Butcher's Broom; a genus of plants, belonging to the dioecia class; and in the natural method ranking under the 11th order, Sar-

mentaceæ. See BOTANY Index.

The most remarkable species is the aculeatus, or common butcher's broom, common in the woods in many parts of England. It has roots composed of many thick fibres which twine about each other; from which arife feveral stiff green stalks about three feet high, fending out from their fides feveral fhort branches, garnithed with stiff, oval, heart-shaped leaves, placed alternately on every part of the stalk, ending with sharp prickly points. The slowers are produced in the middle, on the upper fide of the leaves; they are fmall, and cut into fix parts; of a purple colour, fitting close to the midrib. They appear in June; and the female flowers are succeeded by berries as large as cherries, of a fweetish taste, which ripen in winter; when they are of a beautiful red colour. As this plant grows wild in most parts of England, it is rarely admitted into gardens; but if fome of the roots be planted under tall trees in large plantations, they will fpread into large clumps; and as they retain their leaves in winter, at that feafon they will have a good effect. The feeds of this plant generally lie a year in the ground before they vegetate; and the plants fo raifed are long before they arrive at a fize big enough to make any figure, and therefore it is much better to transplant the roots .-The root of this plant is accounted aperient, and in this intention is fometimes made an ingredient in apozems and diet-drinks, for opening flight obstructions of the viscera and promoting the fluid fecretions. This plant is used by the butchers for befores to sweep their blocks, Hucksters place the boughs round their bacon and cheefe to defend them from the mice; for they cannot make their way through the prickly leaves.

RUSH. See Juncus, Botany Index.
RUSH-Candles. See Rufb-CANDLES.

RUSHWORTH, John, the compiler of fome uffful collections respecting the affairs of state, was born in Northumberland about the year 1627, and was defecteded of horourable ancetors. After attending the university of Oxford for some time, he removed to Lincoln's Ian; but the study of law not futting his genius, he soon deserted it, in order to seek a study information. He frequently attended the meetings of parliament, and wrote down the speeches both of the king and members. During the space of 11 years, from 1632 to 1642, when no parliament was held, he was an attentive observer of the great transations of state in Rushw wh the star-chamber, the court of honour, and exchequer chamber, when all the judges of England attembled there on cases of great emergency. Nor did he neglect to observe with a watchtul eye those events which happened at a distance from the capital. He wisted the camp at Eerwick, was present at the battle of Newborn, at the treaty of slippon, and at the great council of Nork.

In 1640 he was appointed affaitant to Henry Elfunge clerk to the house of commons, and thus had the best opportunities of being acquainted with their debates and proceedings. The commons confidered him as a perfon worthy of confidence. In particular, they trufled him with carrying their melfages to the hing while he remained at York. And when the parliament created Sir Thomas Fairfax their general, Rushworth was appointed his fecretary, and discharged the office much to the advantage of his mafter. When Fairfax refigned his commillion, his fecretary returned to Lincoln's Inn, and was foon after (in 1651-2) chosen one of the committee that was appointed to deliberate concerdig the propriety and means of altering or new-modelling the common law. He was elected one of the representatives for Berwick-upon-Tweed to t'e parliament which Richard Cromwell affembled in 1658, and was re-elected by the fame town to the parliament which reftored Charles II.

After the Reftoration, he delivered to the king feveral books of the privy-council, which he had preferved in his own possession during the commotions which then agitated the country. Sir Orlando Bridgeman keeper of the great feal chose him his fecretary in 1677, an office which he enjoyed as long as Sir Orlando kept the feals. In 1678 he was a third time chosen member for Berwick, and a fourth time in the enfuing parliament in 1679 He was also a member of the parliament which was convened at Oxford. The different offices he had held afforded him favourable opportunities of acquiring a fortune, or at least an independence; yet, whether from negligence or prodigality, he was never poffested of wealth. Having run himself into debt, he was arrested and committed to the King's Bench prison, Southwark, where he lingered for the last fix years of his life in the most deplorable condition. His memory and judgement were much impaired, partly by age and partly by the too frequent use of spirituous liquors. He died on the 12th of May 1690.

His " Historical Collections of private Passages in State, weighty Matters in Law, remarkable Proceedings in Parliament," were published in folio at different times. The first part, comprehending the years between 1618 and 1629, appeared in 1659. The copy had been entrusted by Oliver Cromwell to Whitclock, with instructions to peruse and examine it. Upon perusing it, he thought it necessary to make some alterations and additions. The fecond part was published in 1680; the third in 1692; the fourth and last, which comes down to the year 1648, was published in 1701; and altogether made feven volumes. The'e underwent a fecond edition in 1721; and the trial of the earl of Strafford was added, which made the eighth. This work has been much applauded by those who condemn the conduct of Charles I. and accused of partiality by those who favour the cause of that unhappy monarch. One person

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Ruthwords in particular, Dr John Nellon of Cambridge, in a Col-Hection of the Affairs of State published by the command

of Charles II. undertook to prove, " that Ruthworth has concealed truth, endeavoured to vindicate the prevailing detractions of the late times, as well as their barbarous actions, and with a kind of rebound to libel the government at second-hand." This accusation seems to be carried too far. His principles indeed led him to show the king and his adherents in an unfavourable light, and to vindicate the proceedings of parliament; yet it cannot juttly be affirmed that he has mifreprefented or falfified any of the speeches or facts which he has admitted into his collection. Perhaps he may have omitted fome papers merely because they were unfavourable to the party which he had espoused; and is therefore not to be confidered as an impartial historian who relates the whole truth, but as an honest lawyer, who states all his facts fairly and candidly, but paffes over fuch as are injurious to his client's cause.

RUSSELIA, a genus of plants belonging to the

pentandria class. See BOTANY Index.

and boun-

daries.

Sytent.

Divitions.

RUSSIA, the largest empire, and one of the most powerful states in the known world, is fituated partly in Europe, partly in North America, but chiefly in Afia; where it occupies that immense track of country which extends from the Uralian mountains and the Caspian on the west, to Bering's straits and the sea of Kamtschatka on the east, comprehending a great variety of tribes and nations, whose very names were, half a century ago, fearcely known to the west of Europe. This vast empire is bounded on the north by the Arclic ocean; on the east by the Northern Pacific or Eastern ocean; on the fouth by the extensive Chinese territories, the Mogul empire, the Caspian sea, and part of Turkey; and on the west by the Austrian dominions, the kingdoms of Pruffia and Sweden, and the Baltic.

If we examine the extent of the Russian empire, we shall find it stretching from the western part of the island of Ozel in the Baltic in 220 E. Long, from Greenwich, to the eastern promontory of the Tschutchki territory in 1720 E. from the fame meridian; thus including 1500 of longitude; while, from its most northern promontory in N. Lat. 78°, to the most fouthern point of 39° N. it comprehends 30° of latitude. Mr Tooke, computing its extent in British miles, estimates it at 9200 in length, and 2400 in breadth. Its absolute superficial measure in fquare miles can scarcely be ascertained. That of the European part is estimated at 1,200,000 square miles; and the Afiatic part alone is fo extensive as to exceed

the whole of Europe.

The whole Russian empire is, by the natural boundary of the Uralian mountains, divided into European and Afiatic Ruffia; the former comprehending Ruffia Proper, Ruffian Lapland, Courland, Livonia, Ruffian Poland, the Taurican Cherfonelus or Crim Tartary, and the country of the Kozaks, bordering on the fea of Azof; the latter including the country of the Samoieds, the vast diffrict of Siberia, the country of the Tichutchki, the country of the Mongul Tartars, and fome other districts that will be noticed hereafter. The

whole empire was, by Catharine II. divided into go- Rudiate vernments, denominated in general from the names of their capital cities. Of thele governments, by far the greater number belong to European Ruffia, the vaft tract of the Afiatic part having been divided into only two governments, viz. that of Tobolik to the west, and Irkutik to the east.

In enumerating the governments of European Ruffia. we shall begin with the north, where lies the extensive : government of Archangel, stretching from the confines of Sweden along the shores of the White sea and the Arctic ocean, to the Uralian chain. To the fouth of this, along the Afiatic frontier, as far as the fea of Azof, are fituated the governments of Vologda, Perm, Vyotka, Kazan, Simbirík, Saratof, and the territory of the Don Kozaks. To the west of these last, along the fea of Azof and the Black fea, lies the government of Catharinoslaf, including Taurida and the Crimea. On the western side of the empire extend the acquisitions derived from the partition of Poland; and along the fouthern shores of the Baltic lie the governments of Riga, Reval, St Petersburgh, and Viborg; while that of Olonetz on the frontiers of Sweden completes the circuit. The remaining governments which occupy the centre, are those of Novgorod, Tver, Kostroma, and Yaroflavl, that lie chiefly to the north and east of the Volga; and those of Polotsk, Pskov, Smolensk, Moskva, Vladimir, Nizney-Novgorod, Moghilef, Kaluga, Toula, Reazan, Tambof, Penza, Orel, Sieverskof, Tchernigof, Koursk, Kief, Kharkof, and Voronetz, lying principally to the west of the Volga (A).

In the account which we are here to give of this extenfive empire, which has of late made to confpicuous a figure among the states of Europe, we shall first confider what may be called the permanent features of the empire, as the face of the country, the foil, the mountains, rivers, lakes, and forests, the climate and feafons, and the most important natural productions; we shall then trace its origin and progress in the history of its transactions, from which we shall deduce its progressive geography; and we shall conclude with describing the more fluctuating circumstances, which constitute its po-

litical and civil geography:

In a tract of country to immenfe, which is calculated Face of the to include a feventh part of the known continent, and country. nearly a twenty-fixth part of the whole globe, its furface must present a great variety of appearances; but these are much more remarkable in Asiatic than in European Russia. The latter is distinguished chiefly by extensive plains, called Reppes, that rival the deferts of Afia and Africa, presenting to the eye little more than a rast expanse of level fand, with very little appearance of vegetation. The chief fituation of these steppes is towards the fouth, especially in the neighbourhood of the fea of Azof, where they extend in length above 400 British miles. In this part of the empire there are but few confiderable elevations, and no mountains of inteportance, except on the eastern frontier, and towards the fouth, between the Don and the Volga. The whole country is well watered with rivers, and contains numer-

<sup>(</sup>A) In our orthography of the names of persons and places we have followed Mr Tooke, who has explained the principles of Rustian orthography, in his History of Rustia, vol. i. p. 130.





Rulla, lous latge and nopulous towns. In the north and eath of of artificial graffes unneceffary. Most parts of Siberia Rulling A hatic Ruffia, we see little more than extensive marshy are totally incapable of agriculture and improvement. plains, covered with almost perpetual snow, and crossed bytbroad rivers, which take their course to the Arctic ocean. In this part, and even towards the centre of Silieria, vegetation is fo much checked by the fevere cold, that few trees are to be feen; but towards the fouth there are vait forests of pine, fir, larch, and trees of a fimilar nature. In some parts of this division of the empire, especially about lake Baikal, the scenery is beautiful and picturefque. Here, too, the country

abounds in steppes, which are still more extensive than thole of the European part.

As these steppes are among the most striking peculiarities of the Russian empire, it may be proper to confider them rather minutely. These steppes resemble, in many respects, the fandy deserts of Africa; but though their foil is composed of the same materials, they are not fo barren of vegetation, exhibiting here and there feat-tered patches of thin grafs, and at ditant intervals, small stunted thickets. In general they are destitute of wood, though in a few places we find fmall forests of birch trees. They abound with falt lakes, but streams of fresh water are uncommon. The most remarkable steppes are, as we have faid, those of Asiatic Russia, and of these there are four that merit particular notice. One of these extends between the rivers Volga and Ural, and was formerly called the KALMUK steppe. On the north it skirts the floetz mountains that proceed from the Uralian chain, while to the fouth it borders on the Cafpian. This fandy plain contains a few districts that are well adapted to the purposes of agriculture, but in general it is defititute of wood and fresh water. It abounds in salt lakes, and is very thinly inhabited. The second great steppe is that which extends between the Tobol and the Irtysh, and between this latter river and the Alay and the Oby, as far as the influx of the Irtysh into the Oby. This comprehends a most extensive territory, containing numerous forests of birch, pines, and firs, interspersed with falt lakes, and in most places well calculated for pasturage and agriculture. The greater part of this steppe lies in the government of Tobolsk. A third comprehends that large tract that lies beyond the river Tshulim, between the Oby and the Yenisty, as far as the shores of the Arctic ocean. In this steppe there is much wood, efecially towards the fouth, where there are confiderable forests. Eastward from this, between the Yenissy, the Tunguska, and the Lena, hes a fourth defert, refembling the last in its appearance, and the nature of its foil, but containing less wood. A great part of this steppe lies in the government of Irkutik.

The mountains in Afiatic Ruffia are indeed more numerous, but are not remarkable for their height. The rivers are large and majeffic, and are navigable for a

confiderable extent.

The foil is of course extremely various. That of the northern parts is marthy, and little fusceptible of cultivation, but the fouth abounds in rich and fertile plains. The most fertile part of European Russia is that between the Don and the Volga, from the government of Voropetils to that of Simbirik. Here the foil confills of a black mould, strongly impregnated with nitre, and is for rich, that the fields are never manured. The harvests are abundant, and the natural pastures render the fowing

We have already remarked that Ruffin is rather a flat Mountains. than a mountainous country, and this character is particularly applicable to the European part. The most elevated region of this division lies in the road between St Petersburgh and Mosco, and is commonly called the mountain of Volday, though denominated by the natives Vhisokaya Plottchade, or the elevated ground. This mountain is flat at the top, is furrounded with large fand hills, interspersed with granite rocks, and has in its vicinity feveral lakes and groves. In this mountain are the fources of the rivers Duna, Volga, and Dniepr.

To the fouth-west, bounding the steppe of the Dniepr, lie the mountains of Taurida, which are rather romantic, from their adjacent scenery, than remarkable for their height. Between them and the shores of the Black fea lie beautiful valleys, abounding with olives, figs, and pomegranates, while the steepest cliffs of the mountain are adorned with the red bark and evergreen foliage of the arbutus. These valleys are very productive in vineyards, and feed numerous flocks of theep and goats.

The largest mountainous tract of European Russia is that of Olonetz, that lies between the Swedish frontiers and the White sea. This chain occupies a fpace of nearly 150, or above 1000 British miles, run-

ning almost due north. This chain is of no great height, but its northern part is covered with perpetual fnow. These mountains are very rich in mineral products, which will be noticed hereafter,

The Uralian mountains that feparate European from Afiatic Ruffia, have been fufficiently described in the article Geology, No 131, 135.

The mountains of Afiatic Ruffia are more numerous and more important. They include the Altaic chain, the mountains of Savansk, of Yablonnoy, and Stanovoy, forming the fouthern boundary between the Ruffian and Chinese empires, and the classical range of Caucasus, extending between the Caspian and the Black fea. Of thefe, the Altaio chain has also been sufficiently descriabed under GEDLOGY, No 132; and as the other mountains to the fouth and east may be considered as a continuation of the fame chain, they need not occupy our attention in the present article.

The ridge of Mount Caucafus divides Ruffia from Turkey to the west, and from Persia to the east, and extends between the Euxine and the Caspian for about 400 British miles. It is not of any considerable breadth, being in no part more than 20 or 30 miles across, and in some places not more than five or fix. Its height is confiderable, and its fummits are covered with eternal ice and fnow. The valleys at its foot abound in forest trees; and the bowels of the mountain contain veins of filver, lead, and copper.

Among the mountains of the Ruffian empire we must Volcances. not omit the volcanoes of Kamtichatka. The whole of this peninfula is divided lengthwife by a chain of lufty, rocky mountains, commonly covered with fnow, and shooting into conieal summits that very frequently emit fmoke, and fometimes burst out into flame. We do not find, however, that they pour out lava, or water, like the European volcanoes. Many of them appear to be

and a satisfy;

Sci), 5

Ruffia. extinct, but their former volcanic flate is evinced by the appearance of craters at their fummits. In the neighbourhood of these volcanoes there are hot springs, not inferlor in temperature to those of Iceland, and like them throwing up jets of water with a great noise, but to an inconfiderable height.

Seas.

gulfs.

Rivers.

The feas that are connected with Russia are, the Arctic ocean, and that part of the Pacific which has been called the eaftern Archipelago, forming its northern and castern boundaries; the inland seas of the Baltic, the Black fea, the fea of Azof, the Caspian, the fea of Aral, and the fea of Okhotik. Some account of thefe, except the fea of Okhotik, will be found under their respective articles in this work.

The fea of Okhotsk may be confidered as a large gulf lying between the peninfula of Kamtschatka to the east, and the country of the Tungousi to the west. Its entrance from the Pacific ocean is closed by a chain of fmall islands, called the Kourilskie islands, and within thefe are the two large islands of Ezzo and Sackhalin. Its principal port is Okhotik, at the mouth of the fmall river Okhota, and to the north-east it has a con-

fiderable branch called the fea of Pengina.

The shores of Russia are hollowed out into numerous indentations, forming feveral important bays and gulfs. The most remarkable of these are, the gulf of Finland . in the Baltic, that of Archangel in the White fea, the bays of Oby and of Enisfy in the Arctic ocean; the bay of Anadhir in the eaftern Archipelago; the large gulf of the fea of Okhotzk, called the fea of Pengina, and the harbour of St Peter and St Paul in the fouthern extremity of Kamtschatka.

This extensive empire is watered by numerous and important rivers, which traverse it in every direction. These we shall class, not according to the divisions of the empire through which they pass, but according to

the feas or occans into which they flow.

The rivers which flow into the Baltic are, the Duna The which fall into the White fea and the Neva. are the Onega and the Dvina to the west, and the Keiloi and the Mesen to the east. Into the Arctic ocean flow the Cara, the Petfhora or Bolfhaia Petfhora, the Oby, which receives the Irtysh; the Tobol, the Yeniffy, the Khatanga, the Lena, the Yana, the Indighirka, and the Kolyma. Those which flow into the eastern Pacific are, the Anadhir and the Kamtschatka. Into the Caspian sea fall the Yemba or Emba, the Ural or Yaik, the Volga, receiving the Kamma, and the
-Okka and the Terek. Laftly, there flow into the
Black sea, the Khuban, the Don, the Dniepr or Nieper, the Bog or Bogue, and the Dniestr or Niester. Of these rivers we have already given an account of the Don, the Dvina, the Irtysh, the Lena, the Nieper, the Niester, the Oby, and the Onega, under their refpective titles, and an account of the Volga will be found under that head. We shall here add a brief view of the

The Duna, fometimes called the western Dvina, rifes between the provinces of Pskov and Smolensk, and takes a north-westerly course for about 500 miles, till it falls into the Baltic at Riga. This river has fome confiderable and dangerous falls; and when the ice breaks Ruffa. up on the approach of warm weather, vast quantities of it are hurried down the stream, so as frequently to do much injury to the port of Riga.

Of those rivers which flow into the Arctic ocean, the Cara is one of the most inconsiderable, were it not that it completes the boundary between Europe and Afia to the north. It runs from the Uralian mountains to the fea of Karskoye, a distance of about 140 miles.

The Petihora rifes in the Uralian mountains, in the government of Vologda, runs across the government of Archangel, and falls into the Arctic ocean at Poofto-

zertik, after a course of about 450 miles,

The Tobol rifes in the chain of mountains that fenarate the government of Ufa from the country of the Kirghistzi, and empties itself into the Irtysh at Tobolsk.

after receiving numerous tributary streams.

The Yenisly, or Enyssi, is formed by the junction of two rivers, viz. the Kamfara and the Veikem or Baykema, which belong to China. It first enters the Ruffian dominions, where alone it has the name of Yenissy, at the mouth of the Bon-Kemtshyng, and after running northward, and forming a bay containing feveral islands, it falls into the Arctic ocean about 20 eastward of the mouth of the Oby.

The Khatanga rifes from a lake in the government of Tobolik, and falls into a large bay of the Frozen ocean, called Khatanskaia Guba. Its course is through a low

and very marfly country.

The Yana rifes from a little lake in about 640 N. lat. and after making fome fmall turns, runs northward to the Arctic ocean, forming five confiderable arms that empty themselves into a capacious bay.

The Indighirka rifes near the fource of the Yana, but on the other fide of the mountains. At its efflux into the Arctic ocean after a course of 1200 versts, (B) it

forms four great arms.

The Anadhir rifes in the country of the Tschutchki. Its bed is fandy, its channel very broad, and its current flow. It is so shallow that it can scarcely be crossed by the common ferry boats of the country, though these draw no more than two feet of water. It takes its course through a flat country, which on the north fide of the river is destitute of wood, but overgrown with mofs, affording pasture to innumerable herds of rein deer; but on the fouth well wooded and abounding with verdure. It falls into a confiderable bay a little fouth of the tropic of Cancer, called the bay of Anadhir.

The Kamtschatka takes a short course from south to north, along the peninfula of that name, till, not far fr. m its mouth it turns to the fouth-east, and falls into

a bay nearly opposite to Bhering's island.

The Amoor was formerly reckoned among the rivers of Russia, but was lately ceded entirely to China.

Of the rivers that fall into the Caspian sea we have to notice the Yemba, the Ural, and the Terek. The first of these rises in the most fouthern part of the Uralian chain, and is the most eastern of all the rivers that fall into the Caspian. It forms part of the boundary between the country of the Kirghithes and the Ufinfkoy government. The Ural or Yaik is a river of confider-

able

Ruffit,

able importance. It rifes in the Utalian mountains, in the government of Uia, and after paifing by Otenburg, and receiving feveral Itrams, it flows into the Calpian at Gonriel. Its name is faid to have been changed from Yaik to Ural, on account of a dangerous infurrection of the tribes that inhabited its banks. The Terek originates in Mount Caucatus, on the highest ridges that form the founters of Georgia. Its courie is rapid, and in the autumn the melted flows ruth down from the mountains in fuch torrents into the plain beneath, as to fiveil this river eight or ten feet above its ufuel level, fo that it overflows the adjacent country, and not unfrequently failits its bed. It falls into the Carpian as Kizhar, after forming two branches, with a considerable ill and believes them.

The Kuran and the Bogse are the only important rivers of the R which flow into the Black fea, that have not been noticed in their places in the general alphabet of this work. Of thefe the Kuban, anciently denominated Hypanis, rifes at the foot of Mount Caucafus, and is formed chiefly by the confluence of feveral tribulary threams. It takes a direction nearly wethward, running along the parallel of 45° N. Lat, and falls into the Black fra, opposite the ille of Taman, in the first so f Krás. Its theam is finooth and gentle, not obstructed by waterfalls, and, though not deep, is well adapted to purposes of inland navigation. Its banks are fertile, and near its source are considerable forests.

The Bogue rifes in Poland, and formerly conflituted part of the boundary between that kingdom and the Ruffien empire, as at prefent towards its mouth it forms part of the frontier between Ruffia and Turkey. It

falls into the Black fea at Otchakof.

The Ruffian empire, confidering its fize, does not abound in lakes. Thefe are proportionally most numerous in European Ruffia, where we find the lake of I-mandra in Ruffian Lapland; those of Ladoga, Onega, and Peipus, in the neighbourhood of St Petersburgh; Bielo-Ozero, or the White lake, in the government of Novgorod; and those which give rise to the river Volga, the principal of which is Seliger, in the government of Tver.

The Afiatic lakes are not numerous; but one of them, the lake or fea of Baikal, is highly important from its magnitude, and from the commercial intercourse which it promotes between the adjacent provinces. The other lakes of this part of Russia are these of Altyn-Noor, or the Golden lake, and of Altyn or Telitzko.

Most of these lakes have been already noticed under their proper heads in the general alphabet; but as the account there given, excepting that of Baikal, differs in some respects from the description of them by the latest geographers, we shall here add the account of the

Russian lakes given by Mr Tooke.

The lake of Ladoga is fituated in the government of Vyborg, between the gulf of Finland and the lake of Onega, which in ancient times is faid to have been denominated Nebo. It is reckoned one of the largeft lakes in Europe, the length of it being about 175, and its breadth 105 verils. It produces a vaft number of feals. On account of the perilous florms to which it is liable, and the feveral fand banks that are ever fhifting their polition, Peter the Great caused the famous Ladoga canal to be dug along its shore, from the Volkhof

into the Neva, which canal is 104 versts long, 10 fa. Russia. jenes broad, 12 fajene deep, and has 25 fluices. By A faitne the Neva the Ladoga is connected with the Baltic ; sabout by the Svir with the Onega; and by the Volkhof with 7 feet the Ilmen. Into the can'l flow the rivers Liplie, English. Nafia, Sheidika, Lava, and Kabona; into the lake, the rivers Pasha, Sias, Olat, &c. whicas the Neva alone runs cut of it. Both theres of the lake belong to Ruffia, and thele have every where a flat coast and a fandy beach. On this shore it has also a few low fishery islands, and a faudy bottom. That part of the northern fide which lies in the government of Olonetz has marble on its coall, whence some of those beautiful and durable kinds of Finnish marble are brought to St Petersburgh. As the bed of this lake, for a great extent, is in the lowest part of the country, it receives besides the abovementioned rivers, the waters that come from the alum hills; all of which have no other outlet than the Neva.

The lake Onega is fituated in the government of Onega, Olonetz, between the Ladoga and the White fea. Its length is between 180 and 200 verils, and its breadth from 60 to 80. Like the Ladoga, it contains a few islands confishing of marble, and in all other properties is much the same. With other rivers, the Vitegra falls into it on the fowh-east fide, which river takes its rife not far from the Kofsha, and this river falls into the Bieloozero. On the Kofsha is the old Ladoga, and on the Vitegra, the old Vitegorfaaia, which are only about 40 verits afunder. Now, as from the Onega the navigable river Svir runs into the Ladoga, and from the Bielo-ozera the Shekfna flows into the Volga, there needs only a canal to be cut the faid diffance of 40 verifis, for connecting the Neva with the Volga, which would be much more convenient for the navigation here than the paffage by Viflmoi-Volotshek, because there are no waterfalls, and therefore all the danger and trouble attending them in the present passage would be obviated.

The lake Peipus, called by the Ruffians Tilludíkoc- Peipus, ozero, lies between the governments of Picove, Reval, Riga, and St Peterburgh; is in length about 85, and in breadth about 60 verfls. It is connected with the Pfcove lake by a very broad channel, about 50 verfls in length. From this lake proceeds the river Narova, communicating through the Embach with the Vertzerb, and from this latter runs the Fellin to the gulf of Riga, 6 that an inland navigation might eafily be formed between lake Peipus and the Ballic, though at prefent the commodities conveyed along the Narova to Narva, must be carried a confiderable way by land, owing to the numerous falls in that river. In this lake there are a few final lidands, one of which has three villages upon it, and is well furnified with wood.

The Bielo-ozero, or White lake, is in the fame govern-Bielo-ment with the foregoing; is about 50 verlfs long and ozeros 30 broad, and receives into it feveral fmaller fitness. The only one that flows out of it is the Shekha, which falls into the Volga. The water of this lake is clear, having a bottom partly clay and partly flowy. The clay is generally of a white colour, and in flowing weather causes a frong white foam upon the surface of the water. It is doubtles from this circumstance that the lake first obtained the name Bielo, or white. It abounds with fish and crabs.

The lake Tshany is situated partly in the government Tsharz.

Lakes.

of Tobolfk and partly in that of Kolhyvan. It communicates with the lakes Moliki and Abithkan, is of very confiderable circuit, and abounds in fish.

The lake Ilmen, formerly Moifs, lies in the government of Novgorod, being about 40 versts long and 30 broad. It receives the rivers Mita, Lovat, Skelton, &c.

and gives birth to the Volkhof alone.

The Altyn-Noor, or Teletzkoe-ozero, lies in the government of Kolhyvan, on a very confiderable elevation of the Altai mountains, by which it is also entirely furrounded. Its length is computed at 126, and its greatest breadth at 84 versts. From this lake arises the famous river By, which, at its junction with the Katunia,

takes the name of Oby. Foreits.

limen.

Altyn-

Noor.

Climate

European Ruffia abounds in wood; and numerous extensive forests are seen in various districts, especially between St Petersburgh and Mosco, and between Vladimir and Arzonas. It is supposed that the Riphæan forest, so celebrated in antiquity, occupied the fouthern part of European Russia, where now extends a plain covered with a thick and fertile coat of black mould. The forests in some part of Asiatic Russia are also immenfely large, especially towards the fouth. On the well of the government of Irkutsk, an enormous, dark and marshy forest of resinous trees, extends to the river Kan; but the northern and eastern parts of Siberia are bare of wood.

When we confider that the Ruffian empire occupies and feafons an extent from north to fouth of nearly 400, we may rationally conclude that the climate and feafons of fo vait a tract must be extremely diversified. Accordingly we find that while the northern regions are exposed to almost perpetual frosts, some of the southern districts enjoy the purest atmosphere, and the mildest sky. While the former is doomed to the utmost sterility, the latter is fo fertile as to produce in the most lavish abundance all the vegetable riches of the most favoured climates.

One of the latest writers on the climate of Russia, M. Hermann, has divided the empire into four regions,

which are thus diftinguished.

1. The very cold region, extending from 780 to 600 of north latitude. This region comprehends the governments of Vyborg, Olonetz, Archangel, Tobolik, the greater part of Irkutsk, Vologda, a part of Perme, Novgorod and St Petersburgh.

2. The cold region, extending from 600 to 550, and including the governments of Reval, Riga, Polotik, Picov, Tver, Moico, Yaroflavl, Vladimir, Koftroma, Viætka, the greater part of Perme and Kazan, a part of Irkutsk, Kolhyvan, Ufa, Simbirsk, Nishney-Novgo-

rod, Kaluga, and Smolensk.

3. The moderate region, extending from 550 to 500. including the governments of Moghilef, Tchernigof, Orel, Kursk, Tula, Tambof, Penza, the greater part of Kief, Kharkof, Voronetsk, Riazan, Saratof, Kaluga, Sinbirsk Ufa, Kolhyvan, and a part of Irkutsk, Kazan, Niftney Novgorod, and Smolenik.

4. The hot region, extending from coo to the most fouthern part of Ruffia, including Taurida, Ekatarinoflaf, the greater part of Caucafia, and a part of Kief, Kharkof, Voronetsk, Saratof, Ufa, Kolhyvan, and Irkutsk.

From the above enumeration we find that one of the Rustian governments possesses all the varieties of climate and feafon, and that many of them are fo divided as to

enjoy the advantages of two climates. We shall de- Russia scribe the nature of the climate and changes of the seafon, as they occur in each of these divisions, confining ourselves chiefly to the extremes of St Petersburgh and Taurida, as being most interesting,

In many districts of the first region there is scarcely any funnmer; for the three or four months in which it does not flow, fearcely deferve that name. As in most parts of the globe, however, the eastern districts of this region are much colder and more barren than those on the western side; the fruits that come to maturity round St Petersburgh, and in the government of Vyborg, are not found under the fame latitude in Siberia. Even the weather of St Petersburgh, however, is sufficiently rude, and the climate here is unfettled and unfriendly. In the winter of 1798 and 1799, the coldect ever known in that country, the mercury in Fahrenheit's thermometer flood at St Petersburgh at 300 below o, and even at Mosco, the same thermometer fluctuated during 35 fuccessive days between -300 and -400. The fpring in this region (i. e. about St Petersburgh), has in general much frost, fnow, and rain; but the short summer is for the most part fair and fine. The longest day is here about 181 hours, and the evening twilights are fo uncommonly luminous, as readily to enable persons to read and write. The very fultry days are in general but few, and these are amply compensated by the cool evenings, nights and mornings. The autumn has feldom many bright days, but is for the most part cloudy, wet, and boilterous. The winter is always fevere; and as the atmosphere is generally dry, even in snowy weather, this feafon is so healthy, that the smallest number of deaths is found to happen during winter. The fhortest day is only five hours and a half, and though confiderable light is reflected from the fnow, yet when the atmosphere is cloudy, candles can be dispensed with but for a very short time, During this season the river Neva, the lakes in the vicinity of St Petersburgh, and even the gulf of Finland, as far as the islands of the Baltic, are covered with ice, nearly a yard in thickness. On an average, there are annually from 150 to 100 days of frost, during which the ground is frozen to the depth of nearly three feet.

This feverity of climate, apparently fo inimical to health and comfort, is confidered by the inhabitants as one of their greatest bleffings. By the extent of ice and fnow, diffances are shortened, or at least travelling is facilitated, fo that people, horses, and carriages with the heaviest burdens, cross the Neva, and the other rivers, lakes and canals in all directions, Ice cellars here form a necessary of life, for by their means provifions of all kinds are preferved during fummer. Hence every house is provided with one of them; and in the beginning of February they are filled with large blocks cut from the river. The ice also promotes the amusements of the inhabitants, as we fball shew in the sequel of this article. Indeed, so effential is this severity of feafon to the comfort of the inhabitants, that when the winter is unusually mild, the roads are nearly impaffable, and the provisions, which are always preferved in a frozen state, can scarcely be kept from putresac-

In this region the aurora borealis is very frequent, and its cornications peculiarly vivid; froms of thunder Rutia. and lightning are neither numerous, violent, nor last-

ing; high winds are not predominant, and it feldom hails, though hoar-frosts are very common.

In the fecond region the fummer is indeed short in many parts; but in most of them it is fo warm, and the days are fo long, that the fruits of the earth usually come to maturity in a shorter time than in other places. The winter in this region, especially in the governments of Irkutsk, Perme, Viætka, &c. is in general very se-

In the third region the winter is also long and cold, especially in the governments of Irkutsk, Kolhyvan, and This, however, is owing rather to the lofty mountains with which these districts abound, than from their high degree of latitude. The governments be-longing to this region in European Russia, however, usually enjoy a short and mild winter, and a fine warm

In the fourth region the winters are short, and, except in some parts of Irkutsk and Kolhyvan, not very cold; and the fummer is warm, and in many parts very dry. One of the most delightful districts in this region is that of Taurida, of which M. Pallas has given the

following animated description.

" One of the mildest and most fertile regions of the empire is the beautiful femicircular and amphitheatral vale formed by the Tauridan mountains along the shores of the Euxine. These valleys, which are bleffed with the climate of Anatolia and the leffer Afia, where the winter is fearcely fenfible, where the primrofes and fpring-faffron bloom in February and often in January, and where the oak frequently retains its foliage through the whole winter, are, in regard to botany and rural economy, the noblest tract in Taurida, and perhaps in the whole extent of the empire. Here, on all fides, thrive and flourish in open air the ever-verdant laurel, the olive tree, the fig, the lotus, the pomegranate, and the celtis, which perhaps are the remains of Grecian cultivation; with the manna-bearing ath, the turpentine tree, the tan-bark tree, the strawberry tree from Afia Minor, and many others. This last particularly covers the steepest cliffs of the shore, and beautifies them in winter by its perpetual foliage, and the red rind of its thick stem. In these happy vales the forests confist of fruit trees of every kind, or rather they form only a large orchard left entirely to itself. On the shores of the fea the caper bushes propagate themselves spontaneously; without the affistance of art the wild or planted vine stems climb the loftjest trees, and, twining with the flowery five leaved ivy, form festoons and hedges. The contrast of the orchards, and the rich verdure, with the beautiful wildness presented by the adjacent mountains and rocks, which in fome places rife among the clouds, and in others are fallen in ruins; the natural fountains and cafcades that agreeably prefent their rushing waters; lastly, the near view of the fea, where the fight is loft in the unbounded prospect; all these beauties together form fo picturesque and delightful a whole, that even the enraptured muse of the poet or the painter would be unable to conceive a more captivating

" In these enchanting valleys, to the henefit of the empire, which nowhere possesses so fine a climate, might the useful products of Asia Minor, and of the southern parts of Europe, be made indigenous. The superior Vol. XVIII. Part I.

kinds of fruits may be produced here without trouble, Rufiz. and are for the most part so already. The best kinds of olive and fig trees may be cultivated here; and even the fefamum plant never decays. Orange, lemon, and citron trees, and particularly the cedrat, the most excellent species of them, would bear the winter extremely well with a little care. The vine would be conflantly improving, if a judicious felection were but made of the flocks for planting, if greater attention were paid to the various effects of the foil and fituation of the vinevards, and if more care were taken in working the must and keeping the wine. For the use of the apothecaries and manufacturers a number of excellent drugs and dyes might be produced, which are at present brought from the ifles of the Archipelago, from Greece, from Afia Minor, and Perfia; feveral of them are now feen here growing wild. Likewife many hard and ufeful kinds of wood, especially coloured, fit for inlaid work, might here be propagated; perhaps in some tracts even the sugar cane would thrive \*."

U S

The productions of Ruffia would afford an ample field View of the for the investigation of the naturalist; and this part of Rushan its natural history has been fully illustrated by the en-Empire, lightened travellers who were lately employed in the vol. 1, p. 30. examination of the empire. We can here give only a

brief fketch of the refult of their inquiries.

In the central parts of European Ruffia are found Animals. most of the animals which are common to it with the rest of Europe. The finest horses here are those of Lithuania and Livonia, the former possessing great strength, the latter excelling in speed. The spirit and beauty of the Tartarian horses have been long celebrated; and in the Taurida, where this breed is much cultivated, these qualities have been improved by the introduction of Turkish and Arabian stallions. Near Archangel, the horses are small, and resemble those in the north of Britain. The country near Archangel is remarkable for fine pasturage, and an excellent breed of cattle; but indeed cattle abound in most parts of the empire. The theep in the northern provinces are of a middle fize, with thort tails and coarse wool; but those in the south are long-tailed, and their wool is of a superior texture: but the best wool is procured from the district of Kazan. We have feen that the province of Taurida abounds in sheep, which constitute the chief riches of the inhabi-Some opulent farmers in this diffrict poffess co.000 sheep; and 1000 is by no means an uncommon flock. Goats and fivine also abound throughout European Ruffia; and the rein-deer is not unknown in the most northern governments. In the north, too, are found the elk, the wolf, the lynx, and the fea bear; and in the most fouthern districts the camel is sometimes met with.

Afiatic Ruffia is remarkable for the rein-deer, which there performs the office of the horse, the cow, and the sheep. In the fouth are found the wild horse, and the wild ass; while the argali, or wild sheep, is often hunted in Siberia, and the regions of Mount Caucasus prefent the furious bifon. Here, too, are feen the ibex. and the chamois. Near Lake Baikal are found the stag, the musk animal, and the wild boar; and on the banks of the Yeniffy is feen the beaver. Walruffes baunt the shores of the Arclic ocean, and feals are found in most of its bays and inlets. In Siberia, in the provinces of Yakutik and Ne Schinik, and in Kamt-

schatka, the hunting of sables forms, during part of the year, the chief occupation of the inhabitants; and their ikins, when procured perfectly entire, are faid to be worth 10l. each. The ikins of the black fox are also highly effeemed, as, according to Mr Tooke, one of them is sometimes sufficient to pay the tribute of a village. The bear is found in the neighbourhood of the Uralian mountains, and the civet cat in the Altai chain. The wild boar grows here to fuch a fize, that its tufks \* Pinkerare faid fometimes to weigh 600 pounds \*. The hories ton's Geography, vol. them being flriped like the tiger, others spotted like of the Mongul Tartars are of fingular beauty, fome of the leopard. The stud of a noble Mongul sometimes contains 2000 or 4000 of these animals. The principal Nomadic hordes of Atlatic Russia, viz. the Tartars, Monguls, and Mandshurs, not unfrequently regale on horse-flesh; but they do not, as is commonly reported, eat it raw. The cattle of this division of Russia are of

> The whole empire abounds with wild fowl and game of all forts; and in the more folitary regions of Mount Caucafus, and on the Uralian and Altaian chains, there are numerous birds of prey. The external parts and provinces of the empire are well supplied with sea fish from the northern ocean, the Baltic, the White fea, the Black sea and the Caspian; and the numerous lakes and rivers yield immente quantities of falmon, trout, pike, flurgeon, and belluga (a large fish from whose roe is made the best caviare). Innumerable swarms of insects are hatched by the fummer's heat in the fands, moralles, and forests; and are faid to be fo troublesome as to render great part of these regions almost uninhabitable.

a middling fize, and are commonly employed for

draught, and even fometimes for carriage.

Merely to enumerate the chief vegetable productions of the Russian empire, would far exceed the limits of our plan. We shall therefore only mention the most important. In the forests are found the fir, the Scotch pine, the larch, the elm, the birch, the alder, the greater maple, the fycamore, the oak of various species, the black and white poplar, the afh, the hornbeam, the beech, the nettle-tree, the cedar, and the cypress. Of fruit trees and thrubs, the most remarkable are, the almond, the peach, the apricot, the medlar, the walnut, the mulberry, the olive, the fig, the vine, and the pome-granate. In some parts of Asiatic Russia are found, befides, the quince, the date, the jujube, and the willow-leaved pear; and many other fhrubs and plants, which in our climate require the aid of artificial heat, are, in the fouthern provinces of Russia, produced spontaneoufly.

Ruffia is not less rich in mineral productions, of which Siberia in particular contains a great variety. In the brief sketch of Russian mineralogy which we can here offer, we shall confine ourselves chiefly to the metallic mines. Of these there are few in European Russia, and those principally of iron. It appears that there was formerly a gold mine near the river Vigg in the northwestern corner of the empire; and in the year 1739, gold was discovered in the same region, in the mountains of Olonetz; but the product was scarcely sufficient to indemnify the government for the expence of working the mine, not more than 57 rounds of gold having been procured within the year. The richeft iron mines in European Russia, are about 60 miles from Moleo; and in the government of Perme are worked Ruffia. mines, both of iron and copper.

In Siberia there are valuable gold mines, especially those of Catharineburg, on the east of the Uralian mountains, in the latitude of about 57°, where an office for the management of the mines was chablished by Peter I. in 1719. Several mines of different metals extend to a confiderable diffance on the north and fouth of Catharineburg; and there are in this diffrict above 100 founderies, chiefly for copper and iron. The principal gold mines in this district are those of Beresof, a few miles north-east of Catharineburg, near the river Pyshma, that falls into the Tobol. The gold is sometimes found native, but is generally mixed with various fub-flances, efpecially filver. There are other mines in Kolhyvan and Nerthinits, chiefly of lead and filver, with a small proportion of gold. The former of these were discovered in 1704, and the latter in 1748. In the mines of Beresof is found the red lead of Siberia; and in the copper mines, about 30 miles fouth of Catharineburg, that particular ore called malachite, or stalactitic copper, is found in great perfection. There are also copper mines in the Altai mountains, where dendritic copper is met with. The richest iron mines in this part of Russia are in the neighbourhood of the Uralian chain. The large mass of native iron which we have mentioned under GEOLOGY, No 165. was found by Professor Pallas in Siberia, near Mount Emor or Nemir, not far from the river Yenisly.

Rock falt is found in feveral parts of Siberia, especially near the Ilek, not far from Orenburgh. Coal is a rare production in Ruffia; but it is found near Lake Baikal, and in the steppe between the Don and the Volga, Sulphur, alum, fal ammoniac, nitre, and natron, are found in great abundance.

There are also found in Siberia various gems, which we must not omit to notice. These are discovered chiefly in the mountain Adunthollow, in the province of Nerthinsk or Daouri, not far from the Chinese river Argoon. Here are found common topazes, the hyacinth, the Siberian emerald, the beryl, the onyx, and beautiful red and green jaipers. Near Catharineburg are the gem mines of Mourfintsky, where are found the beryl and the chrysolite. Near Lake Baikal red garnets are very common; and there are also found lapis lazuli and the baikalite of Kirwan. The opal is faid to be found in the Altai mountains.

The mineral fprings of Ruffia are found principally Mineral in the Afiatic part, especially in Kamtichatka. The waters. only European mineral waters that merit particular notice are, a hot fpring near Selo Klintschy, in the government of Perme; a noted chalybeate spring in the village of Vingova, in the district of Olonetz, diffinguifhed by Peter the Great, and called by him St Peter's Well, and another chalybeate fpring, or rather affemblage of fprings throngly impregnated with iron, difcovered in 1775, near Sarepta on the Volga. In the diffrict of Perekop and the ifland of Taman, belonging to the government of Taurida, there are fprings of naphtha. Springs impregrated with naphtha and petroleum are also found near Lake Eaikal. At Sarepta there is a fulphurous spring, and there are several others in Siberia. On the Terek, towards Mount Caucalus, are warm fprings that ferve as baths; and fimilar baths

Vegetables.

Minerals.

Rullia, occur in the province of Nershings, in the territory of the Kalmuks, to the fouth of the Altai mountains, and in the neighbourhood of Baikal. Chalybeate waters are found among the iron mines near Catharineburg, and

a few occur in the province of Daouria.

The principal hot baths of Atlatic Russia are in Kamtschatka, and are formed by the hot springs noticed in No 7. The chief bath of this kind is in the fouthern part of the peninfula near Natchikin. The hot waters here fall in a rapid cascade, about 300 feet below which they are collected into a bason fix or seven seet broad, and 18 inches deep. The water is extremely hot, and is faid to contain vitriolic and uitrous falts.

Before we conclude what may be called the permapent geography of Ruffia, we must enumerate the islands that belong to this extensive empire, and particularly notice fuch of them as have not been described in other

parts of this Encyclopædia.

In Europe the Ruffians poffels the islands of Oefel and Dago in the Baltic, and the little itland of Cronfladt at the entrance of the gulf of Finland, the islands of Novava Zemlia, and feveral finaller iflands in the Arctic ocean; and though the dreary island of Spitzbergen is generally confidered as belonging to Denmark, it is at least equally shared by the Russians, some of whom regularly winter here, on account of the whale fiftery.

In Afiatic Ruffia we may enumerate the Aleutian (Alcoutskie or Fox) islands, of which Bhering's island is the only one deferving particular notice; the Andrenovian islands, about 500 miles to the south-east of Bhering's ifland, and the Kurile or Kurilian iflands, extending from the fouthern promontory of Kamtichatka

towards Japan.

The island of Dago, but briefly noticed in our general alphabet, is for the most part rocky, and its western shore is fandy; but the fouthern and eastern parts confist of a bluish clay, and are very fertile. They produce confiderable quantities of barley, especially in rainy seasons; but it is found necessary to low the feed very early in the spring. There are here feveral forests, especially one of alders, which is feen at a great distance, and serves as a landmark. This island is extremely populous, and very healthy. It is inhabited chiefly by Etthonians. The fea round Dago abounds with fliallows, rocks, and fand banks, that render the navigation dangerous; but to prevent thips from being stranded on the coast, a lighthouse has been erected on the western promontory, about three miles from the fea,

Oefel is much more confiderable than Dago, being nearly 80 miles long, and about 60 at its greatest breadth. Its foil is naturally more barren than that of Dago, being chiefly fand, or loam and clay; but as it is well manured, the crops are pretty confiderable. These confift of wheat, rye, and barley, and in favourable feafons, oats and peafe. Oefel abounds in quarries, from which are procured excellent limestone, black and gray flagstone, and grindstones. Marble is also found, but is

not much esteemed.

The iflands of Novaya Zemlia, or the New Land. confift chiefly of two very large infulated tracts, nearly alike in fize and figure, extending between 40° and 68° of east longitude, and between 70° and 77° of north latitude. They are separated from the main land by the ftrait of Waigats. They may be estimated at 600 miles in length, by a medium breadth of nearly 400. Yet

this large tract of country is defert and uniuhabited, ex- Ruffia. cept by reindeer, polar bears, white and blue foxes; and on the coalt feals and walruffes. The iflands are well supplied with water, but are rocky and deflitute of wood except a few flunted bushes. On the northern fide they are encompafied with mountains of ice. In thefe dreary regions the fun is not feen for nearly four months, viz. from the middle of October to February.

Bhering's island is fituated in the fea of Kamtschatka, Bhering's about 30 to the east of that peninfula, extending from mand, 550 to 560 of N. Lat. It was discovered by Bhering in 1740. It confifts of a range of bald cliffs and hills, running north and fouth, the highest of which are nearly 1000 fathoms above the level of the fea. These rocks confirt of granite in the middle ridge, and a fandstone on each fide; but some of the lower appear to be covered with clay. This island is entirely destitute of wood, but is otherwise not bare of vegetation. It contains fprings of excellent water, and has feveral fine cataracts. The cold is moderate, and thunder has never been observed, though it is said some shocks of earthquakes have been selt. There are no human inhabitants; but the island affords a dwelling to fea bears, arctic foxes, feals, and walruffes. The Aleutian and Kurilian iflands have already been described under their respective heads; and an account of SPITSBERGEN will be found under that article.

Ruffia was fearcely known as an independent flate be- Origin of fore the latter end of the 9th century. We know, indeed, the Ruffian that long before that period, namely about the 5th cen-empire. tury, a horde of those nations that roved at large on the banks of the Duieper and the Volkhof, established themfelves in that part of the region bordering on the Dnieper, where is now fituated the government of K ef or Kiow. These people were called Slavi, or Slavonians, and had advanced eastward from the thores of the Danube, They appear to have laid the first foundation of the Russian monarchy, and to have built Kief, where they fixed their capital. It is probable that about the fame time another tribe of Slavi had fettled still farther to the east, in the province of Novgorod, where they built the city still known by that name, as their metropolis. Of the government and transactions of these people we have no regular accounts till the conclusion of the 9th century. It appears, however, from a work of the emperor Constantine Porphyrogenitus on the administration of the empire, that in his time the city of Novgorod was a place of great importance, and carried on an extensive commerce, both with Confrantinople and the countries bordering on the Baltic. The government of the Novgorodians appears to have been republican, but the people were probably rather merchants than warriors. We find them involved in frequent disputes with the neighbouring nations, from whole ravages they fuffered

If we may credit the Ruffien historians, the Slavis mement that had fettled about Kief and Novgorod, mult have of the Vaextended the bound tries of their territory northwards as ragians in far as the shores of the Baltic. We find that they were Russia. much haraffed by a piratical nation who dwelt on the coasts of that fea, and were denominated Varages or Varagians, and who made frequent descents on the Ruffian coaffs, and ravaged the country. It is not improbable that these Varagians formed a part of the Scandinavian nations, who, under the names of Danes and

Ruftian islands.

Dage.

Onfel 27

Novaya

Establish-

monarchy

Opposition

Ruffa Saxons, successively made themselves masters of Eng- | manner. We are not informed of the nature of his in Ruffa. land. They were occasionally employed by the weaker neighbouring states as mercenary auxiliaries, and in this capacity they were once called to the affiftance of the Novgorodians. As is ufual, where a weak people requires the affiltance of a warlike and powerful nation, the auxiliaries, after having overcome the enemies whom they were invited to combat, began to think of availing themselves of the advantages which their bravery had given them over their employers. From allies and fervants they foon became the masters of the Slavi; and finding the country about Novgored superior to that which they had left, they began to think of taking up their refidence in their new quarters.

An. 860. Their leader Ruric built a town near the Volkhof. and furrounded it with a rampart of earth. This town ment of the is now called Old Ladoga. Here Ruric established the feat of his government. This event appears to have taunder Ruken place about the year 860; and from this period we may date the commencement of the Ruffian monarchy, Ruric was affifted by two other chiefs of the Varages, Sinaus and Truvor, who are supposed to have been his brothers, and with whom he divided the territory of which he had possessed himself. Of these, Sinaus took up his refidence at Bielo Ofero, or the white lake, while Truvor kept his court at Isborik, or according to some, at Twertzog, in the diffrict of Pleskow. The three chiefs baying thus divided among them the territories of the Novgorodians, continued to reign in amity with each

other for feveral years.

The Slavi, however, did not fubmit to the dominion of of the Slavi their new matters, without an effort to regain their independence. At first, astonishment at the unexpected proceedings of their auxiliaries overcame the fpirit of liberty which had hitherto actuated their minds; but they foon awakened from their lethargy, and determined to repel by force those whom they now considered as the invaders of their country. They flew to arms, and chose for their leader, Vadim, who by his feats in war had acquired the honourable appellation of the valiant. A fierce engagement took place between the Novgorodians under Vadim, and the Varages headed by Ruric and his brothers. The contest ended in favour of the latter, and the brave Vadim, with feveral other chiefs of the Novgorodians, loft their lives in the attempt to free their country from its ambitious guests. This new success emboldened Ruric to extend his territories, and to change the feat of government from the infignificant town of Ladoga, to the fpacious and opulent city of Novgorod. Soon after, by the death of his partners in the government, Ruric became fole monarch of the conquered territory, where he reigned without farther molestation for 17 years, and became the primogenitor of a long line of descendants, who held the fovereignty without interruption for feveral centuries. Ruric appears to have been zealous for the first administration of justice in his dominions, and

issued his command to all the boyars who held territories under him, to fee it exercised in an exact and uniform

flitutions; nor is it known whether the laws then existing in his territories were merely oral, or were committed to

Ruric assumed the title of grand prince. His domipions extended over the present governments of Riga. Reval, Polotik, Picov, Vyborg, St Peteriburg, Novgorod, Smolensk, Olonetz, Archangel, Vladimir, Yarollavl, Kostroma, and Vologda.

As Ruric left only one fon, Igor, who was still a minor at his father's death, Oleg, a kiniman of the de-Regency of ceased monarch, took on him the administration of af-Olegfairs. Either from the natural restlessness of the Varages, or from the spirit of rebellion manifested by the Novgorodians, which indicated the necessity of employing his people in some active enterprise, the new monarch did not long remain idle. He appears very early to have projected the extension of his territories, by annexing to them the fettlement which the Slavi had formed about Kief, against which he soon undertook a formidable expedition. He collected a numerous army. composed of Slavi, Varages, and Tschudes, carried with him the young prince Igor, and opened the campaign with the capture of Lubitch, and of Smolensk the capital of the Krivitsches. (c)

Having reduced feveral other towns of less confe-Annexation quence, he advanced towards Kief, the possession of the Russian which formed the chief object of his ambition, as principathrough the Kievian territory he would have an eafy lity. passage to the Grecian empire, by inroads into which he could gratify the predatory disposition of his followers. Having advanced near the walls of Kief, he did not think it advisable to bazard an open attack, and thus leave to the precarious decision of a battle the ultimate fuccess of his favourite project. He therefore had recourse to artifice, and leaving behind him the greater part of his troops, he concealed the remainder in the barks that had brought them down the Dnieper from Smolenik. Oleg himfelf, difguifing his name and quality, passed for a merchant sent by Oleg and his ward Igor on bufinels of importance to Constantinople; and he dispatched officers to Ofkhold and Dir, the two chieftains of the Kievians, requesting permission to pass through their territory into Greece, and inviting them to visit him as friends and fellow-citizens, pretending that indisposition prevented him from paying his respects to them in person. The princes, free from mistrust, and relying on these appearances of friendship, accepted Oleg's invitation, and fearcely thought it necessary to take with them their ordinary attendants. They were foon undeceived; for when they arrived at the regent's encampment, they were quickly furrounded by the Varagian foldiers, who fprung from their place of concealment in the barks. Oleg taking Igor in his arms, and calling on the fovereigns of Kief a fierce and threatening look, exclaimed, "You are neither princes nor of the race of princes; behold the fon of Ruric." These words, which formed the fignal that had been agreed

(c) The Krivitiches were a Slavonian tribe who inhabited the regions bordering on the upper parts of the rivers Volga, Dvina, Oka, and Dniepr, where are now the governments of Polotzk, Smolensk and Minsk. The Tschuldes whom we have mentioned as forming part of Oleg's army, were a nation of Finnish extraction, and inhabited those districts which form part of the present governments of Pscov and Reval.

First Ruf-

nopie.

ed, than the latter rushed on the two princes, and laid them proftrate at the feet of their mafter,

The inhabitants of Kief, thrown into consternation by this bold and treacherous act, made no refitance, but opened the gates of their city to the invader; and thus the two Slavonian states were united under one head.

Having thus made himfelf mafter of the key to the First Ruf-fian expedi-eastern empire, Oleg prepared to carry into effect his tion against ambitious designs against Constantinople. Leaving Igor Constanti- at Kief, he himself embarked on the Dniepr with 80,000 warriors, on board of not fewer than 2000 veffels. Their paffage down the river met with no obstruction. till they came to that part where its course is embarrasfed for nearly 15 leagues by feven rocks; and here began a feries of perils, labours, and fatigues, which none but barbarians could have overcome. They were obliged to unload their barks, and convey them over the rocks; and in particular at the fourth rock, they carried their baggage for above 6000 paces, exposed to the perpetual rifk of attack from the neighbouring nations with whom they were at war, while thus hampered and encumbered. Having at length passed all the rocks, and reached the mouth of the Dniepr, Oleg drew together his feattered veffels at a fmall ifland that lies between the points of Otchakof and Kinburn, where he caused them to be refitted, and waited for a favourable wind to carry him across the Black sea to the mouth of the Dniester. Here the vessels were again refitted, and hence the expedition coasting along the shores of the Euxine, foon arrived at the strait of Constantinople.

> The inhabitants of the imperial city, on discovering the approach of the barbarians, had drawn a maffy chain across the harbour, thus hoping to prevent their landing. In this hope, however, they were deceived. The invaders drew ashore their barks, fitted wheels to their flat bottoms, and converted them into carriages, which by the help of fails they forced along the roads that led to the city, and thus arrived under the walls of Constantinople. In their route they ravaged the whole country, and pillaged and demolithed the houses, loaded the inhabitants with irons, and committed other enormities which generally attend the incursions of a barbarous enemy. The earth that had been fertilized by the fweat of the hufbandman, was now drenched with his blood, and the fea received, as in one vast grave, both the carcafes of the dead, and the bodies of the living. The weak Leo, who then fwayed the sceptre of the Grecian empire, instead of making a manly relistance, is faid to have attempted carrying off his enemy by poifon; but this not fucceeding, he was obliged to purchase from the conqueror an ignominious peace. Thus, even at that early period, the fovereign of Ruffia triumphed over the emperor of Constantinople, and Oleg acquired the full completion of his wishes, by the rich booty which he earried off. He made his entrance into Kief on his return, laden with the wealth acquired by his victory; and the people, dazzled with fuch fplendid objects, imagined their prince to be endowed with fupernatural powers, and looked up to him with a reverence approaching to adoration.

Soon after his return to his own dominions, the Ruffian monarch dispatched deputies to Constantinople, with the articles of a treaty which he required the Greek emperor to fign \*. This treaty, which is pre-

Ruffia. on between Oley and his foldiers, were no fooner utter- ferved in the Chronicles of Nestor, is extremely curious ; Ruffia. and we learn from it many important particulars respecting the internal policy of the Ruffians at the beginning of the tenth century. Several articles of this treaty shew, that the Russian laws laid great stress on oaths; that they pronounced the fentence of death against the murderer, instead of inslicting on him only a pecuniary fine, and thus allowing the rich to commit affaffination . with impunity; that wives were allowed a part of the estates of their husbands; that the punishment of offences did not extend to the entire confifcation of goods. and hence the widow and orphan did not fuffer for a crime of which they were innocent; that robbery, which attacks only property, was punished by the privation of property, so that the Russian laws maintained a just proportion between the crime and the penalty; that the citizens, fecure in their possessions, were under no apprehension that the sovereign would seize on their heritage, and might even dispose of their effects in favour of friends.

> Oleg maintained the fovereign power for 33 years, nor does it appear that Igor, even after he obtained the age of majority, had any share in the government, till the death of his guardian, in 913, left him in full poffession of the throne.

Igor had reached his 40th year before he entered on An. 973. the government. He foon discovered marks of the same Accession of warlike spirit which had actuated his predecessor. A-Igor. mong the nations that had been subjugated by Oleg. feveral, on the accession of a new sovereign, attempted to regain their independence; in particular the Drevlians, who dwelt on the banks of the Uicha, in the prefent district of Vrutsch, were the first to rise in revolt. They were, however, foon quelled, and punished by the imposition of an increased tribute. The Uglitches, who inhabited the fouthern bank of the Dniepr, maintained a longer contest for their liberty. One of their principal towns fuftained a fiege of three years, and at last submitted on condition of the trifling tribute of a marten's fkin blackened by fire; as these furs were valued in proportion to the darkness of their colour.

Igor foon had to contend with more formidable enemies. The Petchenegans, a nation hitherto unknown, quitted their fettlements on the Yaik and the Volga, and made incursions into the Ruffian territory. These people appear to have been at least as powerful and warlike as the Varages; and Igor finding himfelf unable to cope with them in arms, concluded a treaty of alliance. About five years after, disputes arose between the new allies, and both had reconfe to arms. It appears that the Ruffians were finally victorious, and the Petchenegans were, for fome time, dilabled from giving Igor any

farther molestation. The Russian monarch, in imitation of his guardian, An. 941. foon turned his attention towards the Grecian empire, Second exwhere depredations might apparently be made with im pedition punity. He equipped an immente armament, confist-Confiantie ing, as we are affured by the Ruffian annals, of 10,000 nople. barks, each carrying 40 men, thus forming an army of 400,000 warriors. With this immense force he set sail for Constantinople, without any previous declaration of war, and without any oftenfible motive for thus infringing the treaty that had been concluded fome years before between Oleg and Leo. In his route he overran and ravaged the provinces of Paphlagonia, Pontus, and Bis

\* Tooke's History of Rustia, vol. i. p. 154.

thyn'z,

Ruffia. thynia, plundering the towns, and butchering the inhabitants. For fome time the barbarians met with no opposition, as the imperial troops were engaged in distant provinces; but the government of the empire was now in very different hands from those which held it during the former invation. The Grecian forces were well appointed, and commanded by two generals of approved ability and courage. These were Theophanes and Phogas, of whom the former commanded the fleet, and the latter the army. The Rushians had foon cause to repent their temerity. Theophanes attacked them on board their ships, within fight of the Pharos, and throwing among them the unquenchable Grecian fire, with the effects of which they were wholly unacquainted, threw them into fuch confusion, that many plunged into the sea to avoid the fires that threatened and purfued them. Their veffels were difperfed, fhattered. or confumed by flames, and great numbers of their crews perished. The remainder reached the shores of Bithynia; but before they could recover from their coniternation, they were met by Phocas, who fell upon them with his troops, and made prodigious flaughter. So great were the loffes fustained by Igor in this unfortunate expedition, that he carried back with him fearcely a third of his army. This fecond naval expedition of the Ruffians against Constantinople took place in 941.

Though discouraged by the ill success which had attended his first invasion of the Grecian empire. Igor was too much stimulated by the desire of plunder, not to risk a second attempt. Three years after, he collected new forces, took into pay many of the Petchenegans, and again fet out for Greece; but before he had advanced beyond the Taurican Cherfonefus, the emperor Romanus, informed of his approach, and not choosing to hazard the result of an engagement, fent deputies to the Ruffian leader, offering to pay him the fame tribute which had been given to his predecessor. With this offer Igor complied, and once more retired with his

Igor was now far advanced in years; but the infatiable rapacity of his officers, ever craving fresh spoils from vauguished nations, impelled him to turn his arms against the Drevlians, for the purpose of obtaining from them an increase of their yearly tribute. In this unjust attack he was at first successful, and returned loaded with the contributions which he had levied from that people; but having difmiffed great part of his troops with the spoils of the vanquished, and marching with the remainder too far into the country, he fell into an ambuscade, which the Drevlians, now grown desperate, had formed on his approach in the neighbourhood of Koroften. The Ruffians were foon overpowered, and Igor being made prifoner, was put to death.

Before the death of Oleg, Igor had married a princefs of a bold and daring fpirit, named Olga, by whom he had one fon, Sviatoflaf; but as he was very young at the death of his father, the queen mother Olga assumed the reins of government. Her first care was to take figual vengeance on the unhappy Drevlians, for having bravely defend d themselves against the encroachments of tyranny and oppression. These people, satisfied with the death of their oppressor, appeared desirous of renewing their amicable intercourse with the Russians, and their chief, Male, is even feid to have made an offer of his hand to Igor's widow. Olga, with that deep cunning and concealed malice that fo often mark the character of the despotic leader of a barbarous people, pretended to liften to their overtures, received the deputies of Male, but immediately ordered them to be privately put to death. In the mean time she invited a larger deputation from the Drevlian chief, which the treated in the same inhuman manner, taking care that no tidings of either murder thould be carried to the Drevlians. She then fet out, as if on an amicable vifit, to conclude the new alliance, and having proclaimed a folemn entertainment, to which the invited fome hundreds of the principal inhabitants of the Drevlian towns, fhe caused them to be treacherously affassinated. This was but the first step to the more dreadful vengeance which she had resolved to inslict on this deluded people. She laid waste the whole country of the Drevlians, and in particular the town of Koroften, near which Igor had loft his life. For a long time she could not matter the place, as the inhabitants, dreading the horrible fate that awaited them, from the revengeful spirit of Olga, defended themselves with the utmost valour and success. At length, being affured of clemency, on condition of fending to Olga all the pigeons of the town, they fubmitted; but Olga causing lighted matches to be fallened to the tails of the pigeons, fet them at liberty. The birds flew to their usual places of residence in the town, which were fpeedily in a conflagration. The wretched inhabitants endeavouring to escape the slames, fell into the hands of the Russian foldiers, planted round the town for that purpose, by whom they were put to the sword,

This was the only warlike transaction, if it deferves that name, which took place during the regency of O1ga. Though not uncommon in the annals of a barbarous people, it would have been fufficient to hand down her name with deteftation to posterity, had she not, in the opinion of her panegvrifts, atoned for the enormity, by attempting to introduce into her dominions the Chri-

ftian religion.

Hitherto the Slavi, and the Scandinavian nations who Religion of had taken poffession of their territories, were Pagans, the Slavie and their religious ceremonies, like those of all the furrounding nations, were marked by an abfurd and cruel Superstition, which, under pretence of worshipping the Supreme Being, insulted his attributes, and increased inflead of leffening the miferies of human nature. Their deities feem to have been borrowed, partly from the Greeks and Romans, and partly from the Scythians; but were characterized by peculiar names, and represented by idols of complex workmanship and grotesque appearance. Thus, the god Perune, or Perkune, who was the chief among the Slavonian deities, analogous to the Zeus of the Grecian, and the Jupiter of the Roman mythology, was personated by an idol whose head was of filver, his ears and mullachios of mally gold, his legs of iron, and his trunk of hard incorruptible wood. It was decorated with rubies and carbuncles, and held in its hand a stone carved, to represent the symbol of lightning. The facred fire burnt continually before it; and if the priefls fuffered this to be extinguished, they were doomed to perish in the flames, as enemies of the god. Sacrifices of their flocks to this supreme deity were regarded as trifling; his altar fmoked with the blood of captives, and even the children of his worshippers were fometimes immolated to appeale his wrath or propitiate his favour. Superflition has, in all ages, tinged the

Conversion of Olga to Cir ftianity.

hands of its pontifs with blood, and has every where represented the dity as a cruel and malignant being, delighting in the spectacle of suffering humanity. It is uncertain at what time the light of Christianity

began to beam on the nations that occupied the banks of the Duiepr, nor are we acquainted with the circumflances that led to the conversion of the queen regent. We find, however, that about the middle of the 10th century, the undertook a journey to Constantinople for the express purpose of being initiated into the religion of Jefus. Constantine Porphyrogenitus, who then fat on the imperial throne, received the royal convert with the greatest honour and respect; himself conducted her to the baptifinal funt, and, in the character of her fponfor, gave her the name of Helen. He difmiffed her loaded with rich presents, consisting chiefly of those fine stuffs which were then fabricated only in the east, and several costly vafes. In return for the honour the had received at Constantinople, Olga promifed to fend the emperor a quantity of furs and wax, and to furnith him with troops; but as the delived the performance of ber promife, Constantine despat hed an embassy to remind her of her engagements. We are told that the treated the ambaffadors with difrespectful levity, and difmissed them with frigid compliments; fo little change had baptifm effected on the infidious disposition of the Russian prin-It is no wonder, therefore, if her example had little influence on her fon, or the nation at large. The Ruffians do not feem to have been very ardent in their religious observations, or peculiarly attached to the opinions of their forefathers; but the nature of Christianity, and the character of its disciples, were not in their eves fufficiently striking or alluring to produce any change in their religious lystem. Olga endeavoured to perfuade her fon Sviatoflaf to embrace her new religion; but either from his contempt for the unwarlike character of the Greek Christians, or through fear of the ridicule to which his conversion might subject him from his young companions, he difregarded her folicitations, He did not, however, prevent the people over whom he feems by this time to have affumed the chief dominion. from receiving baptism, and a few profelyes were made. Though the character of Olga, even after her converfion to Christianity, was by no means such as to intitle her to the rank which the afterwards attained among the Russian faints, it appears that the had given her fon many wife and prudent instructions respecting the government of his future empire. She travelled with him round the country; superintended the erection of bridges and the making of reads, for the benefit of trade and commerce; built feveral towns and villages, and founded fuch laudable institutions, as sufficiently evince her talents for governing a nation. She died about the year 969, at a very advanced age.

It is probable that Olga retired from the administration of affairs foon after her conversion to Christianity; for we find Sviatoflaf in full possession of the government long before his mother's death. This prince has been confidered one of the Ruslian heroes; and if a thirst for blood, a contempt of danger, and difregard of the luxuries and conveniences of life, be admitted as the characteristics of a hero, he deserves the appellation, His private life was such as to render him the favourite of his army. Regarding the narrow inclosure of a palace as little better than a splendid prison, he took up his habitation in a camp, where he indulged himfelf in no- R ffia. thing more delicate or could than what could be pocuted by the meanest foldier in his army. Without a utenfil for preparing his food, he contented himfelf with cutting up the meat which was to form his meals, and broiting it upon the coals; and this meat often confilted of horie flesh. If he kept to poor a table, he was not more delicately lodged. He had no tent, but flept in the open field, with a faddle for his pillow, a horfecloth for his covering, and lying on the bare ground, or at most on a piece of the coarlest fest. How much influence fuch a mode of life must have had on the minds of the barbarous foldiers whom he commanded, is sufficiently proved by the experience of times far posterior to that of which we are now writing. The Swedish hero who, in the beginning of the 18th contury, aftonished the whole of Europe with his mad exploits, fared in a fimilar manner, and, like Sviatoflaf, became the darling of his troops. Soldiers willingly share dangers and death with a leader who fubmits himfelf to every hardship, and denies himfelf every accommodation, except what he can enjoy in common with themselves,

When Sviatodaf had thus ingratiated himfelf with An 965. his troops, he prepared to employ them in those ambitious projects which he had long been forming. His first expedition was against the Kozares, a people who had come from the shores of the Caspian, and the sides of Mount Caucasus, and had established themselves along the eastern coast of the Black fea. These people had rendered tributary both the Kievians and the Viateches, a Slavonian nation that dwelt on the banks of the Oka and the Volga. Sviatollaf, defirous of transferring to himself the tribute which the Kozares derived from the latter people, marched against them, and appears to have fucceeded in his defign. He defeated them in a pitched battle, and took by fform their capital city Sarkel, or Belgorod. It is faid by fome historians, that he even annihilated the nation; and certain it is, that from that time no mention is made of the Kozares.

The martial fame of Sviatoflaf had extended to Con-His alliance flantinople; and the emperor Nicephorus Phocas, who with the was then haraffed by the Ungrians, affilled by his greek emtreacherous allies, the Bulgarians, applied for fuccours to the Russian chieftain. A subtidiary treaty was entered into between them, and Sviatoflaf haftened with a numerous army to the affiftance of his new ally. He quickly made himfelf mafter of most of the Bulgarian towns along the Danube, and was fo elated with his fuccefs, that he determined to remove the feat of government from Kief to the city of Pereiallavatz, now Yamboly, feated on the shores of that river. He was foon obliged, however, to postpone the completion of this defign, on receiving intelligence that his old enemies the Petchenegans had affembled in great numbers, ravaged the Kievian territory, and laid fiege to the capital, within the walls of which were that up his mother and his funs. Sviatoflaf haftened to the relief of his family, hut before he reached home, the Petchenegans had been induced to raise the siege by an artifice of the Kicvian general. Sviatoflaf on his arrival purfued the enemy, defeated them, and obliged them

to fue for peace. He now refumed his defign of effablishing himsalf on His vision the banks of the Danube, and divided his hereditary of the prindominions among his children. He gave Kief to Ya- pairty.

ropolk.

Russia. ropolk, the Drevlian territory to Oleg, and on Vladimir, a natural fon, born to him by one of the attendants of Olga, he bestowed the government of Novgorod. On his return to Bulgaria, however, he found that his affairs had affumed a very different aspect. The Bulgarians taking advantage of his absence with his troops, had recovered most of their towns, and seemed well prepared to refift the encroachments of a foreign power. They fell on Sviatoflaf as he approached the walls of Pereiaslavatz, and began the attack with so much fury. that at first the Russians were defeated with great flaughter. They, however, foon rallied, and taking courage from despair, renewed the battle with so much fuccels, that they in their turn became masters of the field. Sviatoflaf took poffession of the town, and soon

recovered all that he had loft.

During these transactions the emperor Nicephorus had been affaffinated, and John Zemisces, his murderer, had fucceeded to the imperial diadem. The new emperor fent ambaffadors to the Ruffian monarch, requiring him to comply with the flipulations of his treaty with Nicephorus, and evacuate Bulgaria, which he had agreed to occupy as an ally, but not as a mafter. Sviatollaf refused to give up his newly acquired possessions, and prepared to decide the contest by force of arms. The particulars of this campaign, and the numbers of the contending armies, are very differently related by the Ruffian annalists, and the historians of the Grecian empire; the former stating that Sviatoslaf had not more than 10,000 men, and yet was victorious over the troops of Zemisces; while the Grecian historians affirm that the Rushans amounted to 300,000, but were defeated, and compelled to abandon Bulgaria by the fuperior skill and discipline of the imperial troops. As far as respects the iffue of the war, the Grecian writers are probably correct, for it is certain that Sviatoflaf retreated towards Russia with the shattered remains of his army. He did not, however, live to reach the capital, for having, contrary to the advice of his most experienced officers, attempted to return to Kief, up the dangerous navigation of the Dnieper, he was intercepted by the Petchenegans near the rocks that form the cataracts of that river. After remaining on the defensive during winter, exposed to all the horrors of famine and difease, he on the return of spring attempted to force his way through the ranks of the enemy; but his troops were defeated, and himself killed in the battle.

It is faid that Sviatoflaf extended the boundaries of the Ruffian dominions by his conquests in Bulgaria; but if his expeditions in that quarter terminated in the manner which we have related, this extension must have been merely temporary, and feems to have had little effect in increasing the power and resources of his

Yaropolk the fovereign of Kief may be confidered as the fuccessor of Sviatoslaf on the Russian throne; but his reign was short and turbulent. A war took place between him and his brother Oleg, on account of a base affaffination committed by the latter on the fon of his father's friend and privy counsellor Svenald. Oleg was defeated and flain, and the other brother, Vladimir, dreading the increased power and ambitious dispofition of Yaropolk, abandoned his dominions, which were quickly feized on by the Kievian prince. Vladimir had retired among the Varagians, from whom he

foon procured fuch fuccours as enabled him to make Ruffia effectual head against the usurper. While his natural courage was thus increased, his enmity against Yaropolk received an additional four from an affront put on him by a lady whom he had fought in marriage, but who despising the meanness of his birth, as being the fon of a flave, had rejected his proposals, and offered her hand to Yaropolk. The vindictive Vladimir, on being informed of this infult, attacked the possessions of the lady's father, put both him and his two fons to the fword, and obliged the princefs to accept his hand, vet reeking with the blood of her father. He now advanced towards Kief, where Yaropolk was by no means prepared to oppose him. The Kievian prince had indeed been lulled into fecurity by the treacherous reports of one of his vovevodes, who was in the interest of Vladimir, and who not only prevented Yaropolk from taking effectual measures for his safety, but found means to raife suspicions in his breast against the inhabitants of his capital, which he thus induced him to abandon, The Kievians, left without a leader, opened their gates to Vladimir; and the wretched Yaropolk, flill mifled by the treachery of his adviser, determined to throw himfelf on the mercy of his brother. It is probable that this would have availed him little, as Vladimir feems to have determined on his death; but before he could reach the arms of his revengeful brother, Yaropolk was affaffinated by some of his Varagian followers.

By this murder, which had probably been planned An. SI. by Vladimir, the conqueror acquired the undivided poffession of all his father's territories, and maintained the fovereignty during a long reign, respected at home, and feared abroad. Indeed, had not the commencement of his reign been stained with the blood of his father-inlaw and his brother, we might place him among the most distinguished monarchs of the age in which he lived, as he not only extended and enriched his empire, but was the means of establishing in his dominions on a firm and lasting basis, the Christian religion, which though introduced by Olga, appears hitherto to have

made but a very trifling progress.

The commencement of Vladimir's reign formed but Reign of a continuation of those enormities which had conducted Vladimir him to the throne. He began with removing Blude, the Great the treacherous voyevode, by whom his brother had been betrayed into his power, and to whom he had promifed the highest honours and dignities. Accordingly for three days he fuffered Blude to live in all the fplendonr of a prince. At the end of that period he thus addressed him. " I have fulfilled my promise; I have treated thee as my friend; the honours thou haft received exceed thy most fanguine wishes. To day, as the judge of crimes, and the executor of justice, I condemn the traitor, and punish the affassin of his prince." Having uttered these words, he cansed Blude to be put to death.

He displayed still more the perfidiousness of his character in his behaviour towards the Varagians, who had affifted in reinstating him on the throne of his ancestors; for on their requesting permission to go and seek their fortune in Grecce, he granted their request, but privately advertised the emperor of their approach, and caused them to be arrested and secured.

Vladimir engaged in numerous wars, and subjected several of the neighbouring states to his dominion. He

An. 973-Succession of Yaropolk.

feized on part of the Polish territories, and compelled the Bulgarians who dwelt in the diffricts that now form the government of Kazan, to do him homage. He subdued the Petchenegans and Khazares, who lay in the immediate neighbourhood of the Kievian state; he reduced to his authority Halitich and Vladimir, countries which are now called Gallicia and Lubemiria; he conquered Lithuania as far as to Memel, and took poffef-

Originally a devout Pagan.

Christianity in Ruf-

fion of a great part of the modern Livonia. His conduct after these successes by no means prognosticated his future zeal for the Christian religion. None of the Russian monarchs appear to have been more devout in the adoration of their heathen deitics than Vladimir. It was usual for him to return thanks to the gods for the fuccefs which they had granted to his arms; and to thew his gratitude by offering on their altars a part of the prisoners he had taken in war. On one occasion his piety extended fo far, that he resolved on felecting one of his own fubjects as the object of his facrifice, thinking that he should thus more worthily teftify his graticade for the fignal favours he had re-ceived from heaven. His choice fell on a young Va-ragian, the fon of a Chriftian, and who had been brought up in the new faith. The unhappy father refused the demanded victim; the people enraged at deeming their prince and their religion infulted by the refusal, assailed the house of the Christian, and having burst open the doors, butchered both the father and the fon, folded in mutual embraces.

F fahtishes

Yet this furious Pagan, and bloody warrior, afterwards became a most zealous Christian, and a shining example to his fubjects of charity and benevolence. The circum ances that led to these important changes are, as well as the martial achievements of this favourite prince, related with great minuteness by the Russian annalifts, and give this part of their chronicles the air rather of a historical romance, than a narrative of facts. We are told that the fame of Vladimir's military exploits had rendered him fo formidable to the neighbouring nations, that each courted his alliance, and firove to render this more lasting by engaging him in the ties of the same religion with themselves. In particular the Greeian emperors fent to him a philosopher, whose exhortations, though they did not at first induce Vladimir to embrace the Greek ritual, at least succeeded in giving him a favourable opinion of it; fo that the philosopher was entertained with respect, and returned home loaded with prefents. We are also told, that, determined to act in the most impartial manner with refpect to the feveral religions which he had been invited to embrace, he dispatched persons remarkable for their wisdom and fagacity, to visit the surrounding nations, observe the religious tenets and ceremonies that distinguished them, and report to him the result of their observations. On the return of these deputies, the report of those who had visited the churches of Constantinople, and witnessed the imposing splendour of religious adoration, and the gorgeous decorations of the Greek priests, in the superb basilicum of St Sophia, proved fo fatisfactory to Vladimir, that he determined on embracing the Christian religion according to the observances of the Greek church, Though he refolved on baptism, he was too proud to seek from the Greek emperor a priest, by whom the solemn ordinance might be performed. With a savage second worthy Vol. XVIII. Part I.

of the times in which he lived, he determined to gain Russia by conquest what his haughty foul distained to acquire by request. He affembled an army selected from all the nations of which his empire was composed, and marching to Taurida, laid fiege to Theodofia, a town even then of great repute, and which commanded the whole Chersonesius. On fitting down before the walls of this place, he is said to have offered up the following characteristic prayer: " O God grant me thy help to take this town, that I may carry from it Christians and priefts, to instruct me and my people, and convey the true religion into my dominions." His prayer was at length granted; and, rather by stratagem than force, he made himself matter of the town, and through it, of the whole Crimea. He might now have received baptism; but his desire of being initiated into the Christian faith feems to have been excited more by ambition, than by true devotion. His ruling paffion promifed to be amply gratified by an alliance with the Grecian emperors, as he would thus acquire some legal claim on the territories which they possessed. He therefore demanded in marriage, Anna, the fifter of Bafilius and Constantine, who jointly held the imperial dignity, threatening, that if they refused his proffered alliance, he would lay fiege to Constantinople. After some deliberation, the emperors complied, on condition, that Vladimir and his people should become Christians; and these conditions being accepted, the Russian monarch was baptized, took the name of Basilius, received the Grecian princess, and, as the reward of his victories, carried off feveral popes and archimandrites, together with facred veffels and church books, images of faints, and confecrated relicks.

Whatever might have been the confiderations that His latter

fwayed with Vladimir in his conversion to the Christian character, faith, it is certain that his new religion had the happicst influence on his future life and conduct. He not only abjured idolatry himfelf, and defroyed the idols which he had caused to be raised in his dominions, but used every exertion to perfuade and compel his subjects to follow his example. Before his conversion, he is faid to have poffeffed five wives, and 800 concubines, but after he became a Christian, he maintained an unshaken fidelity towards the imperial princess. As a Pagan he had been lavish of human blood, and fet but a trifling value on the life of a man; but after he had adopted the religion of Jesus, he could scarcely be persuaded to sentence to death a fingle highway robber. His former delight had been in storming towns and gaining battles; but he now found his greatest pleasure in building churches, and endowing feminaries of education. He encouraged the raising of new cities and towns; peopled the waste diltricts of his country with the priloners whom he had taken in war; and not only conducted himself as a sovereign who consulted the welfare of his dominions, but displayed many amiable qualities that highly endeared him to his subjects. On great festivals, he was accustomed to give entertainments to the inhabitants of the capital, and to fend refrethments to those who were prevented, by fickness or infirmity, from attending the public featt. By these marks of regard to the general and individual interests of his people, he contributed to win them from the old religion, and to give them a tafte for the new doctrines which he profesfed. By flioving that Christianity had made him both

Rusie. a milder and a wifer prince, he insured from his people a respect for the new religion, while the striking example of the fovereign and his nobles could not fail to influence the minds of the inferior orders. Having one day iffued a proclamation, ordering all the inhabitants of Kief to repair next morning to the banks of the river to be baptized, the people cheerfully obeyed the order, observing that if it were not good to be baptized, the prince and the boyars would never fubmit to the cere-

An. 1015. Death and of Viadimir.

The establishment of Christianity in the Russian dominions, forms one of the most prominent features in the reign of Vladimir, and gives him a much juster claim to the title of Great, which has been bestowed on him by historians, than all his numerous victories. We have therefore dwelt on it with the greater minuteness. Indeed the latter transactions of his reign afford but little interest. His last days were embittered by domettic vexations; his wife and one of his favourite fons died long before him, and another of his fons, Yaroflaf, on whom he had bestowed the government of Novgorod, refused to acknowledge him as his liege, and applied to the Varagians for affiftance against his father. aged Vladimir, compelled to march against a rebellious fon, died with grief upon the road, after a long and glorious reign of 35 years.

The character of this monarch may be easily collected from the account we have given of the transactions that marked his reign. He had certainly great, if not amiable qualities; and if he failed in communicating to his fubjects the zeal for civilization and improvement which he himself possessed, it was the fault rather of the times, than of the instructor. His country remained barbarous, because barbarism was the characteristic of the age, and the monarch himself rose but little above the character of a barbarian, because the times in which he lived did not admit of superior refinement. It has been well observed by an ingenious writer on the history of Rushia, that it is scarcely possible for a man to rise far above his cotemporaries, and that had Vladimir lived in the 17th century, the civilization and refinement of Ruffia might have been imputed to him, as it is now

imputed to Peter the Great. His im-

Notwithstanding the circumstances we have noticed, the improvement which Ruffia awed to this prince was or the Rul-fian monar-preat and permanent. With the Christian religion he imported from Greece the arts which then flourished in that empire, and almost entirely new-modelled the language of his country, by engrafting on it the more refined dialect of the Greeks, and adopting, in a great measure, the letters of their alphabet. See Philo-

LOGY.

provement

chy.

The dominions of Russia, which at first confisted of two principalities, that of Novgorod, bordering on the Baltic, and that of Kief, occupying no very large space on the eastern bank of the Duiepr, were, by the victories of Vladimir, extended westward along the shores of the Baltic, into Lithuania and Poland; fouthward along the shores of the Euxine, so as to include the Crimea and great part of the Bulgarian territories; while to the east it extended to the Oka, the Don and the Volga. He still maintained the feat of government at Kief, of which he was styled grand prince, while the other difiricts were either tributary to that principality, or held of it as their superior.

Before his death, Vladimir had divided his extensive Russia. territories among his twelve fons, referving to himfelf and his immediate heir, the grand principality of Kief. Partition The confequences of this ill-judged distribution were of his dodifunion, contention, and almost perpetual warfare among minions at the brothers. The most respectable, and in the end mong his the most powerful of these, was Yaroslaf, or as he is sone commonly called Jaritlaus, prince of Novgorod. This prince finding that Sviatopolk, who had raifed himfelf to the fovereignty of Kief after his father's death, attempted by affaffination, or force of arms, to take poffeffion of the neighbouring principalities, determined to refill him in his incroachments. Collecting an army of Novgorodians, he in 1016, drove Sviatopolk from Kief, and forced him to feek an afylum, with his father-inlaw, Boleslaus, duke of Poland. Boleslaus was easily perfuaded to engage in the cause of his fon-in-law, as he hoped to reap advantage from the quarrels among the descendants of Vladimir, and not only regain that part of his dominions which had been conquered by that prince, but enlarge his territory by encroachments on the Ruffian borders. He therefore accompanied Sviatopolk into Ruffia with an army, retook Kief, and obliged the Novgorodian prince to retire with precipitation. While he was endeavouring to collect fresh forces to renew the war with Bolcflaus and Sviatopolk, the latter, by the treachery and perfidy with which he treated his Polish allies, contributed to his own downfall. He caused great numbers of the Poles to be fecretly maffacred, a transaction by which Boleslaus was so incensed, that he plundered Kief, made himself master of feveral places on the Ruffian frontiers, and then left his perfidious fon in law to shift for himself. Sviatopolk now fought affiftance from the Petchenegans, and with an army of these auxiliaries, offered battle to Yaroslaf, not far from the place, where he had, four years before, caused one of his brothers to be murdered. The contest was long and bloody, but terminated in favour of Yaroflaf. Sviatopolk was put to flight, and died foon

By this victory Yaroflaf acquired possession of the Reign of greater part of his father's dominions, and testified his Yarostas. gratitude for the affiltance given him by the Novgorodians, by the attention which he paid to the particular improvement of that state. He drew up for it a code of laws, which are still known by the appellation of the municipal law of Novgorod. He also exerted himfelf for the welfare of other towns, and of the country

Yaroflaf did not neglect the advancement of the An. 1051. Christian religion. He established a metropolitan in Kief, and thus gave to the Ruffian clergy a head, who might watch over the morals of the inferior pastors, and provide for the general diffemination of the Christian doctrine. He collected feveral books in the Greek religion, and caused many of them to be translated into the

Ruffian language.

This monarch is supposed to have died in 1054, and An 1054 to have reigned 35 years. He followed the example of his father, in dividing his territories among his fons, though he endeavoured to prevent the diffentions which he himfelf had witneffed from such a partition, by exhorting them on his deathbed, to the most intimate concord, and endeavouring to convince them that they would be respected by their subjects, and feared by their enemies,

Ruffia. enemies, only while they continued to act with unani-

Diffentions We know little of the proceedings of Yaroflaf's fucamong the ceffors, except that Ifinflaf, his eldeft fon, and grand prince of Kief, had frequent disputes with his brothers, of Yarollas, in which he was affished by the Poles, and supported by the instuence of the Roman pontiff. During these disputes he was once expelled from his dominions, but again recovered them, and reigned till 1078.

From the death of Hiaflaf to the beginning of the 13th century, the history of Russia comprises little elfe than a continued feries of intestine commotions and petty warfares with the neighbouring states. The same system of difmemberment was continued by the succeeding princes, and was attended with the same result. There were during this period not fewer than 17 independent principalities, though these were at length reduced to feven, viz. those of Kief, Novgorod, Smolensk, Vladimir, Tver, Halitch, and Moskva (Mosco). Of these, Kief and Novgorod long continued to be the most powerful, though they could not always maintain their imperiority over the other principalities; and towards the latter end of the period which we have mentioned. the district of Vladimir erected itself into a grand principality, and became at least as powerful as Kief and

Novgorod. Orign of

division of

Ruffia.

In the supremacy of these three great principalities, the modern we may trace the division of European Russia into Great, Little, and White Redia, a distinction which long maintained its ground, and in later times gave to the fovereign of this empire the title of monarch or emperor of all the Russias. Great Russia comprehended the principality of Novgorod, and extended northward to the White fea, eastward to the river Dving, and the entrance of the Petchora into the Uralian mountains; while to the fouth it bordered on the diffrict of Vladimir, as far as the Volga and the mouth of the Medreditza, and to the well on Lithuania and Pruffia, including the tributary tribes on the Baltic, as far as Memel. Its capital was Novgorod. Little Ruffia extended along the river Ager to the north above the Donetz and the Oka, on the east to the Polovizes and the Petchenegans, while to the fouth it stretched as far as the Taurican Cherfonefus, or the Crimea, and to the west along the banks of the river Goryn. This was the principality of Kief, and in that city was held the feat of government. The principality of Vladimir received the name of White Ruffia. It extended northward along the Volga, to the fouthern boundary of Great Russia; to the east it bordered on the possessions of the Ugres, and the territory of the Mordvines, stretching down the Volga to the mouth of the Oka; to the fouth it extended along the Oka to the principality of Riazan, and the Bulgarian territory. The metropolis of this division was at first Shuia, afterwards Rostof, Susdal, and Vladimir, till at length the feat of government was transferred to Mosco.

The principality of Novgorod appears, during this interval, to have been the most respectable for its commercial intercourse with the neighbouring nations, and for the independent spirit of its internal government. This, though nominally monarchical, feems to have poffeffed much of a republican character The princes were evidently dependent on the people, and some ludicrous inflances of this dependence are related by the old historians. One of the grand princes had fo much displeased Russia. his people, that they refused to pay him their usual obedience. As the prince feems to have been aware of the little influence which he possessed in the state, he employed the metropolitan of the principality to negotiate a reconciliation. This prelate accordingly wrote to the Novgorodians in the following terms. "The grand prince has acted wrong towards you, but he is forry for it, defires you to forgive him, and will behave better \* Tooke's for the future. I will be furely for him, and befeech Ruffa, you to receive him with honour and dignity. \*"

During the intestine broils that attended the dismem- P. 236. berment of the Russian monarchy, the ambition of its Inroads of neighbours, and partly the folly of the contending he Poles, princes, who folicited their affiltance against their rivals, contributed to diminish the strength and resources of the empire. In particular the Pole, and the Hungarians availed themselves of these circumstances. Invited into Ruffia by the rival princes, and allured by the hope of plunder, they readily lent their aid to any of the parties. By ravaging the towns and villages, carrying off the captives into flavery, and making a prey of whatever appeared most useful, they quickly recompensed them-felves for their affishance. The Poles seem to have been most successful in their depredations, and to have fully revenged themselves for their former humilia-

It is not furprifing that a fitte of anarchy and confu-Invafion of fion, fuch as we have described, should hold out a temp, the Tartars, tation to any powerful nation to attempt at acquiring the dominion of a people who showed that they were incapable of governing themselves. Not far from the confines of Vladimir and Kief, viz. in the neighbourhood of the fea of Aral, the wandering hordes of Mongoles, or Mongol Tartars, had taken up their residence. These people appear to have descended from the ancient Scythians, and to have long dwelt on the confines of the Chinese empire. Hence they gradually marched westward, and about 1223 arrived on the shores of the fea of Aral, under the conduct of Tuschi, son of the famous Tehinghis Khan, chief of the Mogul empire, many of whole warlike exploits have been recounted under the article MOGUL. From the Aral, Tuschi conducted his horde along the thores of the Cafpian, and gradually approached the Dniepr. In his course he attacked and overcame the Ticherkeffes, or Circaffians, who on his approach had joined with the Polovtzes, to refift the terrible enemy. The defeated Polovtzes gave notice to their neighbours the Russians, of the approaching form, and invited them to form a common cause against the enemy. In the mean time the Tartars had fent ambaffadors to the Ruffians, hoping to prevent their alliance with the Polovtzes, and thus the more easily subdue the disunited nations. For this time, however, the Ruffians were true to their own interest, and proved firm to their alliance. In concert with the Polovtzes, they affembled an army, and prepared to refift the incursions of the Tartars. Both parties met near the fmall river Kalka, which flows into the fea of Afof, and a furious engagement took place. The Russians fought with great intrepidity, but the Polovtzes thrown into consternation at the furious onset of the Tartars, fuddenly betook themselves to flight. As they formed the van-guard, their flight put the Russian army, which was drawn up behind them, into fuch complete

State of Novgorod.

disorder.

Ruffia. diforder, that a total route enfued. The prince of Kief, who had kept himfelf aloof during the engagement, attempted to refult the victorious Tartars, but his army was attacked and defeated with great flaughter.

Had the princes who then shared among them the Russian territories firmly united against the common enemy, there is little doubt that they might have flemmed the torrent, which foon, from their state of rivalthip and difunion, burst in and overwhelmed them. About 13 years after the defeat on the Kalka, another norde of Tartars, headed by Baaty Khan, the grandfon of Tschinghis khan, penetrated into Russia, after having attacked and defeated their neighbours the Bulgarians. The Tartars foon spread far and wide the terror of their name. Wherever they came, the whole face of nature was laid wafte; towns and villages were destroyed by fire; all the men capable of bearing arms were put to the fword, and the children, women, and old men, carried into captivity. If the inhabitants of the towns to which they approached offered a compromise, the faithless barbarians affected to receive their submission; but immediately broke the agreement, and treated those who furrendered to their mercy with as much rigour as those who had endeavoured to defend themselves, and had been overcome. If the inhabitants of the open towns and villages came out to meet them, and to receive them as conquerors and friends; death, torture, or the most ignominous bondage, was the reward of their fpontaneons fubmillion.

The first state which they attacked was Riazan, the prince of which applied for affiftance to Yury, commonly called by historians, George Sevoloditch, grand prince of Vladimir, who was then chief of the Russian princes. He fent them a few auxiliaries, but they either came too late, or their number was too small. The principality of Riazan fell, and its fall was succeeded by that of Pereiaflavl, Roftof, Sufdal, and feveral others. Like a furious torrent rushing down the mountain's fide, and irrefiftibly carrying with it all that impedes its progrefs, these barbarous hordes rolled their rapid course, carrying in their train fire and fword, ravages and defolation, torments and death, and fweeping all before them in one common devastation. They now approached the principality of Vladimir, and no army appeared to refult them on the frontiers. They advanced unimpeded to the capital, which, left to its fate by the grand prince, had nothing to expect, but the fame cruel treatment which the neighbouring cities had received. Yurv. with unpardonable negligence, was celebrating a marriage feaft, when he ought to have been employed in collecting the means of defence against the enemy, of whose approach to his borders he had received timely intimation. The city of Vladimir, which contained the princess and two of her sons, was left to the protection of a chieftain, totally unqualified for its defence, and the inhabitants feemed to fhare the pufillanimity of their governor. Inflead of annoying the enemy by occasional excursions, and preparing the means of defending the walls against a sudden attack, they gave themselves up to terror and despair; and as they conceived death to be inevitable, they prepared for it, by taking the habits of monks and nuns, in order to infure to themselves a blissful departure. A prey to fear and despondency. the city foon fell into the hands of the Tartars. They one morning fealed the walls, and meeting with little

opposition, quickly made themselves masters of the place; Russia when they cast aside every feeling of humanity, and like beafts of prey, glutted their appetite for blood among the wretched inhabitants. The grand princels, and other ladies of diltinction, dreading the brutality of the relentless conquerors, had taken refuge in the choir of a church, an afylum which all the affurances of the Tartars that they should fuffer no injury, could not prevail on them to abandon. It was therefore fet on fire by the barbarians, who feafted their ears with the shricks and groans of the women, as the flames furrounded

Yury, incenfed almost to desperation, at the sate of his capital, and the horrible death of his wife and children, was determined to take fignal vengeance on the affailants. He affembled all the forces which he could. draw together, and though his army was greatly inferior in numbers to the Tartars, he marched against the enemy, and attacked them with the most determined valour. The struggle was short, but bloody; the Tartars were victorious, and the body of Yury was found.

among the flain.

This appears to have been the only vigorous stand made by the Russian princes. The Tartars pushed forward with rapidity, and fucceffively overpowered the principalities of Novgorod and Kief. In the latter city they found immense booty; but this circumstance did not prevent them from repeating here the fame bloody scenes which they had acted in the other capitals. The governor was preferved from the cruelties that had been inflicted on the inhabitants, by the courage he had difplayed in defence of the city; and his noble demeanour, when he fell into the hands of the conqueror, acquiredthe esteem and affection of that chief, and enabled him to obtain a temporary repose to his country.

The Tartars had now established themselves in the Succession Ruslian territories, and their khan or chief, though of Ruslian he did not himself assume the nominal sovereignty, princes unreigned as paramount lord, and placed on the throne der the any of the native princes whom he found most obsequious Fartars. to his will, or who had ingratiated themselves by the magnificence of their prefents. The throne was fucceffively occupied by Yaroflaf II. Alexander Yaroflavitch, Yaroflaf Yaroflavitch, Vafilii Yaroflavitch, Dimitri Alexandrovitch, Andrei, Danul, both brothers of Dimitri, Mikaila Yaroflavitch, Yury Danilovitch, Alexander Mikailovitch, Ivan Danilovitch, Si-

Among the princes whom we have enumerated, we St Alexanmust particularly notice Alexander the fon of Yaroslafder Nessky.

II. This prince was installed grand prince of Ruslia by the Tartar khan in 1252, and continued to reign till 1264. He is remarkable chiefly for a decifive victory gained by him over the Danes on the banks of the Neva ;-a victory which procured him the honourable furname of Neffsky (the conqueror). This victory is faid to have taken place in 1239, while Alexander was governor of Novgorod, under his father Yaroflaf, who then reigned at Vladimir. After his accession to the throne on the death of his father, he engaged in a fuccessful war with Sweden. This prince is held in great veneration by the Ruffians, and feveral miracles are attributed to him. In particular it is faid, that when the prayer of absolution was offered to his corpse previous to interment (a practice long customary in Rustia), the

meon Ivanovitch, and Ivan Ivanovitch.

Ruffia. hand of the dead body opened to receive it. His reputation for fanctity occasioned him to be ranked among the tutelary faints of the Greek church, where he still holds a diffinguished place, by the title of St Alexander

Neffsky. During these several reigns, which all historians have Subjugation of Ruf- passed over for want of records concerning them, the fia by the miferies of a foreign yoke were aggravated by all the Polcs. calamities of intelline discord and war; whilft the knights of Livonia, or brothers of the fliort-fword, as they are fometimes called, a kind of military order of religious, on one fide, and the Poles on the other, catching at the opportunity, attacked Ruffia, and took feveral of its towns, and even fome confiderable countries. The Tartars and Russians, whose interests were in this case the fame, often united to oppose their common enemy; but were generally worsted. The Livonians took Plefkow, and the Poles made themselves masters of Black Russia, the Ukraine, Podolia, and the city of Kief. Cafimir the Great, one of their kings, carried his conquests still farther. He afferted his pretentions to a part of Russia, in right of his relation to Boleslaus duke of Kalitz, who died without iffue, and forcibly poffelled himfelf of the duchies of Perzemyslia, Kalitz, and Luckow, and of the districts of Sanock, Lubakzow, and Tre-

> The newly-conquered Ruffians were ill disposed to endure the government of the Poles, whose laws and cuitoms were more contrary to their own than those of the Tartars had been. They joined the latter to rid themselves of the yoke, and assembled an army numerous enough to overwhelm all Poland, but destitute of valour and discipline. Casimir, undaunted by this deluge of barbarians, prefented himfelf at the head of a few troops on the borders of the Villula, and obliged

bowla; all which countries he made a province of Po-

An. 1362.

his enemies to retire. About the year 1362 Dimitri Ivanovitch received the fovereignty from the Tartar chief, and established the feat of his government at Mosco. This prince posfeffed confiderable ambition, and contrived to inspire the Ivanovitch, other Russian princes with so much respect for his perfon and government, that they confented to hold their principalities as fiefs under Dimitri. This increased the confequence of the Russian prince, excited the jealoufy of Mammai the Tartar khan, who determined to take measures for maintaining his superiority. He began by demanding an increase of tribute, but when Dimitri feemed to demur at confenting to this new encroachment, the khan not only infifted on his demand, but required the grand prince to appear before him in person. This requisition Dimitri thought proper to refuse, and prepared to support his refusal by force of arms. The terror with which the Tartars had inspired the inhabitants of Russia had now considerably subsided, while the hatred which the Russians bore these haughty mafters, was kept alive by the barbarity of their manners, and the difference of their religion. The Christian ministers, justly dreading that the Tartars, in their furious progress, might extirpate Christianity, contributed all in their power to confirm the spirit of revolt among the people; and they promifed the crown of martyrdom to fuch as thould fall in battle against the infidels. Thus, the contest into which the grand prince deterusined to enter in support of his authority, became in

fome measure a holy war, undertaken in defence of the Roffias national religion. This combination of favourable circumstances operated so strongly in favour of Dimitri, and the princes that had confederated with him, that they foon collected an army of 200,000 men. With this force the grand prince left Mosco, and marched towards the Don, on the fouthern bank of which the Tartars were encamped. Arrived at this river, he left it to the choice of his troops, either to cross the river, and encounter the enemy on the other fide, or to await the attack where they were. The general voice declared for passing over to the assault. The grand prince accordingly transported his battalions across the river, that he might cut off all hope of escaping by retreat. The fight now commenced, and though the numbers of the foe far exceeded their own, the Ruffians defended themselves valiantly against the furious onset of the Tartars; but as these barbarians were continually relieved by fresh reinforcements, they appeared to be gaining ground. Indeed, nothing but the impossibility of retreating across the river, and the firm persuation that death would immediately transport them to the manfions of eternal blifs, restrained the Russians from a general flight. At the moment when the day feemed entirely loft, a detachment of the grand prince's army which he had stationed in referve, and had remained out of the view of the enemy, came up with unabated force, fell on the rear of the Tartars, threw them into fuch terror and confusion, that they sled with Mammai at their head, and left the Ruffians matters of the field. This contest must have been extremely bloody, as we are told that eight days were employed by the remains of the Ruffian army, in burying the bodies of their flaughtered companions, while those of the Tartars were left uninterred upon the ground.

This glorious victory, which took place in 1380, was attended with numerous advantages to the Russian cause. In particular, it taught the native princes that the Tartars were not unconquerable; that nothing was wanting to relieve them from the galling yoke under which they had long groaned, but mutual union, courage, and prudence. The Tartars appear to have been fo much humbled by this defeat, that for a time they left the Ruslians to enjoy in peace their recovered liberty. This forbearance, however, was not of long duration. Before the death of Dimitri they returned with increased numbers, laid fiege to Mosco, which, after an obstinate defence, was at length induced to furrender, and Ruffia

once more submitted to her old masters.

Dimitri died in 1389, and was succeeded by his fon An. 1389. Vafilii Dimitrievitch. In the reign of this prince a new Reign of incursion of the Tartars took place, under the great Valui. Timur or Tamerlane, who after having fubdued all the neighbouring Tartar hordes, extended his conquests to the Ruffian territories, carried Mosco by affault, and

carried off immense plunder. The grand principality of Vladimir, or as it may now Comparabe called, of Mosco, had, at the end of the 14th cen-tive state tury, attained its greatest height, while that of Kief had fian principroportionally declined. This latter principality was, patities at at the time of which we are now writing, under the do-the end of minion of the Poles, having been feized on in 1320 by the 14th Gedemin, duke of Lithuania.

The latter end of the 15th century forms 2 fplendid epoch in the Ruffian history. At this time, viz. from

64 successes of Dimitri

filavitch.

Rustia. 1462 to 1505, reigned Ivan Vasiliivitch, or, as he is commonly called, John Basilovitz. This able prince, by his invincible spirit and refined policy, became both of Ivan Va. the conqueror and deliverer of his country, and laid the first foundation of its future grandeur. Observing with indignation the narrow limits of his power at his accesfion to the throne, after the death of his father Vafiliis the Blind, he began immediately to refolve within himfelf the means of enlarging his dominions. Marriage, though he had in reality no regard or inclination for women, feemed to him one of the best expedients he could begin with; and accordingly he demanded and obtained Maria, fifter of Michael duke of Twer, whom he foon after deposed, under pretence of revenging the injuries done to his father, and added this duchy to his own territories of Mosco. Maria, by whom he had a fon named Ivan, who died before him, did not live long; and upon her death he married Sophia, daughter of Thomas Paleologus, who had been driven from Conftantinople, and forced to feck shelter at Rome, where the Pope portioned this princefs, in hopes of thus procuring great advantage to the Romish religion; but his expectations were frustrated, Sophia being obliged to conform to the Greek church after her arrival in Ruffia.

Incited by hi- wire to fhake off the Tartar yoke.

What could induce Ivan to feek a confort at fuch a distance is nowhere accounted for, unless it be, that he hoped by this means to establish a pretention to the empire of the east, to which her father was the next heir; but however that may be, the Ruffians certainly owed to this alliance their deliverance from the Tartar voke. Shocked at the fervile homage exacted by these proud victors, her husband going to meet their ambasiadors at fome diftance from the city, and flanding to hear what they had to fay, whilst they were at dinner; Sophia told him that the was furprifed to find that the had married a fervant to the Tartars. Nettled at this reproach, Ivan feigned himself ill when the next deputation from the Tartars arrived, and by means of this stratagem, avoided a repetition of the humiliating ceremonial. Another circumstance equally displeasing to this princels was, that the Tartars pollefied by agreement within the walls of the palace at Mosco, houses in which their ministers resided, a stipulation which they had made, at once to flew their power, and watch the actions of the grand prince. To rid her husband and herfelf of these unpleasant neighbours, Sophia sent a formal embaffy to the khan, to inform him, that as the had been favoured with a vision from above, commanding her to build a temple in the place where then flood the houses of the Tartar ministers, her mind could not be at ease till the had fulfilled the divine command; the therefore defired his leave to pull them down, and give his records others The khan confented; the houses within the Kremlin (D) were demolished, and no new ones being provided, the Tartar refidents were obliged to leave Mosco, an affront which their prince was not able to revenge, as he was then engaged in a war with the Poles.

Ivan taking advantage of this circumstance, and having gradually increased his forces, now openly disclaimed all subjection to the Tartars, attacked their territo-

ries, and made himself master of Kazan. Here he was Russia. folemnly crowned with a diadem which is faid to be the fame that is still used in the coronation of the Russian fovereigns. This took place about the year 1470, and led to a complete emancipation of Ruffia from the Tartar dominion. Ivan afterwards carried his arms against the neighbouring states. The province of Permia, with Afiatic Bulgaria, and great part of Lapland, foon fubmitted to him, and the great Novgorod, a city then fo famous that the Russians were accustomed to intimate their idea of its importance by the proverbial expreffion. Who can refift God and the great Novgorod? was reduced by his generals after a feven years fiege, and vielded immense treasure. This place was so wealthy, that Alexander Witold, prince of Lithuania, to whom the Novgorodians were then tributary, derived from it a yearly contribution of 100,000 rubles. The booty carried off by Ivan to Molco, is faid to have confifted of 300 cart loads of gold, filver, and precious stones, with a much greater quantity of furs, cloths, and other merchandife. After he quitted the city, which had been awed by his prefence, the discontents excited at his violent measures broke out into acts of mutiny, on which he, in 1485, carried off 50 of the principal families, and diffributed them through feveral of the Ruffian towns. He afterwards carried off fome thousands of the most considerable inhabitants, and replaced them by more loyal subjects from other places. By these preceedings the flourishing commerce of this city received a confiderable shock, and it suffered still more by the imprisonment of all the German merchants, and the confiscation of their effects. Indeed from this period Novgorod never recovered its former splendor.

After his reduction of Novgorod, Ivan invaded the His invalida te ritories of Livonia and Esthonia, in consequence, as o: Livonia we are told, of an affront offered to him by the inha- and Efthobitants of Reval. Here, however, he met with a flout "12. refiffance, and does not feem to have made much progress. Towards the conclusion of his reign, the Kazapian Tartars, who, though humbled, had continued to inhabit that diffrict, made a hard ftruggle to shake off the Ruffian voke that had been imposed on them; but Ivan had established his authority too firmly for them to accomplish their purpose during his lite. He died in

1505, and was succeeded by his fon Vafilii Ivanovitch, commonly called Bafilius III.

The Tartars of Kazan were flill fuffered to maintain a An. 1505. thew of independency, by electing their own khans; but a Ruffian noble, under the denomination of voivode Reign of was affociated with the khan in the government, and took care that the administration should be conducted in fuch a manner as to fecure the interests of his master. About 14 years after the death of Ivan, however, the Tartars refolved to overturn fo humiliating an administration. They murdered the Russian voivode, expelled their nominal khan, and united themselves with their brethren of the Crimea. With their affiftance they affembled a mighty force, entered the Ruffian dominions, and carried their arms even to the gates of Mofco. The grand prince Vafilii found himself at that time

His fucceff-s against the Tartars.

<sup>(</sup>D) This was the name given to the palace of the grand duke at Mosco, an edifice which is supposed to have been built by

Ruffia. unable to refift the barbarians, and therefore purchased an exemption from general pillage by great prefents, and a promile of renewed allegiance. The lartars retired, but carried off immente booty, and nearly 300,000 prifoners, the greater part of whom they fent to Theodolia in the Crimea, and fold them to the Turks. This humiliation of Vailii did not, however, long continue, and he was foon enabled to make head against the Tartars. and to recover possession of the city Kazan, and of Pscove, a city which had been built by the princess Olga, and was the great rival of Novgorod in wealth and commercial importance. Under this prince all the principalities of Russia were once more united, and they have remained ever fince under the dominion of one fo-

An. 1533. Tyan Valie liivitch II.

It was under the fon and fuccessor of Vasilii, Ivan IV. or, as he is fivled by the Ruffian historians, Ivan Vafiliivitch II. that Ruffia completely emancipated herfelf from her subjection to the Tartars, and acquired a vast accesfion of territory, which extended her empire into the north-east of Asia, and rendered her, for the first time, fuperior in extent to any state that had appeared fince the Roman empire. Vafilii died in 1533, having reigned 28 years, and lived 55. His fon Ivan was only three years old when he fucceeded to the throne, and the queen-mother was appointed regent during his minority. During her administration the state became a prey to anarchy and confusion. She seems to have had no talents for government, and devoted herself entirely to the pursuit of pleasure, so that the ambitious nobles, and in particular the uncles of the young prince, had the most favourable opportunity for aggrandizing themfelves at the expence of the fovereign. The queen mother died in 1538; and though the names and chargeters of those who assumed the regency after her death are not known, it appears that they must have conducted the administration with considerable prudence and circumspection, as, when Ivan attained his 17th year, he was enabled to assume the reins of government without opposition; and from the important transactions in which he immediately engaged, must have been possessed of confiderable refources.

An. 1547-His character.

In taking into his own hands the government of the state, Ivan displayed so much prudence and manly fortitude, as foon raifed him very high in the estimation of his fubjects. At the fame time he shewed marks of a tyrannical disposition, and irritability of temper, which made him rather feared than admired by his friends, while they rendered him an object of terror to his neighbours and his enemies. He faw himfelf furrounded on all fides by contending factions, and to suppress these was the first object of his care. In the choice of means for effecting this, he does not feem to have been very forupulous, provided they tended to the accomplishment of his aim; and in punishing the offences of those who opposed his purpose, his violence of temper not unfrequently led him to confound the innocent with the guilty. He was, however, successful in his great defign, and having fecured the domestic tranquillity of his dominions, he had leifure to direct his attention to the more remote, but not less predominant objects of his ambition. He refolved to attempt liberating his country for ever from the dominion of the Tartars, and he fucceeded. In 1551, he marched an army in the depth

of winter into the diffrict of Kazan, and laid fiege to the capital, regardless of the murmurs of his troops, who loudly and openly expressed their dislike to this expedition, declaring that no good commander would think of conducting his forces to fieges and battles during the inclemencies of winter, or attempt at fuch a feason to attack the enemy in their quarters. Exasperated at these murmurs, he determined to punish severely the principal officers who had contributed to foment the discontents of the foldiers, and by this welltimed feverity he effectually repressed all opposition to

Before entering feriously on the siege of Kazan, he His siege built feveral forts on the frontiers of the Tartar terri- of the Tartories, by which he hoped to awe these barbarians, and tar capital. prevent them from diffurbing the peace of his dominions. He then invested Kazan, and in the year 1 552. made himself master of it by the new, and, to the Tartars, unheard-of method of springing a mine below the walls. We are told by fome hiltorians, that the city had made an obstinate defence, and that, during the fiege, which lasted above feven years, another alarming mutiny broke out in the befieging army; that Ivan was in great danger of his life, and was obliged for a time to abandon the enterprise, and retire to Mosco, where he made an example of the chief mutincers, and again returned to the fiege of Kazan. How far this flatement is to be relied on, it is difficult now to determine; but perhaps this mutiny is confounded with that which we have already noticed, as having taken place at the commencement of the enterprise.

As Kazan was taken by florm, the inhabitants were treated with much rigour; and the flaughter was fo dreadful, that even the flinty heart of Ivan is faid to have relented at the heaps of dead bodies which firuck his fight on entering the city. The inhabitants that escaped flaughter, and the remains of the Tartars, were offered mercy on condition that they should embrace the Christian faith. By this important conquest the dominion of the Tartais, which had oppressed the Russians for more than three centuries, was completely and per-

manently overthrown. About two years after he had abolished the power of His extenthe Tartars, he extended his conqueils eaftward to the Ruffian tershores of the Caspian, and took possession of the terri-ritories. tory that lay on the right bank of the Volga, round the city of Aftracan, which was also inhabited by the Tartar hordes.

Ivan, as well as his grandfather, had found it necef- His levere fary to chaffife the inhabitants of Novogorod; but in treatment the year 1570, this city being suspected of forming a of Novgoplot for delivering itself and the surrounding territory rod. into the hands of the king of Poland, felt still more feverely the effects of his vengeance. All who had been in any degree implicated in the conspiracy, to the number of 25,000, suffered by the hands of the executioner. The city of Pscove was threatened with a similar profeription; but Ivan, on their voluntary submission, contented himself with the execution of a sew monks, and the confication of the property of the most opulent inhabitants. It is not furprifing that acts like these should have given to this prince the names of terrible and tyrant, by which historians have occasionally ditinguished him; though it is not a little extraordinary, that he

deportment, that he resolved to give every encourage- Russia. ment to the English commerce, and thus open a new channel of intercourse with a highly polished nation, by which his subjects might obtain fresh incitements to activity and industry. We are told, that his affection for the English proceeded so far, as to induce him to form the design of marrying an English lady. He expressed the highest esteem for Queen Elizabeth, and requested

by his ambaffador, that if the ingratitude of his fubjects should ever compel him to quit Russia, (a circumstance by no means improbable), she would grant him an asylum in her dominions. It was in consequence of this accidental communication between the Ruffians and the English, that England first engaged in a trade to Ruffia, and promoted this new commerce by the effabliffment of a company of Ruffia merchants in Lon-

About twenty years after Astracan had been annex-Ivan aned to the Russian empire, a new acquisition of territory nexes Siaccrued to it from the conquelts of a private adventise Ruffian turer, in the unknown regions of Siberia. The steps empire, that led to the acquisition of this immense tract of the Afiatic continent, are thus related by Mr Tooke.

"The grand prince, Ivan III. had already fent out a body of men, who penetrated across the Ingrian mountains, and traversed all the districts as far as the river Obv. But, amidst the urgent affairs of government, the discoveries they made insensibly fell into oblivion. Some years afterwards a merchant, named Stroganof, who was proprietor of some falt-works on the confines of Siberia, was curious to gain a farther knowledge of that country, which was likewife inhabited by Tartars, whose khan refided in the capital Sibir. Perceiving, among the perfons who came to him on affairs of trade. men who belonged to no nation with which he was acquainted, he put feveral inquiries to them concerning the place whence they came, and once fent a few of his people with them back to their country. These people brought with them, at their return from the regions they had now explored, and which proved to be this very Siberia, a great quantity of invaluable furs, and thus opened to their master a new road to wealth. However, not so covetous as to wish to keep this treasure to himself, he sent information of it to the court, and the attention of government was once more directed to this country. But the conquest of it, and its conjunction with Ruffia, was referved for an adventurer named Timofeyef Yermak. This Yermak, at the head of a gang of Don Kozaks, had made it his practice to rob and plunder the caravans and paffengers that occasionally frequented the roads, as well as the inhabitants, whereever he came, and was fo fortunate as to escape the fearch of the Ruffian troops that had been fent out against him and his band, which consisted of not fewer than 6000 men. On their flight, he and his people accidentally came to the dwelling of Stroganof, where, hearing much talk about Siberia, and being persons who had nothing to lofe, and therefore might put all to the hazard, they foon formed a plan to penetrate farther into that country, and there feek at once their fafety and their fortune. After numerous struggles and conflicts with the natives, which greatly reduced their numbers, they at length conquered the capital, and shortly after the whole country. Yermak now prefented the

should have retained so much interest in the affections of his subjects, that when, to try their attachment, he, in 1575, abdicated the government, and retained only the title of Prince of Mosco, the majority of the nation loudly expressed their wish for him to resume the admipiltration of affairs. We can account for this, only by confidering the measures which he had adopted for the improvement and civilization of his people. Thefe were of fuch a nature as in a great measure to obliterate the remembrance of his cruelty and oppression. He promulgated a new code of laws, composed partly of fuch ancient statutes as still were in force, and were capable of improvement, and partly of new regulations, which he either contrived himself, or adopted from the neighbouring states. He found it necessary, however, to render many of these laws extremely severe, though their execution was most frequently exemplified in the persons of his nobles, whose perverseness and obstinacy feemed unconquerable by more lenient measures.

Cultivates an inter-

Ivan cultivated an intercourse with several of the European states, especially with Germany, for which counan inter-ropean rattes, especially the feet and a very particular effects the neighbouring Early in his reign, viz. in 1547, he fent a splendid embers baffy to the emperor Charles V. requesting him to permit a number of German artifls, mechanics, and literary men, to establish themselves in Russia. Charles readily complied with his request, and several hundred volunteers were collected and affembled at Lubeck, whence they were to proceed through Livonia to Mosco. The Lubeckers, however, jealous that the improvement of the Ruffians in arts and manufactures might render them independent of their neighbours, and diminish the commercial intercourse that had long subfifted between their city and the principal towns of Russia, arrested the Germans in their route, and in concert with the merchants of Reval and Riga, fent a petition to Charles, requesting him to recal the permission he had granted. In confequence of these measures, many of the German artists returned home, but feveral of them escaped the vigilance of the Lubeckers, and reached Mosco by a circuitous route. Ivan endeavoured to revenge himfelf on the Livonians by invading their country. This was firenuoully defended by the Teutonic knights; and these champions, finding at last that they were unable to maintain their ground, rather than fubmit to the Ruffian monarch, put their country under the protection of Poland.

78 War between the

The Swedes also came in for a share of the Livonian territorics; and this circumstance gave rife to a war between them and the Russians. Ivan invaded Finland; and Swedes, but that country was bravely defended by William of Furstenberg, grand master of the Livonian knights, with the affiftance of the troops of Gustavus Vaza; and it does not appear that Ivan gained much in this expedition, though we are told that the Livonian grand mafter ended his life in a Ruffian prison.

An. 1553 Fire 79 course between Eng-Russia.

In 1553, an event happened which first led to an intercourfe between Russia and England. Some Englishmen who were at that time on a voyage of discovery, landed on the shores of the White sea, where soon after was built the port of Archangel. They were hospitably received by the natives; and intimation of the circumstance being conveyed to Ivan, he sent for the strangers, and was so much pleased with their abilities and

Ruffis. fruit of his toilsome and perilous victories to his tzar (E) Ivan, in hopes of obtaining thereby a pardon for his former depredations, which was granted him accordingly. By the building of feveral towns, and contructing a number of forts, the possession of this country was foon permanently fecured. The lefs and the greater Kabardev were also added to Russia in the reign of Ivan. This tzar, however, not only enlarged the circumference of his empire, partly by force of arms and partly by accident, but he refolved to reform his people. to render them more polified, more skilful, and industrious; but this he found to be the most arduous enterorife he could possibly have undertaken. The infuperable impediments which threw themselves in the way of the execution of this grand work, were the principal incitements to those frequent acts of cruelty and despotifin which have covered his memory with fo deep a

Towards the close of Ivan's reign, a prodigious army of Turks and Tartars entered Ruffia, with a defign to fubdue the whole country. But Zerebrinoff, the tzar's general, having attacked them in a defile, but them to flight with confiderable flaughter. They then retired towards the mouth of the Volga, where they expected a confiderable reinforcement; but being closely purfued by the Ruffians and Tartars in alliance with them, they were again defeated and forced to fly towards Azof on the Black fea. But when they came there, they found the city almost entirely ruined by the blowing up of a powder magazine. The Ruffians then attacked their thips there; took fome, and funk the reft; by which means almost the whole army perished with hunger or

by the fword of the enemy.

From this time the empire of Russia became so formidable, that none of the neighbouring nations could hope to make a total conquest of it. The Poles and Swedes indeed continued to be very formidable enemies; and, by the infligation of the former, the Crim Tartars, in 1571, again invaded the country with an army of 70,000 men. The Ruffians, who might have prevented their passing the Volga, retired before them till they came within 18 miles of the city of Mosco, where they were totally defeated. The tzar no fooner heard this news, than he retired with his most valuable effects to a well-fortified cloyfter; upon which the Tartars entered the city, plundered it, and fet fire to feveral churches. A violent fform which happened at the fame time foon foread the flames all over the city; which was entirely reduced to ashes in fix hours, though its circumference was upwards of 40 miles. The fire likewife communicated itself to a powder magazine at fome distance from the city; by which accident upwards of 50 rods of the city wall, with all the buildings upon it, were deflroyed; and, according to the best hiflorians, upwards of 120,000 citizens were burnt or buried in the ruins, besides women, children, and foreign-Vol. XVIII. Part I.

ers. The castle, however, which was strongly fortified, Russiz. could not be taken; and the Tartars, hearing that a formidable army was coming against them under the command of Magnus duke of Holftein, whom Ivan had made king of Livonia, thought proper to retire. The war, nevertheless, continued with the Poles and Swedes; and the tzar being defeated by the latter after fome trifling fuccefs, was reduced to the necessity of fuing for peace; but the negociations being broken off, the war was renewed with the greatest vigour. The Livonians, Poles, and Swedes, having united in a league against the Russians, gained great advantages over them; and in 1 579, Stephen Battori, who was then raifed to the throne of Poland, levied an army expressly with a design of invading Ruffia, and of regaining all that Poland had formerly claimed, which indeed was little less than the whole empire. As the Poles understood the art of war much better than the Russians, Ivan found his undisciplined multitudes unable to cope with the regular forces of his enemies; and their conquells were fo rapid, that he was foon obliged to fue for peace, which, however, was not granted; and it is possible that the number of enemies which now attacked Rullia might have overcome the empire entirely, had not the allies grown jealous of each other. The consequence of this was, that in 1582 a peace was concluded with the Poles, in which the Swedes were not comprehended. However, the Swedes finding themselves unable to effect any thirg of moment after the defertion of their allies, were obliged to conclude a truce; shortly after which the tzar, having been worsted in an engagement with the Tartars, died in the year 1584.

The eldest son of the late tzar, Feodor (or as he is An. 15% commonly called, Theodore) Ivanovitch, was by no Reign of means fitted for the government of an empire fo exten-Freder five, and a people fo rude and turbulent as had devolved Ivanovirche to him by the death of his father. Ivan had feen the incapacity of his fon, and had endeavoured to obviate its effects, by appointing three of his principal nobles as administrators of the empire; while to a fourth he committed the charge of his younger fon Dimitri. This expedient, however, failed of fuccess; and partly from the mutual jealoufy of the administrators, partly from the envy which their exaltation had excited in the other nobles, the affairs of the empire foon fell into confusion. The weak Feodor had married a fifter of Boris Gudonof, a man of confiderable ambition, immense riches, and tolerable abilities. This man had contrived to make himself agreeable to Feodor, by becoming subservient to his capricious defires and childiffi amusements; and the wealth he had acquired through his interest with the sovereign, enabled him to carry on his ambitious designs. He had long directed his wifnes towards the imperial dignity, and he began to prepare the way for its attainment by removing Dimitri the brother of Feodor. This young prince fuddenly disappeared; and there is every 3 A

82 Deftruction of Moico by the Tartars.

His victo-

ries over

the Tar-

£grs.

<sup>(</sup>E) Previous to the reign of Vafilii, the predecester of the monarch whose transactions we are now relating, the Ruffian fovereigns had held the title of Velikii Kniez, which has been translated great duke, though it more properly denotes grand prince; and by this latter appellation we have accordingly diffinguished the preceding monarchs. Vafili, near the conclusion of his reign, adopted the title of tzar, or emperor; but this title was not fully established till the face Tes and increasing power of his fon Ivan enabled the latter to confirm it both at home and abroad : and fince his time it has been univerfally acknowledged.

84

Actition or Biris,

and termi-

nation of

of Ruric.

Ruffis. reason to believe that he was affassinated by the order of Boris, Feodor did not long furvive his brother, but " died in 1508, not without suspicion of his having been poisoned by his brother-in-law. We are told that the traritza, Irene, was fo much convenced of this, that the never after held any communication with her brother, but retired to a convent, and allumed the name of Alexandra.

With Feodor ended the last branch of the family of Ruric, a dynasty which had enjoyed the supreme power in Ruffia ever fince the establishment of the principality the dynasty by the Varagian chief, viz. during a period of above 700 years. On the death of Feodor, as there was no hereditary fuccessor to the vacant throne, the nobles affembled to elect a new tzor; and the ortful Boris having, through the interest of the patriarch, a man elevated by his means, and devoted to his views, procured a majority in his favour, he was declared the object of their choice. Boris pretended unwillingness to accept the crown, declaring that he had refolved to live and die in a monastery; but when the patriarch, at the head of the principal nobles, and attended by a great concourse of people, bearing before them the cross, and the efficies of feveral faints, repaired to the convent, where the artful usurper had taken up his residence, he was at length prevailed on to accompany them to the palace of the tzars, and fuffer himfelf to be

> Boris affords another example, in addition to the numerous infrances recorded in history, of a fovereign who became beneficial to his subjects, though he had procured the fovereignty by unjuttifiable means. If we give implicit credit to the hiltorians of those times, Boris was a murderer and a usurper, though he had the voice of the people in his favour; but by whatever means he attained the imperial power, he feems to have employed it in advancing the interests of the nation, and in improving the circumstances of his people. He was extremely active in his endeavours to extend the commerce, and improve the arts and manufactures of the Ruffian empire; and for this purpose he invited many foreigners into his d minions. While he exerted kimfelf in securing the tranquillity of the country, and defending its frontiers by forts and ramparts, against the incurfions of his neighbours, he made himself respected abroad, received ambaffadors from almost all the powers of Europe; and after feveral attempts to enlarge his territories at the expence of Sweden, he concluded with that kingdom an honourable and advantageous al-

An. 1601.

crowned.

Soon after the commencement of his reign, the city of Mosco was desolated by one of the most dreadful famines recorded in history. Thousands of people lay dead in the streets and roads; and in many houses the fattest of their inmates was killed, to serve as food for the reft. Parents are faid to have eaten their children, and children their parents; and we are told by one of the writers of that time (Petrius), that he faw a woman bite feveral pieces out of her child's arm as the was carrving it along. Another relates, that four women having defired a peafant to come to one of their houses, on pretence of paving him for fome wood, killed and devoured both him and his horfe. This dreadful calamity lasted three years; and notwithstand ug all the exertions of Boris to provide for the necessities of the inhabitants

of Moleo, we are offered that not fewer than 500,000 Roff's. perifhed by the famine.

During these dittresses of the capital, the power of Investor of Boris was threatened with annihilation by an adventurer the protein who findde by figited up, and pretended to be the your oder pumiprince Ding it, whom all believed to have been affail trinated, or, as Boris had given out, to have died of a malignant fever. This adventurer was a monk named Otrevief, who learning that he greatly refembled the late Dimitri, conceived the project of passing for that the Russian throne. He retired from Russia into Poland, where he had the dexterity to ingratiate himfelf with feme of the principal nobles, and periuade them that he was really Prince Dimitri, the lawful heir to the crown of Russia. The better to insure to himself the support of the Poles, he learned their lan uage, and professed a great regard for the Catholic religion. By this last artifice he both gained the attachment of the Catholic Poles, and acquired the friendthip of the Roman pentiff, whose bleffing and patronage in his as loon as he should have established himself on the fians within the pale of the Catholic church. To the external graces of a fine person, the pretended Dimitri added the charms of irrefilible cloquence; and by the'e accomplishments he won the affections of many of the most powerful among the Polish nobility. In particular the voivede of Sengorrir was fo much captivated by his address, that he not only espouled his cause, but itsmi ed to give him his daughter in marriage, as foon as respectable min excrted himself so warmly in behalf of his intended fon-in-law, that he brought over even the king of Poland to his party. The Kozaks of the Don, who were oppressed by Boris, hoped to gain at least a temporary advantage by the disturbance excited in fayour of the adventurer, and eagerly embraced the opportunity of deciaring in his favour. The news of Prince Dimitri being fill alive, foon penetrated into Ruffia; and though Boris did all in Lis power to defroy the illusion, by probibiting all intercourse between his fubjects and the Poles, and by appealing to the evidence of the murdered prince's mother in proof of his death, the cause of the pretender continued to gain ground. Many circumflances concurred to interett the Rushan people in favour of Otrepies. He had prepared a manifesto, which he caused to be differsed through the empire, and in which he affirmed himself to be the fon of Ivan, and afferted his right to the throne then usurped by Boris. The courtiers of the usurper, who had long been jealous of his elevation, pretended to believe these affertions; while those who were perfuaded that the young prince had been murdered by order of the present tzar, regarded this event as a judgement from heaven. The greater part of the mation appear to have been perfuaded, that the pretender was the real Dimitri; and as they believed that he had been miraculously preierved, they picusly resolved to concur with the hand of Providence in affitting him to recover his just rights. Thus, before he fet foot in Rusha, a numerous party was formed in his behalf. He foon made his appearance on the frontiers with a regiment of P> lish troops, and a body of Kozaks. Poris sent an army

S 5 Dreadful

Ruffer to oppose him; but though the number of these troops gready exceeded the fmall force of Dimitri, these latter were to animated by the eloquence of their leader, and the intrepidity and personal bravery which he displayed in the field of battle, that, after a bloody conflict, the army of Boris was defeated, and the pretended Dimitri remained mafter of the field.

87 His fuecef-This victory, over a superior army, served still further to strengthen the belief, that Dimitri was favoured by heaven, and confequently could not be an impostor. To confirm the good opinion which he had evidently acquired, the victor treated his prifoners with great kindness; caused the dead to be decently interred, and gave thrich injunctions to his troops to behave with humanity in the towns through which he paffed. This gentle behaviour, when contrafted with the horrible exceiles committed by the foldiers of Boris, wherever the people appeared to thew any inclination towards the cause of the invader, gained Dimitri more adherents tion even the perfuafion that he was the lawful fovereign of the country. Unluckily for Boris, the Supertition of the Rullians was about this time directed against him, by the appearance of a comet, and by nomena which were immediately regarded as manifelt demonstrations that the Almighty was pouring out his phials of wrath on the devoted country. It was almost universally believed, that the awful effects of these aiarming appearances could be averted only by supporting the caule of Dimitri, who had hitherto been to fignally protected, and brought to light by the hand of heaven. Boris, unable to refut the torrent of public opinion in favour of his rival, is faid to have taken poison, and thus haftened that fate which he foresaw awaited him, if he thould fall into the hands of his enc-

An. 160 :. The death of Boris took place in the year 160; and though the principal nobility at Mosco placed his fon Feodor on the throne, the party of Dimitri was now fo strong, that Feodor was dethroned and fent to prifon with his mother and fifter, within fix weeks after his ac-

The faccesful monk had now attained the summit of He af ends the Ruffing his ambitious hopes, and made his entry into Molco with the utmost magnificence, attended by his Russian adherents, and his Polith friends. Not deeming himfelf fecure, however, while the fon of Boris remained alive, he is faid to have caused him to be strangled, together with one of his fifters. The new tzar, though he evidently possessed great abilities, feems to have been deficient in point of pradence. Instead of conciliating the favour of his subjects, by attention to their interests, and by conferring on the chief men among them the titles and honours that were at his disposal, he openly displayed his predilection for the Poles, on whom he conferred high posts and dignities, and even connived at the extravagance and enormities which they committed. This impolitic conduct, together with his partiality for the Catholic religion; his marked indifference towards the public worship of the national church, and his want of reverence for the Greek clergy; his marrying a Polith lady; his affectation of Polish manners; his inordinate

voluptuonineis, and the contempt with which he treated

the principal nobility; fo irritated and exasperated the

Ruffians, that discontents and infurrections arole in every quarter of the empire; and the joy with which he had been at first received, was converted into indifference, contempt, and detertation. The Ruffians foun difcovered, from a curious circumstance, that their new ibvereign could not be forung from the blood of their aucient tzars. These had been always lifted on their horses, and rode along with a flow and solemn pace, whereas Dimitri bestrod a furious stallion, which he mounted without the help of his attendants. In addition to these sources of discontent, it was rumoured that a timber fort, which Dimitri had caused to be constructed before Molco, was intended to ferve as an engine of destruction to the inhabitants, and that at a martial fpectacle which the tzar was preparing for the entertainment of his bride, the Poles, and other foreigners that composed his body guard, were, from this building to cast firebrands into the city, and then slaughter the inhabitants. This rumour increased their batred to fury, and they resolved to wreak their vengeance on the devoted tzar. The populace were still farther incented by the clergy, who declaimed against Dimitri as a heretic, and by Schuifkoy, a nobleman who had been condemned to death by the tzar, but had afterwards been pardoned. This nobleman put himfelf at the head of the enraged mob, and led them to attack the tzarian palace. This they entered by affault, put to the fword all the Poles whom they found within its walls, and afterwards extended their maffacre to fuch as were discovered in other parts of the city. Dimitri himfelt, in attempting to escape, was overtaken by his pursuers, and thrust through with a spear, and his dead body being brought back into the city, lay for three days before the palace, exposed to every infult and outrage that malice could invent, or rage inflict. His father-in-law and his wife escaped with their lives, but were detained as prisoners, and the tzaritza was confined at Yarollavl. Schuifkoy, who had pretended to be actuated by no Unfettled

other motives than the pureft patriotifm, now aspired to flate of the vacant throne, and had fulficient interest to carry Russia. his election. His reign was short and uninteresting, and indeed from this time till the accession of the house of Romanof in 1613, the affairs of Russia have little to gratify the curiofity of our readers. Schuiskoy's short reign was disturbed by the pretensions of two fictitious Dimitris, who fuccessively started up, and declared themfelves to be either the late tzar, or the prince whom he had perfonated; and his neighbours the Swedes and Poles, taking advantage of the internal circums in the empire, made many fuccelsful incursions in o Russia, fet fire to Molco, and malfacred above 100,000 of the people. The Ruffians, diffatisfied with the reigning prince, treated with feveral of the neighbouring potentates for the disposal of the imperial crown. They offered it to Vladislaf, or Uladislaus, son of Sigismund, king of Poland, on condition that he should adopt the Greek perfuniion; but as he rejected this preliminary, they turned their eyes, first on a fon of Charles IX. of Sweden, and lastly, on a young native Russian, M'khail Feedorovitch, of the house of Romanos, a jamily distantly related to their ancient tzars, and of which the head was then metropolitan of Rustof, and was held in great estimation. Thus, after a long feries of con ufion and difafter, there accended the Ruffian throne a

3 A 2

Ruffia, new family, whose descendants have raised the empire to commercial intercourse which the cities of Novgorod, Ruffies a ftate of grandeur and importance unequalled in any

former period.

We have feen the calamities brought upon the empire by the partitions of its early monarchs, and the wars to which these partitions gave birthe; by the invasions and tyranny of the Tartars; and laitly, by the diffurbances that prevailed from the machinations of the false Dimitris. We have observed the depression which the empire fuffered under these calamities. We are now to witness its sudden elevation among the powers of Europe, and to accompany it in its hafty firides towards that importance which it has lately affumed. But before we enter on the transactions that have enriched the pages of the Ruffian annals fince the accession of the house of Romanof, it may not be improper or uninterefting, to take a general view of the state of the empire at the beginning of the 17th century.

90 State of the Ruffian

empire at

sury.

At this period the government of Russia may be confidered as a pure ariftocracy, as all the fupreme power refled in the hands of the nobles and the fuperior clergy. ning of the In particular the boyars, or chief officers of the army, 17th cen- who were also the privy counsellors of the prince, poffeffed a very confiderable share of authority. . The election of the late princes Boris, Dimitri, and Schuifkoy, had been conducted principally by them, in concert with the inhabitants of Mosco, where was then held the feat of government. The common people, especially those of the inferior towns, though nominally free, had no share in the government, or in the election of the chief ruler. The boors, or those peasants who dwelt on the noblemen's effates, were almost completely flaves, and transferable with the land on which they dwelt. An

attempt to do away this barbarous vaffalage had been

made, both by Boris and Schuiskov, but from the oppo-

fition of the nobles it was abandoned.

The laws in force at the time of which we are now fpeaking, confifted partly of the municipal laws drawn up for the frate of Novgorod by Yaroflaf, and partly of an amended code, called fudebnik, promulgated by Ivan Vafiliivitch II. By this fudebnik the administration of the laws was made uniform throughout the empire, and particular magistrates were appointed in the several towns and diffricts, all subject to the tzar as their chief. The fudebnik confilted of 97 articles, all containing civil laws, as the penal statutes are only briefly mentioned in some articles, so as to appear either connected with the civil, or as ferving to illustrate them. The criminal laws were contained in a separate code, called gubnaia gramota, which is now lost, but is referred to in the civil code. In neither of these codes is there any mention of ecclefiaftical affairs; but these were regulated by a fet of canons drawn up in 1542, under the inspection of Ivan Vafilivitch, in a grand council held at Mosco. In the civil statutes of the fudebnik, theft was punished in the first instance by restitution, or, if the thief were unable to restore the property stolen, he became the slave of the injured party, till by his labour he had made fufficient compensation. Of murder nothing is faid, except where the person slain was a lord or mafter, when the murderer was to be punithed with death. There is no mention of torture, except in cases of theft.

Before the accession of the house of Romanof, the

and Picove formerly held with the Hans towns, had entirely ceased; but this was in some degree compensated by the newly established trade between Russia and England, the centre of which was Archangel. This trade had been lately increased by the products derived from the acquifition of Siberia, in exchange for which the English principally supplied the Russians with broad cloth. In 1568, an English counting-house was established at Molco, and about the same time the Russian company was incorporated. Previous to the 15th century, the trade of the Ruffians had been carried on merely by barter, but during that century the coinage of money commenced at Novgorod and Picove; and from this time their commerce was placed on an equal footing with that of the other European nations.

Except in the article of commerce, the Ruffians were deplorably behind the reft of Europe; and though attempts had been made by Ivan I. Ivan Vafiliivitch II. and Boris, to cultivate their manners and improve the state of their arts and manufactures, their attempts had failed of fuccels. The following characteristic features of the state of Russia in the 16th century, are given

by Mr Tooke.

The houses were in general of timber, and badly confiructed, except that in Mosco and other great towns,

there were a few houses built of brick.

That contempt for the female fex, which is invariably a characteristic of defective civilization, was confpicuous among the Ruslians. The women were kept in a ftate of perfect bondage, and it was thought a great instance of liberality, if a stranger were but permitted to fee them. They durft feldom go to church, though attendance on divine worthip was confidered of the highest importance. They were constantly required to be within doors, fo that they very feldom enjoyed the fresh

The men of the middle ranks always repaired about noon to the market, where they transacted business together, converfed about public affairs, and attended the courts of judicature to hear the causes that were going forward. This was undoubtedly a practice productive of much good, as the inhabitants of the towns by thefe means improved their acquaintance, interchanged the knowledge they had acquired, and thus their patriotic affections were nourished and invigorated.

In agreements and bargains the highest affeveration was, " If I keep not my word, may it turn to my infamy," a custom extremely honourable to the Russians of those days, as they held the disgrace of having forfeited their word to be the deepest degradation.

If the wife was fo dependent on her hufband, the child was still more dependent on his father; for pa-

rents were allowed to fell their children.

Masters and fervants entered into a mutual contract respecting the terms of their connection, and a written copy of this contract was deposited in the proper court, where, if either party broke the contract, the other might lodge his complaint.

Single combat fill continued to be the last resource in deciding a cause; and to this the judge resorted in cases which he knew not otherwise to determine : but duels out of court were arichly prohibited; and when these took place, and either party fell, the survivor was regarded

of Smolensk.

regarded as a murderer, and punished accordingly, Personal vengeance was forbidden under the strictest

The nobles were univerfally foldiers, and were obliged to appear when summoned, to assist the prince in

his wars.

Till the end of the 16th century, the boor was not bound to any particular mafter. He tilled the ground of a nobleman for a certain time on stated conditions. Thus, he either received part of the harvest or of the cattle, a portion of wood, hav, &cc.; or he worked five days for the mafter, and on the fixth was at liberty to till a piece of ground fet apart for his ufe. At the expiration of the term agreed on, either party might give up the contract to the other; the boor might remove to another mafter, and the mafter difmiss the boor that did not fuit him.

pire had been involved, fince the death of Feodor Iva-

the young Romanof would prove the most fortunate and

prosperous of all the tzars who had filled the Russian

throne. This revelation had an immediate effect on the

electors, as their reverence for the fuperior clergy was

fo great, that none could prefume to doubt the veracity

of a person of such exalted rank and sacred function.

The revelation once made public, the people too ex-

pressed so decidedly their defire to have the young

Romanof for their fovereign, that all foon united in

their choice. The young man himfelf, however, re-

fused the proffered honour, and his mother, dreading

the fate that might arise from so dangerous an elevation.

with tears implored the deputies to depart. The mo-

dest refusal of Mikhail served only to persuade the

people, that he was the most worthy object on which

they could fix their choice; and at length the deputies

returned to Mosco, bringing with them the consent of

the monarch elect. The coronation took place on the

11th of June 1613, and thus the views of Poland and

of Sweden, as well as the defigns of Warina, the widow

of the first pretender Dimitri, who still contrived to

During the troubles and diffentions in which the em-Gireumftan-

ces that

led to the novitch, the chief men of the state were divided into election of feveral parties. Of these, one fought to elevate to the Mikhail throne a Polish prince, while another rather favoured Romanof. the fuccession of a Swede. A third, and by far the frongest party, were desirous to place upon the throne a native Russian; and they foon turned their eyes on Mikhail Romanof, a distant relation of the ancient family of the tzars, whose father was metropolitan of Rostof. The clergy seemed particularly interested in this choice, as they justly concluded, that a Russian, bern and brought up in the orthodox Greek faith, would most effectually prevent the posfon of Catholic opinions or Protestant herefy, the introduction of which was to be feared from the accession of a Polish or a Swedish monarch. Accordingly, the voice of a fingle ecclefiaftic decided the electors in favour of Mikhail. A metropolitan declared in the hall of election, that it had been announced to him by divine revelation, that

keep a party in her favour, were entirely frustrated. An. 1613. At the accession of Mikhail, the Swedes and Poles were in possession of several parts of the empire; and to peace with dislodge these invaders was the first object of the new the Swedes tzar. Aware of the difficulty of contending at once and Poles. with both these formidable enemies, he began by nego-

ciating a treaty of peace with Sweden. This was not

effected without confiderable facrifices. Mikhail agreed Ruffia. to give up Ingria and Karilia, and to evacuate Efthonia and Livonia. Thus freed from his most dangerous enemy. Mikhail prepared to oppose the Poles, of whom a numerous body had entered Ruffia, to support the claims of their king's fon, Vladiflat. Mikhail proceeded, however, in a very wary manner, and initead of oppofing the invaders in the open field, he entrapped them by ambuscades, or allured them into districts already defolated, where they suffered to much from cold and hunger, that in 1610 they agreed to a cellation of hostilities for fourteen years and a half, on condition that the Ruffians should cede to Poland the government

Thus freed from external enemies on terms which, His prodent though not very honourable, were the best that the conduct.

then posture of his affairs admitted, Mikhail fet himfelf to arrange the internal affairs of his empire. He began by placing his father at the head of the church, by conferring on him the dignity of patriarch, which had become vacant. The counsels of this venerable man were of great advantage to Mikhail, and contributed to preserve that peace and tranquillity by which the reign of this monarch was in general diftinguished. The tzar's next step was to form treaties of alliance with the principal commercial states of Europe. He accordingly fent ambaffadors to England, Denmark, Holland, and the German empire; and Rushia, which had hitherto been confidered rather as an Afiatic than a European power, became so respectable in the eyes of her northern neighbours, that they vied with each other in forming

with her commercial treaties.

Mikhail also began those improvements of the laws which we shall presently see more fully executed by his fon and fucceffor; but the tide of party ran fo high, that he could do but little in the way of reformation. He was also obliged to put his frontiers in a state of defence, to provide for the expiration of the truce with Poland, which now drew nigh; and as no permanent peace had been established, both parties began to prepare for a renewal of hostilities. Indeed the armistice was broken by the Ruslians, who, on the death of Sigifmund, king of Poland, appeared before Smolensk, and justified the infringement of the treaty, on the pretext that it was concluded with Sigismund, and not with his fuccessors. Nothing of consequence, however, was done before Smolensk; and the Russian commander, after having lain there in perfect indolence, with an army of 50,000 men, for two years, at length raifed the fiege. Mil.hail attempted to engage the Swedes in an alliance with him against Poland; but failing in this negociation, patched up a new treaty, which continued unbroken till his death. This happened in 1645.

Mikhail was fucceeded by his fon Alexei; but as the An 1646. young prince was only 15 years of age at his father's Ac min death, a nobleman named Morolof had been appointed of Alexei his governor, and regent of the empire. This man Mikha !possessed all the ambition, without the prudence and ad-witch. drefs of Boris, and in attempting to raife himtelf and his adherents to the highest posts in the state, he incurred the hatred of all ranks of people. Though Morolof, by properly organizing the army, provided for the defence of the empire against external enemies, he thamefully neglected internal policy, and comined at the most flagrant enormities in the administration x

mean time the war with Poland continued, but was at length terminated by an armitice, which was prolonged from time to time, during the remainder of Alexei's

once flopped the tzar as he was returning from church to his palace, calling aloud for righteous judges. Though Alexei promifed to make thrich enquiry into the nature and extent of their grievances, and to inflict deferved punishment on the guilty, the people had not patience to await this tardy process, and proceeded to plunder the houses of those pobles who were most obnoxious to them. They were at length pacified, however, on condition that the author of their oppression should be brought to condign punishment. One of the most nefarious judges was put to death; and the principal magittrate of Mosco fell a victim to their rage. The life of Morofof was fpared at the earnest entreaty of the tzar, who engaged for his future good behaviour. Similar disturbances had broken out at Novgorod

and Pscove; but they were happily terminated, chiefly through the exertions of the pietropolitan Nicon, a man of low birth, but who, from a reputation for extraordinary piety and holinefs, had raifed himfelf to the patriarchal dignity, and was high in favour with Alexei.

These commotions were scarcely assuaged, when the internal tranquillity of the empire was again threatened by a new pretender to the throne. This man was the fon of a linendraper, but gave himself out at one time for the fon of the emperor Dimitri, at another for the fon of Schuifkov. Fortunately for Alexei the Poles and Swedes, whose interest it was to have fomented these intestine disturbances, remained quiet spectators of them, and the pretender meeting with few adherents, was foon taken and hanged.

The pacific conduct of the neighbouring states did not long continue, though indeed we may attribute the re-

War with Swe .. cn.

newal of hostilities to the ambition of the tzar. The war with Poland was occasioned by Alexei's Poland and fupporting the Kozaks, a military borde, who had left the northern shores of the Dniepr, and retired further to the fouth. Here they had established a military democracy, and during the dominion of the Tartars in Ruffia, had been fubject to the khan of those tribes; but after the expulsion or subjugation of the Tartars, the Kozaks had put themselves under the guardianship of Poland, to which kingdom they formerly belonged. As the Polish clergy, however, attempted to impose on them the Greek faith, they threw off their allegiance to the king of Poland, and claimed the patronage of Ruffia. Alexei, who feems to have fought for a pretext to break with Poland, gladly received them as his subjects, as he hoped, with their affidance, to recover the territories that had been ceded to Poland by his father. He began by negociation, and fent an embaffy to the king of Poland, complaining of some Polith publications, in which reflections had been cast on the honour of his father, and demanding that by may of compensation, the Ruffian territories formerly ceded to Poland flould be reflored. The king of Poland of course refused so arrogant a demand, and both parties prepared for war. The Rushans, assisted by the Kozaks, were so successful in this contest, that the king of Sweden became jealous of Alexei's good fortune, and apprehensive of an attack. He therefore determined to take an active part in the war, especially as the Lithuanians, who were extremely averse to the Russian dominion, had sought his protection. The war with Sweden commenced in 1656, and continued for two years, without any important advan-

The reign of this monarch is as remarkable for turbulence, as that of his predecessor bad been for tranquillity. No fooner was peace established with the neighbouring states than fresh commotions shook the empire from within. The Don Kozaks, who now formed a part of the Ruffian population, felt themselves aggrieved by the rigour with which one of their officers had been treated, and placing at their head Radzin, the brother of the deceased, broke out into open rebellion. Allured by the foirit of licentiousness, and the hopes of plunder, vast numbers both of Kozaks and inferior Rusfians flocked to the standard of Radzin, and formed an army of nearly 200,000 men. This force, however, was formidable merely from its numbers. Radzin's followers were without aims, without discipline, and were quite unprepared to fland the attack of regular troops. Radzin himfelf feems to have placed no reliance on the courage or fidelity of his followers, and eagerly embraced the first opportunity of procuring a pardon by submission. Having been deceived into a belief that this pardon would be granted on his furrendering himself to the mercy of the tzar, he set out for Mosco, accompanied by his brother; but when he was arrived within a fhort distance of the capital, whither notice of his approach had been fent, he was met by a cart containing a gallows, on which he was hanged without ceremony. His followers, who had affembled at Astracan, were furrounded by the tzar's troops, taken prisoners, and 12,000 of them hung on the gibbets in the highways. Thus this formidable rebellion, which had threatened to fubvert the authority of Alexei, was crushed almost at its commencement.

The influence which Alexei had obtained over the commence-Donfkoi Kozaks, excited the jealoufy of the Sublime ment of a Porte, who justly dreaded the extension of the Russian war with territory on the fide of the Crimea, a peninfula which at Turkey. that time belonged to Turkey. After a foccessful attempt on the frontiers of Poland, a Turkish army entered the Ukraine, and the Roffians made preparations to oppose them. Alexei endeavoured to form a confederacy against the infidels among the Christian potentates of Europe; but the age of crufading chivalry was over, and the tzar was obliged to make head against the Turks, affifted by his fingle ally the king of Poland. The Turkish arms were for some years victorious, especially on the fide of Poland, but at length a check was put to their successes by the Polish general Sobieski, who afterwards afcended the throne of that kingdom. Hostilities between the Turks and Russians were not, however, terminated during the reign of Alexei, and the tzar left to his fuccessor the prosecution of the war.

The reign of Alexei is noft remarkable for the im
yprovements introduced by him into the Ruffian laws. Alexei's

provements introduced by him into the Ruffian laws improve-Before his time the emannoi ukafes, or personal orders ments of of the fovereign, were almost the only laws of the coun-the laws. try. These edicts were as various as the opinions, prejudices, and passions of men; and before the days of Alexei they produced endless contentions. To remedy

Reffix this evil, he made a felection from all the edicts of his predeceffors, of fuch as had been current for 100 years : pre uming that the'e either were founded in natural judice, or during to long a currency had formed the minds of the people to confider them as just. This digeft, which he declared to be the common law of Ruffia, and which is prefaced by a firt of institute, is known by the title of the Ulogenie or S lection, and was long the thindard law book; and all edicts orior to it were declared to be obfoletc. He loon made his new code. however, more bulky than the Selection; and the additions by his fucceffors are beyond enumeration. This was undoubtedly a great and uteful work; but Alexei performed another fill greater.

Though there were many courts of judicature in this widely extended empire, the en poror was always lord paramount, and could take a caule from any court immediately before himself. But as several of the old and held their own courts, the fovereign or his ministers, at a distance up the country, frequently found it d'flicult to bring a culprit out of one of these hereditary feudal jurisdictions, and try him by the laws of the empire. This was a very differentable limitation of imperial power; and the more fo, that fome families, claimed even a right of replevance. A lucky opportunity focu offered of fet ling the diffute, and Alexei embraced

it with great ability. Some families on the old frontiers were taxed with their defence, for which they were obliged to keep reciments on foot; and as they were but icantily indemnified by the flate, it fometimes required the exertion of authority to make them keep up their levies. When the frontiers by the conquest of Kazan were far extended, those centlemen found the regiments no longer burdenfome, because by the help of false musters, the formerly feanty allowance much more than reimburied them for the expence of the establishment. The confequence was, that disputes arose among them about the right of guarding certain districts, and law fuits were necessary to fettle their respective claims. These were tedious and intricate. One claimant showed the order of the court, iffued a century or two back, to his anceftor, for the marching of his men, as a proof that the right was then in the family. His opponent proved, that his ancestors had been the real lords of the marches; but that, on account of their negligence, the court had iffued an emmanoy ukafe to the other, only at that particular period. The emperor ordered all the family archives to be brought to Mosco, and all documents on both fides to be collected. A time was fet for the examination; a fine wooden court-house was built, every paper was lodged under a good guard; the day was appointed when the court should be opened and the claims heard; but that morning the house, with all its contents, was in two hours confumed by fire. The emperor then

faid, " Gentlemen, henceforward your ranks, your pri- Ruffia. vileges, and your courts, are the nation's, and the nation will guard itself. Your archives are unfortunately loft, but those of the nation remain. I am the keeper, and it is my duty to administer justice for all and to all. Your ranks are not private, but national; att-ched to the fervices you are actually performing. Henceforward Colonel Buturlin (a private gendeman) ranks before Captain Viazemay (an old pince)," (F)

The Ruffians owe more to this prince than many of He extends their historians feem willing to acknowledge; and there the comfeems no doubt that fome of the improvements attribu-Ruilla. ther. Under Alexei a confiderable trade was ovened with China, from which country filks, and other rich ftuffs, rhubarb, tea, &c. were brought into Ruffia, and exchanged for the Siberian furs. The exportation of Rustian products to other countries was also increased; and we are affured that Alexei had even prejected the formation of a navy, and would have executed the defigu, had he not been perpetually occupied in foreign

Alexei died in 1676, leaving three fons and fix An. 1676. daughters. Two of the fons, Feodor and Ivan were 99 by a first marriage; the third, Peter, by a fecond. The Reign o two former, particularly Ivan, were of a delicate conflitution, and fome attempts were made by the relations of Peter, to fet them afide. Theie attempts, however, proved unfuccefsful, and Feodor was appointed the fucceffor of Alexei.

The reign of this prince was short, and distinguished rather for the happiness which the nation then experienced, than for the importance of the transactions that took place. He continued the war with the Turks for four years after his father's death, and at length brought it to an honourable conclusion, by a truce for 20 years, after the Turks had acknowledged the Russian right of fovereignty over the Kozaks. Feodor died in 1682, but before his death nominated his hulf-brother Peter his

The fuccession of Peter, though appointed by their An. 1682. favourite tzar Feodor, was by no means pleating to the I trues majority of the Russian nobles, and it was particularly of the prinopposed by Galitzin, the prime minister of the late tzar, cos Sofhia. This able man had espoused the interest of Sophia, the fifter of Feedor and Ivan, a young woman of eminent abilities, and the most infinuating address. Soplaia, upon pretence of afferting the claims of her brother Ivan, who, confidered as the lawful heir of the crown, had really formed a defign of fecuring the fuccession to herfelf; and, with that view, had not only infinuated herfelf into the confidence and good graces of Galitzin, but had brought over to her interests the Strelitzes (G). These licentious foldiers affembled for the purpole, as was pretended, of placing on the throne Prince Ivan, whom

<sup>(</sup>F) This transaction is, by most historians, placed under the reign of Alexei, as we have related it; but Mr Tooke, in his history of Russia (vol. ii. p. 37.), attributes the burning of the records of service, by which the nobles and chief courtiers held their offices, to Feodor.

<sup>(6)</sup> The Strelitzes composed the standing army of Russia, and formed the body guard of the tzars. At this time they amounted to about 14,000, and of course became a formidable engine in the hands of the enterprising princefs.

Ruffiz. they proclaimed tzar by acclamation. During three days they roved about the city of Mosco, committing the greatest excesses, and putting to death several of the chief officers of flate, who were suspected of being boftile to the defigns of Sophia. Their employer did not, however, entirely gain her point; for as the new tzar entertained a fincere affection for his half-brother Peter, he infitted that this prince should share with him the imperial dignity. This was at length agreed to; and on the 6th of May 1682, Ivan and Peter were folemnly crowned joint emperors of all the Russias, while the princels Sophia was nominated their copartner in the govern-

101 Joint reign of Ivan and Peter

From the imbecility of Ivan and the youth of Peter, who was now only 10 years of age, the whole power of the government rested in Sophia and her minister Galitzin, though till the year 1687 the names of Ivan and Peter only were annexed to the imperial decrees. Scarcely had Sophia established her authority than she was threatened with deposition, from an alarming insurrection of the Strelitzes. This was excited by their commander Prince Kovanskoi, who had demanded of Sophia that the would marry one of her fifters to his fon, but had met with a mortifying refusal from the princess. In confequence of this infurrection, which threw the whole city of Mosco into terror and consternation, Sophia and the two young tzars took refuge in a monastery, about 12 leagues from the capital; and before the Strelitzes could follow them thither, a confiderable body of foldiers, principally foreigners, was affembled in their defence. Kovanskoi was taken prisoner, and instantly beheaded; and though his followers at first threatened dreadful vengeance on his executioners, they foon found themselves obliged to submit. From every regiment was felected the tenth man, who was to fuffer as an atonement for the rest; but this cruel punishment was remitted, and only the most guilty among the ringleaders fuffered death.

An. 1687. 102 The party of Peter gains ground.

The quelling of these disturbances gave leifure to the friends of Peter to purfue the plans which they had formed for subverting the authority of Sophia; and about this time a favourable opportunity offered, in confequence of a rupture with Turkey. The Porte was now engaged in a war with Poland and the German empire, and both these latter powers had solicited the affiftance of Ruffia against the common enemy. Sophia and her party were averse to the alliance; but as there were in the council many fecret friends of Peter, these had fufficient influence to perfuade the majority, that a Turkish war would be of advantage to the state. They even prevailed on Galitzin to put himself at the head of the army, and thus removed their principal opponent. It is difficult to conceive how a man, so able in the cabinet as Galitzin, could have fuffered his vanity fo far to get the better of his good fenfe, as to accept a military command, for which he certainly had no talents. Affembling an army of nearly 300,000 men, he marched towards the confines of Turkey, and here confumed two campaigns in marches and countermarches, and loft nearly 40,000 men, partly in unfuccefsful skirmishes with the enemy, but chiefly from difeafe.

While Galitzin was thus trifling away his time in the fouth, Peter, who already began to give proofs of thole great talents which afterwards enabled him to act fo conspicuous a part in the theatre of the north, was ftrengthening his party among the Ruffian nobles. His ordinary refidence was at a village not far from Mofco. and here he had affembled round him a confiderable number of young men of rank and influence, whom he called his play-mates. Among these were two foreigners, Lefort a Genevele, and Gordon a Scotchman, who afterwards figualized themselves in his fervice. These young men had formed a fort of military company, of which Lefort was captain, while the young tzar, beginning with the fituation of drummer, gradually rofe through every subordinate office. Under this appearance of a military game, Peter was fecretly establishing himself in the affections of his young companions, and effectually lulled the fuspicions of Sophia, till it was too late for her to oppose his machinations.

About the middle of the year 1689, Peter, who had An. 1689. now attained his feventeenth year, determined to make Peter oban effort to deprive Sophia of all flare in the govern-tains the ment, and to fecure to himfelf the undivided fovereign-undivided ty. On occasion of a folemn religious meeting that sovereignty, was held, Sophia had claimed the principal place as regent of the empire; but this claim was strenuously opposed by Peter, who, rather than fill a subordinate situation, quitted the place of assembly, and, with his friends and adherents, withdrew to the monastery of the Holy Trinity, which had formerly sheltered him and his copartners from the fury of the Strelitzes. This was the fignal for an open rupture. Sophia, finding that the could not openly oppose the party of the tzar, attempted to procure his affaffination; but as her delign was discovered, the thought proper to solicit an accommodation. This was agreed to, on condition that she should give up all claim to the regency, and retire to a nunnery. The commander of the Strelitzes, who was to have been her agent in the affaffination of Peter, was beheaded, and the minister Galitzin sent into banishment to Archangel.

Peter now faw himself in undisputed possession of the He estaimperial throne; for though Ivan was fill nominally blishes a imperial throne; for though Ivan was the nominary military tzar, he had voluntarily refigned all participation in and naval the administration of affairs, and retired to a life of ob-force. fourity. The first object to which the tzar directed his attention was the establishment of a regular and well-difciplined military force. He had learned by experience how little dependence was to be placed on the Strelitzes, and these regiments he determined to ditband. He commissioned Lefort and Gordon to levy new regiments, which, in their whole constitution, dress, and military exercises, should be formed on the model of other European troops. He next refolved to carry into execution the defign which had been formed by his father, of conflrucking a navy. For this purpose he first took a journey to Archangel, where he employed himself in exmining the operations of the shipwrights, and occasionally taking a part in their labours; but as he learned that the art of ship-building was practifed in greater perfection in Holland, and fome other maritime countries of Europe, he fent thither feveral young Russians to he initiated into the best methods of constructing thips of war. The other measures taken by Peter for establishing a navy, and the success with which they were attended, have been already related under his life , \* See Peter to which we may refer our readers for feveral circum- I. flances relating to his life and character; as our object here is not to write a biography of this extraordinary

man,

Billia. His fucgainft the Turks.

8:56

Peter en-

by the

Swedes.

The war with Turkey still languished, but Peter was refolved to profecute it with vigour, hoping to get poffession of the town of Azof, and thus open a passage to the Black fea. He placed Gordon, Lefort, and two of his nobles at the head of the forces deftined for this expedition, and himfelf attended the army as a private volunteer. The fuccels of the first campaign was but trifling, and Peter found that his deficiency of artillery,

and his want of transports, prevented him from making an effectual attack on Azof. These difficulties, how-ever, were soon surmounted. He procured a supply of artillery and engineers from the emperor and the Dutch. and found means to provide a number of transports. With these auxiliaries he opened the second campaign, defeated the Turks on the fea of Azof, and made himself mafler of the town. Peter was so clated with these succeffes, that on his return from the feat of war, he marched his troops into Mosco in triumphal procession, in which Lefort, as admiral of the transports, and Scheim as commander of the land forces, bore the most confuicuous parts, while Peter himfelf was loft without difting-

tion in the crowd of fubaltern officers.

He now resolved to form a fleet in the Black sea: but as his own revenues were infufficient for this purpole, he issued a ukale, commanding the patriarch and other dignified clergy, the nobility and the merchants, to contribute a part of their income towards fitting out a certain number of fhips. This proclamation was extremely unpopular, and, together with the numerous innovations which Peter was every day introducing, especially his fending the young nobles to vifit foreign countries, and his own avowed intention of making the tour of Europe, contributed to raise against him a formidable party. The vigilance and prudence of the tzar, however, extricated him from the dangers with which he was threatened, and enabled him to carry into execu-

tion his proposed journey. See PETER I.

On his return to his own dominions, Peter paffed An. 1700. through Rawa, where Augustus king of Poland then The tzar had determined, in conjunction with gages in a Augustus and the king of Denmark, to take advantage war with Charles XII of the youth and inexperience of Charles XII, who had of Sweden. just succeeded to the Swedish throne; and in this interview with Augustus, he made the final arrangements for the part which each was to take in the war. Augustus was to receive Livonia as his part of the spoil, while Frederick king of Denmark had his eye on Holftein, and Peter had formed defigns on Ingria, formerly

a province of the Bussian empire.

In the mildle of the year 1700, Charles had left his Is defeated e pital, to oppose these united enemies. He foon comrelled the king of Denmark to give up his designs on Holstein, and fign a treaty of peace; and being thus at liberty to turn his arms against the other members of the confederacy, he refelred first to lead his army against the king of Poland; but on his way he received intelligence that the tzar lad laid fiege to Narva with 100,000 men. On this he immediately embarked at Carlferona, though it was then the depth of winter, and the Balic was fearcely navigate; and from landed at Permay in Livonia with part of his forces, having ordered the rest to Reval. His serny did not exceed 25,000 men, but it was composed of the best soldiers in

Vota XVIII. Part I.

Europe, while that of the Russians was little better R. fin. than an undisciplined multitude. Every possible obfiruction, however, had been thrown in the way of the Swedes. Thirty thousand Ruffians were potted in a defile on the road, and this corps was futtained by another body of 20,000 drawn up fome leagues nearer Narva. Peter himself had set out to hasten the march of a reinforcement of 40,000 men, with whom he intended to attack the Swedes in flank and rear; but the celerity and valour of Charles baffled every attempt to oppole him. He fet out with 4000 foot, and an equal num ber of cavalry, leaving the rest of the army to follow at their leifure. With this small body he attacked and defeated the Russian armies successively, and pushed his way to Peter's camp, for the attack of which he gave immediate orders. This camp was fortified by lines of circumvallation and contravallation, by redoubts, by line of 150 brafs cannons placed in front, and defended by an army of 80,000 men; yet so violent was the at tack of the Swedes, that in three hours the entrenciments were carried, and Charles, with only 4000 men. that composed the wing which he commanded, pursued the flying enemy, amounting to \$0,000, to the river Narva. Here the bridge broke down with the weight of the fugitives, and the river was filled with their bodies. Great numbers returned in despair to their camp. where they defended themselves for a short time, but were at last obliged to surrender. In this battle 30,000 were killed in the intrenchments and the purfuit, or drowned in the river; 20,000 furrendered at discretion, and were dismissed unarmed, while the rest were totally dispersed. A hundred and fifty pieces of cannon, 28 mortars, 151 pairs of colours, 20 flandards, and all the Ruffian baggage, fell into the hands of the Swedes; and the duke de Crov, the prince of Georgia, and feven other generals were made prifoners. Charles behaved with the greatest generofity to the conquered. Being informed that the tradefmen of Narva had refused credit to the officers whom he detained prisoners, he sent 1000 ducats to the dake of Croy, and to every other officer a proportionable fum.

Peter was advancing with 40,000 men to furround the Swedes, when he received intelligence of the dreadful defeat at Narva. He was greatly chagrined; but comforting himfelf with the hopes that the Swedes would in time teach the Ruffians to beat them, he returned to his own dominions, where he applied himself with the utmost diligence to the raising of another army. He evacuated all the provinces which he had invaded, and for a time abandoned all his great projects, thus leaving Charles at liberty to profecute the war against

Poland

As Augulus had expected an attack, he endeavoured to draw the txar into a close alliance with him. The two monarchs had an interview at Birfen, where it was agreed that Augustus should lend the tzar 50,000 German foldiers, to be paid by Ruffia; that the tzar should fend an equal number of his troops to be trained up to the art of war in Poland; and that he flould pay the king 3,000,000 of rixdollars in the space of two years. Of this treaty Charles had notice, and, by means of his minister Count Piper, entirely frustrated the scheme.

3 B

After the battle of Narva, Charles became confident Renewed and negligent, while the activity of Peter increased with exert one of his leffes. He fupplied his want of artillery by melting Peter.

Riffia. Hown the Lell of the churches, and confirmeted numerous finall veilels on the lake of Ladoga, to oppose the entrance of the Swedes into his dominions. He took every advantage of Charles's negligence, and engaged in frequent thirmithes, in which, though often beaten, he was fometimes victorious. Thus, he proved to his foldiers, that the Swedes though conquerors, were not invincible, and kept up the spirit of his troops by liberally rewarding every inflance of courage and fuccess. He contrived to make himfelf master of the river Neva, and captured Nyenfehantz, a fortress at the mouth of that river. Here he laid the foundation of that city which he had long projected, and which was to become the future metropolis of his empire. At length in 1704 he became mailer of Ingria, and appointed his favourite Prince Menzikoff to be vicercy of that province, with strict orders to make the building of the new city his principal concern. Here already buildings were rifing in every quarter, and navigation and commerce were in-

creafing in vigour and extent.

In the mean time Augustus king of Poland, though The Swedes treating with Charles for the furrender of his dominions, was obliged to keep up the appearance of war, which he had neither ability nor inclination to conduct. He had been lately joined by Prince Menzikoff with 30,000 Rullians; and this obliged him, contrary to his inclination, to hazard an engagement with Meyerfeldt, who commanded 10,000 men, one half of whom were Swedes. As at this time no disparity of numbers whatever was reckoned an equivalent to the valour of the Swedes, Meyerfeldt did not decline the combat, though the army of the enemy was four times as numerous as Lis own. With his countrymen he defeated the enemy's first line, and was on the point of defeating the second, when Staniflaus, with the Poles and Lithuanians, gave way. Meyerfeldt then perceived that the battle was loit; but he tought desperately, that he might avoid the difgrace of a defeat. At last, however, he was oppressed by numbers, and forced to surrender; suffering the Swedes for the first time to be conquered by their enemies. The whole army were taken prifoners excepting M. jor-general Kr. firm, who having re; cate dly rallied a body of horse formed into a brigade, at lail broke through the enemy, and escaped to Possania. Augustus had scarcely sung Te Deum for this victory, when his plenipotentially returned from Saxony with the articles of the treaty, by which he was to renounce all claim to the crown of Poland in favour of his rival Stanifleus. The king hebtated and ferupled, but at laft figured them; after which he fet out for Saxony, glad at any rate to be freed from such an enemy as the king of

Augustus Poland.

Sec Pat 121.

111 Peter determines t continue the war.

The tz. r Peter was no fooser informed of this extraordinary treaty, and the cruel execution of his plenipotentiary Patkul, \* than he fent letters to every court in Christendom, complaining of this gross violation of the law of nations. He entreated the emperor, the queen of Britain, and the States General, to revenge this is ult on humanity. He fligs atized the compliance of Augustus with the opprobit us name of pusillaminity; exhorted them not to guarantee a treaty fo unjust, but to despife the menaces of the Swedish bully. So well, however, was the prowefs of the king of Sweden known, that none of the allies thought proper to irritate him, by refusing to guarantee any treaty he

thought p. oper. At fish, Peter thought of revenging Rulls Patkul's death by maffacring the Swedith priloners at Mesco; but from this he was deterred, by remembering that Charles had many more Ruffian prisoners than he himself had of Swedes. Giving over all thoughts of re- An. 1707. venging Limfelf in this way, therefore, in the year 1707 111 he entered Poland at the head of 60,000 men. Ad-Peterenters vancing to Leopold, he made himself master of that Poland. city, where he affembled a diet and folemnly deposed Staniflaus with the fame ceremonies which had been used with regard to Augustus. The country was now reduced to the most miserable situation; one party, through fear, adhered to the Swedes; another was gained over, or forced by Peter to take part with him : a violent civil war took place between the two, and great numbers of people were butchered; while cities. towns, and villages, were laid in ashes by the frantic multitude. The appearance of a Swedish army under King Staniflaus and General Lewenhaupt, put a ftop to these disorders, Peter himself not caring to tland before such enemies. He retired, therefore, into Lithuania, giving out as the cause of his retreat, that the country could not fupply him with provision and forage necessary

for fo great an army.

During these transactions Charles had taken up his charles refidence in Saxony, where he gave laws to the court of vifits Au-Vicnua, and in a manner intimidated all Europe. At guitus, last, satiated with the gloty of having dethroned one king, fet up another, and itruck all Europe with terror and admiration, he began to evacuate Saxony in pursuit of his great plan, the dethroning the tzar Peter, and conquering the vaft empire of Ruilia. While the army was on full march in the neighbourhood of Drefden, he took the extraordinary resolution of visiting King Augustus with no more than five attendants. Though he had no reason to imagine that Augustus either did or could entertain any friendship for him, he was not uneasy at the confequences of thus putting himfelf entirely in his power. He got to the palace door of Augustus before it was known that he had entered the city. General Fleming having feen him at a distance, had only time to run and inform his master. What might be done in the present case immediately occurred to the minister, but Charles entered the elector's chamber in his boots before the latter had time to recover from his furprife. He breakfasted with him in a friendly manner, and then expressed a defire of viewing the fortifications. While he was walking round them, a Livonian, who had formerly been condemned in Sweden, and ferved in the troops of Saxony, thought he could never have a more favourable opportunity of obtaining pardon. He therefore begged of King Augustus to intercede for him, being fully affared that his majeffy could not refuse so flight a request to a prince in whose power he then was. Augustus accordingly made the request, but Charles refused it in such a manner, that he did not think pro-per to ask it a second time. Having passed some hours in this extraordinary vifit, he returned to his army, after having embraced and taken leave of the king he had dethroned.

The armies of Sweden, in Saxony, Poland, and Fin- and land, now exceeded 70,000 men; a force more than marches fufficient to have conquered all the power of Ruffia, had again it the they met on equal terms. Peter, who had his army dispersed in small parties, instantly affembled it on re-

Ruffin ceiving notice of the king of Sweden's march, was making all possible preparations for a vigorous resulance, and was on the point of attacking Stanislaus, when the approach of Charles ftruck his whole army with terror. In the month of January 1708 Charles paffed the Niemen, and entered the fouth gate of Grodno just as Peter was quitting the place by the north gate, Citarles at this time had advanced fome diffance before the army, at the head of 600 horfe.

The Kulflans a ain

defeated.

The tzar having intelligence of his fituation, feat back a detachment of 2000 men to attack him, but thefe were entirely defeated; and thus Charles became paffeffed of the whole province of Lithuania. The king purfued his flying enemies in the midd of ice and fnow, over mountains, rivers, and moraffes, and through obflacles, which to furmount feemed impedible to human These difficulties, however, he had forefeen, and had prepared to meet them. As he knew that the country could not familh provide as fafficient for the fubilitence of his army, he had provided a large quantity of bifcuit, and on this his troops chiefly fubfifted, till they came to the banks of the Berizine, in view of Borislow. Here the tzar was posted, and Charles intended to give him battle, af er which he could the more eafily penetrate into Rulla. Peler, however, did not think proper to come to an aftion, but retreated towards the Dniepr, whither he was period by Charles, as foon as he had refreshed his army. The Ruffians had deftroyed the roads, and defolded the country, yet the Swedish army advanced with great celerity, and in their march defeated 20,000 Rusions, though entrenched to the very teeth. This victory, confidering the circumflances in which it was gained, was one of the most glorious that ever Charles had at chieved. The memory of it is preferved by a medal flruck in Sweden with this infcription; Sylvee, paludes, aggeres, hoftes, villi.

When the Ruffians had re-paffed the Dniepr, the tzar, finding himfelf purfued by an enemy with whom make peare, he could not cope, resolved to make proposals for an accommodation; but Charles answered his proposals with this arrogant reply; " I will treat with the tzar at Mafco;" a reply which was received by Peter with the coolness of a hero. " My brother Charles, faid he, affects to play the Alexander, but he fill not find in me He fill, however, continued his retreat, and Charles purfued fo closely, that daily skirmishes took place between his advanced guard and the rear of the Rushians. In these actions the Swedes generally had the advantage, though their petty victories cost them dear, by contributing to weaken their force in a country where it could not be recruited. The two armies came fo close to each other at Smolensk, that an engagement took place between a body of Ruffi, us compoled of 10,000 cavalry and 6500 Kalmuks, and the Swedish vanguard, composed of only fix regiments, but commanded by the king in perfon. Here the Ruffians were again defeated, but Charles having Leén feparated from the main body of his detachment, was exposed to great danger. With one regiment only, he fought with fuch fury as to drive the eacmy before him, when they An. 17c8, thought themselves are of making him prisoner.

By the 3d of October 1708, Charles had approached within 100 lengues of Mosco; but Peter had rendered the roads impeffable, and had defroyed the villages

on every fide, to as to cut off every possibility of subfide. Rusia. ence to the enemy. The feafon was far advanced, and the feverity of winter was approaching, fo that the Swedes were threatened with all the miferies of cold and famine, at the fame time that they were exposed to the attacks of an enemy greatly superior in number, who, from their knowledge of the country, had almost conflant opportunities of haraffing and attacking them by furprise. For these reasons the king reliabled to pass the Ukraine, where Mizeppa, a Poluh gentleman, was general and chief of the nation. Mazeppa having been affronted by the tzar, readily entered into a treaty with Charles, whom he promifed to affift with 30,000 men. great quantities of provisions and ammunition, and with all his treasures, which were immense. The Sandish army advanced towards the river Diffra, where they had to encounter the greatest difficulties; a terest above 42 leagues in execut, filled with reas, notation, and marthes. To complete their mi-fortunes, they were led 30 leagues out of the right way; all the ar ille-y was lunk in boys and marth s; the providen of the foldiers, which confitted of likelt, was cannot do and at the Difna. Here they experted to move met Mazera hotile and , and the past re itself almost impracticable. Charles, however, was fill undounted; he let his foldiers by 1 pes down the fleep banks; they crofput together; grove the Rumans from their poil, and continued their march. Maze pa from a ter oppeared, having with him about 6200 mm, the baoken remains of the army he had promifed. The Rullers had got inherents, had his toon in after, and taken all the provih ped to be utiful by his intelligence in an unknown country; and the Koz ks, out of revenge, provided

Charles entered the Ukraine, he h d fent orders to Geof whom were Swe es, and a large convoy of provifions. Against this detachment Peter now best his whole force, and marched against him with an army of 65,000 men. Lewenhau, I had received intelligence that the Ruffian army confided of only 24,000, a force to which he thought 6000 Swedes fujerier, and therefore diffained to entrench himfelf. A furious conteit enfued, in which the Ru. hans were defeated with the lofs of 15,000 men. Now, however, affairs began to take another turn. The Swedes, elated with victory. profecuted their march into the interior; but from the ignorance or treachery of their guide, were led into a marshy country, where the roads were made impassable by felled trees and deep ditches. Here they were athad fent a detachment to dispute the passage of a body of Ruffians over a morals; but finding his detachment likely to be overpowered, he murched to support them with all his infantry. Another desperate battle ensued; the Ruffians were once more thrown into diforder, and were just on the point of being totally defeated, when Peter gave orders to the Kozaks and Kalauks to fire

Charles advances towards Mofco.

tempts to

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upon all that fled; " Even kill me, faid he, if I should be fo cowardly as to turn, my back." The battle was now renewed with great rigour; but notwithstanding the trans, positive orders, and his own example, the day would have been loft, had not General Bauer arrived with a firong reinforcement of fresh Ruslian troops. The engagement was once more renewed, and continued without intermission till night. The Swedes then took polieshon of an advantageous post, but were next morning attacked by the Russians. Lewenhaupt had formed a fort of rampart with his waggons, but was obliged to fet fire to them to prevent their falling into the hands of the Russians, while he retreated under cover of the fracke. The tzar's troops, however, arrived in time to fave 500 of these waggens, filled with provisions destined for the distressed Swedes. A strong detachment was fent to pursue Lewenhaupt; but so terrible did he now appear, that the Ruffian general offered him an honourable capitulation. This was rejected with difdain, and a freth engagement took place, in which the Swedes, now reduced to 4000, again defeated their enemies, and killed 5000 on the ipot. After this, Lewenhaupt was allowed to purfue his retreat without moleftation, though deprived of all his cannon and provisions. Prince Menzikoff was indeed detached with a body of forces to harais him on his march; but the Swedes were now fo formidable, even in their diffrefs, that Menzikoff dared not attack them, fo that Lewenhaupt with his 4000 men arrived fale in the camp of Charles, after having destroyed nearly 30,000 of the

This may be faid to have been the last successful effort of Swedish valour against the troops of Peter. The difficulties which Charles's army had now to undergo, exceeded what human nature could support; yet still they hoped by conflancy and courage to fubdue them. In the feverest winter known for a long time, even in Russia, they made long marches, clothed like favages in the fkins of wild beafts. All the draught horfes perished; thousands of foldiers dropt down dead through cold and hunger; and by the month of February 1709, the whole army was reduced to 18,000. Amidst num-perless difficulties these penetrated to Pultava, a town on the eastern frontier of the Ukraine, where the tzar had laid up magazines, and of these Charles resolved to obtain possession. Mazeppa advised the king to inveit the place, in consequence of his having correspondence with some of the inhabitants, by whose means he hoped it would be furrendered. However, he was deceived; the belieged made an obstinate defence, the Swedes were repulsed in every affault, and 8000 of them were defeated, and almost entirely cut off, in an engagement with a party of Russians. To complete his misfortunes, Charles received a shot in his heel from a carabine, which shattered the bone. For fix hours after, he comtinued calmly on horseback, giving orders, till he fainted with the loss of blood; after which he was carried into his tent.

For some days the tzar, with an army of 70,000 men, had lain at a small distance, harasting the Swedith camp, and cutting off the convoys of provision; but now intelliger ce was received, that he was advancing as if with a de gn of attacking the lines. In this fituation, Charles, wounded, diffressed, and almost furrounded by enemies, is faid to have, for the first time, assembled a Ruffige grand council of war, the refult of which was, that it became expedient to march out and attack the Ruffians. Voltaire, however, totally denies that the king relaxed one jot of his wonted oblinacy and arbitrary temper; but that, on the 7th of July, he fent for General Renfchild, and told him, without any emotion, to prepare for attacking the enemy next morning. .

The 8th of July 1709 is remarkable for the battle which decided the fate of Sweden. Charles having left 8000 men in the camp to defend the works and repel the fallies of the belieged, began to march against his enemies by break of day with the rest of the army, confifting of 26,000 men, of whom 18,000 were Kozaks The Ruffians were drawn up in two lines behind their entrenchments, the horse in front, and the foot in the rear, with chaims to fuffer the horse to fall back in case of necessity. General Slippenbach was dispatched to attack the cavalry, which he did with fuch impetuofity that they were broken in an instant. They, how, ever, rallied behind the infantry, and returned to the charge with fo much vigour, that the Swedes were difordered in their turn, and Slippenbach made prifoner. Charles was now carried in his litter to the scene of confulion. His troops, re-animated by the prefence of their leader, returned to the charge, and the battle became doubtful, when a blunder of General Creuk, who had been dispatched by Charles to take the Russians in flank, and a fuccelsful manœuvre of Prince Menzikoff, decided the fortune of the day in favour of the Ruffians. Creuk's detatchment was defeated, and Menzikoff, who had been fent by Peter with a strong body to post himfelf between the Swedes and Pultava, fo as to cut off the communication of the enemy with their camp, and fall upon their rear, executed his orders fo much success, as to cut off a corps de reserve of 3000 men. Charles had ranged his remaining troops in two lines, with the infantry in the centre, and the horse on the two wings, They had already twice rallied, and were now again attacked on all fides with the utmost fury. Charles in his litter, with a drawn fword in one hand, and a piftol in the other, seemed to be everywhere present; but new misfortunes awaited him. A cannon ball killed both horses in the litter; and scarcely were these replaced by a fresh pair, when a second ball broke the litter in pieces, and overturned the king. The Swedish soldiers believing him killed, fell back in consternation. The first line was completely broken, and the second sted. Charles, though disabled, did every thing in his power to reflore order; but the Ruffians, emboldened by success, pressed so hard on the slying foe, that it was impossible to rally them. Renschild and several other general officers were taken priloners, and Charles himfelf would have shared the same fate, had not Count Poniatofski (father of the future favourite of Catharine II.) with 500 horse, furrounded the royal person, and with desperate fury cut his way through ten regiments of the Russians. With his small guard the king arrived on the banks of the Dniepr, and was followed by Lewenhaupt with 4000 foot, and all'the remaining cavalry. The Ruffians took poffession of the Swedist camp, where they found a prodigious fum in specie; while Prince Menzikoff pursued the flying Swedes; and as they were in want of Louis to cross the Dniepr, obliged them

Ruffia: to furrender at diferetion. Charles escaped with the utmoit difficulty, but at length reached Ochakof on the frontiers of Turkey, See Sweden.

By this decifive victory, Peter remained in quiet poffession of his new acquititions on the Baltic, and was enabled to carry, on, without molestation, the improvements which he had projected at the mouth of the Neva. His haughty rival, fo long and fo jully dreaded, was now completely humbled, and his ally the king of Poland was again established on his throne. During the eight years that had elapfed from the battle of Narva to that of Pultava, the Russian troops had acquired the discipline and steadiness of veterans, and had at length learned to best their former conquerors. If Peter had decreed triumphal processions for his trifling fuccesses at Azof, it is not surprising that he should commemorate a victory fo glorious and fo important as that of Pultava by fimilar pageants. He made his triumphal entry into Mosco for the third time, and the public rejoicings on this occasion far exceeded all that had before been witneffed in the Russian empire.

An. 1711. Dangerous finiation of Pruth.

The vanquished Charles had, in the mean time, found a valuable friend in the monarch in whose territories he had taken refuge. Achmet II. who then filled the Ot-Peter at the toman throne, had beheld with admiration the warlike atchievements of the Swedish hero, and, alarmed at the late fuccesses of his rival, determined to afford Charles the most effectual aid. In 1711, the Turkish emperor affembled an immense army, and was preparing to invade the Russian territories, when the tzar, having intimation of his delign, and expecting powerful support from Cantemir, holpodar of Moldavia, a vaffal of the Porte, resolved to anticipate the Turks, and to make an inroad into Moldavia. Forgetting his usual prudence and circumspection, Peter crossed the Dniepr, and advanced by rapid marches as far as Yaffy or Jaffy, the capital of that province, fituated on the river Pruth; but his temerity had nearly cost him his li-berty, if not his life. The particulars of his dangerous fituation, with the manner in which he was extricated from it, by the prudent counsel of his confort Catharine, and the advantageous treaty of the Pruth. which was the result of that counsel, have been already related under CATHERINE I.

An. 1721. Advantageous Sweden,

By this treaty, in which the interests of Charles had been almost abandoned, Peter saw himself delivered from a dangerous enemy, and returned to his capital, to propeace with fecute those plans for the internal improvement of his empire which justly entitled him to the appellation of GREAT. Before we enumerate these improvements, however, we must bring the Swedish war to a conclufion. The death of Charles, in 1718, had left the Swedish government deplorably weakened, by the continual drains of men and money, occasioned by his mad enterprifes, and little able to carry on a war with a monarch fo powerful as Peter. At length, therefore in 1721, this ruinous contest, which had continued ever fince the commencement of the century, was brought to a conclufion by the treaty of Nystadt, by which the Swedes were obliged to cede to Ruffia, Livonia, Ethonia, Inguia, a part of Katelia, the territory of Vyborg, the ife of Oefel, and all the other illands in the Baltic, from Courland to Vyborg; for which concessions they received back Finland, that had been conquired by Peter, augether with 2,000,000 of dollars, and the liberty of

exporting duty free, from Riga, Reval, and Arenthere, Ruffia. corn to the annual amount of 10,000 rubles. In confequence of this great accession to the Russian erapire, Peter received from his senate the title of emperor and autocrator of all the Russias, and the ancient title of tzar fell into disufe.

The improvements introduced by Peter into the in-Peter's naternal policy of the empire, must be acknowledged totional imhave been numerous and important. He organized a provements, new the legislative affembly of the state; he greatly ameliorated the administration of justice; he new-modelled the national army; entirely erected the Ruslian navy; rendered the ecclefiaftical government milderand less intolerant; zealously patronised the arts and sciences; erected an observatory at St Petersburg, and by publicly proclaiming the approach of an ecliple, and the precise time at which it was to take place, taught his fubjects no longer to confider fuch a phenomenon as an omen of difatter, or an awful menace of divine judgement. He enlarged the commerce of his empire, and gave every encouragement to trade and manufactures. He formed canals, repaired the roads, instituted regular posts, and laid down regulations for a uniformity of weights and measures. Lastly, he in some measure civilized his subjects, though it is evident that he could not civilize himfelf.

It is the province of the historian to delineate the Character characters of the princes whose transactions he relates of Peter. Various have been the characters given of Peter the Great, by those who have detailed the events of hisreign. It is certain that to him the Ruslian empire is indebted for much of that fplendour with which the now shines among the powers of Europe. As a monarch, therefore, he is entitled to our admiration, but as a private individual we must consider him as an object of detestation and abhorrence. His tyranny and his cruelty admit of no excuse; and if we were to-suppose that in facrificing the heir of his crown he emulated the patriotism of the elder Brutus, we must remember that the same hand which signed the death warrant of his son, could, with pleafure, execute the fentence of the law, or rather of his own caprice, and, in the moments of diffipation and revelry, could make the axe of justice an instrument of diabolical vengeance, and of cool brutality.

Peter was succeeded by his confort Catharine, in An. 1725whose favour he had, some years before his death, altered the order of fuccession. As the character of this Catharine I. princes, and the transactions of her short reign, have been fully detailed under her life \*, we shall here only \* See Canotice in the most curfory manner the events that took therine I.

From the commencement of her reign, Catharine conducted herfelf with the greatest benignity and gentlenels, and thus fecured the love and veneration of her fubjects, which the had acquired during the life of the empergr. She reduced the annual capitation tax; ordered the numerous gibbets which Peter had erected in various parts of the country to be cut down, and had the bodies of those who had fallen victims to his tyranny decently interred. She recalled the greater part of those whom Peter had exiled to Siberia; paid the troops their arrears; reclored to the Kozaks those privileges and immunities of which they h d been deprived during the late reinn; and the continued in office most of the fervants of Peter, both civil and military. She concluded

Ruffia. a treaty with the German emperor, by which it was ftipulated that in case of attack from an enemy, either party should affift the other with a force of 30,000 men, and thould each guarantee the possessions of the other. In her reign the boundaries of the empire were extended by the submittion of a Georgian prince, and the volentary homage of the Kubinskian Tartars. She died on the 17th of May 1727, having reigned about two wears. She had fettled the crown on Peter the fon of the terrovitch Alexei, who succeeded by the title of

\$n. 1727. Reisa Reisa

Peter was only 12 years of age when he fucceeded to the imperial throne, and his reign was fhort and uninof Peter II. terefting. He was guided chiefly by Prince Menzikoff, whole daughter Catha ine had decreed him to marry. This ambitious man who, from the mean condition of a pve-boy, had rifen to the first offices of the state, and had, during the late reign, principally conducted the administration of the government, was now, however, drawing towards the end of his career. The number of his enemies had greatly increased, and their attempts to work his downfall now fuccecded. A young nobleman of the family of the Dolgorukis, who was one of Peter's chief companions, was excited by his relations, and the other enemies of Menzikoff, to inftil into the mind of the young prince, fentiments hostile to that miniler. In this commission he succeeded so well, that Monzikost and his whole family, not excepting the young emprels, were banished to Siberia, and the Dolgorukis took into their hands the management of affairs. These artful counfellors, instead of cultivating the naturally good abilities of Peter, encouraged him to want his time and exhaust his strength in hunting, and other athletic excicifes, for which his tender years were by no means calculated. It is supposed that the cability confequent on fuch fatigue increased the natural danger of the smallpox, with which he was attacked in January 1970, and from which he never recovered.

An. 1730. Anne duchels of Courland

Notwithstanding the ablolute power with which Peter I. and the emprefs Catharine had fettled by will the fuccession to the throne, the Russian senate and nobility, upon the death of Peter II. ventured to fet afide the orfucceeds to der of fuccession which those sovereigns had establishthe impeded. The male iffue of Peter was now extinct; and the rial throne. duke of Holitein, fon to Peter's eldest daughter, was by the destination of the late empress entitled to the crown; but the Ruffians, for political reasons, filled the throne with Anne duchels of Courland, fecond daughter to Ivan, Peter's eldest brother; though her eldest fister the duchefs of Mecklenburg was alive. Her reign was extremely prosperous; and though she accepted the crown under limitations that fome thought derogatory to her dignity, yet the broke them all, afforted the prerogative of her ancestors, and punished the aspiring Dolgoruki family, who had imposed upon her limitations, with a view, as it is faid, that they themselves might govern. She raifed her favourite Biren to the duchy of Courland; and was obliged to give way to many severe executions on his account. Few transactions of any importance tack place during the reign of Anne, She followed the example of her great predecessor Peter, by interfering in the affairs of Poland, where the had fufficient interest to establish on the throne Augustus III. This interfe ence had nearly involved her in a war with France, and the had alicely feet a confiderable army to

the banks of the Rhine, for the purpole of acting to Bottle. gainst that power, when the conclusion of a treaty of peace rendered them unnecessary. She entered into a treaty with the flah of Perfia, by which the agreed to give up all title to the territories that had been feized by Peter I. on the thores of the Caspian, in confideration of certain privileges to be granted to the Ruffian merchants.

In 1735, a rupture took place between Ruffla and Turkey, occasioned partly by the mutual jealousies that had subfilled between these powers, ever fince the treaty on the Pruth, and partly by the depredations of the Tartars of the Crimea, then under the dominion of the Porte. A Ruffian army entered the Crimea, ravaged part of the country, and killed a confiderable number of Tartars; but having ventured too far, without a fufficient fupply of provinons, was obliged to retreat, after full-iming a lots of nearly 10,000 men. This i'll fuccels did not discourage the court of St Petersburgh ; and in the following year another armament was fent into the Ukraine, under the command of Marshal Munich, while another army under Lafey proceeded against Azof. Both these generals met with considerable success; the Tartars were defeated, and the fort of Azof once more fubmitted to the Rushian arms. A third campaign took place in 1737, and the Ruftians were now affilted by a body of Auttrian troops. Munich laid fiege to Otchahof which foon furrendered, while Lafey defolated the

No material advantages were, however, gained on either fide; and disputes arose between the Austrian and Ruffien generals. At length in 1739, Marshal Munich having croffed the Bog at the head of a confiderable army, defeated the Turks in a pitched battle near Stavutilian, made himfelf mafter of Yaffy, the capital of Moldavia, and before the end of the campaign reduced the whole of that province under his subjection. These faccesses of the Russian arms induced the Porte to propose terms of accommodation; and in the latter end of 1730. a treaty was concluded, by which Ruffia again gave up Azo and Moldavia, and to compensate the loss of above 100,000 men, and vast fums of money, gained nothing but permillion to build a fortress on the Don.

Upon the death of Anne, which took place in 1740, An 1740. Ivan, the fon of her niece the princels of Mecklenburg was, by her will, entitled to the fuccession; but Accession being no more than two years old, Biron was appointed and imprito be administrator of the empire during his minority townent. This nomination was disagreeable to the princess of Mecklenburg and her husband, and unpopular among the Russians. Count Munich was employed by the princess of Mecklenburg to arrest Biren, who was .

Siberia.

The administration of the princess Anne of Mecklenburg and her hufband was upon many accounts difagreeable, not only to the Ruffians, but to other powers of Europe; and notwithstanding a prosperous war they carried on with the Swedes, the princefs Elizabeth, daughter by Catharine to Peter the Great, formed fuch a party that in one night's time the was declared and proclaimed empress of the Rushias; and the princess of Mecklenberg, her hufband, and fon, were made pri-foners. The fate of this unhappy family was peculiarly fevere. All bot from were fent into banishment, to an ifland

tried, and condemned to die, but was fent into exile to

Suffict ifland at the mouth of the Dvina, in the White fea, where the princess Anne died in child-hed in 1747. Ivan's father furvived till 1775, and at last ended his miferable career in prison. The young emperor Ivan was for some time that up in a monastry at Oranienburg, when, en at'empting to escape, he was removed to the calle of Schlasfelburg, where he was, as will hereafter be related, craelly put to death.

An. 1741.

The chief inflrument in roufing the ambition of Eli-Accession of zabeth, and procuring her elevation to the throne, was her phylician and favourite Lestoc, who, partly by his Lhzabeth. infinuating address, and partly by the affiftance of the French ambaffador, brought ever to Elizabeth's interest most of the royal guards. By their affillance she made herself mistress of the imperial palace, and of the perfens of the young emperor and his family, and in a few hours was established without opposition on the throne of her father.

During the fhort regency of Anne of Mecklenburg, a new war had commenced between Ruilia and Sweden; and this war was carried on with confiderable acrimony and fome faccets, by Elizabeth. The Ruffian forcestook potsession of Abo, and made themselves mailers of nearly all Finland. But at length in 1743, in confequence of the negociations that were carrying on relative to the fuccession of the Swedish crown, a peace was concluded between the two powers, on the condition that Elizabeth should reflore the greater part of

Soon after her accession, Elizabeth determined to An. 1742. nominate her facceffor to the imperial threne, and had Peter duke fixed her eyes on Charles Peter Ulric, fon of the duke of Holftein of Holstein Gottorn, by Anne, daughter of Peter the made grand Great. This prince was accordingly invited into Ruffia, perfuaded to become a member of the Greek church, and proclaimed grand duke of Ruffin, and heir of the empire. The ceremony of his baptifm was performed on the 18th November, 1742, and he received the name of Peter Feodorovitch. He was at this time only fourteen years of age; but before he had attained his fixperson of Siphia Augusta Frederica, daughter of Chriled to this marriage, and the unhappy on fuquences that refulted from it during the life of Elizabeth, as they

& See Ca. merine II. Eliz beth engages in

years war

duke of

Ruffia.

his daught r, Maria Therefy queen of Hungary, at the mercy of the enterprising king of Proflia, till a formidable party, more from jealous of that monarch's military f me than regard to the intreffs of an injured princess, was formed in her behalf. To this confederacy the empress of Ruffin accorded, and in 1747 fent a confiderable body of troops into Germany, to the afand bloody contest have been fully detailed under the article Prussta, from No 18 to 64, and they comprise the greater part of those transactions in the reign of Elizabeth that do not particularly regard the internal policy of the empire. The more private transactions of the court of St Peterfburg, as far as they are connected with the intrigues of her niece Catharine and the follies of the grand duke Peter, have also been related in our Rusia. life of CATHERINE II. Elizabeth died on the 5th January 1762, the victim of difease brought on by intemperance. With her character as a private woman we have little bufinels here. Her merits as a fovereign vill appear from the following femmary drawn by Mir

Elizabeth, as empres, governed but little of herfelf; Character it being properly her ministers and favourites who dic- of Elizatated her regulations and occrees. Of this number, be-bethfices Beforef, was also Bazumossky, to whom, it been faid, the empreis was even privately married. At the beginning of her reign, it is true, the went a few times to the fitting of the fenate; but the matters transacted there were by much too ferious for her mind; and, accordingly, the very foon left off that practice altogether, contenting hertelf by confirming with her fignature the resolutions of that affembly, and the determinations of her minister, or the conference, which sup-

plied the place of the council.

Her character in general was mild, as was evident from the tears it coil her whenever the received accounts from Pruffia even of victories gained by her own army, on account of the human blood by which they must necessarily have been purchased. Yet even this delicate fensibility did not refrain her from profecuting the war into which flie had entered from a species of revenge, and for the purpole of humbling the king of Pruffia, and even on her death-bed from exhorting the perfons who furrounded her to the most vigorous continuation of it. It also proceeded from this fensibility, that immediately on her accession to the government flie made the vow never to put her fignature to a fentence of death. A resolution which the faithfully kent : though it cannot be averred to have been for the benefit of the empire; fince in confequence of it the number of malefactors who deferved to die was every day increasing, infomuch that even the clergy requeited the empress to retract her vow, at the same time urging proofs that they could release her from it. All the arguments they could me, however, were of no avail to mave the confciencious monarch; the would not give effect to any fentence of death, although the commanders in the army particularly would have been glad that her confeience had yielded a little on that point. They declared that the foldiers were not to be reftrained from their excesses by the severeil corporal punishments they could employ; whereas fuch was their dread of a folemn execution, that a few examples of that nature would

Commerce and literature, ar's, manufactures, handi-Her imcrafts, and the other means of livelinood, which had provements been follered by the former fovereigns, continued their in the emcourfe under Elizabeth with increating profperity. The country products were obtained and wrought up in greater quantities, and fereral branches of profit were more zealoufly carried on. The fum appointed for the Support of the academy of sciences sounded by Peter L. at St Fe.eisburgh, was confiderably augmented by Elizabeth; and the moreover established in 17;3 the academy still substilling for the arts of painting and sculpture, in which a number of young persons are brought up as painters, engravers, statuaries, architects, &c. At Mosco she endowed a university and two gymnasia.

The empress Elizabeth herfelf having a good voice,

Ruffir. music, which Anne had already much encouraged, found under ber administration a perpetual accession of difciples and admirers; so that even numbers of persons of diffinction at St Petersburgh became excellent performers. The art of acting plays was now also more general among the Ruffians. Formerly none but French or Italian pieces were performed on the stage of St Petersburgh, whereas now Sumarokof obtained celebrity as a dramatic poet in his native language, and in 1756 Elizabeth laid the foundation of a Russian theatre in her residence. Architecture likewise found a great admirer and patroness in her. St Petersburgh and its vicinity being indebted to her for great embellishments, and numerous flructures.

> The magnificence which had prevailed under Anne at the court of St Petersburgh was not diminished during ther reign, and the court establishment therefore amounted to extraordinary fums. Elizabeth, indeed, in this respect did not imitate her great father; and accordingly in the seven years war the want of a well-stored treafury was already very fenfibly felt.

> The population of the empire was confiderably increafed under her reign; and fo early as 1752, according to the statement in an account published by an offi-

cial person, it was augmented by one-fifth.

Elizabeth continued the practice of her predecessors in encouraging foreigners to come to fettle in her empire. Emigrant Servians cultivated a confiderable tract of land, till then almost entirely uninhabited, on the borders of Turkey, where they built the town of Eli-zabethgorod, and multiplied fo fast, that in the year 1764 a particular district was formed of these improvements, under the name of New Servia. Only the Jews Elizabeth was no less resolute not to tolerate than her father had been; infomuch that, fo early in her reign as 1743, they were ordered to quit the country on pain of death.

The army was augmented under Elizabeth, but certainly not improved. There were now no longer at the head of it fuch men as the foreigners Munich, Keith, or Loevendal, who, befides their perfonal courage and intrepidity, poffeffed the foundest principles of the art of war; and, what is of no less consequence in a commander, kept up a firict discipline, and took care that the laws of fubordination were punctually observed. The excessive licence which the regiments of guards, particularly the life company of the Preobajerskoy guards, prefumed to exercise, under the very eyes of the empress in St Petersburg, afforded no good example to the rest of the army; and Elizabeth, in appointing those soldiers of that life company, who had been most guilty of flagrant disorders, and the basest conduct, to be officers in the marching regiments, gives us no very high idea of what was required in an officer, but rather serves easily to explain whence it arose that such frequent complaints were made of insubordination, A great number of excellent regulations that had been introduced into the army, and always enforced by foreigners, especially by Munich, were fuffered by the Ruffian generals to fall into total difuse. The bad effects of this negligence were very foon perceived; and it was undoubtedly a circumstance highly favourable to the Russian troops, that for feveral years fuccessively, in the war which we have had occasion so often to mention, they had to engage with fuch a master in the military art as

the king of Pruffia, and by their conflicts with him, as Pot well as by their connection with the Austrians, and in the fequel with the Prussian foldiery, they had an opportunity of learning fo many things, and of forming themselves into regular combatants.

Elizabeth tarnithed her reign, however, by the infti- She eftatution of a political court of inquifition, under the name bliffies a of a fecret state chancery, empowered to examine into political inand punish all fuch charges as related to the expression. of any kind of displeasure against the measures of government. This, as is usual in such cases, opened a door to the vilest practices. The lowest and most pro-fligate of mankind were now employed as spies and informers, and were rewarded for their denunciations and \*3ee calumnies against the most virtuous characters, if these Tooke's happened by a look, a firing of the shoulders, or a few Hift. Ruffid, harmless words, to fignify their disapprobation of the vol. ii. proceedings of the fovereign \*

The grand duke ascended the throne by the name of An. 1762. Peter III. This prince's conduct has been variously represented. He entered on the government possessed of Accession of an enthusiastic admiration of the virtues of the king of Peter III. Pruffia, with whom he immediately made peace, and whose principles and practice he seems to have adopted as patterns for his imitation. He might have furmounted the effects even of those peculiarities, unpopular as they then were in Russia; but it is said that he aimed at reformations in his dominions, which even Peter the Great durst not attempt; and that he even ventured to cut off the beards of his clergy. He was certainly a weak man, who had no opinions of his own, but childishly adopted the sentiments of any person who took the trouble to teach him. His chief amusement was buffoonery; and he would fit for hours looking with pleasure at a merry-Andrew singing drunken and vulpreature at a merry-Andrew inging drunken and vul-gar fongs. He was a firanger to the country, its inha-bitants, and their manners; and fuffered himfelf to be perfuaded by those about him, that the Russians were fools and beafts unworthy of his attention, except to make them, by means of the Prussian discipline, good fighting machines. These sentiments regulated his whole conduct, and prepared the way for that revolution which improprieties of a different kind tended to haften,

Becoming attached to one of the Vorontzoff ladies, His imprufifter to the princess Dashkoff, he disgusted his wife, who dences. was then a lovely woman in the prime of life, of great natural talents and great acquired accomplishments; whilft the lady whom he preferred to her was but one degree above an idiot. The princess Dashhoff, who was married to a man whose genius was not superior to that of the emperor, being dame d'honneur and lady of the bed-chamber, had of course much of the empress's company. Similarity of fituations knit these iwo illustrious personages in the closest friendship. The princess being a zealous admirer of the French aconomifles, could make her conversation both amusing and instructive. She retailed all her statistical knowledge; and finding the empress a willing hearer, she spoke of her in every company as a prodigy of knowledge, judgement, and philanthropy. Whilft the emperor, by his buffoonery and attachment to foreign manners, was daily incurring more and more the odium of his subjects, the popularity of his wife was rapidly increasing; and some persons about the court expressed their regret, that so much knowledge of government, fuch love of humanity, and

fuch ardent withes for the prosperity of Russia, should only furnish conversations with Catharina Romanovna (the princess Dashkoff). The empress and her favourite did not let these expressions pass unobserved, they continued their studies in concert; and whilst the former was employed on her famous code of laws, for a great empire, the latter always reported progress, till the mid-dling circles of Mosco and St Petersburgh began to freesk familiarily of the bleflings which they might enjoy if these speculations could be realized.

Meanwhile Peter III. was giving fresh cause of dif-

content. He had recalled from Siberia Count Munich. who was indeed a fensible, brave, and worthy man; but as he was finarting under the effects of Ruffian despotifm, and had grounds of refentment against most of the great families, he did not much discourage the emperor's unpopular conduct, but only tried to moderate it and give it a fystem. Peter, however, was impatient. He publicly ridiculed the exercise and evolutions of the Ruffron troops; and hashily adopting the Prussian discipline, without digefling and fitting it for the conflitution of bis own forces, he completely ruined himself by difgust-

ing the army

Roufed to

temporary

of Gudo-

Witch.

In the midst of these imprudences, however, Peter was fometimes diffurbed by the advice of virtuous counreformation fellors. Among these Gudovitch, the vice-chamberlain, by a speech is said to have reproached him in the following spirited address:

" Peter Feodorovitch, I now plainly perceive that you prefer to us the enemies of your fame. You are irrecoverably fubfervient to them; you acknowledge them to have had good reason for saying that you were more addicted to low and degrading pleasures, than fit to govern an empire. Is it thus that you emulate your vigilant and laborious grandfire, that Peter the Great whom you have fo often fworn to take for your model? Is it thus that you persevere in the wife and noble conduct, by which, at your accession to the throne, you merited the love and the admiration of your people? But that love, that admiration, is already forgotten. They are succeeded by discontent and murmurs. Petersburgh is anxiously enquiring whether the tzar has ceased to live within her walls? The whole empire begins to fear that it has cherithed only vain speculations of receiving laws that shall revive its vigour and increase its glory. The malevolent alone are triumphant; and foon will the intrigues, the cabals, which the first moments of your reign had reduced to filence, again raife their heads with redoubled infolence. Shake off then this difgraceful lethargy, my tzar! haften to shew and to prove, by fome resplendent act of virtue, that you are worthy of realizing those hopes that have been formed and cherished of you."

136 These remonstrances, however, produced only a tem-Gatharine forms a par-porary gleam of reformation, and Peter soon relapsed ty in her fa- into his accustomed sensuality. What he lost in popularity was foon gained by the emissaries of Catharine. Four regiments of guards, amounting to 8000 men, were instantly brought over by the three brothers Orloff, who had contrived to ingratiate themselves with their officers. The people at large were in a flate of indifference, out of which they were rouled by the following means. A little manuscript was handed about, containing principles of legislation for Russia, founded

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classes of people which had infensibly been formed, and Russis. became to familiar as to appear natural. In that performance was proposed a convention of deputies from all the classes, and from every part of the empire, to converse, Lut without authority, on the subjects of which it treated, and to inform the fenate of the refult of their deliberations. It palied for the work of her majelly, and was much admired.

While Catharine was thus high in the public edeem? and affection, the emperor took the alarm at her poned larity, and in a few days came to the refolution of confining her for life, and then of marrying his favourite. The fervants of that favourite betrayed her to her fifter, who imparted the intelligence to the empress. Catharine faw her danger, and instantly formed her resolution. She must either tamely submit to perpetual imprisonment, and perhaps a cruel and ignominious death, or contrive to hurl her hufband from his throne. No other alternative was left her, and the confequence was what was undoubtedly expected. The proper steps were taken; folly fell before abilities and address, and in three days the revolution was accomplished.

When the emperor faw that all was loft, he attempted Peter deto enter Cronstadt from Oranienbaum, a town on the throned.; gulf of Finland, 30 verits, or nearly 26 miles, from St Petersburgh. The sentinels at the harbour presented their muskets at the barge; and though they were not loaded, and the men had no cartridges, he drew back. The English failors called from thip to thip for fome person to head them, declaring that they would take him in and defend him; but he precipitately withdrew. Munich received him again, and exhorted him to mount his horse, and head his guards, swearing to live and die with him. He faid, " No, I fee it cannot be done without fhedding much of the blood of my brave Holsteiners. I am not worthy of the facrifice." It is unnecessary for us to be more particular in detailing the progress of the revolution that placed Catharine on the throne of Russia, as the principal circumstances attending this event are given under the life of CATHERINE; but as the conclusion of the tragedy has been there omitted. we shall relate it from the most authentic sources which we have been able to procure.

Six days had already elapsed fince the revolution, and and put !! that great event had been apparently terminated without any violence that might leave odious impressions on the mind of the public. Peter had been removed from Peterhof to a pleasant retreat called Ropscha, about 30 miles from St Petersburgh; and here he supposed he should be detained but a short time previous to his being fent into Germany. He therefore fent a message to Catharine, defiring permission to have for his attendant a favourite negro, and that the would fend him a dog, of which he was very fond, together with his violin, a bible, and a few romances, telling her that, difguited with the wickedness of mankind, he was resolved henceforth to devote himself to a philosophical life. However reasonable these requests, not one of them was granted, and his plans of wildom were turned into ridi-

In the mean time the foldiers were amazed at what they had done; they could not conceive by what fascination they had been hurried fo far as to dethrone the grandfon of Peter the Great, in order to give his crown on natural rights, and on the claims of the different to a German women. The majority, without plan or

fentiment of what they were doing, had been mechanically led on by the movements of others; and each individual now reflecting on his baseness, after the pleasure of disposing of a crown had vanished, was filled only with remorfe. The lailors, who had never been engaged in the influrrection, openly reproached the guards in the tippling houles with having fold their emperor for beer. Pity, which justifies even the greatest criminals, pleaded irrefittibly in every heart. One night a band of foldiers attached to the empress took the alarm, from an idle fear, and exclaimed that their mother was in danger, and that she must be awaked, that they might fee her. During the next night there was a freil commotion more ferious than the former. So long as the life of the emperor left a pretext for inquietude, it was thought that no tranquillity was to be expected.

On the fixth day of the emperor's imprisonment at Ropfcha, Alexey Orlof, accompanied by an officer named Teploff, came to him with the news of his speedy deliverance, and asked permission to dine with him. According to the cuftom of that country, wine glaffes and brandy were brought previous to dimeer; and while the officer amused the tzar with some triffing discourse, his chief filled the glaffes, and poured a poilonous mixture into that which he intended for the prince. The tzar, without any diffruit, fivallowed the potion, on which he immediately experienced the most severe pains; and on his being offered a fecond glass, on pretence of its giving him relief, he refused it, with reproaches against him that offered it.

-He called aloud for milk, but the two monflers offered him poison again, and pressed him to take it. A French valet-de chambre, greatly attached to him, now ran in. Peter threw himfelf into his arms, faying, in a faint tone of voice, " It was not enough then to prevent me from reigning in Sweden, and to deprive me of the crown of Russia! I must also be put to death."

The valet-de-chambre prefumed to intercede for his mafter; but the two milcreants forced this dangerous witness out of the room, and continued their ill-treatment of the tzar. In the midst of this tumult the younger of the princes Baratinsky came in, and joined the two former. Orloff, who had already thrown down the emperor, was preffing upon his breaft with both his knees, and firmly griping his throat with his hand. The unhappy monarch, now flruggling with that flrength which arifes from despair, the two other affaffins threw a napkin round his neck, and put an end to his life by fuffocation.

It is not known with certainty what share the emprels had in this event; but it is affirmed that on the very day on which it happened, while the empress was beginning her dinner with much gaiety, an officer (fupposed to be one of the affasfins) precipitately entered the apartment with his hair dishevelled, his face covered with fweat and dust, his clothes torn, and his countenance agitated with horror and difmay. On entering, his eyes, sparkling and confused, met those of the emprefs. She arose in filence, and went into a closet, whither he followed her; a few moments afterwards the

fent for Count Panin (the former governor of Peter). Ruffe who was already appointed her minister, and the informed him that the emperor was dead, and conjulted him on the manner of announcing his death to the public. Parin advited her to let one night pais over, and to spread the news next day, as if they had received it during the night. This countel being approved, the emprels returned with the same countenance, and continucd her dinner with the fame gaiety. On the day following, when it was published that Peter had died of an hamorrhoidal colic, the appeared bathed in tears, and proclaimed her grief by an edict.

The corpfe was brought to St Petersburgh, there to be exposed. The face was black, and the neck exceriated. Notwithstanding these horrible marks, in order to affuage the commotions which began to excite apprebenfion, and to prevent impoltors from hereafter diflurbing the empire, he was left three days, exposed to all the people, with only the ornaments of a Holtlein officer. His foldiers, disbanded and disamed, margled with the crowd; and, as they beheld their lovereign, their countenances indicated a mixture of compaftion, contempt, and fhame. They were foon afterwards embarked for their country; but, as the fequel of their cruel define, almost all of these unfortunate men nerished in a florm. Some of them had laved themselves on the rocks adjacent to the coast; but they again fell a prey to the waves, while the commandant of Cronfladt dispatched a messenger to St Petersburgh to know whether he might be permitted to affiff them (N).

Thus fell the unhappy Peter III. in the 24th year of his age, after having enjoyed the imperial dignity only fix months. Whatever may have been his faults or follies, it must be allowed that he suffered dearly for them. Of the violent nature of his death there can fearcely be a doubt, though there appear to be grounds for believing that, however much Catharine must have wished for his removal, the did not take an active part in his

On her accession, Catharine behaved with great mag- Catharine nanimity and forbearance towards those who had oppo- it ascends fed her elevation, or were the declared friends of the de- the impericeafed emperor. She gave to Prince George, in ex-al throno, change for his title of duke of Courland conferred on him by Peter, the government of Holstein. She reinstated Biren in his dukedom of Courland; received into favour Marshal Munich, who had readily transferred his fidelity from the dead to the living, and even pardoned her rival, the Countels Vorontzoff, and permitted her to retain the tokens of her lover's munificence. She permitted Gudovitch, who, as we have feen, was high in the confidence of Peter, and had incurred her particular difficultie, to retire to his native country. Perhaps the most unexpected part of her conduct towards the friends of Peter, was her adhering to the treaty of peace which that monarch had concluded with the king of Pruffia fix months before. The death of his inveterate enemy Elizabeth had relieved Frederick from a load of folicitude, and had extricated him from his dangerous fituation. He new, as he thought, faw him-

work.

Ruffia. felf again involved in a war with the fame formidable power; but to his great joy he found that Catharine, from motives of policy, declined entering on a war at the commencement of her reign.

Affailina-

An. 1764. In one particular the empress showed her jealousy and her fears. She increased the vigilance with which tion of the the young prince Ivan was confined in the caftle of dethroned Schluffelburg, from which Peter III, had expressed a resolution to release him. Not long after her accession, this unfortunate prince was affaffinated; though whether this event was to be imputed to the empress or her counfellors, cannot be determined. The circumstances of the affaffination are thus related by Mr Tooke, from documents supplied by a manifesto published by the court of Petersburgh, and supposed to be written by the empress herself.

" A lieutenant, named Mirovitch, thinking himfelf neglected as an other, conceived a plan to revenge himfelf on the empress Catharine II. by delivering the captive Ivan from his dungeon, and replacing him on the throne: a plan which, befides the exraordinary difficulties with which it must be attended, seemed unlikely to succeed, as the manner of life to which that prince had all along been condemned, disqualified him forever for the station of a ruler. Yet Mirovitch, capable of any attempt, however inconfiderate, to which he was prompted by his vindictive spirit, found means to gain over a few accomplices to his rash design. The empress having gone on a journey into Livonia in 1764, and he happening to have a command at Schluffelburg, for firengthening the guard at that fortress, whereby he had frequent opportunities of making himfelf thoroughly acquainted with the place of Ivan's confinement, caused the foldiers of his command to be roused in the night, and read to them a pretended order from the empress commissioning him to fet the prince at liberty.

"The foldiers thus taken by furprife, were induced by threats, promiles, and intoxicating liquors, to believe what, however, on the flightest resection, must have ftruck them as the groffest absurdity. Headed by Mirovitch, they proceeded to the cell of Ivan. The commandant of the fortress, waked out of his sleep by the unexpected alarm, immediately on his appearing, received a blow with the butt end of a musket, which firuck him to the ground; and the two officers that had the guard of the prisoner were ordered to submit. Here it is to be observed, that the officers whose turn it was to have the custody of him, had uniformly, from the time of Elizabeth, fecret orders given them, that if any thing should be attempted in favour of the prince, rather to put him to death than fuffer him to be carried off. They now thought themselves in that dreadful predicament; and the prince who, when an infant of nine weeks, was taken from the calm repole of the cradle to be placed on an imperial throne, was likewife fast locked in the arms of fleep when that throne was taken from him only one year afterwards, and now also enjoying a short refpite from mifery by the fame kind boon of nature, when he was awakened-by the thrust of a sword; and, notwithstanding the brave resistance which he made, clofed his eyes for ever by the frequent repetition of the flioke. Such was the lamentable end of this unfortunate prince! of this Ruffian monarch! The event excited great animadversion throughout the residence; every unbiaffed person bewailed the youth so innocently put to death; and incessant crowds of pe ple flocked to Russia fee his body in the church of the fortress or a laneiburg. The government was at length obliged to fical the terr burg. The government was at length burged to the Miller it away by night for inhu nation in a monattery at a con- his or infiderable diffance from town. Mirovitch paid the forfeit of this enterpile with his head +."

Were we to offer a detailed account of the principal (he mintransactions that took place during the long reign of the metch Catharine, we should far exceed the limits within which are all this article must be confined, and should at the same find oring time repeat much of what has already been given under he regard other articles. As the events that diffinguithed the life of Cathaof Catharine, however, are too important to be wholly rine II. omitted, we shall present our readers with the following chronological sketch of them, referring for a more particular account to Mr Tooke's Life of Catherine II. and to the articles CATHERINE II. BRITAIN, FRANCE, POLAND, PRUSSIA, SWEDEN, and TURKEY, in this

The year 1766, presented at St Petersburgh the An. 1766. grandest spectacle that perhaps was ever seen in Europe. At an entertainment, which the empress chose to name a caroufal, the principal nobility appeared in the most fumptuous dreffes sparkling with diamonds, and mounted on horses richly caparisoned, in a magnificent theatre erected for that purpole. Here all that has been read of the ancient joufts and tournaments was realized and exceeded in the prefence of thousands of spectators, who feemed to vie with each other in the brilliancy of their appearance.

In 1768, the empress composed instructions for a new An 1768. code of laws for her dominions; and the same year she fubmitted to the danger of inoculation, in order that her Establishfubjects, to whom the practice was unknown, might be gode of benefited by her example; and the experiment, under laws. Baron Dimfdale, having happily fucceeded, it was com-

memorated by an annual thankfgiving.

In the same year a war broke out with the Ottoman Porte. The various events of this long and important War with conflict, which continued for feven years, must here be the Turks. only briefly enumerated, as they will hereafter be more particularly noticed under the article TURKEY. In this war, our countryman Greig, then an admiral in the Ruffian fervice, highly diffinguished himself by his conduct in a naval engagement with the Turks, in the harbour of Tichefme in the Archipelago, in which the Turkish fleet was entirely defeated, and their magazines defroyed. This took place on the 4th of November 1772.

In the beginning of the year 1769, the khan of the Kri- An. 1760. mea made an attack on the territory of Bachmut on the Progress river Bog, where he was several times bravely repulsed, and concluwith his army of Tartars and Turks, by Major-general Ro-fion of the manius and Prince Proforofskoi. At the fame time were war with fought the battles of Zekanofca and Soroca on the Dniepr, Turkey. when the large magazines of the enemy were burned. In February the Polish Kozaks in the voyvodeship of Braclau put themicives under the Ruffian sceptre. In the same month the Nisovian Saparogian Kozaks gained a battle in the deferts of Krim. In March the Polish rebels were fubdued, and their town taken by Major-general Ifmailof. April 2. the fort of Taganrock, on the fea of Azof, was taken. On the 15th the Ruffian army, under the general in chief Prince Galitzin, croffed the Duieftr. On the 10th a victory was gained by Prince Galitzin near Chotzim. On she 21st the Turks were defeated 3 C 2

An. 1779

into vice-

Ruffia. not fur from Chotzim by Lieutenant-general Count Soltikof. The 29th, an action was fought between the Ruffian Kalmucks and the Kuban Tartars, to the difadvantage of the latter. June 8th, the Turks were defeated at the mouth of the Dniepr near Otchakof, 19th, An action took place on the Dnieflr, when the troops of Prince Proforofskoi forced the Turks to repais the river in great diforder. Chotzim was taken September 19th. Yaffy, in Moldavia, was taken 27th September. Buchareft, in Vallachia, was taken, and the hospodar made prisoner, in November 1770. A victory was gained by the Ruffians under Generals Podhorilfhany and Potemkin, near Fokshany. The town of Shursha was taken by Lieutenant-general Von Stuffeln, Feb. 4. A Russian fleet appeared in the port of Maina in the Morea, Feb. 17. Mittra, the Lacedamon of the ancients, and feveral other towns of the Morea, were taken in February. Arcadim in Greece furren-dered, and a multitude of Turks were made prisoners, in the same month. The Turks and Tartars were driven from their entrenchments near the Pruth, by Count Romantzof, Prince Repnin, and General Baner, 11th-16th June. Prince Proforofskoi gained feveral advan-tages near Otchakof, June 18. The Ruffian fleet, under Count Alexey Orlof, gained a complete victory over the Turks near Ticheme, June 24th; the confequence of this victory was the destruction of the whole Turkith sleet, near Tschesme, where it was burned by Admiral Greig, June 26. A battle was fought on the Kagul, in which Count Romantzof defeated the Turkith army, confilling of 150,000 men, took their camp, and all the artillery, July 21. The fortress Bender was taken July 22. The town of Ismail was taken by Prince Repnin, July 26. Kilia by Prince Repnin, August 21. and Ackerman in October. Brailof was taken, November 10. 1771. The fortress of Shursha by General Olitz, on February 23.; the town of Kaffa by Prince Dolgoruckof, June 29.; the fort of Kertchi, July 2.; the fort of Yenicali, July 3.; and numberless other victories were obtained by fea and land, till the peace was concluded the 13th January 1775. By this the Krimea was declared independent of the Porte, all the vast tract of country between the Bog and Dniepr was ceded to Ruffia, befides the Kuban and the ifle of Taman, with free navigation in all the Turkish seas, including the passage of the Dardanelles, privileges granted to the most favoured nations, and stipulations in behalf of the inhabitants of Moldavia and Vallachia.

In 1779, the empress intending to divide the empire Division of into vicerovalties, began in January with the vicerovalty of Orlof. March 21. a new treaty was figned at Conthe empire stantinople between Russia and the Porte. May 13. the treaty of neace between the belligerent powers in Germany, and the French king, was figned under the mediation of her majefty. In June the established an hospital for invalids at Molco, to be confined to officers. In July, General Bauer received orders to cause a canal to be cut to supply Mosco with wholesome water. In October, a ship built at Taganrock, named the Prince Constantine, failed to Smyrna with Rushian commodities. December 3. the viceroyalty of Voronetsh was instituted; and the 27th, Count Romantzof Zadunaiki open- Ruffes ed the viceroyalty of Kurfk with great folemnity.

In 1780, February 28. appeared the memorable de- An 1780, claration of her imperial majety, relating to the fafety The emperof navigation and commerce of the neutral powers or of Ger-May o. the empress fet out on a journey to White Ruf-many visits fia from Zarfcoi Selo, vitited Narva, Plefcof, met the Ruffia. emperor of Germany under the title of Count Falkenftein at Mohilef, and they purfued the journey together to Smolensk. June 6. Count Falkenstein arrived at Mofco. The 17th, the empress returned to Zarscoi Selo, and the count Falkenstein arrived at St Petersburgh. July 8, the emperor returned to Vienna.

In 1781, March 1. the empress became mediatrix An 1781, between England and Holland. April 5. inflituted the Eftablifts first public school in St Petersburgh. August 27. the ment of pugrand dukes, Alexander and Constantine, were inocu-blic schools lated by Baron Dimidale. August 31. the first stone in St Peters. of a cathedral was laid at Cherson, dedicated to St Ca. burgh. therine. September 19. the grand duke, Paul Petrovitch, and his confort, Maria Feodorovna, departed from Zaricoi Selo, through Pleicof, Mohilef, and Kief, on a journey into foreign countries, under the title of

Count and Countels of the North.

In 1782, by command of her majesty, dated Ja- An. 1782, nuary 18. a Reman Catholic archbishop was inflalled in 148
the city of Mohilef, with authority over all the Catho-Statue of
Peter the lic churches and convents in the Ruffian empire. Au-Great 6. gust 7. the famous equestrian statue of Peter the Great, nished. being finished, was uncovered to the public in presence of the empress, on which occasion she published a proclamation containing pardons for feveral criminals, &c. (G). November 22. the order of St Vladimir was inflituted. The 27th, the empress published a new tariff. November 20. the grand duke and his duchess, having completed their travels through Germany, Italy, France, Holland, the Netherlands, &c. returned to St Petersburgh.

In 1783, May 7. the empress instituted a seminary An. 1783. for the education of young persons of quality at Kursk. Valous ac-June 21. a treaty of commerce concluded with the Otto-ceffion to man Porte. July, the institution of the other viceroyal- the Russian ties of the empire followed in fuccession. July 21, the empire. empress published a manifesto by her commander in chief Prince Potemkin, in the Krim, in regard to the taking possession of that peninsula, the Kuban, and the island of Taman. The 24th, a treaty was concluded with Heraclius II. tzar of Kartalinia and Kachetti, by which he submitted himself, his heirs and successors for ever, with his territories and dominions, to the sceptre of her majesty, her heirs and successors. The 20th, account was received from the camp of Prince Potemkin at Karas-Bafar, that the clergy, the beys, and other persons of distinction, with the towns of Karas-Basar, Bachtshiserai, Achmetchet, Kassa, Kosless, with the diftricts of Turkanskoikut and Neubasar, and that of Pcrekop, in the peninfula of the Krim, together with the hordes of Ediffank and Dshambolusk, the fultan Alim Girey, and his vaffals, with all the Budshaks and Bashkirs there, and all the tribes dwelling beyond the river Kuban, the fultan Boatur Girey and his vaffals, took the

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Ruka." the oath of allegiance to her imperial majefty, and with willing hearts submitted for ever to her glorious fivay. The 30th, the hospodar of Vallachia was deposed, and Draco Sutzo fet up in his place. September 22. her majesty raised Gabriel, archbithop of Novgorod and St Imperiala- Peteriburgh, to the dignity of metropolitan. October 21. in the great hall of the Academy of Sciences, the new inflitution of the Imperial Ruffian academy was opened, after a most solemn consecration by the metropolitan Gabriel, and others of the clergy, under the prefidency of the princefs Dafhkoff. November 7. the empress became mediatrix for accommodating the differences between the king of Pruffia and the city of Dantzic. The school for surgery was opened at St Petersburgh on the 18th. December 13, a school commission was instituted for superintending all the public schools. The 28th, an act was concluded with the Ottoman Porte, by which the possession and sovereignty of the Krim, the Kuban, &c. were folemuly made over to the

empress.

1784. January 1. the fenate most humbly thanked An. 1754. her majesty for the benefactions which she had gracioully bestowed on the whole empire in the preceding year, in a fpeech by Field-marshal Count Razomofskoi. The 18th, the Roman Catholic archbishop of Mohilef, Stanislaus Tsheirentshevitch of Bogush, constituted by her majesty, was, with a variety of church ceremonies, folemnly invested, in the Roman Catholic church at St Petersburgh, with the pallium from his holiness the pope, by the papal ambaffador Count Archetti, archbishop of Chalcedon. October 14. the Lesgiers, having croffed the river Alasan, and invaded the dominions Georgia an. of Georgia, were repulfed with great lofs by a detachment of Ruffian troops. December 29. Katolikos Maknexed to the Ruffian firm, the ferdar and court-marshal Prince Zeretelli, and

the chief justice Kuinichese, ambassador from David, tzar of Imeretia, were admitted to a public audience of her majesty, at which they submitted, in the name of the tzar, him, and his fubjects, to the will and powerful protection of her imperial majesty, as the rightful head of all the fons of the orthodox eastern church, and fovereign ruler and defender of the Georgian na-

An. 1785. 1785. January 1. the fenate, in the name of the 152

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blifhed.

empire, humbly thanked her majesty for the benefits Several pro- fhe had bestowed upon it during the preceding year. schools efta. The 8th and 15th, the empress in person, held a public examination of the young ladies educated in the Devitza Monastery. The 12th, Mauro Cordato, hospodar of Vallachia, was deposed; and Alexander Mauro Cordato, his uncle, restored to that dignity. The 21st, the empress visited the principal national school, and passed a long time in examining the classes, and the proficiency of the youth in that feminary; on which occasion a marble tablet was fixed in the wall of the fourth class, with this infeription, in gold letters: THOU VISITEST THE VINEYARD WHICH THY OWN HAND HATH PLANT-ED, Jan. 21. 1785. April 21. the privileges of the nobility were confirmed; and, on the fame day, the burghers of towns conflituted into bodies corporate, by a particular manifesto. The public school in Voronetsk was opened. The 24th of May, her majefty went to inspect the famous fluices at Vishney Volotshok, and other water communications, and from thence proceeded to Mosco. June 19. her majesty returned to St Pe-

terfourch. July 3. the visited the hardware namufacto- Ruffia ries at Sifterbeck, in Finlanc. 14th, A manifesto was iffued, granting full liberty of religion and commerce, to all foreigners fettling in the regions of Mount Caucafus, under the Ruffian government. September 15. the public school at Nissney Novgorod was opened. October 12. the Jesuits in White Russia, in a general affembly, elected a vicar-general of their order. November 1. a treaty of commerce was concluded with the emperor of Germany. The 24th, the Ruffian conful, in Alexandria, made his public entry on horfeback (an honour never before granted to any power); erected the imperial standard on his house, with discharge of cannon, &c. December 28, a Ruffian mercantile frigate, fully freighted, arrived at Leghorn from Confian-

1786. January 1st, the fenate returned thanks for the An. 1786. benefits conferred on the empire. From the 11th to the 16th the new election of persons to the offices in the Petersburgh government, ending with masquerade and illuminations, took place. The 29th, the empress confirmed the plan of a navigation fehool. February 12th. by a decree, the ufual flavith fubfcriptions to petitions were to be discontinued; and, instead of them, only the words humble or faithful fubject; and, in certain cases, only The roads fubicof were ordained to be used. March 2d, the em-repair dat preis granted the university of Mosco 125,000 rubles, the expence and all the materials of the palace Kremlin for increa-ment. fing its buildings. The 25th, a decree was paffed for making and repairing the roads throughout the whole empire at the fole expence of the crown, and 4,000,000 of rubles were immediately allotted for the road between St Peterfburgh and Mosco. April 10th, a new war establishment for the army was figned: 23d, the hospodar of Vallachia was deposed, and Mayroveni sct up in his place. June 28th, the empress instituted a loan bank at St Petersburgh, to the fund whereof she al- Aloan bank lotted 22,000,000 to be advanced to the nobility, and established. 11,000,000 to the burghers of the town, on very advantageous terms. August 5th, there were published rules to be observed in the public schools. October 4th, a large Ruffian thip, with Ruffian productions from St Petersburgh, arrived at Cadiz. November 24th, the empress erected public schools at Tambof. December 14th, Prince Ypfilanti was appointed hofpodar of Moldavia in the room of the deposed Mauro Cordato. December 31ft, a treaty of commerce and navigation was concluded between Ruffia and France.

1787. January 7th, the empress departed from Zar- Ap. 1787. fkoi Selo on a journey to her fouthern dominions: 29th, 155 after having vilited the towns of Veleki-Luki, Smolenik, Catharine Sterodub, Novgorod Severikoi, Berefua, Tihernigof, through &cc. leaving testimonies of her elemency and bounty in part of the each, arrived at Kicf. February 6-7th, the depoted hof-empire. podar of Moldavia, Mauro Cordato, thinking his life not fafe in Yasii, found an opportunity privately to escape. March, public schools were endowed and opened at Roftof, Ugliish, Molaga, and Romanof, in the viceroyalty of Yaroflavl; also at Usting and Arasovitz in the vicerovalty of Vologda. April 21st, a manifesto was iffued for promoting peace and concord among the burghers of the empire. The 22d, her majefty purfued her journey from Kief to the Dniepr. The 25th, the concerted interview between her and the king of Poland, near the Polish town of Konief, took place. The

30th, the empress visited Krementshuk in the vicerovalty of Katarinoflauf. The treaty of commerce with England being expired, the British factory were informed that they must henceforward pay the duties on imports in filver money, like the other nations who had no commercial treaty. May 7th, the empress hearing that the emperor of Germany was at Cherton, proceeded thither, and met him there on the 12th. The 17th, the profecuted her journey to the Krim. June 2d, the emperor, after travelling with her majesty through the Krim, took leave of her at Boriflauff, in the viceroyalty of Katarinoslauf, on his way home. 23d, The empre's having returned from the Krim, through Krementikuk, Pultava, Karik, Orel, and Tula, arrived at the village of Kolomensk, seven verits from Mosco. June 28th. the 25th anniverfary of her reign, the displayed various marks of her bounty. The debtors to the crown were forgiven, prisoners released, imposts taken off, soldiers rewarded, &c. July 4th, returned over Tver, Tula, Valdai, Vilhnei Volotshok, and Novgorod, to Zarskoi-Selo, where she arrived the 11th. The 12th, the new built school at Riga, called Lyceum, was solemnly dedicated. August 5th, Bulgakoff, the Russian ambassa-Renewal of dor, at the Ottoman Porte, was imprisoned in the Seven hoft.lities Towers, contrary to the law of nations, which the emwith Torpress regarded as a public declaration of war. 21st, The Turkish fleet at Otchakof, attacked the Ruffian frigate Skorui, and the floop Bitingi, but was repulfed and put to flight by the bravery of the latter. Many fignal advantages were gained over the Turks; feveral public schools founded in various parts of the empire between

An. 1788. War with Sweilen.

key.

this and August following; during which time the war broke out with Sweden. 1788. August 12th, in the expedition beyond the Kuban, the Ruffian troops entirely routed a company of 4000 Arutayans and Alcafinians; 800 of the enemy were flain, and five villages destroyed. 15th, The furrender of the Turkith fortress of Dubitsha took place. 18th, The Turks made a violent fortic from Otchakof, but were repulled by the Russian yagers; and, after a battle of four hours, were driven back with the loss of 500 men. 23d, A fierce battle was fought between the Ruffian troops and Sacubanians, in which the latter loft 1000 men. The Ruffian fleet kept the Swedish blocked up in Sveaborg, ever fince the battle of July 6th. The Swedish army left the Ruffian territory in Finland. September 18th, the town and fortress of Chotzim furrendered to the Russians, with the garrison of 2000 men, 153 cannon, 14 mortars, and much ammunition. 19th-29th, A fmall Ruffian fquadron from the fleet at Sevastophol, cruifing along the coast of Anatolia, deslroyed many of the enemy's veffels, prevented the transporting of the Turkish troops, and returned with great booty. 20th, Uffenier Shamanachin, chief of the Biheduchovians, was, on his petition, admitted a fubject of Russia. 26th, A numerous hoft of Kubanians and Turks were beaten on the river Ubin, with the lofs of 1500 men. November 7th, Prince Potemkin, at the head of his Kozaks, took the island Beresan, with many prisoners and much ammunition. December 6th, the town and fortress of Otchakof were taken by Prince Potemkin Tavritsheskoi; 9510 of the enemy were killed, 4000 taken prisoners, 180 standards, 310 cannons and mortars. The whole of the inhabitants were taken prifoners, amounting to

25,000; the Ruffians loft 956 killed and 1824 wound- Raffig. ed. December 10th, General Kamenskoy gained confiderable advantages over the Turks near Gangur.

1780. April 16th, Colonel Rimskoy Koriakoff was An 1739. furrounded by the Turks, who were beaten, with great 158 flaughter, by Lieutenant-General Won Derfelden. 17th Numeror -28th, Some Ruthan cruifers from Sevattopol effect-over the ed a landing on Cape Karakarman, burnt fix molques, Turks and and carried off great booty. 20th, General Derfelden Swedes. drove the Turks from Galatth, gained a complete victory, killed 2000, took 1500 prisoners, with the ferafkier Ibrahim Pasha, and the whole camp. Several skirmishes took place between the Russians and Swedes in Finland, always to the advantage of the former. May 31st, another victory was gained over the Swedes. June 5th, Sulkof was taken from the Swedes, and fort St Michael on the 8th. July, 15th, Admiral Tchitchagoff engaged the Swedish fleet under the command of the duke of Sudermania; but no thip was loft on either fide. 21st, A battle was fought at Fokshany to the great lofs of the Turks, and Fokshany was taken. August 13th, the Russian galley fleet fought the Swedish under Count Ehrenschwerdt, the former took a frigate and five other ships, and 2000 prisoners. August 21st, another fea fight took place, and Prince Naffau Siegen made good his landing of the Ruffian troops in fight of the king of Sweden at the head of his army. September 7th, Prince Repnin attacked the ferafkier Haffan Pasha near the river Seltska, and took his whole camp. 11th, Count Suvaroff and prince of Saxe Cobourg engaged near the river Kymnik the grand Turkish army of nearly 100,000 men, and gained a complete victory; from which Count Suvaroff received the furname Kymnikikoi. 14th, The Ruffian troops under General Ribbas, took the Turkish citadel Chodshabey, in the fight of the whole of the enemy's fleet. 30th, The fortreis Palanka being taken, the town of Belgorod or Akermann furrendered to Prince Potemkin Tavritshefkoi. November 4th, the town and castle of Bender submitted at diferetion to the fame commander.

1790, April 24. General Numfen gained a victory An. 1700. over the Swedes near Memel. May 2. a fea fight took place off Reval, in which the Ruffians took the Peace with Prince Charles of 64 guns, from the Swedes; and in Sweden. this engagement those two gallant English officers, captains Trevennin and Denison were killed. 23d, the fleet under Vice admiral Crufe engaged the Swedish fleet near the island Siskar, in the gulf of Finland, without any advantage being gained on either fide, though they fought the whole day. 24th, an action was fought at Savataipala, when the Swedes were forced to fly. June 6. the Swedes were defeated by Major Buxhovden, on the ifland Uranfari. June 22. the whole Swedish fleet, commanded by the duke of Sudermania, was entirely defeated by Admiral Tchifhagoff and the prince of Nassau Siegen; on this occasion 5000 prisoners were taken, amongst whom were the centre admiral and 200 officers. 28. General Denifoff defeated the Swedes near Davidoff. July 9th, Admiral Ufhakoff obtained a victory over the Turkith fleet commanded by the capudan pasha, at the mouth of the straits of Yenikali. August 3. peace was concluded with Sweden, without the mediation of any other power. August 28, 29. an engagement tock place on the Euxine, not far from Chodshabey, between the Russian admiral Usha-

Riffia. Roff and the capudan patha, when the principal Turkith thip, of 80 guns, was burnt, one of 70 guns, and three taken, the admiral Said Bey being made prifoner, and another thip funk; the rest made off. September 30. a great victory was obtained over the Turks Ly General Germann, with much flaughter, and the locatisier Batal Bey, and the whole camp, were taken. October 18. Kilia furrendered to Major Bibbas. November 6, 7. the fortress Cultiba and the Turkith flotilla were taken. December 11, the important fortrels of limail, after a itorming for feven hours without intermiffion, furrendered to Count Savaroff, with the garrion of 42,000 men: 30,816 were flain on the fpot, 2000'died of their wounds, 9000 were taken prifoners, with 265 pieces of cannon, an incredible flore of ammunition, &c. The Ruffins loft only 1815 killed, and 2150 wounded.

An 1791. The Turks repeated.y

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An. 1762.

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1791, March 25-31. the campaign opened by the troops under Prince Potemkin, not far from Brailof, when the Turks were defeated in feveral battles, in which they lait upwards of 4000 men. June 5, the troops under General Golenitshef Kutusoff, near Tulttha, drove the Turks beyond the Danube, and at Babada entirely routed a body of 15,000 men, of whom I 500 were left dead upon the field. 22. The fortrels Anapuas was taken by florm, when the whole garrison, confifting of 25,000 men, were put to the fword, excepting 1000 who were taken prisoners. 28. The troops under Prince Repnin attacked the Turkish army, confilting of nearly 80,000 men, commanded by the grand vizir Yuffuf Pasha, eight pashas, two Tartar fultans, and two beys of Anatolia; and after a bloody battle of fix hours, entirely routed them: 5000 Turks were killed in their flight. June 28. Sudíkuk Kale was taken. July 31. Admiral Uthakoff beat the Turkith and obliged fleet on the coalts of Rumelia. Prince Repnin and Yusfuf Pasha figned the preliminaries of peace between the Russian empire and the Ottoman Porte, by which the Dpieftr was made the boundary of the two empires, with the cellion of the countries lying between the Bog and the Dniestr to Russia. August 15, 16, at Pilnitz near Drefden, a congress was held by the emperor of Germany, the king of Pruffia, the elector of Saxony, the count d'Artois, &c. &c. One of the most important events in this year was the death of Prince Potemkin at Yasiy in Moldavia on the 15th October.

1702. Early in this year Bulgakoff, the Ruffian minister at Warsaw, declared war against Poland; and the Fresh inva- Polish pacriots raised an army in which Thaddeus Kofciusko (or according to some Koschiefsky) soon bore

a confpicuous part.

In 1783, the diet of Poland had abrogated the conflitution which the empress of Russia had, in 1775, compelled that nation to adopt, and had formed an alliance with the king of Pruffia, by way of defence against the further encroachments of the Russian despot. Three years after, viz. on the 3d of May 1701, the new conflitution which was intended further to destroy the ambitious hopes of Catharine, was decreed at Warfaw. See Poland, No 125. Thefe were affronts which the Ruffian empress could not forgive, and in one of the conciliabula, in which the ministers of state, and the favourite for the time being, fat to regulate the affairs of the north of Europe, and to determine the fate of the furrounding nations, the annihilation of the Polish monarchy was refolved on.

The declaration of war above mentioned was de- Ruffia. nounced by Bulgakoff at an affembly of the diet. See POLAND, No 148. That body received the declaration with a majeflic calmness, and resolved to take meafures for the defence of the nation. The generous enthufialm of liberty foon spread throughout the repulslic, and even the king pretended to fhare in the general indignation. An army was halfily collected, and the command of it bestowed on Prince Joseph Poniatofsky, a general whose inexperience and frivolous pursuits were but ill adapted to fo important a charge.

In the mean time feveral Rutlian armies were preparing to overwhelm the fmall and difunited forces of the Poles. A body of 80,000 Rushans extended itself along the Bog; another of 10,000 was collected in the environs of Kief, and a third of 30,000 penetrated into Lithuania. While these armies were carrying murder and defolation through the Polish territories, Catharine was employing all her arts to induce the neighbouring powers to join in the partition of Poland, and in this the was but too fuccefsful. A treaty was accordingly concluded between the empress and the king of Prutha, by which either appropriated to itself a certain share of the remains of Poland. Stanislaus Augustus, the powerlets head of that republic, was prevailed on to make a public declaration, that there was a necessity for yielding to the superiority of the Russian arms.

1793. On the oth of April the Polish confederation An. 1793. of the partizans of Russia assembled at Grodno; and on this occasion the Russian general placed himself under the canopy of that throne which he was about to declare for ever vacant, and the Rushan minister Sievers. produced a manifesto, declaring the intention of his mistress to incorporate with her domains all the Polish

territory which her arms had conquered.

The Russian foldiers dispersed through the provinces, committed depredations and ravages of which history furnishes but few examples. Warfaw became especially the theatre of their excesses. Their general Igelistom, who governed in that city, connived at the diforders of the foldiers, and made the wretched inhabitants feel the whole weight of his arrogance and barbarity. The patriots of Poland had been obliged to difperle; their property was conficated, and their families reduced to fervitude. Goaded by fo many calamities, they once more took the resolution to free their country from the oppression of the Russians, or perish in the attempt. Some of them affembled, and fent an invitation to Kofciusko, to come and lead them on against the invaders of their freedom.

Kosciusko had retired to Leipsic with Kolontav, Zagonchek, and Ignatius Pottocky, all eminent for patriotilm and military ardour. These four Poles hestated not a moment in giving their approbation to the refolution adopted by their indignant countrymen; but they were fenfible that, in order to fucceed, they must begin by emancipating the peafants from the state of fervitude under which they then groaned. Kofciufko and Zagonchek repaired with all expedition to the frontiers of Poland, and the latter proceeded to Warfaw, where he held conferences with the chief of the confpirators, and particularly with feveral officers who declared their deteflation of the Ruffian yoke. All appeared ripe for a general infurrection, and the Ruffian commanders whose fuspicions had been excited by the appearance of Kof-

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Ruffia ciufko on the frontiers, obliged that leader and his confederates to postpone for a time the execution of their plan. To deceive the Ruffians, Kofciusko retired into Italy, and Zagonchek repaired to Drefden, whither Ignatius Potofki and Kolontay had gone before him. On a fudden, however, Zagonchek appeared again at Warfaw, but was impeached by the king to General Igelstrom, and, in a conference with the general, was ordered to quit the Polifi territory. He- muit now have abandoned his enterprise altogether, or immediately proceeded to open infurrection. He chose the latter. An. 1794. 1794. Kościusko was recalled from Italy, and ar-Attempts of ived at Cracow, where the Poles received him as their the patriots deliverer. Here he was joined by fome other officers. and took the command of his little army, confilling of about 3000 infantry, and 1200 cavalry. On the 24th of March was published the manifesto of the patriots, in which they declared the motives for their infurrection. and called on their countrymen to unite in the glorious attempt to free the republic from a foreign yoke. Kofciusko was soon joined by 300 peasants armed with scythes, and some other small reinforcements gradually

> took place, in which the patriots were successful. While the infurrection had thus aufoiciously commenced on the frontiers, the confederates of the capital were nearly crushed by the exertions of the Russian general. Hearing at Warfaw of the fuccess of Kościusko, Igelstrom caused all those whom he suspected to have any concern in the infurrection, to be arrested; but these measures served only to irritate the conspirators. On the 18th of April they openly avowed their confederacy with the patriots of the frontiers, and proceeded in great numbers to attack the Ruffian garrifon. Two thousand Russians were put to the sword, and the general being befieged in his house, proposed a capitulation; but profiting by the delay that had been granted him. he escaped to the Prussian camp, which lay at a little

came in. A body of 7000 Ruffians had collected to op-

pole the movements of this little army, and a battle

distance from Warfaw.

Wilna, the capital of Lithuania, followed the example of Warfaw, but the triumph of the infurgents was there less terrible, as Colonel Yasinsky, who headed the patriots, conducted himfelf with fo much skill, that he made all the Ruffians prisoners without bloodshed. The inhabitants of the cantons of Chelm and Lublin, also declared themselves in a state of insurrection, and three Polish regiments who were employed in the service of Rusha, espoused the cause of their country. Some of the principal partizans of Ruffia were arreited, and fentenced to be hanged.

Kościusko exerted himself to the utmost to augment his army. He procured recruits among the pealants, and to inspire them with the more emulation, he adopted their dress, ate with them, and distributed rewards among fuch as appeared most to merit encouragement. All his attempts to inspire the lower orders of the Poles with the ardour of patriotism were, however, unavailing. A mutual diffruit prevailed between the nobles and the peafants, and this was fomented by the arts of Stanislaus and the other partizans of Ruffia.

The emprels had fent into Poland two of her best generals, Suvaroff and Fersen For some time Kosciusko fucceeded in preventing the junttion of these generals, and feveral engagements took place between the Ruf- Ruf's. fians and patriots, in which the former were generally fuccessful. At length, on the 4th of October the fate of Poland was decided by a langumary conflict between Kościusko and Ferlen, at Miacies ovitch, a small town of Little Poland, about 60 miles from Warfaw. The talents, the valour, and desperation of Kosciusko, could not prevent the Poles from yielding to superior numbers. Almost the whole of his army was either cut in pieces, or compelled to furrender at descretion, and the hero himfelf, covered with wounds, fell fenfeless on the field of battle, and was made prisoner.

The small number that escaped fled to Warfaw, and Final difthat themselves up in the suburb of Praga. Hithermemberthey were purfued by Suvaroff, who immediately laid ment of Pofiege to the fuburb, and prepared to carry it by ftorm. On the 2d of November, the brutal Suvaroff gave the affault, and having made himfelf mafter of the place, put to the fword both the foldiers and the peaceable inhabitants, without diffinction of age or fex. It is computed that 20,000 persons fell victims to the savage serocity of the Russian general; and, covered with the blood of the flaughtered inhabitants, the barbarian entered Warfaw

Thus terminated the feeble reliftance of the Polifa patriots. The partition of the remaining provinces was foon effected, and Stanislaus Augustus, who had long enjoyed merely the shadow of royalty, and had degraded himfelf by becoming the instrument of Russian usurpation, retired to Grodno, there to pass the remainder of his days on a pension granted him by the empres.

1795. On the 18th of February, a treaty of defen- An 17,15. five alliance between the empress of Russia and his Britannic majefly was figned at St Petersburgh. The oftenfible object of this treaty was to maintain the general tranquillity of Europe, and more especially of the north; and by it Russia agreed to furnish Great Britain with 10,000 infantry and 2000 horle in case of invasion: while Great Britain was, under fimilar circumstances, to fend her imperial majesty a squadron confisting of two ships of 74 guns, fix of 60, and four of 50, with a complement of 4560 men. On the 18th March was figned the act by which the duchies of Courland and Semigallia, together with the circle of Pilten, all which had lately belonged to the duke of Courland, but had long retained only the shadow of independence, submitted themselves to the Russian dominion,

In this year there took place between the courts of Dispute St Petersburgh and Stockholm, a dispute which threat-with Swes ened to terminate in a war. Gustavus III. had been af-den. fasfinated by Ankerstroem at a masquerade, on the 15th March 1701, and the young king Gustavus Adolphus being still a minor, the duke of Sudermania, his uncle, had been appointed regent of the kingdom. The regent had determined to effect a marriage between his nephew and a prince s of the house of Mecklenburg; but Catharine publicly declared that the late king had betrothed his fon to one of her granddaughters. The mifunderslanding hence originating, was increased by the rude and indecorous behaviour of the baron Von Budberg, the Ruffian charge des affaires at Stockholm, and matters feemed tending to an open rupture; when in 1796, a French engigent named Christin effected a reconciliation, and General Budberg, the baren's uncle, was

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fent as amballador to Stockholm f. om the Ruffian court. In onfequence of this reconciliation, the young king, atte Ad by the regent, and a numero - train of Swedith courties, fet out on a vifit to St Petersburgh, where they arrived on the 24th of August, and an interview took place between the empress and her royal visitors, for the purpose of finally a justing the projected matrimo ial alliance. Gustavas Adolphus was much pleased with the appearance of the grand duchels Alexandra; but informed the emprels, that by the fundamental laws of Sweden he could not fign the marriage contract before the princess had abjured the Creek religion; and as neither the folicitations nor the flatteries of Catharine could prevail on the young monarch to depart from the received cuftom of his country, the negociation earled, and the next day Gustavus and his retinue quitted St

The last transaction of importance in the reign of Catharine was her invasion of the Persian territories, undertaken for the purpole of acquiring certain possessions on the flores of the Calpian. A Ruffian army entered Dagheilan, and made itself mafter of Derbent, but was afterwards defeated by the Perfians under Aga

The death of the empress took place, as we have elsewhere stated, on the 6th of November of this year; and the grand duke Paul Petrovitch afcended the throne un-

der the title of Paul I.

An. 1795

Reign of

Paul.

Paul Petrovitch had attained his 42d year before the death of his mother placed him on the imperial throne; but for many years before her death, he had lived in a flate of comparative obscurity and retirement, and had apparently been confidered by the empress as incapable of taking any active part in the administration of affairs. It is well known that Catharine never admitted him to any participation of power, and kept bim in a state of the most abject and mortifying separation from court, and in almost total ignorance of the affairs of the emtire. Although by his birth he was generalistimo of the armies, prefident of the admiralty, and graid admiral of the Baltic, he was never permitted to head even a regiment, and was interdicted from vifiting the fleet at Cronstadt. From these circumstances it is evident that the empress eitler had conceived some jealousy of her fon, or faw in him fome mental in becillity, that appeared to her to disqualify him for the arduous con-cerns of government. There is like doubt, from the circumstances which distinguished his fort reign, that Catharine had been chiefly influe ced in her treatme t of the grand duke, by the latter on the on. There were certainly times at which l'aul difflaved evident of a generous and tender disposition, and even of intellectual vigour.

It is generally believed that, a fhort tim to re lar death, Catharine committed to Plato Zuboff, her last fadefiring that Paul should be passed over in the farcoffion, and that on 'er death the g and dake Alexander should ascend the vacant throre. As foon as Zubeff was m de acquainted with the halder deals of the empress, he flow to P. wlovsk, . . . . . . 23 n . s from St Petersburgh, where Paul occurs ally resided, but meeting the grand duke on the ro !, be, after a fh rt

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explanation, delivered up the important decument. Runa Paul, channed with his zeal and lovalty, rewarded the and henours which had been haped on him by his mistress, while a general and rapid dispersion soon to k On the day following the death of his mother, Paul made his public entry into St Peterfburgh, amidft the acclamations of all ranks of people.

One of the first measures adopted by the new empe-Sin u a foror excited confiderable furprife, and divided the opi-neralo: Penions of the public with respect to the motives by which ter III. it had been suggested; some attributing it to his respect for the memory of his late father; others to a culpable reflection on that of his mother. He ordered the re mains of Peter III. to be removed from the fepulchre in which they had been deposited in the church of S. Alexander Nefski, and caufed them to lie in state for three weeks, while they were watched night and day by the only two remaining confoirators who had affifted at his affaffination. After this dreadful mark of his justice on the murderers of his father (furely more terrible to the guilty mind than death itfelf), he configned the aftes to the sepulchre of Catherine II. in the catherine dral of St Peter and St Paul, obliging the affaffins to walk in the ploceffion as chief mourners.

Few political events of any importance marked the reign of Paul previous to the year 1798, when, in configuence of a treaty between Plal and the emperor of Germany, a Russian army of 45,000 men under Fieldmarshal Suvaroff, joined the imperialists in the Austrian territorics in Italy. The progress of Suvaroff, his successes over Moreau, and his final recal by his master, have already been related in the article FRANCE, from

In 1799, Paul entered into a treaty of offentive and An 1799.

defensive alliance with his Britannic majesty. This Treaty of treaty was figned at St Petersburgh on the 22d of June, alliance behaving been preceded by a provisional treaty between tween Rufthe f me powers at the end of the year 1798. By the fia a: d Briprovisional treaty it had been slipulated that Paul should trin. affift the king of Pruffia, if the latter could be perfunded to join his arms to the allied powers against Tran e, with 45,000 men; and that the king of Great Britain it ould pay to Ruffia a fubfidy of 75,000l. fter-I g per mon h; a sin cafe the king of Pruffia should in confideration of the fame fublidy, should be employed as oc affon might require, to affift the common caufe. By the new treaty, the emperor of Ruffia, inflead of the c firs tillery, to be employed in an expedition again. H ... 1; .. d h. e ged to f mith ix thips, five faigales, and two trad orts, for t'e purp 'e of transp rtin to the is dirg army from Britain to the contice. In confi mion of thefe face rs, the court of Lordon organed to alvance to Rulli a fulfity of 44 chal Relling rand . h ; to pay the furn of 58 9791. 10 ft.ri for he ex ences of e juipping the fleet; and efter the period twee moths had elapted from fuch

ferling per the ling as the fleet should remain un-

An. 1801.

Studies that of Britain in Yarmouth roads, and took part in the unfortunate expedition to the coast of Holland, undertaken in the fummer of 1799. See BRITAIN, No 1069.

In the beginning of the year 1801, all Europe was Paul's chal, thrown into the greatest assonishment by the appearance senge to the of a paragraph in the Hamburgh gazette of the 16th of fovereigns January. The paragraph was dated from Peterfburgh of Europe! the 30th December, 1800, and is as follows.

"We learn from Petersburgh, that the emperor of Russia, finding that the powers of Europe cannot agree among themselves, and being desirous to put an end to a war which has defolated it for 11 years past, intends to point out a spot, to which he will invite all the other fovereigns to repair and fight in fingle combat; bringing with them as feconds and fquires, their most enlightened ministers, and their most able generals, such as Meffrs Thugot, Pitt, Bernflorff, &c. and that the emperor himself proposes being attended by generals count de Pahlen and Khutosof: We know not if this report be worthy of credit; however, the thing appears not defiitute of fome foundation, and bears flrong marks of what he has been often taxed with."

This paragraph was immediately copied or translated into all the public papers, and it was strongly affirmed by many, that it was the composition of Paul himself. This has fince been confirmed by the poet Kotzebue, who was employed by the emperor of Russia to translate the original into German, for the express purpose of its

being inferted in the Hamburgh gazette (H). This was not the only mark of mental derangement displayed by the unhappy monarch. His favours and his displeasure were alternately experienced by some of his most distinguished courtiers and adherents. Stanislaus, the deposed king of Poland, partock by turns of his beneficence and his feverity; and at length on the death of that monarch, Paul affifted at his funeral, commanded in person the guards that attended on the ceremony, and uncovering himfelf with the utmost emotion, faluted the coffin as it passed. To the memory of the hoary Suvaroff, who is faid to have fallen a brokenhearted victim to the diffraction of his imperial mafter, he raifed a coloffal statue of bronze; and on the days when he reviewed his troops in the fquare where the statue had been erected, he used to command them to march by in open order, and face the flatue. Notwithflanding the important fervice that had been rendered him by Zuboff, the emperor foon became difgusted with him; fpoke of him to his friends with great asperity; at length denounced him as a defaulter to the imperial treasury of half a million of rubles; and convinced of the justice of the allegation, proceeded to fequestrate the vaft effates which belonged to him and his two brothers.

Driven to desperation by such conduct, the second bro- Russia. ther of the favourite one day walked up boldly to the emperor upon the parade, and with manly cloquence represented the injustice of his measures. Paul received him without anger, heard him without interruption, and reflored the property; but foon after he ordered Plato Zuboff to refide on his effate. He formed an adulterous connexion with Madame Chevalier, a French actrefs. through whose influence Zuboff was again recalled to court, and reflored to favour.

It is not furprifing that these instances of folly and Configurary caprice should alarm and difgust many of the nobles, formed In particular, Count P-, the governor of St Peterf- against the burgh, a fon of the celebrated general P-P-, who to eminently diffinguished himself in the last Turkish war, Prince Y-, with fome other men of rank, entered into a confederacy with Zuboff, to prevent the final ruin of their country, by removing the prefent emperor. In their conferences, which were managed with great prudence and difcretion, it was refolved that Paul should die, and the day of the festival called Maflaintza, the eleventh of March O. S. flould be the day for executing the awful deed. At the time of this confederacy, the emperor and his family refided in the new palace of St Michael, an enormous quadrangular pile flanding at the bottom of the fummer gardens. As Paul was anxious to inhabit this palace as foon after he was crowned as possible, the masons, carpenters, and various artificers, toiled with incredible labour by day and by torch light, under the fultry fun of the fummer, and in all the feverity of a polar winter, and in three years this enormous and mag-nificent fabric was completed. The whole is mosted round, and when the firanger furveys its bastions of granite, and numerous draw bridges, he is naturally led to conclude, that it was intended for the last afylum of a prince at war with his fubjects. Those who have feen its maffy walls, and the capaciouiness and variety of its chambers, will eafily admit that an act of viclence might be committed in one room, and not be heard by those who occupy the adjoining one; and that a maffacre might be perpetrated at one end, and not known at the other. Paul took poffession of this palace as a place of firength, and beheld it with rapture, because his imperial mother had never even feen it. While his family were here, by every act of tenderness, endeavouring to foothe the terrible perturbation of his mind, there were not wanting those who exerted every stratagem to inflame and increase it. These people were conftantly infinuating that every band was armed against him. With this impression, which added fuel to his burning brain, he ordered a fecret flaircafe to be con-

Diher Other marks of the empe rangement.

> (H) This paragraph is fuch a curious morceau of witty infanity, that we shall here give the original French, as written by Paul himfelf, and published by Kotzebue, in his account of his exile into Siberia. "On apprend de Petersbourg, que l'Empereur de Russie, voyant que les pussances de l'Europe ne pouvoient s'accorder entr' elles, et v ulant mettre fin a une guerre qui la defoloit depuis onze ans, vouloit propofer un lieu ou il inviteroit tous les autres Souverains de se rendre et y combattre en champ clos, ayant avec cux pour écuyer juge de camp et heros des armes leurs ministres les plus éclairés et les generaux les plus habiles, tels, que M. M. Thugot, Pitt, Bernstorff; lui meme se proposant de prendre avec lui les generaux C. de Pahlen et Khutosof. On ne sçait si on doit y ajouter foix; toute fois la chose ne paroit pas destituée de fondement, en portant l'empreinte de ce dont il a souvent été taxé."

Ruffia flucted, which, leading from his own chamber, paffed under a falle flove in the anti-room, and led by a fmall

door to the terrace. It was the custom of the emperor to sleep in an apartment next to the empress's, upon a sopha, in his regimentals and boots, whilft the grand duke and duchels, and the rest of the imperial family, were lodged at various diffances, in apartments below the flory which he occupied. On the 10th March, 1801, the day preceding the fatal night, whether Paul's apprehension, or anonymous information, fuggested the idea, is not known, but conceiving that a fform was ready to buril upon him, he fent to Count P\_\_\_\_, the governor of the city, one of the noblemen who had reloved on his defiruction : I am informed, P- iaid the emperor, that there is a conspiracy on foot against me, do you think it necessary to take any precaution? The count, without betraving the least emotion, replied, Sire, do not fuffer fuch apprehensions to haunt your mind; if there were any combinations forming against your majerty's person, I am fure I should be acquainted with it. Then I am fatisfied, faid the emperor, and the governor withdrew. Before Paul retired to red, he, beyond his ufual cuttom, expressed the most tender folicitude for the empress and his children, kiffed them with all the warmth of farewell fondnels, and remained with them for a confiderable time. He afterwards vifited the centinels at their different posts, and then retired to his chamber. Soon after the emperor had retired, the guard that was always placed at his chamber d or was, command for the night, and who were engaged in the confuracy. One man only remained. This was a huffur whom the emperor had hondured with particular marks of attention, and who always flept at night in the antichamber, at his fovereign's bed-room door. This faithful foldier it was found impossible to remove. except by force, which at that time the confpirators did not think proper to employ. Silence now reigned throughout the palace, disturbed only by the pacing of the centinels, or by the distant murmurs of the Neva; and only a few straggling lights were to be seen, irregularly gleaming through the windows of the palace. In the dead of the night, Z ----, and his friends, amounting to eight or nine perfors, paffed the drawbridge, ascended the staircase that led to the emperor's apartments, and met with no opposition till they reached the antichamber, where the faithful huffar, awakened by the noife, challenged them, and prefented his fusee. Though they must have admired the brave sidelity of the guard, neither time nor circumstances would admit of an act of generofity, which might have endangered their whole plan of operations. Z- drew his faore, and cut the poor fellow down. In the mean time Paul, roufed by the unufual buftle, fprang from his couch. At this moment the whole party rushed into his chamber. The unhappy fovereign anticipating their defign, at first endeavoured to entrench himself behind the chairs and tables; but foon recovering fome flure of his natural courage, he affumed a high tone, told them they were his prisoners, and required them to surrender. Finding that they fixed their eves fleadily and fiercely upon him, and continued to advance, he implored them to spare his life, declared his willingness instantly to relinquish the sceptre, and to accept of any terms which they might dictate. He even offered to make them Pull princes, and to confer on them orders and estates. Regardlets alike of his threats and promifes, they now began to prefs on him, when he made a convultive effort to reach the window, but failed in the attempt; and, indeed, had he succeeded in his endeavour to escape that way, the height from the window to the ground was fo great, that the expedient would probably have only put a more speedy period to his existence. As the conspirators drew him back, he grasped a chair, with which Le knocked down one of the affiliants, and a desperate conflict now took place. So great was the noise, that notwirdslanding the masty walls, and double folding do is hat divided Paul's apartments from those of the emprets, the was differhed, and began to call for help, when a voice whifpered in her ear, commanding her to word, the fhould inflantly be put to death.

Paul was now making Lis last thuggle, when the and hid him proftrate on the flo r. Receiving from the blow, the unhapt y monarch again implored his life. At this moment the heart of one of the configurators rea young Hanoverian, who was one of the party, exclaimed, We have passed the Rubicon; if we spare his life, we shall, before the fetting of to-morrow's lun, become his victims; on faying which he took off his fath, turned it twice round the naked neck of the emperor, and giving one end to Z---, limfelf drew the other, till the

object of their attack expired ".

The affaffins retired from the palace without the least Northern molefiation, and returned to their respective homes. As fron as the dreadful cataffrophe was discovered, medical affiftance was called in, in the hope of refloring what might be only inspended animation; but these attempts proved fruitless. At seven o'clock on the morning of the 12th, the intelligence of the death of Paul, and the accession of the grand duke Alexander were announced to the capital. By eight o'clock the principal nobility had paid their homage to the new emperor, in the chapel of the winter palace; and the great officers of flate being affembled, Alexander was folemnly proclaimed emperor of all the Ruffias. The emperor prefented himfelf at the parade on horfeback, and was hailed by the troops with loud and cordial acclamations.

The emperor Alexander was in his 24th year when Accession The emperor Alexander was in his zani Jon blad of Alexan-he afcended the throne, and from his amiable differition of Alexanhad acquired the love and respect of all his subjects, vitch, The first measure which he adopted, his proclamation, and his first imperial orders, all tended to encourage and confirm the confidence with which the people beheld him afcend the throne of his forefathers. He folemnly promifed to tread in the steps of Catharine II.; he allowed every one to drefs according to their own fancy; exonerated the inhabitants of the capital from the trouble and duty of alighting from their carriages on the approach of the imperial family; difmiffed the court advocate, who was univerfally and juftly detelted; suppressed the secret inquisition that had become the scourge of the country; restored to the senate its former authority; fet at liberty the flate prifoners, and recalled from Siberia feveral of the exiles. He even extended his mercy to the affaffins of the late emperor. Zuboff was ordered not to approach the imperial refi-

Ruffia. dence, and the governor of the city was transferred to

It is not easy to explain the motives that induced Alexander to forego that vengeance which justice seemed to demand on the heads of his father's affaffins. It has been attributed by one of his panegyrifts to a forlorn and melancholy conviction that the murderers had been prompted to commit the bloody deed, folely by a regard for the falvation of the empire. This conviction might have induced the young monarch to diminish the weight of that punishment which piety and justice called on him to inflict, but can fearcely account for his total forbearance.

Amirable Britain.

The emperor Alexander, on his accession to the throne, appeared defirous to cultivate the friendthip of the neighbouring states, and especially that of Great Britain. His late father, among other projects, had procured himself to be elected grand matter of the knights of Malta, and had laid claim to the fovereignty of that island. This claim, which had nearly produced a rupture between the courts of London and St Peteriburgh, Alexander confented to abandon, though he expressed a will to be elected grand mafter of the order, by the free fuffrages of the knights. In the mean time a confederacy had been formed among the northern powers of Europe, with a view to oppose the British claim to the fovereignty of the feas; but by the spirited interference of the British court, especially with the cabinet of St Petersburgh, the good understanding between Britain and the northern states was re-established, and the embargo which had been laid on British veilels in the Ruf-

> On the 19th of June, Alexander caused to be pubtion to be on terms of amity with the French republic. " All the relations of policy, commerce, and corresponquence of, the revolution in that country, have not yet been re-established in their full extent; but as at the present moment negociations are going on to effect a reconciliation with that pover by every means confident with the dignity of the emperor and the interests of his eople, his majesty has been pleased to charge his miniiters to apprize his foreign ambaffadors and agents, that he is willing to renew the ufual course of connection with the government, and that the conferences respecting that object are in full activity. In the fituation in which this matter flands, therefore, it is no longer proper that the ambaffadors of his imperial majeffy should continue to observe any distance towards the ambassa-

dors of the French government."

Early in the fame month there was figned at St Peterfburgh, a treaty of amity, commerce, and navigation, between Ruffia and Sweden, to continue for 12 years, by v.l.ich Sweden was allowed to import into Ruffia, alum, falt herrings, and falt, on the payment of one-half of the duties then exacted, and into Russian Finland the produce of Swedish Finland, duty free; while the importation from Russia into Sweden, of hemp, linen, and tallow, was allowed at one-half of the exitting duties, and of linfeed at two-thirds. The most remarkable part of this treaty was the recognition, by the court of St Petersburgh, of the northern confeder cv, which the amicable adjustment with Britain appeared to have done away.

The commerce of Ruffin had now recovered its for. RAGE. mer fplendour. The experts from the city of Riga alone for the year ending in July 1801, amounted to Professor 6,770,638 rubles; and of these exports, England alone state of the imported to the value of 2,509,853 rubles. Ruffian

On the 25th of March 1802 was figned at Amiens commerce. the definitive treaty of peace between the belligerent An. 1802. powers of Europe, by one material article of which the Ruffia guaislands of Malia, Gozo and Comimo, were to be reftor-rantees the ed to the knights of St John of Jerusalem, under the sovereignty protection and guarantee of France, Great Britain, Au-of Maita to ftria, Spain, Ruffia, and Pruffia; and his Sicilian majefty the knights was invited to furnish 2000 men, natives of his states, to of Jerusaferve in garrifons at the different fortreffes of the faid lem. islands, for one year after their restitution to the knights, or until they should be replaced by a force deemed sufficient by the guaranteeing powers. Some time after the conclusion of this treaty, disputes arose among the contracting powers relative to the fovereignty of Malta, which the emperor of Russia insisted should be yielded to Naples, otherwife he would not undertake to guarantee the order, and would feparate from it the priories of Ruffia. The result of these disputes is well known, as they afforded a reason for renewing the bloody contest which has so long desolated the face of

Europe. During the fhort interval of peace that was enjoyed Prudent reby Europe, the emperor of Russia made several prudent gulations of regulations in the internal administration of his empire, the emperor On the 12th of September 1801, a manifesto had been Alexanders published, proclaiming the union of Georgia or Ruffian

Grufinia with the empire, and on the 1st April 1802, Alexander fent a deputation to establish the new government at Teffis, the capital of the province. This deputation was received by the natives with enthufiaftic joy, especially as they brought back the image of St Nina, which their prince Wachtang at his death had left at Molco. On the 28th May, the emperor wrote a letter to the chamberlain Wittofloff, prefident of the commission for ameliorating the condition of the poor of St Petersburgh, in which he recommended the commisfion to follow the example of a fimilar establishment at Hamburgh, in felecting proper objects for their charitable bequefts, preferring the humble and industrious pauper to the idle and flurdy beggar. He also offered confiderable premiums to perfons who should introduce any new or advantageous mode of agriculture, or who should bring to perfection any old invention, open any new branch of commerce, establish any new manufacture, or contrive any machine or process that might be useful in the arts.

Early in the year 1803, the emperor fitted out at his An. 18e3. own expence, two veffels for a voyage of discovery round the world, under the command of Captain Krucenstern. A v. yage These ships were provided with every necessary for ac-of different complishing the object of the voyage; and several men of eminence for science and literature, among whom was Churchman the American astronomer, volunteered their fervices on this occasion. The vessels failed in the latter end of 1803, and about a year after, intelligence was received from M. Krudenstern, who was then lying at Kamitik latka. They had touched at the Marquelas islands, where they had found a Frenchman and an Englishman, who had been left there feveral years be-

forc. The Englishman had completely forgetten his

Tieaty of den.

native language, and the Frenchman, who had for feven years ipoken nothing but the language of the natives, fearcely retained fufficient French to inform M. Krucenstern that he had made part of the crew of an American vessel which was wrecked on those coasts. The expedition was then preparing to fail for Japan, to carry thither M. de Rafannoff, who had been appointed amballador extraordinary from the court of Ruffia to that of Japan.

An. 1804. 180 Effabilithment of an univerfity in Lithu-

Dispute

with

In the beginning of 1804, the emperor established a university at Kharkof in Lithuania, for the cultivation and diffusion of the arts and sciences in that part of the Russian empire, and Mr Fletcher Campbell, a Scots gentleman, was employed to procure mafters for this new militation. Some time after, the emperor ordered that meteorological observations thould be regularly made at all the univerfities and public schools, and the results published. It appears that at the end of this year the fums allotted by the Ruslian government, for defraying the expences of these institutions amounted to 2,149,213 rubles, besides a gift of nearly 60,000 rubles towards erecting the new university.

Emancipa-About this time an imperial ukafe was published, tion of the granting to the Jews a complete emancipation from the shackles under which that devoted people had long Ruffia.

greaned, and allowing them the privileges of educating their children in any of the schools and universities of the empire, or establishing schools at their own expence.

For some time the genius of discord, which had again actuated the minds of the European fovereigns, failed to extend her baleful influence over the Ruffian empite; but it was scarcely possible that the emperor should long remain an impartial spectator of the renewed difputes between his more powerful neighbours. An important change had, in the latter end of 1802, taken place in the ministry of the empire; and Count Woronzoff, brother to the late ambaffador at London, had been appointed great chancellor in chief of the department of foreign affairs, with Prince Adam Tzartoriski for his affiltant. How far this change in the councils of the empire influenced the political measures of the court of St Petersburgh, it is not easy to determine; but in the latter end of 1803, Alexander appeared to view with a jealous eye the prefumption and violence exercifed by France among the German states, and the encroachments which the appeared defirous of making on the freedom of the Baltic. Alexander had offered his mediation between Great Britain and France, but without effect, and both thefe parties strove to bring over the Russian emperor to their alliance. France feems to have held out to the ambition of Alexander the bait of a partition of the Turkish territories, the dimemberment of which had long been a favourite object with his predecessors. At length, however, the court of London prevailed, and the Russian ambastador, by his master's orders, took leave of the First Conful of the French republic, though without demonstrating any intentions of immediate hostility. A new levy of Ruffian army, and to prevent any jealoufy on the fide of Turkey, affurances were given to the Sullime Porte of the amicable intentions of Ruffia towards that power.

On the 1sth April a treaty of concert was concluded between Great Britain and Russia, in which the two governments agreed to adopt the most esheacious means

for forming a general league of the states of Europe, Russia. to be directed against the power of France. The objects of this league were undoubtedly of great import. Ar. 1805. ance to the welfare of Europe; and it is deeply to be Treaty of regretted that the circumstances of the times did not ad-concert bemit of their being carried into execution. From the tween terms of the treaty, these objects appear to be,—First, Great Bri-The evacuation of the country of Hanover and the Ruffia. north of Germany. Secondly, The establishment of the independence of the republics of Holland and Switzerland. Thirdly, The re-eliablishment of the king of Sardinia in Piedmont, with as large an augmentation of territory as circumstances would allow. Fourthly, The future fecurity of the kingdom of Naples, and the complete evacuation of Italy, the island of Elba included, by the French forces. Fifthly, The establishment of an order of things in Europe, which might effectually guarantee the fecurity and independence of the different states, and present a folid barrier against future usurpa-

For the profecution of the great objects of this treaty, it was proposed by the first article that an army of 500,000 men should be levied; but in a subsequent separate article, the contracting parties, after observing that it was more defirable than eafy to affemble fo large a force, agreed that the treaty should be carried into execution as foon as it should be possible to oppose to France an active force of 400,000 men. It was understood and stipulated that these troops should be provided by the powers of the continent who should become parties to the league, and subsidies should be granted by Great Britain in the proportion of 1,250,000l. Sterling for every 100,000 men, besides a considerable additional sum for the necessary expense occasioned in bringing them into

About this time the occupation of Genoa by the Open rup-French, on the pretence that that republic was too fee-to-re with ble to support itself against the attacks of Great Bri-France. tain, was communicated to the different courts of Europe, and excited in every quarter the highest indignation. The emperor Alexander, in particular, was incenfed at this new outrage. Such an open violation of those principles which were justly regarded as essential to the general fafety, committed not only during the peace of the continent, but when passports had been delivered to his ambaffador, in order that a negociation might be commenced for the purpole of providing for the permanent fecurity and repose of Europe, he considered as an indecent infult to his person and crown. He issued immediate orders for the recall of M. Novofil.zoff; and the meffenger dispatched upon this occato Berlin. M. Novofiltzoff had not yet left that city; he immediately therefore returned his paliports to the Prustian minister of state, Baron de Hardenberg, and at the fame time delivered, by order of his court, a memorial explanatory of the object of his mission, and of

It flated that the emperor had, in compliance with the wishes of his Britannie majesty, sent his ambassador to Bona arte, to meet the pacific overtures which he had greement between Ruffia and France might have placed for peace by a Russian minister; but that his im erial

majefty of Ruffia did not for a moment hefitate to pass over all perfonal displeasure, and all the usual formalities; that he had declared he would receive the paffports only on condition that his minister should enter directly upon a negociation with the chief of the French government, without acknowledging the new title which he had affumed; and that Bonaparte flould give explicit affurances that he was flill animated by the fame with for a general peace, which he had appeared to shew in his letter to his Britannic majesty; that after his Pruffian majefly had transmitted the positive anfwer of the court of the Thuilleries, that it perlevered in the intention fincerely to lend its hand to a pacific negotiation, the emperor had accepted the paffports; but that by a fresh transgression of the most solemn treaties, the union of the Ligurian republic with France had been effected; that this event of itself, the circumflances which had accompanied it, the formalities which had been employed to haften the execution of it, the moment which had been chosen to carry the same into execution, had formed an aggregate which must terminate the facilities which the emperor would have made at the profting request of Great Britain, and in the hope of relloring tranquillity to Europe by the means of negotiation.

The recall of the Russian envoy appeared to be the fignal of hostilities on the part of Russia and Austria against France. These hostilities may be faid to have commenced and terminated in the autumn of this year, The military operations that diffinguished this short but bloody contlict, the rapid fuccesses of the French, the capitulation of Ulm on the 17th of October, the occupation of Vienna by the French on the 12th of the fame month, and the fanguinary battle of Aufterlitz on the 27th of November, have been already noticed under France, No 552-555, and are fresh in the memory of our readers. The consequences of these disastrous events were, first a ceffation of hostilities, and at length a

treaty of firm alliance between Ruffia and France. Before Alexander finally stooped to the imperial eagles of Napoleon, however, he was determined to make

one more effort to preserve his independence. The Ruffian envoy at Paris, d'Ouhril, had haftily concluded a preliminary treaty of seace between his mafter and the emperor of the French, which he figned at Pavis on the 8th of July 1806, and instantly fet out for St Petersburgh to procure the ratification of his master. The terms of this convention were laid before the privy council by Alexander; but they appeared fo derogatory to the interests of Russia, that the emperor refused them his fanction, and declared that the counsellor of state, d'Oubril, when he figned the convention, had not only departed from the instructions he had received, but had acted directly contrary to the fense and intention of the commission with which he had been intrusted. His imperial majesty, however, fig ified his willingness to renew the negociations for peace, but only on fuch terms as were confiftent with the dignity of his crown, and the interests of his empire.

In the mean time, the king of Pruffia began, when it was too late, to see the folly and imprudence of the neuwith Pruffia trality which he had fo long maintained, and he at length prepared to oppose his now feeble efforts to the gro ing power of France. He brought together in the fummer of this year, an army of at least 200,000 men,

near Weimar and Jena, while the French myriads af- Russia. fembled in Franconia, and on the frontiers of Saxony. Previous to the commencement of hostilities, his Pruffian majesty issued a spirited manifesto, in which he explained his motives for abandoning his plan of neutrality, and appeared to Europe for the justice of his cause. The king of Pruffia entered into an alliance with the emperor Alexander, and with the king of Sweden, andit was expected, that these united forces would at long h hurl the tyrant of Europe from his throne, or at leaft compel him to liften to equitable terms of pacification. These expectations were, however, miserably disappointed. The same extraordinary success was still to attend the arms of France, and the north of Europe was again condemned to submit in filence to her yokc.

On the 13th October, the Pruffians received a dreadful check at the battle of Jena, where, according to the French accounts, their los amounted to 20,000 in killed and wounded, and above 30,000 prifoners; and on the 27th of the same month, Napoleon entered Ber-While the French were thus fucceisful, the troops of the emperor Alexande, entered Pruffian Poland, and took up their refidence at Warfaw; but they were foon attacked by the French under the grand duke of Berg \*. a Murat. On the 26th of November, the cutpotis of the respective armies fell in with each other, and a fkirmith took place, in which the Rushans were thrown into some confusion, and a regiment of Kozaks was made priforers. On the 28th the grand duke of Berg entered Warfaw with his cavalry, and the Russians retreated across the Vistula, burning the bridge over which they had paffed. On the 26th of December, a dreadful engagement took place between the Ruffians, commanded by General Benningsen, and the French under generals Murat, Davoust and Lasnes. The scene of action was at Offralenka, about 60 miles from Warfaw, and the fighting continued for three days. The lofs was immenie on both fides, though the advantage appears to have been on the fide of the French. According to French accounts, the Ruffian army loft 12,000 men in killed and wounded, together with 80 pieces of cannon, and all its ammunition waggons, while the Ruffian account states the loss of the French at 5000

In the beginning of February 1807, the Ruffians ob- An. 1807. tained a partial advantage in the battle of Eylau. Ac- 186 cording to the account of this battle, given by General Eylau. de Budberg, in a dispatch to the Marquis of Douglas, the British ambassador at St Petersburgh, the Russian general Benningsen, after having fallen back, for the purpose of choosing a position which he judged well adapted for manceuvring the troops under his command, drew up his army at Preuffisch Eylau. During four days fuccessively his rear guard had to withstand several vigorous attacks; and on the 7th of February at three o'clock in the afternoon, the battle became general through the whole line of the main army. The conteit was destructive, and night came on before it could be decided. Early on the following morning, the French renewed the attack, and the action was contested with obfinacy on both fides, but towards the evening of that day the affailants were repulfed, and the Ruffian general remained mafter of the field. In this action, Napoleon commanded in person, having under him An-

185 Alliance against France.

An. 1Sc6.

gereau,

Bart of

Friedland.

Ruffia. ger a Davouft, Soult, Ney, and Beflieres, at the head of the imperial guards. The lofs of the Ruffians in that engagement, was by themselves stated at above 6000 men, while they estimated that of the French at nearly

This was the last important fland made by the Ruffian army. Several actions succeeded at Spanden, at Lamitten, at Guttotadt, and at Heilsberg, in all of which the French had the advantage, till at length on the 14th of June, the Ruffins appeared in confiderable force on the bridge of Friedland, whither the French army under Napoleon was advancing. At three in the morning, the report of cannon was firth heard, and at this time Marshals Lasnes and Mortier were engaged with the Ruffians. After various manœuvres, the Ruffran troops received a check, and filed off towards Konning iberg. In the afternoon, the French army drew up in order of battle, having Marshal Nev on the right, Laines in the centre, and Mortier on the left, while Victor commanded a corps de referve, confifting of the guards. At half past five the attack began on the fide of Marthal Ney; and notwithstanding the different movements of the Ruffians to effect a diversion, the French foon carried all before them. The lofs of the Ruffians, according to the ufual exaggerations of the French bulletins, was estimated at from 10,000 to 15,000 men, and 25 of their generals were faid to have been killed, wounded, or taken. In confequence of this victory, the French became mafters of all the country round Konnin florg, and Marshal Soult entered that city in triumph.

Thus concluded the campaign in Germany, in which the Ruffians fultained a lofs of at least 30,000 of their

188 War decla-

While these military operations were going forward on the continent of Europe, the emissaries of France were bufily employed at Conflantinople, in exciting the divan to declare against their ancient enemies. They at length fucceeded; and on the 30th of December war with Ruffin was proclaimed, and 28 regiments of janiffaries effembled under the command of the grand vizir; but the diffurbances which broke out in the latter end of May 1827, prevented any operations of importance from taking place, and the pacification which was foun concluded between Russia and France, though it did not entirely put a flop to the war between the former power and Turkey, in some measure diminished their

The defeats which the allied armies had fullained in Pruffia and Poland, rendered peace, almost on any terms, a defireable object; and Alexander found himfilf constrained to meet, at least with the appearance of friendship, the conqueror of his armies. Propositions for an armiffice had been made by the Pruffian general to the grand duke of Berg near Tilfit, and after the battle of Friedland, the Russian prince Labanoss had a conference, on fimilar views, with the prince of Neufchatel, foon after which an armiffice was concluded between the French and Russians. On the 25th of June

an amicuble meeting took place on the river Niemen, Russa. between the emperors of France and Ruffia, and adjoining apartments were fitted up for the reception of both courts in the town of Tillit. This conftrained friendthip was foon after comented by the treaty of Tilfit, concluded between the emperor of the French on the one part, and the emperor of Ruffia and the king of Pruffia on the other, on the 7th and 12th of July in this

The conclusion of the treaty of Tillit was notified to Runture the court of London on the 1st of August by M. Alo-with Bripeus, minitter plenipotentiary from the emperor oftain. Ruffia; and at the fame time a propotal was made from his imperial majetty for mediating a peace between France and Britain. This mediation, however, was declined on the part of Great Britain, until his Britannic majetty should be made acquainted with the stipulations of the treaty of Tisfit, and should find them fuch as might afford him a just hope of the attainment of a fecure and honourable peace. This declining of the mediation of Ruslia was no doubt expected by the court of St Petenburgh; but it ferved as a pretext for binding more closely the alliance between that power and France, by breaking off her connection with Great Britain. Accordingly, in October, Lord Granville Levefon Gower, who had fucceeded the Marquis of Douglas as British envoy, received a note from the government, intimating that, as a British ambassador, he could be no longer received at the court of St Petersburgh, which he therefore foon after quitted. An embargo was laid on all British vessels in the ports of Russia, and it was peremptorily required by Napoleon and Alexander, that Sweden flould abandon her alliance with

An additional ground of complaint against the British court was furnished by the attack on Copenhagen, and the feizure of the Danith fleet in the beginning of September; and though Lord Gower had attempted to juftify these measures on the plea of enticipating the French in the fame transaction, the emperor of Russia expressed, in the warmed terms, his indignation at what he called an unjuit attack on a neutral power. A confiderable Ruffian fleet joined the French, but the combined foundrons were compelled to feek for shelter in the Tagus, where they remained blocked up by the British; and another fleet of 15 fail of the line that proceeded up the Mediterranean, and advanced as far as Triefte, shared a Smilar fate (1).

On the 26th of October the emperor of Ruffia published a declaration, notifying to the powers of Europe that he had broken off all communication between his empire and Great Britain, until the conclusion of a peace between this power and France. In a counter-declaration, publified at London on the 10th of December, his Britannic majefly repels the accufations of Ruffia, while he regrets the interruption of the friendly intercourse between that power and Britain. His majesty justifies his own conduct, and declares, that when the opportunity for peace between Great Britain and Ruffia

Treaty of

red agai ft

Ruffia by

Turkey.

Nein. shall arrive, he will embrace it with a geness; filled, if Rullin shall manifest a disposition to return to her ancient feeling of friendship towards Great Britain, to a just confideration of her own true interests, and to a fense of her own disposition of her own disposition.

An. 18:5. 1 1 Renewed negoclations with Britain.

In October 1808, a meeting took pace at Esfarth between the emperors of France and Ruilia, and a letter was drawn up under their fignature, addressed to his Britannic majetly. The object of this letter was, to induce the king of Great Britain to enter into negociations for a general peace, and with that view it was difparted by Count Romanzoff, the Ruisian minister at Erfurth, to Mr Canning the British secretary of flate for foreign affairs. As this letter, and the official note of the British government in answer to it, supply two very important documents in the later history of the prefent war, we shall here introduce them. The letter of the two emperors is as follows.

"Sire.—'The prefent circumflances of Europe have brought us tregether at Erforth. Our first thought is to yield to the with and the wants of every people, and to feek, in a speedy pacification with your majesty, the most efficacious remely for the misferies which oppress all rations. We make known to your majesty our sincere

defire in this respect by the present letter.

"The long and bloody war which has torn the continent is abandoned, without the poffibility of being renewed. Many changes have taken place in Europe; many flates have been overthrown. The caufe is to be found in the flate of agitation and mifery in which the flag, pation of maritime commerce has placed the greateft intions. Still greater changes may yet take place, and all of them contrary to the policy of the English nation. Peace, then, is at once the interest of the continent, and that of the people of Great Britain.

"We unite in curreating your majefly to liften to the vote of hus anity, filencing that of the paffions; to feek, with the intention of arriving at that object, to conciliate all interests, and by that means to preferve all the powers which exist, and fo enfure the happinels of Europe and of this generation, at the head of which

Providence has placed us.19

(Signed) ALEXANDER. NAPOLEON.

In aniwer to this letter the following official note, figured by Mr Secretary Canning, was dispatched to Erherth; and as the imperial correspondents refused to accele to the requisitions it contained, all hopes of prefent accommodation were et an end.

"The king has uniformly deel red his readine's and defer to enter into negociations for a general peace, on terms conflicted with the honour of his majely's crown, villificility to his orgagements, and with the permanent typice and feren'ty of Europe. His majethy re-

neats that de lartion

If the condition of the continent be one of agitation of of vertebendes, if many flates betwee been exertly own, and nore are full memaced with a beerforn; it is a conditation to the king to reflict, that no part of the convultations which have been already experienced, or of the few thich are threatened for the future, can be in any decree imput ble to his mrinty. The king is most willing to ack owe fige that all fuch dreadful classes are it ded contrary to the policy of Great Britain.

"If it are to much mifery is the found in the R En. If many of commercial intercourse, although his majety cannot be expected to hear, with usualised regret, that the fyles devised for the defination of the commerce of his fall jeels has recoiled upon its a thos, or its infruments, yet it is neither in the disposition of his majetly, nor in the character of the people over whom he reigns, to rejoice in the privations and unhappiness even of the nations which are combined against him. His majetly anxiously defires the termination of the sufferings of the continent.

"The war in which his majefly is engaged, was entered into by his majefly for the immediate object of national fafety. It has been prolonged only because no fecure and honourable means of terminating it have hi-

therto been afforded by his enemies.

"But in the progress of a war, begun for felf-defence, new obligations-have been imposed upon his majefly, in behalf of powers whom the aggredions of a common enemy have compelled to make common cause with his majefly, or who have folicited his majefly's affifiance and tupport in the vindication of their national independence.

"The interests of the crown of Portugal and of his Sicilian majesty are consided to his majesty's friendship

and protection

"With the king of Sweden his majefty is connected by the ties of the closeft alliance, and by flipulations which unite their counsels for peace as well as for war.

"To Spain his majefly is not yet bound by any formal influment; but his majefly has, is the face of the world, contracted with that nation engagements not lefs facred, and not lefs binding, upon his majefly's mind,

than the most folemn treaties.

"His majedly, therefore, allumes that, in an overture made to his majedly for entering into negociations for a general peace, the relations subfilling between his majedly and the Spanish monarchy have been disincly taken into confideration; and that the government acting in the name of his Catholic majedly, Ferdinand VII. is understood to be a party to any negociation in which his majedly is invited to engage."

The demand of concurrence in the views of France War w and Rusha made on Sweden was formally repeated in a Sweden declaration of the emperor Alexander, published at St Petersburgh on the 10th February in this year. In this declaration his imperial majefty intimated to the king of Sweden, that he was making preparations to invade his territories; but that he was ready to change the measures he was about to take, to measures of precaution only, if Sweden would, without delay, join Russia and Denmark in shutting the Baltic against Great Britain, until the conclusion of a maritime peace. He professed that nothing could be more painful to him, than to see a rupture take place between Sweden and Ruffia; but that his Swedith majefty had it still in his power to avoid this event, by refolving without delay, to adopt that course which could all ne preserve strice union and perfect harmony between the two states.

The king of Sweden, however, determined to abide by the measures which he had for fome time purfued, and to accede to the terms of the convention which had jult been concluded between him and the king of Great Britain. In confequence of this determination, a Ruffian army of tored Fit land in the beginning of March, under the command of General Buxhovden, and advan-A il, when they were obliged to capitulate. The lois of this fortress, though inconfiderable in itself, so highly e ged the king of Sweden, that he difmiffed the naval

On the 2-th of April, some slight advantage was gain d over the Ruthans near Rivolax, by the Swedith army tour Gereral Count Klinipor; but this was only a partici gleam of fuccels. The Ruthans foon overran and all Finland, took poffession of Wasa, old and new Carlely, and reduced under subjection the whole Feld-marthal Klinfpor, which originally confined of 16.000 regulars, and many boors, was, by the end of the camp ign, reduced to little more than ocoo men. excesses, in consequence of which the king of Sweden

" Honour and husanity enjoin me to make the most f reiole are ontrances to your imperial majerty against the numberless cruelties and the injustice committed by the Rullian troops in Swedish Finland. These proceedings are too well known and confirmed, to require from me any proof of heir reality; for the blood of the ill-fated victims ftill cries aloud for vengeance against the abettors of such enormities. Let not your imperial majesty's heart be intentible to the representations which I find m 'elf compelled to make to you, in the name of my fai hfu! fu jects in Finland. But what is the object of this war, as unjust as it is unnatural? It is not I suppole to excite the throngest aversion for the Rushian rame? Is it criminal in my subjects in Finland not to have suffered themselves to be seduced from their allegiance by promifes as falfe as the principles on which they are founded? Does it become a fovereign to make loyaley a crime? I conjure your imperial majesty to put a flop to the calamities and horrors of a war which cannot fail to bring down on your own person and government the curles of divine Providence. Half of my domi ions in Finland are already delivered by my brave Finnish troops; your majesty's fleet is shut up in Baltic port, without the hope of ever getting out, any otherwife than as a conquest; your flotilla of gallies has recently full ined a very fevere defeat, and my troops are at this moment landing in Finland, to reinforce those who will point out to them the road to honour and to glory."

" Head-quarters, Sept. 7. 1808." " GUSTAVUS ADOLPHUS." VCL. XVIII. Part II.

The king of Sweden continued to fend reint comments R . portance were obtained, and the Ruffrins Itill remove in to the Swedish throne, would have roduced a counge Swedes and Ruffians have not yet terminated, though

part of this article, in which we have taken a comprehenfive view of the principal military and political transfactions of Ruffia, from the citablithment of the mon- cliv under Ruric, to the present year 1809. The military recovered that vigour by which it was diffing hished at the commencement of his reign. The boafted fuccions which he has been fo long expected to fend to his intperial ally Napoleon, have not reached the banks of the Danube; but the concentration of the Rushan forces in Polith Galicia, thews that Alexander is preparing to point of subjugation to the haughty power of France. The fanguinary battle of Afpern, hought on the plain of the Marchfield, on the 21st, 22d, and 23d of ertions of Bon parte, had evidently fo much weatched little more than act on the defe five, and e trench themselves between Vienna and Presburg. If the afflicting intelligence that is just pu lished, of a second battle on the 5th and 6th of July, in which the of Austria is decided; and the dilmemberment of her territories will probably be the refult of her intrepid but unavailing opposition to the ambitious views of

In our remarks on the political and civil geography Extent of of Russia, we shall begin with the population. To flate p To attor this with any Jegree of accuracy, in an empire to ex-fian empire tensive, and where the inhabitants are, in many places, fo thinly feattered, is almost impossible. It is not furprifing, therefore, that the accounts given by different writers are extremely various. The population has been commonly flated at about 25,000,000, before the last partition of Poland; and a by this event the empire was supplied to have seed about 5,000,000 of inhabitants, its whole population has been estimated at 30,000,000. According to an enumeration taken feveral times by government during the 18th century, the popul tie had go ally in reased from 14, 2, 2 Iles, the number of people was,

(K) There is every reason to believe that the campaint have and a French and Authians is at an end. When this sheet was put to press, the 25th, 26th, 27th, and 28th I litins of the French army on the Danube had arrived; and from these it appears, that the battle above alle 1 d v. t ok place at Enzersdorf on the 5 h, and was renewed at Wagram on the 6th; that in both these action the Available were descated with great loss; that on the 11th the contest had again begun near Znaym, but was to worth by the arrival of an Austrian general in the camp of N poleon, and that on that day, an armitice for one month was concluded between the two emperors. This merfure, which cams to have been haftened by the intelligence that the Ruffinus were ravidly approaching in the rear of the Austrians, is probably the prelude to a peace, which can harce y be obtained with, at go at fac. I s on the part of Austria.

in 1722, 14,000,000 16,000,000 20,000,000 28,000,000 30,000,000

If these data are correct, we should, fince the last partition of Poland, eilimate the whole population at 35,000,000, and even this is probably below the truth. Sir John Carr, in his Northern Summer, has extended it to 40.000,000, which is perhaps not too much.

Of this population very little belongs to Afiatic Rufsia, to which Mr Tooke will not allow more than 4,000,000. In estimating the degree of population by the fquare mile in Afiatic Ruffia, he reckons, but upon what data it is not easy to ascertain, a little more than 16 inhabitants for the fquare German mile, and he allows no more than 218 to the fame furface in European Ruffia.

There are leveral facts which prove that the population of the Russian empire is still on the increase. Thus, in 1802, the number of marriages was 300,470, that of the births of the same year 1,270,341, and that of the deaths only 791,973, fo that the number of births exceeded that of deaths by 478,368, and the population had of course in that year increased nearly half a mil-

In the year 1804, the number of marriages was 311,798; of births 715,334 males, and 642,233 females, making 1,357,567, and of deaths 439,137 males, and 380,681 females, making a total of 819,818; fo that in the course of that year, the number of births ex-

ceeded that of deaths by 537,749.

The government of Rusha appears always to have been despotic; and we have no traces of any legislative power diffinct from that of the fovereign, as what is called the fenate, is only the supreme court of judicature. Vafilii Schuifkoy, who obtained the crown in 1606, (see No 88.), pretended to obtain it in consequence of a free election by the fenate and people; but we have feen that his coronation was produced by intrigues among the chiefs, and there appears in the Ruffian history no veftige of any national council, parliament, or estates of the empire, far less of a free elective diet, like that which ditlinguished the republic of Poland. The emperor is absolute lord, not only over all the estates of the empire, but also of the lives of his subjects. The greatest noblemen call themselves his flaves, and execute his commands with the most implicit obedience. The common people revere him as fomething fupernatural, and never mention his name, or any thing immediately belonging to him, without marks of the most profound respect and awful veneration.

During the reign of Catharine II. the immediate administration of affairs was nominally vested in what was called her imperial majefty's council. This was composed of the principal officers and persons of the empire. namely, of general feldt-marshals, generals in chief, and actual privy-counfellors: at prefent they are 14 in number; the fifteenth fills the place of a chancery-director, and has a fecretary under him. The vice-chan- Ruffia. cellor of the empire is a member of this council. The post of grand-chancellor is sometimes suffered to remain

The cabinet, to which belongs the care of the fovereign's private affairs or concerns, as likewife the reception of petitions, confifts generally of ten perfons, the high-fleward of the household, privy-counsellors, majorgenerals, and state-counsellors, with their feveral subordinate officers and chanceries. It also examines difpatches, paffes accounts, &c. takes cognizance of the produce of filver mines, &c. Whoever is not fatisfied with a decision of the senate, may appeal by petition to the cabinet; and in this respect it does the office of a fupreme tribunal, in which the fovereign in person decides.

In extraordinary cases it sometimes happens that a fpecial high court of justice is appointed, not subordinate to the fenate, but immediately under the fovereign. The prefidents are usually taken from the imperial colleges and other eminent stations, and likewise from among the members of the fynod. Where the alleged offence is of an extremely heinous nature, the examina-Tooke's tion is first made by particular persons appointed for View, that purpose, and the protocal is laid before the com-p. 34r.

missioners for their judgements.

In number of titles the emperor of Ruffia rivals the Impenal proudest monarchs of the east. In the reign of Catha-utles. rine II. the imperial titles, when written at length, ran thus :- " By the grace of God, Catharine II. empreis and autocratrix of all the Ruslias, of Mosco, Kief, Vladimir, Novgorod; tzarina of Kazan, tzarina of Aftrakhan, tzarina of Siberia, tzarina of the Tauridan Cherfonele, lady of Pikove, and grand duchels of Smolenik; princels of Ethonia, Livonia, Karelia, Tver, Yugoria, Permia, Viatka, Bulgaria, and other countries; lady and grand duchess of Novgored of the low country, of Tichernigof, Reazan, Polotik, Roftof, Yaroflayl, Bielosero, Udoria, Obdoria, Kondia, Vitepsk, Mstiffayl: fovereign of the whole northern region, and lady of the country of Iveria, of the Kartalinian and Grufinian tzars, and of the Kabardinian country, of the Ticherkassians, and of the mountain princes, and of others hereditary lady and fovereign.

We probably know very little of the amount of the Revenues. Ruffian revenues. From the most correct intelligence that Mr Tooke could procure, he has estimated them at about 46,000,000 of rubles, though it is probable that they amount to a much greater fum. Taking the ruble at an average value of four shillings, according to Mr Tooke's directions, we may compute the revenue at about 10,000,000l. fterling, all at the entire disposal of the emperor. It does not appear that this revenue is

diminished by any national debt.

The Russian empire appears to possess a very large Army. disposable armed force. The following estimate made up from the reports of the different corps, inferted in the registers of the college of war, will shew the state

(L) It is curious to remark how many people of a very advanced age died in Ruslia during this year. Thus among the deaths are reckoned 1145 between 95 and 100; 158 between 100 and 105; 90 between 105 and 110; 34 between 110 and 115; 36 between 115 and 120; 15 between 120 and 125; 5 between 125 and 130; and

Govern ment.

Number of

Ruffia. of the Ruffian army at the beginning of the year ed in providing have been ings have been

men in pay. 10 regiments of artillery, 11 regiments of grenadiers, of 4075 men each. 51,048 3 regiments of grenadiers, of 1000 to 3000 men each. TI regiments of musketeers, composed of 10 companies of mulketeers, and two companies of grenadiers, each regiment being composed of 2424 men, 139,592 7 regiments of musketeers without grena-I regiment of musketeers, of 4 battalions 4143 men New arquebusiers, so called, 5,897 12 battalions of musketeers, of 1010 men, 7 16,653 a battalions of musketeers, of 1475 men, 48 battalions infantry, in garrifon on the 7 82,393 frontiers, 10 in the country, o corps of chaffeurs of 4 battalions of 988 25,928 men each, 3992, 3 battalions of chasseurs, 5 regiments of cuiraffiers of 1106 and 1 5,490 II25 men. 10 regiments of dragoons of 1882 men, two with huffars mounted, 8 regiments of carabineers of 1106 men, 7 16,352 eight do. of o88 men, 2 regiments of huffars of 1110 men, three 7 2,722 fquadrons of huffars, one do. 4 regiments of chasseurs of 1838 men, 7,352 regiments of light horse of 1047 men. 5,235 6 regiments of cavalry of the Ukraine, of 6,282 1047 men, 16 regiments of regular Kozak cavalry, 30,882 Troops to guard the country. 22,216 In the new provinces acquired from Po land in the first partition, fix brigades of 23,360 1810 men, s brigades of light horse, of 1008 men, four of infantry of 1447, &c. in all, 3,864 Invalids in garrison, Soldiers fons at school for service, 16,816 Troops to affift the commissaries, &c. 1,258

Total regular troops, 541,741
Irregular Kozak cavalry 21,625,
Irregular troops of the Don Kozaks,
Cavalry all in actual fervice 24,976,
A great number of other irregular troops,

A great number of other irregular troops, all cavalry, as Kalmusk, Bafchkirs, &cc. not enrolled, but ready when called out, (they receive no pay), at lealt

The Ruffian regiments are usually encamped from the end of May to the end of August. The foldiers are allowed no fitney in their tents, but each man lies on the bare and often wet ground. When he mounts guard, it is for a fortnight together; but when he is taken ill, he is attended with the greatest care by the medical officers appointed by government. No expence is fpar-

688,342

ed in providing hofpitals, for which purpole large build. R. 676. ings have been conflueded in the principal towns, and a proper number of phylicians and furgeons attached to each. Here the patients are fupplied with medicines and diet fuited to the nature of their complaints. Still, however, the Ruffan foldiers enter the hofpitals with reluctance, and leave them as from as pofflible.

S

Notwithstanding the great population of the Ruffian empire, it fometimes requires the utmoil stretch of arbitrary power to raife levies for recruiting the army, as the lower orders of the people are more averle to the military profession in Rudia than in almost any other country. This is the more extraordinary, as the pay is tolerably good, and they are furnished in abundance with the necessaries of life. It is true that leave of abfence can feldom be obtained, and each foldier is bound to ferve for 25 years. The discipline is fevere, and the fubaltern officers may, on their own authoriv, innet punishment on any private, to the extent of 20 ftr 'es of a cane. While the foldiers remain in garrifon, they are generally not allowed to marry; but when permitted to marry, there is an extra allowance for their wives and children \*.

There is one abfurdity in the drefs of the Ruffian fol. Cathediers, efpecially in that of the efficers, which merits rine II.
notice. Their wails are fo pinched by the tightnefs of voicintheir clothes, and a leathern belt over the coat, as must
certainly impede their refpiration, and otherwise affect
their health 4.

Of the regular troops, the imperial foot guards are ter's Trathe most respectable. Their uniform confits of a green vels. coat turned up with red, with white pantaloons, and very high caps or hats, furmounted with a black feather or tuft of hair. Of the other troops, the most remarkable are the Kozaks, which form the principal cavalry of the empire. Of those there are several varieties, but the most firiking are the Donfky Koziks. The perfons, air, and appointments of these troops seem completely at variance with those of the horses on which they are mounted. The men are fierce and robust, generally dreffed in a blue jacket and pantaloons or loofe trowfers, with a black cap furmounted by a kind of red turban. They are dittinguished by formidable whiskers, and are armed with a fabre, a brace of piffols, and a long spear. Their horses are mean in shape, slouching in motion, and have every appearance of languor and debility. They are, however, extremely hardy and tractable; will travel incalculable journeys, and remain exposed, without inconvenience, to all the vicificudes of the weather.

The many of Ruffin is respectable; but since her rup-Nay, ture with Great Britain, it has become nearly useless. It generally consits of several detached steets, of which one belongs to the Baltic, and another to the Black fea; the torner having its rendezveus at Cronsladt, the latter at Sevastopol and Kherson. There is also generally a small squadron on the Cussion. In 1794, the Baltic steet consisted of 40 ships of the line, and 15 frigates; while that of the Black sea was composed of 8 ships of the line, and 12 frigates. The Caspian squadron consists of three or four small frigates, and a few corvettes. Besides these freets, there was lately at Odessa in the Biack sea, a stoilla consisting of 25 very large vessels, and 60 vessels of interior size, to serve as transports for conveying troops. The Ruffins are faid to

3 E 2

Russia. be averse to a feafaring life, but the failors are extremely brave. In point of neatness, the Ruslian thips are inferior to those of any other European nation. As connected with the government of the empire,

we shall here notice the coins, weights, and measures,

The standard according to which the value of the Ruffian coins is usually estimated, is the ruble; but as the value of this coin, with respect to the money of other countries, varies according to the course of exchange between these countries and Russia, it is necesfary to take into account the value of the ruble as it tlands at any particular time. When Sir John Carr was in Ruffia in 1801, the ruble was worth only 25, 8d. of English money, and as the course of exchange between Great Britain and Russia is now against the latter country, we may perhaps estimate the suble at about 2s. Keeping this in view, the following table by Mr Tooke will show the value of the Russian coins,

GOLD.	[Imperial,	10 rubles.
GOLD,	Half imperial,	5
	Ruble,	Ico coreeks.
	Half ruble,	₹\$
	Quarter ruble,	25
SILVER.	Twenty-co cck piece,	20
	Fifteen-copeck piece,	15
	Grievnik,	10
	[ Five-copeck piece,	5
COPPER.	Petaki,	5
	Grofch,	2
	Copeck,	1
	Denuflika,	# 
	Polushka,	45

Weights.

It is not easy to compute the Russian weights, according to the Handard of either avairdupois or troy weight. The least Russian weight is called folotnik. and weighs about 68 troy grains, or a little more than one troy dram. Three folotniks make a 1.1e, and 32 lotes or 96 folotniks, a Rustian pound. Thus the Rusfian is to the troy pound, as 6528 is to 5760. Fortyfive Ruffian pounds are equal to 38 Hamburgh pounds. It is usual in Russia to estimate the parts of a pound by folotniks, and not by lotes; thus, any thing that weighs 7 lotes, is faid to weigh 27 folotniks.

A Ruffian po d weighs 40 Ruffian pounds, or 3840 folotniks, and is hy Mr Tooke reckoned at 36 English

The neafures of Ruffia, as in other countries, may be divided into measures of length and measures of capacity. The former are easily estimated in English meafure, as the English foot was adopted by Peter the Great, and is now the standard for the whole empire. It is also divided into 12 inches, but every inch is divided into 10 lines, and each line into 10 ferueles. Twenty-eight English in ches make an arshine, and three arthines one fajene, or Ruffian fathom, equal to 7 feet English.

A Roffinn verit is equal to 2 too English feet; and a geographical mile contains 6 verils, 475 falenes, and

Superficial measure is formetimes estimated by square verils and f. jenes, but more commonly by defettines; each of which is equal to 2400 fquare fajenes, or 337,600 English square feet.

Of dry measures of capacity, the smallest is the gar. Ruffit nitza, ofmuka, or ofmufchka, which is a meafure capable of holding 5 Russian pounds of dried rye, and is used chiefly in measuring out corn for horses. A poltchetverick contains 614 Paris cubic inches, or half a pood of dried rye. A polofinina contains 8 politichetveriks, or four tchetvericks. A tonne of corn at Reval holds 5964 French cubic inches; at Rlga, 6570; at Narva, 8172; and in Viborg it is equal to the weight of 6 pood. A Riga lof measures 3285 French cubic inches, and is equal to 27 cans; and a last is equal to

Of liquid measure the vedro contains 610 French cubic inches, and is equal to 5 Riga cans; a krushka or oflim is 1, and a tchetverk 1 of a vedro: a floff is about 60 French cubic inches; 19 vedro make 1 hogshead, or 6 ankers, and 57 vedro amount to 152 English gallons, each containing 233 French cubic inches.

We have feen that in the earlier periods of Ruffian Laws. history, the empire was regulated by no other laws than the will of the fovereign, as promulgated in his ukales: and that even the first Ruffian code of laws, viz. those published by Ivan IV. in the 16th century, contain rather the arbitrary orders of that monarch, than fuch regulations as might have been the refult of the deliberations of a national affembly. The code of Ivan was greatly improved by Alexei Mikhailovitch; but the late empress has the merit of giving to the empire a new and rational code, chiefly drawn up by her own hands. Of the precise nature of the laws contained in this code very little is known, as all converfation on the laws of the empire is either forbidden, or is confidered as indelicate. It is not indeed of much confequence to afcertain the prefent existing laws, as they are subject to

In 1775, the late empress made a complete new Admini modelling of the is toreal government in a form o great fratten of finaplicity and unil rmity. By that reglement the juline, divided the whole empire into governments, as we have already mentioned, placing over each, or where they are of less extent, over two configuous governments, a governor-general with very confiderable powers. She fubdivided each government into provinces and diftricts; and for the better administration of justice, erected in them variou courts of law, civil, crimin !, vernment, if not in every province, a tribunal of confeien e, and in every dittrict a chamber for the pretection of erphans. Amidst so many wife in titutio s, a chamber for the administra ion of her imperial majefly's revenues was not forgotten to be established in cach force the administration of the laws; a d when a 7 tribunal shall appear to have propopore d an irecolor fentence, to flop the execuin till be mik ar port to the fenate, and receive her meistry codes. It is his and, on the frontiers of the empire, that the proper number of troops be kept up, and that they be attentive to their duty.

This revelement contains other inflittions as well as meny directions for the conducting of law uits in the different court, and the administration of justice, which do her majefly the highelf honour; but the general want of morals, and what we call a fense of honour, in every order of men through this valt empire, mult make the wifelf regulations of little avail. Ruffia is perhaps the only nation in Europe where the law is not an incor-cuted profession. There are no seminaries where a p. litimat may be educated. Any man who will pay the . . of office may become an attorney, and any man who considered at the bar. The judges are more learned than the pleaders. They are not only fied for their offices by any kind of edu ation, nor are they peceffarily cholen from those who have frequented courts, and been in the practice of pleading. A general, from a lice sful or an equivocal campaign, may be inflantly placed at the head of a court of patice; and in the allence of the imperial court from S. Petersburgh, the comme ding whicer in that city, whoever he may be, presides ever ficir in the high court of instite. The other courts generally change their prefidents every year. Many inconveniencies must arise from this fingular constitution; but fewer, perhaps, than we are and to imagine. The appointment to fo many interior governments makes the nary business of law-courts; and a statute or imperial edict is law in every case. The great obstacles to the and the venality of the judges. From inferior to funerior courts there are two appeals; and in a great proportion of the causes the reversal of the fentence of the inferior court ful cts its judges to a heavy fine, unless they can produce an edict in full point in support of the decifon. This indeed they feedom find any difficulty in doing; for there is fearvely a case fo fimale that edicts may not be found clear and precite for both are very feld a inc trustible. To the principle of honour, which often guides the conduct of judges, in officer has been feen fitting in flate and distributing justice from a bench to which he was chained by an iron collar round his neck, for having the div before been detected in conniving at fange ing. This man

Few crimes are capital in Rrifle's murder may be atoned for by naving a few of mone; new, the c'eit manufrite tal es no comizance of murder, without having very suffer excived information at the fait of force in the constant of the most crue leafly till the reion of Catharine Lech a a more more. The clock place is and this the late

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ments.

The of tent is the rimes of inferior magnitude are, instrument, and be illuminated by the different of Signals, and the rim and prefer formers, that most described of the control and the costs the language of this control is as to been all times of the control and the force explaints. We distill the ribre explaints, by firm the information of one of our last it will be ribre explaints.

The known. The apparatus for inflicting the purithment of the

knout confills principally of a whip, composed of a section would be handle about a foot long, very firong, and bound tightly round with letter, and having attached to it a flout and weighty thong, longer than the londler and formed of a tapering trip of buffairo's hide, weil dried, and about 4 inch thick, fattened to the handle in the manner of a dail. Befide this, ho executive rish farmithed with a pair of iron placers for the putpose of filting the nofe, and another instrument flague thise a round bruth, fitnight set with from teach, for marking the forehead, or any other part of the body, according to the teams of the in attent.

The implication of the punishment, in a case where it, was peculiarly severe, (viz. that of a servant who and murdered his mailer, is thus described by Mr Ker Per-

tor

"The poor wested, attended by part of the police, bed beauty liked the in the lacers, in order to fine which the police is a constant of the theory and a continued to a rived in factor of the troops, a circle was formed, and prejudición. A particular to the troops, a circle was formed, and prejudición. A particular particular and actual in the last language, which, materpolyably was an account of his crime and fentence; we was specifily diripped of his clouds, leaving on his performed and award indeed was their filterior flowly firm and well fecured, a block of wood, about three feet high, having three cavities in the top, to receive the neck and arms. Being fully prepared for his dreadful punith and, the unbappy man crofiled himself, repeating his end-predum posmida with the greated feet to the board, firongly binding him to it by the neck and the upper parts of his arms, patificial by the neck and the upper parts of his arms, patificial to the board, firongly binding him to it by the neck to the board, and the upper parts of his arms, patificial to the board of both kine. Thus bewed forward, the awful moment appar a bed. The first the keep was fluck, and each record a light of the true in the ribby; hat foon occurring and the presence of the same in the results of the same in the first the first ten or twelve, the correction of the results and in the bloody fix the or her and in the first of the cavities of the results and the presence of the results and the part of the parts of the results and the parts of the cavities of the results and the parts of the results and the presence of the results and the parts of the results and the presence of the results and the p

"After fill an hour had been occasied to be thefe drandful blows (and more than 2000 as it is him), a figual was made from the head of the police, and the criminal was raint a 2000 fine to the block. Not the finallest figure of the stands to ramon is intended, following the head of the stands to ramon is in tend, following the head of the own as the after the hiff of the ladion, he head on the own as the clientess which could blim would also be at the lightness which could blim would also be at the first than the head of the own as the same a with iron tenth, and placing it a little blood has tended frusch it with the dumind force, and drawe its put the first in the first force, and drawe its put the first force, in the first in the first own to the mean for the definition of the first could be force and for the first own the parts thus pierced, were then in the deal will propose they to remain, illustiful the mane held force over the approximation of the head on the first own and the mane held force over the approximation of the head of the content of the content of the head of the content of the content of the head of the content of th

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Sketches,

206

Religion.

p. 21

Ruffia. firous curling irons, were inferted up the note of him whom I fupposed dead (and indeed I only endured the latter part of the fight, from having imagined that thefe inflictions were directed to one already past the sense of pain); the performer of this dreadful fentence, aided by his companion, actually tore each from his head in a way more shocking than can be described. The acuteness of this last torture, brought back sense to the torpid body :- What was my horror, to fee the writhings of the poor mangled creature; and my aftonishment, as foon as he was unbound, to fee him rife by the affiftance of the men, and walk to a cart ready to return him to his prison. From whence, if he did not die, he was immediately to be conveyed to Siberia,

\* Porter's there to labour for life. His loft firength seemed to reTravelling vive every moment, and he sat in the vehicle perfectly upright, being covered with his kaftan, which he himfelf held upon his shoulders, talking very composedly with those who accompanied him \*.

The established religion of Russia is that of the Greek church, which differs little from the Roman Catholic perfuasion, except in a few rites and ceremonies. The people are very first in the observance of the external forms of worthip, as attendance on mass, keeping numerous fafts, performance of domestic devotions morning and evening, confession, receiving the facrament, &c. To build churches is confidered as a meritorious act. and hence even the fmall towns abound in these religious edifices; and as, from the feverity of the winter, it is necessary to heat the churches during that feafon, it is not uncommon to fee two churches in the fame churchyard; one used for winter, and the other for fummer worthip. The clergy are held in great honour; and every one meeting a priest kisses his hand, in return for which he receives his bleffing with the fign of the crofs. From the external ceremonies of the Greek

church, we shall select those of baptism, marriage, and

Baptum.

As foon as a child is born, the priest repairs to the chamber of the mother, and offers up a thankfgiving for her and her infant, On the eighth day the child is carried to the church, and receives its name, in addition to which is given that of the faint to which the day is dedicated. Thirty-two days after this the purification of the mother takes place, after which succeeds the baptism itseif. The child is dipped three times, and then immediately anointed on feveral parts of the body, and figned with the crofs. Seven days after unction, the body of the child is washed, and its head is shorn in the form of the cross; and, in general, a little cross of gold or other precious material, is fulpended from its

neck. 218 Marriage

The marriage ceremony in the Greek church confifts of three parts. The first office is that of the espousals or betrothing. The parties pledge themselves to be true to each other, by the interchange of rings; and the priest before whom the vows are made, presents lighted tapers to the contracting pair. The liturgy being faid, the priest places the parties who come to be betrothed, before the door which leads into the functuary, while two rings are laid on the holy table. The priest makes the fign of the crofs three times on the heads of the bctrothed couple; and then touching their foreheads with the lighted tapers, presents one to each. Then follows the benediction, with a few flort prayers, after which

the priest takes the rings, and gives one to the man, Russia. and the other to the woman, with a short address, which he repeats thrice to each, figns them on the forehead with the rings, and puts these on the foresingers of their right hands. The espoused couple then exchange their rings, and after a long prayer from the priest, are difmiffed.

The fecond rite is called the matrimonial coronation. as in this the bride and bridegroom are crowned, to indicate their triumph over all irregular defires. The betrothed parties enter the fanctuary with lighted tapers in their hands, the priest preceding with the cenfor finging the nuptial pfalm, in which he is accompanied by the chorifters. After being affured of the inclination of each party to receive the other in wedlock, the priest gives them the holy benediction, and after three invocations, takes the crowns, and places one on the head of the bridegroom, and the other on that of the bride. After this is read St Paul's epiftle on the duties of marriage, with fome other portions of Scripture, and feveral prayers. The cup is then brought, and bleffed by the pricit, who gives it thrice both to the bride and bridegroom, after which he takes them by the hand. and leads them in procession, attended by bridemen and maids, three times round a circular fpot, turning from west to east. The crowns are now taken off their heads, and after proper addresses, and a short prayer, the company congratulate the parties; these salue each other, and the ceremony of coronation is terminated by a holy difmiffion.

The third rite is called that of diffolving the crowns. and takes place on the eighth day. It confifts of little more than a prayer for the comfort and happiness of the married pair, after which the bride is conducted to the

bridegroom's house.

On the death of a person, after the usual offices of Funerat closing the eyes and mouth, and washing the body, are service. performed, the priest is fent for to perfume the deceased with incense, while prayers and hymns are faid and fung beside the corpse. The body is watched for a longer or shorter time, according to the rank of the deceated; and when all things are ready for the interment, those relations who are to act as mourners and pall-bearers, are called together. Before the coffin is closed, the ceremony of the kiss must be performed, as the last respect paid to the body. The priest first, and then the relations and friends, take their farewel, by kiffing the body of the deceafed, or the coffin in which it is contained. The funeral fervice then begins with the priest pouring his incense from the holy censer on the coffin and the attendants, after which he gives the benediction, and the chorifters chant fuitable responses. The coffin is then carried into the church, the prieffs preceding with a lighted taper, and the deacon with the cenfer. When the procession reaches the fanctuary, the body is fet down; the gift pfalm is fung, followed by feveral anthems and prayers. The corpfe is then laid into the grave, while the funeral anthem to the Trinity is fung over it; and the ceremony of fprinkling earth on the coffin, usual in most countries, is performed. After this oil is poured from a lamp on the coffin, and incense again diffused. The grave is next covered in, and the ceremony ends with a prayer to the Saviour for the reft and eternal happiness of the deceased.

Those who wish for a more minute account of these

ceremony.

Rufils and other ceremonies of the Greek church, may confult Mr Ker Porter's Travelling Sketches, vol. i. letters 8.

9, and 10. Greek hie-

The hierarchy of the Russians consists of three metropolitans, feven archbishops, and 18 bishops. We have feen that there was originally at the head of the church a patriarch, who possessed all the power of the Roman pope. This office was abolished by Peter I. whole number of ecclefiaftics belonging to the church of Russia, is computed at 67,900, and the number of churches at 18.350.

255 Monaiteries.

rarchy.

There are teveral monafleries and convents in the Rushan empire, where the monks and nuns, as in Roman Catholic countries, lead a life of feclusion and indolence, though their inhabitants are not subject to fuch fevere restrictions as those of the Catholic persuafion. The heads of the monafteries are called archimandrites, or hegumens, the former being nearly fynonymous with abbot, the latter with prior. The fuperior of a nunnery is called hegumena. The principal religious order is that of St Basil; and the chief monasteries are those of St Alexander Nefsky at St Petersburgh,

and Divitchy at Mosco. 212

Toleration. Formerly no religion, except the Greek, was tolerated in Russia; but, since the reign of Peter I. all religions and fects are tolerated throughout the empire. It was indeed with great difficulty that Peter could be prevailed on to allow the free exercise of the Roman Catholic religion; but this is now not only tolerated, but is dignified by the establishment of Russian Catholic bishops. Even the despised Jews are permitted to hold their fynagogues, and the Mahometans their mosques.

The Russian language is a dialect of the ancient Go-Language. thic, and is extremely difficult of pronunciation by a fouthern European; though in the mouth of the politer Ruffians, it appears by no means deficient in melody, It is very difficult to acquire, as it abounds with extraordinary founds and numerous anomalies. The characters amount to at least 36, some of which resemble those of the Greek language, while others are peculiar to the Rufs. Among other fingularities there is one character to express fch, and another fsch, which latter found is faid to be scarcely capable of enunciation, except by the most barbarous of the Russian natives. See Philo-

LOGY, Nº 220.

Since the accession of the emperor Alexander, the literature of Russia has undergone a material improvement. Incredible indeed, was the pressure of the rigorous genius-destroying restrictions and prohibitory edicts under the reign of Paul, of the state of whose mind, continually tormented with fuspicion, but in other respects endowed with many good qualities, so striking a picture has been drawn by Kotzebue, in The Most Remarkable Year of his Life, of which a Ruffian translation has been publiflied. During that inauspicious feafon, only a few plants sprang up here and there in the garden of Rushian literature, chiefly in Petersburgh, and for the glorification of imperial institutions. Among thefe, for instance, may be reckoned the Cabinet of Peter the Great, written in the Ruffian language by Jofeph Bieliajeu, under librarian to the Academy of Sciences, and splendidly printed in 1800, at the expence of the academy, in three large quarto volumes. It is intended to be a catalogue of the books, natural curiofities, works of art, medals, pictures, and other treasures,

which the academy founded by Peter the Great poffer- Ruffis. ies; but it is to be feared, that this lift itfelf will fwell to a library, if the fucceeding parts should be written in the same spirit as the first three. The first volume contains only the relicks of Peter the Great, with five plates, comprehending even the productions of his turning lathe, which are preferved, as is well known, in a feparate apartment. The fecond volume gives fome, but extremely defective accounts of the Academic Library, in which there are 2964 Ruffian works (and among them not fewer than 305 Russian romances!) and 1350 MSS. (236 of them Chinese, and 410 relating to the hiftory of Ruffia). In the third volume, the cabinet of medals is illustrated. It is really aftonishing how many curiofities and exquifite works of art have from every part of Europe been collected in St Peterfburgh, especially under the reign of Catharine II. What treasures of art and literature are to be found only in the imperial hermitage! Here, for inflance, is the most valuable and complete collection of ancient engraved gems, of which the celebrated collection of the duke of Orleans composes only a small part. Here the libraries of Voltaire and Diderot are placed, containing their MSS, and manufcript notes on the margins of the books. M. Von Köhler, a German, is the keeper of these treasures; and the antiquarian writings which he has published in the French and German languages, sufficiently prove him to be a proper person for such an office. It is, however, an unfortunate circumstance for the rest of Europe, that it is difficult to learn what has been fwallowed up by these repositories on the banks of the Neva. It is therefore to be lamented, that the iplendid description of the Michaelowitzian palace has since the death of Paul been discontinued. From what Kotzebue has faid concerning it in the second volume of the account of his exile, one may guess what immense quantities of curiofities it contained. At prefent only three large engravings of the external views of the now deferted palace, are to be obtained at the price of 40 rubles. Of Gotschiza too, the savourite residence of Paul, and which the new emperor has presented to the empress dowager, we have a view in fix large theets, engraved before the death of the late emperor, and giving us at least a general idea of the plan of the extensive pleafure grounds, &c.

There is no longer any doubt that the new univerfity of Dorpat, which has already cost the nobility of Esthonia and Livonia more than 100,000 tubles, will at length be eilablished by authority. Several learned men were invited from foreign countries to fill the profelfional chairs, and fome of them had arrived in the beginning of 1802. The military academy, which has likewise been erected at Dorpat, has received great fayour and support from the emperor. Full permission is now again granted to vifit foreign schools and universities; and in consequence, about 70 Livonians, Etthonians, and Courlanders, now protecute their fludies at the university of Jena; and proportionate numbers at

the univerlities of Germany.

The book-trade, which had been entirely annihilated, has for the most part broken the iron tetters imposed by the licenfers; it is indeed a highly beneficial change, that no Tumanskow, and other Ruthan zealots, but Germans, are appointed to examine German books. Here, however, many things still require to be correct-

214 ftate of lit-rature in Ruffia.

213

ed. The new e. per r, notwithstanding his almost incredible activity, cannot at once discover all the abuses and improper applications of some of the laws, nor by an emmenoï ukafe, open to every innoxious book (as was the cafe with respect to Karzebue's Most Remarkable Year ) the gate that had been thut against it by the licensers. For Kotzebue's work would not have been permitted to pass, if the processtor-general in St Pe'erlburgh had not 1.id a copy o lore the emperor himself, and received a particular chase in its favour. Another great impediment to literature is, that all books must be imported by sea; and c sequently during the winter no new publications can be procured from abroad. The greatest difficulty in precuring books, however, arises from the circumstance that a Russian uk se always remains in full force till it be expressly repealed by another. Previous to the reign of Paul, the examination and licenfing of books was entruned to the chief magistrates of the respective capitals; but Paul appointed inferior licenfers for that purpole, and the fame regulation continues, unless altered by a particular ukafe. Under Paul, nothing was permitted to be printed in the large printing-office of Reval, exsent advertisements, playbills, hymns for the Reval sained in which were subjected to a strict previous exaforced in 1802, though re ugnant to the emperor's intestions, because no commenoi ukase had been published to abolish them. A wine merchant in Reval was defirous of having some tickets printed, for the purpose of diffinguishing his different forts of wine. At first the lice for woul not permit any of the French wines to have their names printed, and when at last he relented with respect to this point, the printing of the words St Uber's wine, and bi/bop, a well known drink composed wine and oranges, was deemed by him quite inadmif-

well at L p. 215.

Ruffian

It ge.

\* 17 and mould not be exposed to a fimilar profanation \*. A ne e febrol of practical juriforudence has lately proce fors who give lectures on the law of nature and na-

> The Academy of Sciences at St Peterfburgh have formed the plan of a rule for the manner of writing with Ruffien charafters. This plan confifts of a vocacomposed of two alp abets, German and French, by

> Butha, we may refer our readers to Tooke's View of the Ruffian Empire, vol. iii. p. 172. and his Lift of Catla-

te flauch for dr matic e libitions, no idea was entertained of erecting a Ruff an the tre in the c pital till of Yuroflavl had, in 1719, erected a the tre in his native Ruffig. city, in consequence of the do aht with which he had' man players at the capital. Accordingly, when he returned home, he fitted up a lane i lo n m his father's harfe for a theatre, and painted it harfelf; then muftering a small company, conduit g of his four brothers and fome other young perfons he represente fometimes the facred pieces of the bilhop Dimitri Roltoffschy, fometimes the tragedies of Sum rokof and Lemoneffot, which had just appeared; and at other times, comedies and farces of his own composition. The undertaking of Wolchof met with the greatest encou agement. Not fatisfied with lavishing applause upon him, the neighbouring nobility furnished him in 1750 with the requifite funds for eresting a public theatre, where money was taken for admission. The report of this novelty reached St Petersburgh, and in 1752 the empress Elizabeth fent for Wolchof's company. He was placed, with feveral of his young actors, in the school of the cadets, to improve himfelf in the Ruffian language, and in particular to practife declamation.

At length, in 1756, the first Russian theatre was for-mally established by the exertions of Samarokos, and the actors paid by the court. A German company appeared in 1757, but it was broken up by the arrival of an Italian opera. The opera B ffa formed in 1759 at Mosco had no better fuccess; its failure was favourable to that which remained at St Petersburgh, and which received fo much the more encouragement. The fireworks displayed on the stage after the performance, afforded great amusement to the public, and drew together more company than the music. At the coronation of the empress Catharine II. the Russian court theatre accompanied her to Mosco, but soon returned to St Petersburgh, where it has been fixed ever since. The tafte for dramatic exhibitions had at this period become fo general, that not only the most distinguished fian plays, but Italian, Trench, German, and even Englith theatres arole, and maintained their ground for a longer or shorter time. Catharine the Great, desirous that the people should be kewife participate in this pleathe wood of Brumberg. There both the actors and the plays were perfectly adapted to the populace that heard them. What will feem extraordinary is, that this performance fometimes attracted more diffinguished amateurs; and it is perhaps the only theatre where spectators have been feen in carriages of cour and fix hories. But what is fill more furprising is, to see ectors on obled as a reward for their talents, as was the cire in 1762, with the two brothers Feodor and Gregory Welchof. The firmer died the following year, wille I'll very young. His reputation as a great triple and comic actor will perhaps one day le considerably abate .; he was the real founder of the Russian ita e.

They will likewife remember the fervices of Samarak of as a tragic poet. He first showed of what the Raffian language, before neglected, was usceptible. Born at Mosco in 1727, of noble parents, he zealously devoted himfelf to the fludy of the ancient classic anthe s ard of the French po ts. This it was that roufed

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p. 115. 216

Agricul-

gure.

the fubicat of love. His countrymen admired his fonge, and they were foon in the mouth of every one. Animated by this fuccess, Sumarakof published by degrees his other poetical productions. Tragedies, comedies, pfalms, operas, epitaplis, madrigals, odes, enigmas, elegies, fatires; in a word, every species of composition that poetry is capable of producing, flowed abundantly from his pen, and filled not less than ten octavo volumes. His tragedy Choruf was the first good play in the Russian language. It is written in Alexandrine verses, in rhyme, like his other tragedies, as Hamlet, Sinaw, and Trumor, Ariftona, Semira, Ngaropolk, and Dimifa, the false Dimitri, &cc.; and this first performance shewed, that in the plan, the plot, the character, and style, he had taken Corneille, Racinc, and Voltaire, for his models. Though Sumarakof possessed no very brilliant genius, he had, however, a very happy talent of giving to his tragedies a certain originality, which distinguished them from those of other nations. He acquired the unqualified approbation of his countrymen by the felection of his subjects; almost all of which he took from the Ruffian history, and by the energy and boldness which he gave to his characters. But his fuccess rendered him so haughty and so vain, that he could not endure the mildest criticism. Jealous of the fame acquired by Lomonoffof, another Ruffian poet, he fought every opportunity of discouraging him; and it was a great triumph to Sumarakof to observe that the public fearcely noticed the first dramatic essays of that writer, and that they were foon configned to oblivion.

Sumarakof has likewife written a great number of comedies, in which the manner of Moliere is discoverable. In spite of their original and sometimes lew humour, they were not much liked. The principal are, the Rival Mother and her Daughter; the Imaginary Cuckold: the Malicious Man, &c. He las composed fome operas; among others, Cephalus and Procris, fet Monthly to music by d'Araja, master of the imperial chapel, and Magasine, represented for the first time at St Petersburgh during the carnival of 1755. The performers of both fexes

were children under the age of 14 \*.

The state of agriculture in the Russian empire is of course extremely various. Husbandry is scarcely known in the northern parts of the governments of Olonetz and Archangel; but in the central parts of the empire has been purfued from the earliest ages. The Russian plough is light and fimple, and fcarcely pierces the ground to the depth of two inches; but in the fouthern provinces a heavier kind is used, resembling the Ger--man. In what is called the fummer field the corn is fown and reaped in the same year; while in the winter field the corn is fown in autumn, and the produce reaped in the enfuing fummer. The former yields what is called fummer wheat, and rye, barley, millet, buck-wheat, flax, hemp, peafe, &cc. the latter only wheat or rye; and the winter field is commonly left fallow to the following fpring. In general agriculture is conducted with great negligence, yet the harvefts are abundant. Even in the neighbourhood of St Petersburgh, there are large marshes which might be eafily drained, and converted into f rtile land. In the north, rye is most generally cubicated; but in the middle and fouthern regions, what; in the government of Ekatari offaf the Arnautan wheat is beautiful, the flour yellowish, the return commonly

the rough bullion. Even the embroiderers in gold and filver, though they are not formed into a company, are yet pretty numerous. The works they produce are finished in so high a taste, that quantities of them are fold in the shops that deal in English or French goods, and to which they are not inferior. This bufiness, which is a perpetual fource of profit to a great number of widows and young women of slender incomes, forms a firong objection to the declamations against luxury. Perhaps the remark is not unnecessary, that sham laces and embroidery cannot here be used, even on the stage. Next to these may be ranged the host of milliners, who are mostly of French descent; and here, as in Paris, together with their industry, are endowed with a variety of agreeable Vol., XVIII. Part II.

fifteen fold: nor is Turkish wheat, or maize unknown Russia. in Taurida. Barley is a general production, and is converted into meal, as well as oats, of which a kind of perridge is composed. Rice succeeds well in the vicinity of Killear. Potatoes are unaccountably neglected, except in the north. This invaluable root bears the cold of Archangel, and yields from 30 to 50 fold. Flax and hemp form great objects of Russian cultivation. Madder, woad, and faffron, grow wild in the fouth. The hop is also cultivated, and is found wild near the Uralian chain, and in Taurida. Tobacco has been produced fince the year 1763, chiefly from Turkith and Persian feed. In the gardens are cultivated cabbages (of which a great number is confumed in the form of four-krout). and other plants common in Europe. The government of Molco produces abundance of excellent alparagu. and fugar-melons abound near the Don and the Volga. Large orchards are feen in the middle and fouthern parts of Russia, yet quantities of fruit are imported. What is called the Kireskoi apple often weighs four pounds, is of an agreeable flavour, and will keep a long time. transparent fort from China is also cultivated, called the Nalivni, melting and full of juice. The culture of the vine has been attempted in the fouth, and will certainly fucceed in Taurida. Bees are not known in Siberia, but form an object of attention in the Uralian forests, where proprietors carry their hives to a confiderable height in large trees, and they are fecured from the bear by ingenious contrivances described by Mr Tooke. Mulberry trees and filk are not unknown in the fouth of European Russia, especially in Taurida and the Krimea. In the Krimea, camels are very commonly used for draught, a custom which seems peculiar to that pro-

The arts in Russia have received very considerable State of d : improvement within the last 50 years. Most of the arts.

ans that relate to luxuries are exercifed at St Peters-

burgh, to fuch an extent, and in fuch perfection, as to

render it unnecessary to import these articles from other

countries. The chief works of this kind are those of

gold and filver goods. Here are 44 Russian and 130

foreign, confequently in all 183 workers in gold, fil-

ver, and trinkets, as mafters; and befides them feveral

gilders and filverers. The pomp of the court, and

the luxury of the rich and great, have rendered a taile

in works of this kind to common, and carried the art

itfelf to fuch a pitch, that the most extraordinary objects

of it are here to be met with. Several of them are

wrought in a fort of manufactory; in one fet of premifes

are all the various workmen and shops for completing

the most elegant devices, ornamental and useful, from

africeable and profitable talents. Their numbers are daily increasing; and the greater their multitude, the better they feem to thrive. Their works are neat, elegant, and modifih; but they certainly bear an enormous price: a marchande des modes, if the understand her business, is fure to make a fortune. The generality of them, or completing this sim, return to their native coun-

The conchranker's trade is likewife here in a flourishing flate. The great concerns in which this bufiness is carried on in all its parts, from the simple screw to the finest varnish; the folidity and durability, the elegance and the tafte of the carriages they turn out, the multitude of workmen, and, in thort, the large fums of money that are employed in them, which would otherwise be fent abroad for these vehicles, render this business one of the most confequential of the residence. In the judgement of connoiffeurs, and by the experience of fuch as use them, the carriages made here yield in nothing to those of Paris or London; and in the making of varnish the Russians have improved upon the English: only in point of durability the carriages are faid to fall fhort of those built by the famous workmen of the lastmentioned nation; and the want of dry timber is given as the cause of this failure. With all these advantages, and notwithstanding the great difference in price, increased by the high duties of those carriages which come from abroad, yet these are yearly imported to a great amount. The Ruffians have, however, faccaeded in appropriating the greater part of this bufiness to themfelves. The shape of their carriages is in the height of the mode; the varnish is excellent, and the whole outward appearance elegant and graceful; but for durability, the reputation of the Rullian workmen is inferior to that of the Germans lettled in this country. This cenfure applies to all the Ruffian works of art; their exterior is not to be found fault with, but they are deficient in the folidity which fo much recon mends the work of foreign artifls. The Ruffians have indeed to contend with an obstacle that renders it almost impossible for them to employ fo much time, labour, and expence, on their work, as are requisite for bringing it to the utmost perfection. This is the general prejudice in favour of British commodities, which is nowhere carried to fo high a pitch as it was in Ruffia a few years ago. The Ruffian workman, therefore, naturally endeavours to impose his work upon the customer for foreign ; land dity to outward appearance, for which alone he can expect to be pa'd. A chariot made by a German coachmaker will coff 600 or 700 rubles, whereas a Ruffian chariot can be Lought for half the money; and it fometimes happens that the latter is even more durable than the

Joinery is exercised as well by the Buffans as the Germans : but the cabinet-maker's art, in which the price of the ingenuity far exceeds the value of the materi. Is, is at prefent folely con ned to fome foreigners, among whom the Germans diffinguish themselves to their honour. 'The artiffs' of that nation occasionally execute matterpieces, made at intervals of leifure under the influence of genius and taste, and for which they find a ready fale in the refidence of a great and magnificent court. Thus, not long fince one of these made a cabinet, which for invention, tafle, and excellency of

workmanship, exceeded every thing that had ever been Russia. feen in that way. The price of this piece of art was 7000 rubles; and the artift declared, that with this fum he should not be paid for the years of application he had bestowed upon it. Another monument of German ingenuity is preserved in the Academy of Sciences. in the model of a bridge after a defign of the state coun-fellor Von Gerhard. This bridge, which would be the most magnificent work of the kind, if the possibility of its conflruction could be proved, confifts of 11 arches. a drawbridge for letting veffels pass, distinct raised footways, landing places, &c. The beauty of the model, and the excellency of its execution, leave every thing of the fort very far behind. The empress Catharine II. rewarded the artificer with a prefent of 4000 rubles; and he was ever after employed by the court.

Both these works of art have been, however, far excelled by a writing delk made by Roentgen, a native of Neuwied, and a Moravian, who lived toveral years in St Petersburgh, and embellished the palaces of the emprefs and principal nobility with the aftonishing productions of his art. In this writing defk the genius of the inventor has lavished its riches and its fertility in the greated variety of compositions: all feems the work of inchantment. On opening this amazing desk, in front appears a beautiful group of bas-reliefs in bronze fuperbly gilt; which, by the flightest pressure on a spring, vanishes away, giving place to a magnificent writing flat inlaid with gems. The space above this flat is devoted to the keeting of valuable papers or money. The bold hand that thould dare to invade this foot would immediately be its own betraver; for, at the least touch of the table part, the most charming firains of foft and plaintive music instantly begin to play upon the ear, the organ whence it proceeds occupying the lower part of the desk behind. Several small drawers for holding the materials for writing, &c. likewife flart forward by the pressure of their ferings, and shut again as quickly, without leaving behind a trace of their exitlence. If we would change the table-part of the bureau into a reading defk, from the upper part a board fprings forward, from which, with incredible velocity, all the parts of a commodious and well contrived reading desk expand, and take their proper places. The inventor offered this rare and aftonishing piece to the empress Catharine II. for 20,000 rubles; but the genercusty thought that this fum would be barely fufficient to pay for the workmanthip; the therefore recompended his talents with a farther present of 5000 rubles. Her majesty presented this matchless piece of art to the Academy of Sciences, in whose muscum it still remains \*. \* Tooke's

The Ruffian fleill in architecture is evinced by the Catherine magnificent buildings which adorn the city of St Peterf- II. vol. i. burgh, and more especially by the Taurida palace. P. 50. Here is feen the largest hall of which we have any account. This prodigious hall was built after the unaffilled defign of Prince Potemkin, and unites to a fublime conception, all the graces of faithed talle. It is supported by double rows of coloffal doric pillars, opening on one fide into a vaft pavilion, which forms the emperor's winter garden. This garden is very extensive, the trees chiefly orange, of an enormous fize, funk in the earth in their tubs, with fine mould covering the furface between them. The walks are gravelled; wind and undulate in a very delightful manner; are noatly turfed,

and

+ Carr's

Summer.

Manufac-

p. 331.

tuice.

Ruffix. and lined with roles and other flowers. The whole pavilion is lighted by lofty windows, and from the ceiling are suspended several magnificent lustres of the richest cut glass. In the enormous hall of which this garden Narthern forms a part, Prince Potemkin gave the most sumptuous entertainment ever recorded fince the days of Roman

voluptuoufnefs +. Among the Ruffian manufactories, the imperial effablifhments are fo much diftinguished for the magnitude of their plan, and the richnels and excellence of their productions, that they may enter into competition with the most celebrated institutions of the same kind in any other country. The tapestry manufactory, which weaves both hangings and carpeting, produces fuch excellent work, that better is not to be feen from the Gobelines in Paris. The circumflance that at prefent only native Ruffians are employed, enhances the value and curiofity of the establishment. No where, perhaps, is the progress of the nation in civilization more striking to the foreigner than in the spacious and extensive work rooms of this manufactory. The porcelain manufactory likewife entertains, excepting the modellers and arcanifts, none but Ruffian workmen, amounting in all to the number of 400, and produces ware that, for tafte of deagn and beauty of execution, approaches near to their best patterns. The clay was formerly brought from the Ural, but at prefent it is procured from the Ukraine, and the quartz from the mountains of Olonetz. It is carried on entirely at the expence of government, to which it annually cofts 15,000 rubles in wages, and takes orders. But the price of the porcelain is high; and the general prejudice is not in favour of its durability. The Fayence manufactory has hitherto made only ineffectual attempts to drive out the queen's ware of England; but the neat and elegant chamber-floves made there, give it the consequence of a very useful establishment. Almost all the new built houses are provided with the excellent work of this manufactory, and confiderable orders are executed for the provinces.

A bronze manufactory, which was established for the use of the construction of the Isaak church, but works now for the court and private persons, merits honourable mention, on account of the neatness and taste of its

The stone-cutting works of Peterhof are remarkable for the mechanism of their construction. All the instruments, faws, turning lathes, cutting and polishing engines, are worked by water under the floor of the building. Fifty workmen are here employed in working foreign, and especially Russian forts of stone, into slabs, vales, urns, boxes, columns, and other ornaments of various kinds and magnitudes. Many other imperial fabrics for the use of the army, the mint, &c. are carried on in various places; but the description of them would lead us beyond our limits.

The number of private manufactories at prefent subfifting in St Petersburgh amounts to about 100. The principal materials on which they are employed, fome on a larger and others on a fmaller scale, are leather, paper, gold and filver, fugar, filk, tobacco, diftilled waters, wool, glass, clay, wax, cotton and chintz. Leather, as is well known, is among the most important of their manufactures for the export trade; accordingly here are 16 tan works. The paper manufactories amount to the like number, for hangings and general use.

Twelve gold and filver manufactories fell threads, laces: Ruffla. edgings, fringes, epaulets, &c. There are 8 fugar works; 7 for filk goods, gauze, cloths, hole, stuffs, and feveral others. Here must not be forgotten the great glass-houses fet on foot by Prince Potemkin, where all the various articles for use and ornament, of that material, are made; but particularly that for looking-glaffes, where they are manufactured of fuch extraordinary magnitude and beauty, as to exceed any thing of the kind produced by the famous glass-houses of Murano and Paris. Among many others which we cannot here particularize, are not fewer than five letter founderies, one manufactory for clocks and watches, &c.

In giving a general view of the commerce of the Commerce. Russian empire, it will be necessary that we should first enumerate the exports and imports, with their average amount, and we shall then be able, by comparing these, to form a just estimate of the commercial advantages enjoyed by the empire. Mr Tooke has furnished us with the following statements of the annual exports from St Petersburgh, on an average of ten years, from 1780 to 1790. During that time there were annually ex-

Iron,	2,655,038	puods.
Saltpetre,	19.528	do.
Hemp,	2.498,550	do.
Flax,	792.932	do.
Napkins and linen,	2,907,876	arfelines
Sail cloth and flems,	214,704	nicces.
Cordage,	106.763	
Hemp oil and linfeed oil,	167,432	do.
Linfeed,	192,328	do.
Tobacco,	52,645	do.
Rhubarb,	139	do.
Wheat,	105,136	do.
Rye,	271,976	
Barley,	35,864	do.
Oats,	200,000	do.
Mafts, 1456		
Planks, 1,193,125		
Boards, 85,647		
Rofin,	7,487	do.
Pitch,	9.720	do.
Tar,	37,336	do.
Train oil,	37,336 81,386	do.
Wax,	10,467	do.
Tallow, and tallow candles,	943,618	do.
Potashes,	31,712	do.
Ifinglafs,	5,516	do.
Caviar,	8,958	do.
Horse hair,	5,635	do.
Horse tails, 69,722		
Hogs briftles,	29,110	do.
Russia matts, 106,045	-	
Goats skins, 292,016		
Hides and fole leather,	144,876	do.
Pieces of peltry, 621,327		
Ox tongues, 9982		

Ox bones, 73,350 It will be feen from the above table, that a very great proportion of the exports of Ruffia confifts of raw materials, or of the unmanufactured products of the country. Indeed the employment of the nation, confiderably as it has increased since the time of Peter I. is still directed more to production than to manufacture. This

Rusta. is the natural progrefs of every human fociety advancing towards civilization; and Ruslia must continue to comine itself to the production and to the commerce in products, till the degree of its population, and the employment of its inhabitants, be adequate to the manufacturing

of its raw materials.

The buying up of the foregoing articles, and their conveyance from the remote and midland regions of the empire, form an important branch of the internal com-The greater part of these products is raised on merce. The greater part of these products is raised on the fertile shores of the Volga; and this inestimable river, which, in its course, connects the most distant provinces, is at the same time the channel of business and industry almost to the whole empire. Wherever its water laves the rich and fruitful coaft, diligence and industry have fixed their abode, and its course marks the progress of internal civilization. St Petersburgh, though at a distance of from 5000 to 6000 versts from the rich mines of Siberia, receives, through the medium of this river, the stores of its enormous magazines, the greater part of which are brought thither from the most eaftern diffricts of Siberia, almost entirely by water. The Selenga receives and transfers them to the Baikal, whence they proceed by the Angara to the Yenisiy, and pass from that river along the Oby into the Tobol. Hence they are transported over a tract of about 400 versts by land, to the Tchusiovaiya; from this river into the Kamma, and thence into the Volga, from which they pass through the fluices at Vishney-Volotshok into the Volkhof, and from that river into the Ladoga lake, from which lastly, after having completed a journey through two quarters of the globe, they arrive by the Neva, at the place of their deflination. This aftonishing transport is rendered still more interesting by the confideration that these products, thus conveyed to St Petersburgh from the neighbourhood of the north-eastern ocean, remain here but for a few weeks, for the purpofe of again fetting out on a fecond, and perhaps a longer voyage, or, after being unshipped in distant countries, of returning hither under an altered form, and by a tedious and difficult navigation, coming back to their native land. Thus, how many fcythes of the Siberian boors may have gone this circuitous course!

The number of veilels which, taking the average of ten years, from 1774 to 1784, came by the Ladoga canal to St Peterfburgh, was 2861 barks, 707 half-barks, 508 one mafted veilels, 1113 chaloups; in all 5330. If to thefe we add 6730 floats of balks, we fhall have a

total of 12,078.

The value in money of these products is, by the want which Russia experiences of wrought commodities, and by the increasing luxury, fo much lessened, that the advantage on the balance is proportionally very small. A list of the articles of trade with which St Peterfburgh annually furnishes a part of the empire, would afford matter for the most interesting economical commentary.

The annual imports brought to St Petersburgh, on an average of ten years from 1780 to 1790, will appear from the following table.

			Rubles.
Silken stuffs to th	ne amount of,		2,500,000
Woollen stuffs,	-		2,000,000
Cloth,			2,000,000
Cotton Ruffe,		-	531,000

	Rubles
Silk and cotton Rockings 10,000 dozen pairs.	1
Trinkets.	700,000
Watches, 2,000.	5.71
Hardware,	50,000
Looking glasses, -	50,000
English stone-ware,	43,800
English horses, 250.	127
Coffee, 26,300 poods.	
Sugar, 372,000 poods.	
Tobacco, 5,000 poods.	
Oranges and lemons,	101,500
Fresh fruit,	65,000
Herrings, 14,250 tons.	
Sweet oil,	20,000
Porter and English beer,	262,000
French brandy, 50,000 ankers.	
Champagne and Burgundy, 4000 pipes.	
Other wines, 250,000 hogsheads.	
Mineral waters,	12,000
Paper of different kinds	42,750
Books,	50,150
Copper-plate engravings,	60,200
Alum, 25,500 poods.	
Indigo, 3,830 poods.	10
Cochineal, 1335 poods.	
Glass and glass wares,	64,000
Scythes, 325,000, &c. &c.	

Ruffia.

A confiderable part of these commodities remains for confumption at St Peterburgh, while the rest is conveyed by land carriage to various parts of the empire. Land carriage is preserved on these occasions, as the passage of the river up the stream would be tedious and expensive. The carts or sledges made use of in this conveyance are generally drawn by one horie, and have each its own driver; though sometimes on long journeys there is only one driver to every three carts. They commonly go in caravans of from 2 t to 100 carts.

According to the above tables, we are now enabled to flate the value of the exports and imports, and the balance of trade, at St Peterfburgh, and from these to deduce pretty just occululons with respect to the comerce of the whole empire. By the most probable estimation on this same average of 10 years from 1780 to 1790, the statement will fland as follows.

Imports,		12,238,319 do.
To this profit we coined and uncoi filver, annually it	med gold and	1,023,623 rubles.

coined and uncoined gold and filver, annually imported in the last three years, viz. from 1788 to 1790,

Exports.

337.064 rubles.

13,261,042 rubles,

making a total profit of, 1,36c,687 rubles

Thus the amount of the whole commerce of St Petersburgh during the above period of ten years, was annually 25,837,335 rubles. If we admit, upon the most probable computation, that the whole annual commerce of the empire amounts to about 50,000,000 of rubles, it will follow that more than the half is shared by St Petersburgh.

The

The proportion which the other principal fea ports of the Ruffian empire there in the general commerce, will appear from the following table, drawn up for the year 1703.

4	-173		Rubles
	St Petersburgh, -	-	23,757,95
	Riga,		8,985,92
	Archangel, -	-	2.525,20
	Taganrok, -		428,08
	Eupatoria,	-	334,39
	Narva, -		238,55.
	Otchakof,		209,32
	Pernau,	-	189,13
	Cronstadt,	-	157,36
	Kherson,	-	147,82
	Vyborg,		124,83
	Reval,		109,89
	Theodofia,	-	54,28
	Friedrischshamm, -		31,37
	Kertich,	-	9,96
	Onega,	-	9,55
	Arenfburg,	-	9,34
	Yenikaly, -	-	4,32
	Sevastopol,		- 85

(M) 37,328,192

State of geThe commerce of St Petersburgh is carried on chiefly reral trade by commission in the hands of factors. This class of in Russia merchants, which confilts almost entirely of forcigners, from the most reflectable and confiderable part of the

perfons on the exchange. In the year 1790, of the foreign counting houses, not belonging to the guilds, were 28 English, 7 German, 2 Swifs, 4 Danish, feveral Prussian, 6 Dutch, 4 French, 2 Portuguese, 1 Spanish, and 1 Italian. Besides these, were 12 demantated burghers, and of the first guild 106, with 46 foreign merchants, and 17 belonging to other towns, though several cause themselves to be enrolled in these guilds who are not properly merchants.

The Russian merchants from the interior of the empire repair, at a stated time, to St Petersburgh, where they bargain with the sactors for the sale of their commodities. This done, they enter into contracts to deli-

ver the goods according to the particulars therein fpe- Ruffia. cified, at which time they commonly receive the half or the whole of the purchase-money, though the goods are not to be delivered till the following ipring or fummer by the barks then to come down the Ladoga canal. The quality of the goods is then pronounced on by fworn brackers or forters, according to the kinds mentioned in the contract. The articles of importation are either disposed of by the Russian merchants through the refident factors, or the latter deliver them for fale at foreign markets; in both cases the Russian, to whose order they came, receives them on condition of paying for them by instalments of 6, 12, and more months, The Ruffian merchant, therefore, is paid for his exports beforehand, and buys fuch as are imported on credit; he risks no damages by sea, and is exempted from the tedious transactions of the custom-house, and of loading and unloading.

The clearance of the thips, the transport of the goods into the government warehouses, the packing and unpacking, unloading and dispatching of them,-in a word, the whole of the great buftle attendant on the commerce of a maritime town is principally at Cronstadt, and that part of the refidence called Vaffilioftrof. Here are the exchange, the cuitom-house; and in the vicinity of this ifland, namely on a fmall ifland between that and the Petersburgh island, the hemp warehouses and magazines, in which the riches of fo many countries are bartered and kept. In all the other parts of the city, the tumult of business is so rare and imperceptible, that a stranger who should be suddenly conveyed hither, would never imagine that he was in the chief commercial town, of the Ruffian empire. The opulent merchants have their dwellings and counting houses in the most elegant parts of the town. Their houses, gateways, and courtyards, are not, as in Hamburgh and Riga, blocked up and barricadoed with bales of goods and heaps of timber. Here, besides the counting house, no trace is seen of mercantile affairs. The business at the custom-house is transacted by one of the clerks, and people who are hired for that purpose, called expeditors; and the labour is performed by artelichiki, or porters belonging to a kind of guild.

The factor delivers the imported goods to the Russian merchant,

<sup>(</sup>M) To this table of the principal feaports of Russia, must now be added the town of Odessa, or New Odessa, which 10 years ago was scarcely known as a place of trade, but is now become a populous and important sea-port. Odella is lituated in the government of Katharinollaf, on a fmall gulf of the Black fea, between the rivers Dniepr and Dniestr, 44 miles W. by S. of Otchakof, and nearly 1000 miles S. of St Petersburgh. In 1805, this town contained a population of 10,000 persons, a dits population was yearly increasing. The houses are well built of free stone; the streets are wide, and are dispoted according to a regular plan, but unpaved. The town is fortified, has a fecure and capacious harbour, capable of admitting veffels of confiderable burden, and a mole or quay extending above one fourth of a mile into the fea, susceptible of being converted to the most useful purposes. There are feveral warehouses for the purpose of depositing bonded goods, at times when the market proves unfavourable. The public markets are well supplied, and there are two good theatres, besides other places of public amusement. The fociety of this thriving town is rendered extremely gay by the refidence of the Polish nobles, who refort to it, in great numbers, during the summer, for sea-bathing; and the wise and upright administration of the duke de Richelieu, who was governor in 1805, had added greatly to the prosperity of the place. The merchants are chiefly Germans and Italians, though, at the time we mention, there were established in this port two British houses of respectability. The chief exports from this place are wheat and other grain, with which 1000 ships have been loaded in a fingle year. Among the natural difadvantages of Odelia, must be noticed the bareness and want of wood in its immediate neighbourhood, and the dangerous navigation of the Black fea, from the currents and want of sea room. In point of commercial importance, Odesia ranks at least on an equal footing with Tagenrok. Long. 29°. 24' E. Lat. 46° 28' N. See Macgill's Travels in Turkey, Italy and Ruffa, vol. i. p. 257.

Ruffis merchant, who fends them off, in the manner already mentioned, or retails them on the fpot, in the markets,

ware-houses, and thops. There is no exaggeration in affirming, that it would be difficult to point out a people that have more the fpirit of trade and mercantile industry than the Ruffians. Traffic is their darling pursuit; every common Russian, if he can but by any means fave a trifling fum of money, as it is very pefficile for him to do, by his frugal and poor way of living, tries to become a merchant. This career he usually begins as a rafuefchik or feller of things about the fireets; the profits arifing from this ambulatory trade, and his parfimony, feon enable him to hire a lavka or (hop; where, by lending small sums at large interest, by taking advantage of the course of exchange, and by employing little artifices of trade, he in a fhort time becomes a pretty fubflantial man. He now buys and builds houses and shops, which he either lets to others, or turnishes with goods himfelf, putting in persons to manage them for small wages; begins to launch out into an extensive trade, undertakes podriads, contracts with the crown, deliveries of merchandife, &c. The numerous inflances of the rapid fuccess of fuch people almost exceed all description. By these methods a Russian merchant, named Sava Yacovlof, who died not many years ago, from a hawker of fish about the streets, became a capitalist of several millions of rubles. Many of these favourites of fortune are at first vaffals, who obtain paffes from their landlords, and with these stroll about the towns, in order to feek a better condition of life, as labourers, bricklayers and carpenters, than they could hope to find at the plough reil in the country. Some of them continue, after fortune has railed them, and even with great riches, fill flaves, paying their lord, in proportion to their circumstances, an clerck, or yearly tribute. Among the people of this class at St Petersburgh are many who belong to Count Sheremetof, the richest private man in Russia, and pay him annually for their pass above 1000 rubles. It often happens that these merchants, when even in splendid circumstances, still retain their national habit and their long beard; and it is by no means rare to fee them driving along the streets of the relidence, in this drefs, in the most elegant carriages. From all this it is very remarkable, that extremely few Ruffian houses have fucceeded in getting the foreign commission trade; a firiking proof that there is fomething befides industry and parfimony requifite to mercantile credit, in which the Ruffians must have been hitherto deficient.

Those who wish for a more minute account of the arts, manufactures, commerce and trade of the Ruffian empire, will find ample details on these important subjects, in the third volume of Mr Tooke's View of the Ruffian empire, during the reign of Catharine 11. and to

the close of the eighteenth century.

This vast empire contains within its boundaries, according to Mr Tooke's account, not fewer than 81 diflinct nations, differing from each other in their origin, their language, and their manners. Without enumerating all those tribes, the names of many of which are fearcely known to civilized Europe, we shall only particularize the most remarkable. These are the descendants of the ancient Slavi, comprehending the Russians properly fo called, and the neighbouring Poles; the

Laplanders, the Esthonians, the Livonians, the Permi- Rusha. ans, and the Ottiaks; the numerous Tartar hordes that inhabit the fouthern parts of the empire, comprehending the Mongol Tartars, the Kalmuks, the Derbelans, the Torgots, the Bargaburats; the Khazares, the Kangli or Petchenegans; the Siberian Tartars; the Tartars of the Krimea; the Baschkirs; the Kirgsheles, and the Chevines: the inhabitants of the regions of Mount Caucafus including the Georgians; the Mandthurs, including the Tungules, the Samoiedes, the Kamtfehadales, and the Kozaks.

Of leveral of these nations we have already given an account, in the articles Cossacs, Kamischatka, LAPLAND, POLAND, &c. and we shall here confine ourselves chiefly to the manners and customs of the Ruffians, the Fins, the Samoiedes, the Bafchkirs, the Kozaks, the inhabitants of the Ukraine, and the Krimean

Tratars.

The native Russians are of the middle fize, of a strong General and robust make, and in general extremely hardy of the They have usually a small mouth, with thin lips and Russians, white teeth; little eyes; a low forehead; the note frequently fmall, and turned upwards, and a bufhy beard. The expression of their countenance is grave, but goodnatured. The gait and gestures of the body have often a peculiar and impassioned vivacity, partaking of a certain camplaifance, and engaging manner. They are in general capable of bearing fatigue, want of accommodation and repose, better than the inhabitants of any other European nation. Notwithstanding the feverity of the climate, their discases are few, and there are frequent and remarkable instances of longevity.

With respect to general character, all writers allow that they are ignorant, and often brutal, not eafily roufed to action, and extremely addicted to drunkenness. They are also not remarkable for cleanliness.

Having thus given a general view of the Ruffian character, we must consider a little more particularly that of the feveral classes into which they may be divided, and make a few remarks on their manners and cuitoms.

According to Mr Tooke, there is in Russia at pre-Nobility fent but one order of nobility, though it is not unufual and gentry. with travellers to mention the higher and lower nobility. The title boyar, fo common in the beginning of the 18th century, is now diffied; and those of prince, count, and baron, form the principal diffinctions. The Ruffian and baron, form the principal diffinctions. nobility have always enjoyed certain peculiar rights and privileges, though these have been rather derived from long usage, than sanctioned by any written law. Thus, they can exclusively possess landed estates, though they cannot alienate or fell them. If a nobleman be found guilty of any high crime, he may incur the forfeiture of his estate, his honour, or his life, but he cannot be made a vassal to the crown. The pobility can arbitrarily impole taxes and fervices on their valials, and may inflict on them any corporal punishment short of death, and they are not responsible for their vassals. A nobleman cannot be compelled to raife recruits against his will, or to build a magazine or barrack for the crown; his perfon and landed property are exempted from taxation; he can hold affemblies, fet up manufactories, and open mines on his own ground, without paying tribute to the crown. He is, however, bound to perfonal fervice in war. The Ruslian nobility live in great style, and sup-Fins, under which denomination we may include the port a confiderable establishment of fervants. As part of

Nations composing the Ruffian empire.

Ruffa of this chabilifument, they have generally a dwarf and a fool. These dwarfs are the pages and playthings of the great, and at almost all entertainments, stand for hours at their lord's chair, holding his fauff box, or awaiting his commands.

The tzar Alexei alborred the personal abasement of the inferior classes to their superiors, which he would not accest when exhibited to himfelf; and it may appear Jurning that Peter I, who despised mere ceremonials, should have encouraged every extravagance of this kind. In a few years of his reign, the beautiful simplicity of defignation and address which his father had encouraged was forgotten, and the camberfome and almost ineffable titles which diffrace the little courts of Germany were crowded into the language of Russia. He enjoined the lowest order of gentlemen to be addressed by the phrase, your respectable birth; the next rank, by your lish good birth; the third, your excellence; the fourth, your high excellence; then came your brilliancy, and high brilliancy; highness and majefly were reserved

for the grand duke and the emperor.

Thefe titles and modes of address were ordered with all the regularity of the manual exercise; and the man who should omit any of them when speaking to his function, might be lawfully beaten by the offended boyar. Before this period, it was polite and courtly to frenk to every man, even the hell apparent, by adding his father's nome to his own; and to the grand duke, Paul Petrovitch, would have been perfectly respectful. or a fingle word fignifying dear father, when he was not named. Though pempous titles were unknown among them before the era of Peter, the fabordination of ranks was more complete than in any other European nation; but with this final city peculiar to them and the Poles, that they had but three ranks, the fovereign, the nobleffe or genery, and the ferfs. It was not till late'v that the mercantile rank formed any dilinction; and that diffinction is no more than the freedom of the perfon, which was formerly a transferable commodity belonging to the boyar. Notwithstanding this fireplicity, a person ho! ling an inferior office was not ferents, but flave; and the legal word for a petition in form was tohelobini; which fignifies a beating with the forchead. or fliring the ground with the forehead, which was actually done. The father of Alexei abolished the practice; but at this day, when a Russian petitions you, he touches his forehead with his friger; and if he be veryearnest, be then puts his finger to the ground.

The Russian nobles formerly wore long beards, and long robes with firait fixeves dangling down to their ancles; their collars and fairts were generally wrought with filk of dia rent colours; in place of hats, they covered their heads with furred cars, and inftend of thore, were red or yellow leathern building. The dreft of the women nearly resembled that of the other sex, with this difference, that their garments were loofer, their caps fantafical, and their fluft fleeves three or four ells in length, gathered up in folds from the shoulder to the fore arm. At prefent, however, the French fallions prevail among the better fort throughout all Russia.

The common people are generally tall, healthy, and robust, patient of cold and hunger, inured to hardships, and remarkably capable of bearing the most fudden transition from the estremes of hot or cold weather,

Nothing is more cull mary than to fee a Ruffian, who Ruffia, is overheated and sweating at every pore, thrip himself naked, and plunge into a river; nay, when their pores are all opened in the hot bath, to which they have daily recourse, they either practise this immersion, or subject themselves to a discharge of some pailfuls of cold water. This is the cuftom of both men and women, who enter the baths promifecoully, and appear naked to each other. without fixuale or hefitation.

A Ruffian will fubfift for many days on a little oatmeal and water, and even raw-roots; an onion is a regald; but the food they generally use in their journeys is a kind of rye-bread, cut into imall fquare pieces, and dried again in the oven. Their, when they are hungry, they foak in water, and eat as a very comfortable repaft. Both fexes are remarkably healthful and robuilt, and accustom themselves to sleep every day after

dinner.

The Ruffian women are remarkably fair, comely, firong, and well-shaped, obedient to their lordly husbands, and patient under discipline; they are even faid to be fund of correction, which they confider as an infallible mark of their hufbands conjugal affection; and they pout and pine if it is withheld, as if they thought themselves treated with contempt and difregard. Of this neglect, however, they have very little cause to complain; the Russian husband being very well dispofed, by nature and inebriation, to exert his arbitrary

Such is the flavery in which the Ruffians of both fexes are kept by their parents, their pations, and the emperor, that they are not allowed to dispute any match that may be provided for them by these directors, however difagreeable or edious it may be. Officers of the greatest rank in the army, both natives and foreigners, have been faddled with wives by the fovereign in this arbitrary manner. A great general fome time ago deceased, who was a native of Britain, having been pressed by Elizabeth to marry one of her ludies, faved himfelf from a very difagreeable marriage, only by pleading the

In italia, the authority of parents over their children Authority is almost as great as it was among the ancient Romans, of parents and is often exercised with equal severity. Should a over their father, in punishing his fon for a fault, be the imme-children, diate caule of his death, he could not be called to account for his conduct; he would have done nothing but what the law authorised im to do. Nor does this legal tyranny cease with the maturity of children; it continues while they remain in their fitter's fam'ly, and is often exerted in the most indecent manner. It was not uncommon, even in St Petersburgh, to see a lady of the bighest rank, and in all the pomp and pride of youthful beauty, standing in the court-yard with her back bare, exposed to the whip of her father's servents. And fo little difgrace is attached to this punishment, that the fame lady would fit down at table with her father and his guests immediately after she had suffered her slogging, provided its severity had not confined her to bed. In fuperilitious notions and practices, the common Their fu-

Rustians are by no means behind their neighbours. Most persisionof them believe in ghofts, apparitions, and hologoblins; and few of them are fond of inhabiting the houses of near relatives deceased. Hence it happens that many houses are left to fall into ruins, or fold to strangers at a

224 Common Feople.

Ruffie. very cheap rate. Even a house whose owner has fallen into poverty, or has otherwise become unfortunate, will not easily find a purchaser, because it has ejected its master. On the Thursday before Whitsuntide, the young women celebrate the festival of the Slavonian goddess Lada, and her fon Dida, with finging and dancing; and at this time they decorate a birch buth with garlands and ribbons and then throwing it with great folemnity into a river, predict from the figures the ribbons assume in the current, whom they finall wed, and what finall be their fate in marriage. On the 5th of January they go by night into a crois street or a cellar, and fancy they hear in every found the prediction of their deftiny. This is called fluschit, to go a hearing. The day after Christmas is folemnized by the midwives, because the Virgin Mary's midwife was materially concerned in the redemption of the world. In many places they believe that fome witches, by their incantations, have the power of depriving the female fex of their privilege of becoming mothers, but that others can preserve it inviolable; of course brides always apply to the latter. Their domovois are our fairies, and their vodovois our water goblins, or wizards of the stream.

The enjoyment of the table is carried to greater excels in Ruffia than in almost any other country. What has a very curious appearance to a foreigner is, that in fummer a course of hot meats, and another of iced meats of the fame kind, are very commonly ferved up together. Their cookery is in general commendable, but their cooks are chiefly from foreign countries. It is usual before dinner to take, in the drawing room, a repast confifting of favoury meats, accompanied with wines and cordials; and at these repasts it is not unusual for some of the party to forget they have to dine afterwards; nor is it thought any thing remarkable to fee a person enter

the dining-room in a state of intoxication.

A Ruffian dinner among the politer classes, is thus described by Sir John Carr. It is seldom later than three o'clock. Upon a fide-board in the drawing-room is always placed a table filled with fish, meats, and faufages, falted, pickled, and fmoked; bread and butter, and liqueurs. These airy nothings are mere running footmen of the dinner, which is in the following order :-A cold difh, generally of sturgeon or some other fish, precedes, followed by foup, a number of made dishes, a profusion of roasted and boiled meats, among which the Ukraine beef is diftinguishable, and abundance of excellent vegetables; then pastry and a desfert of very fine melons, and four flavourless wall fruit. The table is covered with a variety of wines, and excellent ale or beer. The mafter of the house, or the cook, carves; and flices of every dish are handed round to the guess. Among the most gratifying dishes in summer, is a large vafe of ice broken into fmall pieces, with which the guests cool their wine and beer. In the yard of every Rustian house, there are two large cellars, one warm for winter, and the other filled with ice for the fummer. The foup, and coffce, and chocolate, are frequently iced. After a few glaffes of delicious wines, the lady of the house usually rifes, and the company retires to coffee in the drawing-room.

Their common drink is called quash, and is made by pouring hot water upon rve bread. This is left to ferment, and foon produces a drink, which though at first rdifagreeable, becomes afterwards fufficiently grateful to the palate. Mond is also a common beverage; but the Ruffie native malt liquors are very bad. The Russians confume a great quantity of tea, and are faid by Mr Macgill to have the best which is drunk in Europe. This is called the flower of tea, and is brought over land by the Chinese merchants who come to the Rushian fairs, and exchange their tea for other articles used in their

The amusements of the native Russians consist prin- Amusecipally of finging, dancing, drafts, and fome other ments. games; foot-ball, and more especially swinging. The fwing is every where, and at all times, used as an amusement by perfons of rank and condition; but at Easter it is the grand diversion of the holidays. The fwings may be divided into three forts; some have a vibrating motion, and these are the most common, well known in Germany and Britain; others are turned round in a perpendicular, and others again in a horizontal direction. The first of these latter species confists of two high posts, on the top of which rests an axle, having two pairs of poles fixed in its centre. Each of these pairs of poles has at its two extremities a feat suspended from a moveable axis. The proprietor, by turning the axis that rests on the two posts, makes all the eight seats go round in a perpendicular circle, fo that they alternately almost touch the ground, and then are mounted aloft in the The last kind is composed of chairs, chariots, fledges, wooden horfes, fwans, goats, &c. fastened at the extremities of long poles, and forced rapidly round in a horizontal circle. In the easter holidays all kinds of machines are fet up in the public fquares; and as the common people are remarkably fond of the diversion, it is a joyful fcason to the populace, who then devote themselves without restraint to their national propensity to mirth. The numerous concourse of persons of all ranks and descriptions, who parade in a circle with their elegant and fumptuous equipages, the honest merriment of the crowd, the hearty participation with which they enter into these amusements, the striking and singular appearances of the exhibition itself, give this popular festivity a character so peculiar, that the man of observation, who will take pains to fludy the nation even on this humorous flage, may catch very powerful strokes of the pencil for his delineation. He will not fail to different he general gaiety with which old and young, children and graybeards, are possessed, and which is here not kindled for a transient moment, but is supported by every pleafant occasion, and placed in its most agreeable light. He will remark the spirit of urbanity and gallantry, appearing in a thousand little ways, as by no means an indifferent feature in the national character Here a couple of beggars with their clothes in tatters, are faluting one another in the most decent and respectful manner; a long ftring of questions about their welfare opens the dialogue, which likewife concludes with a polite embrace. Yonder a young fellow is offering to hand his girl, whose cheeks are glowing with paint and brandy, into a feat in which they are both presently to be canted up in the air; and even in those lofty regions his tendernels never forfakes him. Only one flep farther, and the eye is attracted by different fcenes. The same people who were but now greeting each other in friendly terms, are engaged in a violent quarrel, exhausting the enormous store of abusive epithets with which the Ruffian tongue abounds. All that can de-

Diet.

Modes of

Finns.

Ruffia grade and exalperate a human being finds its expression in this energetic language; yet with this tehemence of fpeech they never lofe their temper.

While they are making the most furious gestures. fraining their throats to the utmost ritch, loading one another with the most liberal profusion of infults, there is not the least danger that they should proceed to blows. The police, well knowing that with all this noise no lives will be loft, cools the heated parties by a plentiful thower from the fire engine, kept on the foot for that purpole, and which is found to be of fuch excellent fervice, that one of them is always at hand wherever a concourse of people is expected. Now, all at once the firife is over, the two vagabonds are running arm in arm to the nearest post house, to ratify their renovated friendthip over a glass of brandy.

In the vicinity of the fivings, booths are usually run up with boards, in which low comedies are performed. Each representation lasts about half an hour, and the price of admittance is very trifling; but as the confluence of the people is extremely great, and the acting goes on the whole day, the profits are always confiderable both to the managers and to the performers, who

fliare the amount between them.

The principal modes of conveyance in Ruffia, are by conveyance means of fledges and drojekas. This latter carriage is, we believe, peculiar to Ruffia, and is employed in the large towns like our hackney coaches. It is described by Mr Porter as a fort of parallelogram with four leathern wings projecting at no great distance from its body, and paling in a femicircular line towards the ground. It runs on four low wheels, and is generally furnished with two feats, placed in such a manner, that two persons can fit sideways, but with their backs to each other. In some of these carriages the feat is so formed, that the occupier fits as on a faddle, and for his better fecurity holds by the driver's fash.

The Russians are fond of the bagpipe, and have a Mulic and ki d of violin, with a large belly like that of a lute; dancing. but their mufic is very barbarous and defective. Yet there are public schools in which the children are taught

to fing. The very beggars ask alms in a whining cadence, and ridiculous fort of recitative. A Ruffian ambaffador at the Hague, having been regaled with the best concert of vocal and instrumental music that could be procured, was asked how he liked the enter ainment : he replied, Perfectly well; the beggars in my country fing just in the same manner. The warlike music of the Russians confifts in kettledrums and trumpets: they likewife use hunting horns; but they are not at all expert in the performance. It has been faid, that the Ruffians think it beneath them to dance, which may have been the case formerly; but at Petersburgh dancing is at present much relithed, and a minuet is no where fo gracefully performed in Europe as by the fashionable people in that metropolis.

The Finns are rather of a short stature, have a flat face with funk cheeks, dark gray eyes, a thin beard, tawney hair, and a fallow complexion. They are all of a strong make, and were it not for their excessive propensity to drinking spirituous liquors, would be remarkably healthy. They are univerfally great eaters, and in spite of their strong passion for brandy, not unfrequently attain to a very advanced age. Their dress confifts of woollen kaftans, worn fhort to the knee,

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with loofe black pantaloons and boots. Now and then, Ruffia. by way of extraordinary finery, a fort of embroidered decoration adorns their upper garments. Their caps are unvaryingly of the fame thape, round, with a broad rim turned up on all fides round the crown.

Mr Acerbi has given the following characteritic ac-

count of the Finnilli peafants.

" The very beggars in other countries live in eafe. and even luxury," fays Mr Acerbi, " compared to the peafantry of the north; but the northern peafantry are a far happier, and far more respectable race, than the poor of more civilized countries; they are industrious, and their industry can always procure enough to support life with comfort; that abject degree of poverty is not known there, which deftroys industry by deftroying hope. They have a curious mode of filling : when the fisherman observes a fith under the ice, in shallow water, he firikes the ice forcibly, immediately over the fifth, with a club, and the fifth, flupefied by the blow, rifes to the furface. They use a spear to kill the bear, or, as they call him, the old man in the pelice : a cross bar is fixed about a foot from the point of the spear, as otherwise the bear might fall upon the fpeariman; the beaft. feeling himfelf wounded, holds the focar fast, and presses it more deeply into the wound. The proverbs of the Finlanders bear testimony to their industry and hospita-

Their poetry is alliterative, without ahyme. frecimens translated by Mr Acerbi are very interesting, poetry. The following was composed by a Finnish pealant upon

his brother's death.

"The word went forth from heaven, from Him in whose hands are all things. Come hither, I will make thee my friend; approach, for thou thalt henceforth be my champion. Come down from the high hill; leave the feat of forrow behind thee; enough haft thou fuffered; the tears thou half flied are fufficient; thou half felt pain and difease; the hour of thy deliverance is come; thou art let free from evil days; peace hasteneth to meet thee, relief from grief to come.

" Thus went he out to his maker: he entered into glory; he halfened to extreme blifs; he departed to enjoy liberty; he quitted a life of forrow; he left the

habitations of the earth."

The Finns have many Runic verses which are supposed to contain healing powers, and these are styled fanat, or charms; as mandanfanat, charms for the bite of a ferpent; tulenfanat, chaims to cure scalds or burns;

raudunfunat, charms to heal wounds, &c.

"Thefe charms are very numerous, and though not much esteemed by the inhabitants of the sea coast, are in the highest repute amongst those who dwell in the interior and mountainous parts of the country. This is likely to continue to be the cafe as long as the practice of physic remains in the hands of itinerant empirics and ignorant old women. They jointly with charms use some simple remedies, as falt, milk, brandy, lard, &cc. but attribute the cures they perform to the superior esticacy of the verses they fing during the application; the chief theory and foundation of their practice confifting in a belief with which too they impress their patients very firongly, that their complaints are occasioned by witcheraft, and can only be removed by means of thefe

" Of these charms it is not easy to obtain specimens,

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Ruffia. as they who are veried in them are unwilling to communicate them to literary men, especially when they see them prepare to commit them to writing, as they fear to be reported to the magistrate or clergyman, and pumined, or at least chided, for their superstition. It is a pity the clergymen will not be at the pains of difcrimimating betwixt the verses which are the production of superfittion, and those of an innocent nature. So far are they from attending to this particular, that they do their utmost to discourage Runic poetry in general, and without exception; which, partly on that account, and more owing to the natural changes which time brings about in all human affairs, is rapidly falling into difule, and in a few years will be found only in the relations of travellers \*."

\* Acerbi's Travels. 233 Samoredes.

The Samoiedes are shorter and thicker than the Laplanders; in other respects they resemble them very much. They have little hair, and cover their heads with a fur cap. Their fkin coat reaches to their knees, and is fastened round the waist with a girdle. They have breeches, shoes, and stockings, made of the same materials as their coats. Over their shoulders they throw a black bear's fkin, with the feet hanging at the four corners. This cloak is placed obliquely on the left fide, that the right arm may be more at liberty to use their bows and arrows. On their feet they wear a kind of skates two feet long, with which they slide with prodigious fwiftness over the frozen fnow, that inceffantly covers their mountains.

The women are capable of enduring great fatigue, and affiduously breed up their children in the use of the how, which they handle with great dexterity. They are dreffed nearly like the men, except about the head. A lock of twifted hair hangs down to their shoulders, at the extremity of which is a knot formed of a long flip of bark, which reaches to their heels. In this confills their finery. They hunt with their hufbands, and are equally expert in the use of their weapons. Conjugal fidelity is strictly observed, and the punishment annexed to a violation of it on either fide is death.

The Samoiedes have no knowledge of the Supreme Being; they use, as idols, the heads of beasts of prey, particularly those of bears, which they put up in the woods, and fervently worship. Their priests, whom · they call Shamanns, are chosen from among fuch as are advanced in years; and they imagine that these can reveal to them the will of their gods, foretel future events, and perform all kinds of magical operations.

Samoiedes, in the Russian language, fignifies men-eaters, a term which denotes the barbarity of the people; but there is no good reason for believing that the term can be applied to them in its worst acceptation. They probably derived the name from the custom they have of eating their meat without dreffing, and not from the habit of devouring their deceased friends or prisoners, of which they have been accused.

The Samoiedes, like the Laplanders, live in tents or caverns, according to the feafon of the year. Like the Olliaks and Tungufians, they are exceedingly dirty in their persons and habits. Their marriages are attended with no other ceremony than a verbal agreement. They call their new-born children by the name of the first animal they meet; or if they happen to meet a relation, he generally names the child. Their priests use a tabor, or an inftrument very much like it, either to make their

conjugations, or to what them in those arts by which Ruffia. they delude their country men.

The Balchkirs form one of the military hordes of Balchkirs. wandering Tartars, which formerly roamed about the fouthern part of Siberia, under the conduct of their chiefs, and fubfitted principally by plunder. They now conflitute a part of the irregular troops of the Ruffian empire, and have taken up their refidence among the Ural mountains, extending to the Tartar deferts on the borders of the rivers Oby and Tobol. In the year 1770. they confilled of about 27,000 families.

Every tribe of the Balchkirs chooses its own ruler. who is called flarchirfis. The huts which they inhabit during winter are built in the falhion of those in the Ruffian villages, having a chimney of a conical form of about five feet high in the middle of the principal apartment, which is furnished with large benches, nsed either as feats or couches. The house is usually filled with fanoke, and in its whole economy fecms very much to refemble an Irith cabin. In furnmer the Bafchkirs inhabit tents covered with felt, and furnished like the huts with divisions and a chimney in the centre. A fummer encampment never exceeds 20 tents, but a winter village contains from 10 to 50 huts.

The most opulent of these tribes are those which dwell on the east of the Ural chain. Some individuals of this nation possels not fewer than 4000 horses, who fatten on the richest pastures in the valley till the month of June, when they are compelled by wafps and other infects to feek for shelter in the mountains. The principal wealth of this people confifts of their flocks and

herds; but it is chiefly from their horfes they derive the necessaries of life, milk, meat, vessels, and garments. They have fome knowledge of tillage, but as they fow but little grain, their harvests are very inadequate to their wants; and in general they prefer a paftoral life. Much of their traffic confifts of honey. They apply with great fuccess to the cultivation of bees, making their hives in hollow trees, as a greater protection from accidents and wild animals. Frequently one man is the polleflor of 500 or 600 of these industrious commoners.

The women employ themselves in weaving, dyeing and fulling their narrow coarse cloths, and they also make the clothes of the whole family, while the men of the lower classes follow the more laborious occupation of fabricating felts, and tanning leather. Both fexes use linen from the down of nettles, of which they make wide drawers descending to the ancles. On their feet they wear the usual eastern slipper, and by way of outer garment, a long gown generally of a red colour bordered with fur, and fastened round the waist with a girdle, in which is hung the dagger or feymeter. The lower ranks in winter wear a pelice of sheep skin, while the higher orders wear a horfe's fkin, in fuch a manner that the mane flows down their backs, and waves in the wind. The head is covered with a conical cloth cap, fometimes ornamented with fur, and fometimes plain. The garments of the women, among the fuperior clailes, are of filk, buttoned before as high as the neck, and fastened by a broad steel girdle. Round their hosoms and throats they wear a thawl hung with firings of beads, shells, and coins:

Their diversions are confined to religious ceremonies; and a few peculiar feltivals, and confift of finging, dan-

and Poles.

Rullis cing, and horfe-racing. In their fongs they enumerate the achievements of their anceflors, or of themselves, and fometimes alternate thefe epic poems with love ditties. These fongs are always accompanied with appropriate gettures. In their dances they make firange gefticulations, but the motion of the feet is very gentle; and the women, while using these, hold a long filk handkerchief in their hand, which they wave about in a wanton manner.

> In their entertainments, the aged occupy feats of honour; and when frangers are introduced, thefe are placed next the old men. The language of the Bafchkirs is a Tartar dialect, but different from that which is fpoken in the diffrict of Kazan. Their religion is Mahometan, and they are much addicted to all the supersti-

tions of the eaft.

The Bafchkir foldiers are dexterous horsemen, and kilful in managing the bow. They are usually cased in thirts of mail, with thining helmets. Their ordinary tyeapons are a fword, a fhort bow, and a quiver containing 24 arrows. They also carry a long pike, adorned at the top with various coloured pendants. Their horses are small, and though bardy and active, are not at all superior in point of appearance to those of the

The leaders of the Baschkirs have a very superb and warlike appearance. They wear a shirt of mail and a Reel helmet like the common men, but over the shirt is thrown a fearlet kaftan flowing from the floulders down over the backs of their horses. They also wear large fearlet trowfers, and large boots of yellow leather. The faddle covering of the horses usually confists of a leopard's fkin. See Porter's Travels, vol. ii. Plate at

p. 59. Under the article Cossacs, we have enumerated the feveral tribes of these people, and have made some remarks on their manners and customs; but as the Don Kozaks form a confiderable part of the Ruffian armies, we shall here add a few remarks on these people, consi-

dered in a military capacity.

The common men among these troops have no pay, even in time of war, and their officers have but a very moderate allowance. They are obliged to provide themselves with horses, arms and clothing. Nothing is furnished them except oatmeal and flour. Frequently even nothing is given them but a forry bifcuit ( fukare. ) Thence those hideous tatters with which most of them are covered, when they have no opportunity of plundering, and which give them the appearance of beggars and robbers; thence the ruinous condition of their arms, and the bad state of their horses; thence the murders, robberies, fires, and rapine which every where mark their paffage, and which, doubtlefs, would not be fo frequent, if government, less avaricious and less cruel, provided them with even the bare necessaries of life.

They are armed with a pike from 15 to 18 feet in length, which they hold vertically, refting on the right firrup, and which they couch at the moment of attack. The Kozak makes a very dexterous use of this pike for leaping on his horse. With the left hand he grasps the mane, and as foon as he has his foot in the ftirrup, inflead of placing his right hand on the crupper, as is generally done; the pike which he holds ferves him as a prop; he makes a fpring, and in the twinkling of an eye, he is in the faddle. The Kozaks have no fours; a

large whip fulpended from the left wrift fupplying their Ruffe. place. Besides their pike, they commonly have a bad fabre, which they neither like, nor well know how to make use of; one or two pistols in a bad condition, and a carbine which they feldom employ.

Their horses are small, lean and fliff, by no means capable of a great effort, but indefatigable. Bred in the sleppes, they are infensible to the inclemency of the feafons; accustomed to endure hunger and thirst; in a word, not unlike their masters. A Kozak will feldom venture to expose himself against a Turk or a Tartar, of whom he commonly has neither the address nor the vigour; besides his horse is neither sufficiently supple, nor fwift, nor fure-footed; but in the end his obstinate perseverance will tire the most active horseman, and harafs the most frisky steed, especially if it be in a large plain, after a defeat. All the Kozaks, however, are not badly armed and ill mounted. Several of them keep the arms and horses which they may have been able to obtain by conquest in a campaign; but, in general, they had rather fell them, preferring their patient ponies and their light pikes. As for their officers, they are almost all well mounted, and many of them have good and magnificent arms, refembling in that respect the Turks

The Kozaks, if we except the Tschugnief brigade, never fight in a line. They are feattered by platoons, at the head, on the flanks, and in the rear of the army, fometimes at confiderable distances. They do the duty of advanced guards, videttes, and patroles. Their activity and vigilance are incredible. They creep and ferret every where with a boldness and address of which none but those who have feen them can obtain an idea. Their numerous swarms form, as it were, an atmosphere round the camps and armies on a march, which they fecure from all furprife, and from every unferefeen attack. Nothing cfcapes their piercing and experienced eye;

they divine, as if by inflinct, the places fit for ambufcades; they read on the trodden grafs the number of men and horses that have passed; and from the traces, more or less recent, they know how to calculate the time of their paffing. A bloodhound follows not better the fcent of his game. In the immense plains from Azof to the Danube, in those monotonous solitudes covered with tufted and waving grafs, where the eye meets with no tree, no object that can obstruct it, and whose melancholy uniformity is only now and then interrupted by infectious bogs and quagmires, torrents overgrown with briars, and infulated hillocks, the ancient graves of unknown generations; in those deserts, in thort, the roaming Kozak never miffes his way. By night, the stars direct his folitary courfe. If the fky is clear, he alights from his horfe at the first lurgan that chance throws in his way; through a long habit of exercifing his fight in the dark, or even by the help of feeling alone, he distinguishes the herbs and plants which thrive best on the declivity of the hillock expeded to the north or to the fouth. He repeats this examination as frequently as the opportunity offers, and, in this manner, he follows or finds again the direction which he ought to take for regaining his camp, his troop, or his dwelling, or any other place to which he is bound. By day, the fun is

Don Kosaks.

his furest guide; the breath of the winds, of which he

by. As a new species of augury, the Kozak not unwillingly interrogates the birds; their number, their species, their flight, their cry, indicate to him the proximity of a fpring, a rivulet, or a pool; a habitation, a herd, or an army. Those clouds of Kozaks which encompals the Ruilian armies for the fafety of their encampments, or of their marches, are not less formidable to the enemy. Their resiltless vigilance, their rath curiofity, their fudden attacks, alarm him, harafs him inceffantly, and inceffantly watch and controll bis motions. In general action, the Kozak's commonly keep Memoirs of the court at a diftance, and are spectators of the battle; they wait of Peterf- for its iffue, in order to take to flight, or to fet out in purinit of the vanquished, among whom their long pike

makes a great flaughter \*. To the account given under Cossacs, of the inhabitants of the Ukraine, we may add the following particulars, which, though anonymous, appear to be accurate-

\* Secret

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Kozaks of

the Uk-

waine.

When a young woman, in the Ukraine, feels a tender passion for a young man, she goes to his parents, and fays to him, " Pomagac-bog," (be you bleffed of God). She then fits down, and addresting herfelf to the object of her affection, makes her declaration of love in the following terms: " Ivan, (Theodore or whatever elfe may be his name) the goodness I see written in your countenance, is a fusicient affurance to me, that you are capable of ruling and loving a wife; and your excellent qualities encourage me to hope, that you will make a good gofpodar (husband or master). It is in this belief, that I have taken the resolution to come and beg you, with all due humility, to accept me for your spouse." She afterwards addresses the father and mother in words to the same effect; and solicits them earnestly to consent to the marriage. If the meets with a refufal, or apology, the antivers, that the will not quit the house, till the shall have married the object of her love." Sometimes the parents perfift in their refufal; but if the girl be obstinate, and have patience to stay a few days or weeks in the house, they are not only forced to give their confent, but frequently to perfuade their fon to marry her. Besides, the young man is generally moved by her perseverance and affection, and gradually accustoms himself to the idea of making her his wife; fo that the young female peafants of the Ukraine feldom fail of being provided with a husband to their mind, if they do but possess a tolerable share of constancy. There is no fear of their being obliged to leave the house of the youth whom they prefer; the parents never think of employing force, because they believe, that by so doing, they should draw down the vengeance of heaven upon their heads; and to this confideration is added, the fear of offending the girl's family, who would not fail to refent fuch behaviour as a grievous affront.

It fometimes happens, that the lord of a village in the Ukraine, gives the penfants a dance before his door, and joins in it himfelf, with his wives and children, (Let it be observed, that most of the villages in the Ukraine are forrounded with thick woods, in which the peafantry conceal themselves in the fummer, when afraid of a vifit from the Tartars). Although the peafants are ferfs, they have possessed from time immemorial, the right of carrying off any young woman they like from the dance, not excepting even the daughters of their lords, provided they do it with inflicient dexterity; for otherwise their lives pay the forfeit of their temerity, On these occasions, they watch an opportunity of seizing their prey, and haften to conceal themselves in the thickest parts of the neighbouring woods. If they can find means to flay there 24 hours undiscovered, the rape remains unpunished, and they are at liberty to marry the young woman, provided the contents, but if taken before that time expires, they are beheaded without farther ceremony.

On Eafter Monday, early in the morning, the young men affemble in the streets, lay hold of all the young girls they meet with, and pour five or fix buckets of water on their heads. This foort is not permitted later than 12 o'clock. The day after, the girls take their revenge; but as they are inferior in strength, they are forced to have recourse to stratagem. They hide themfelves five or fix in a house, with each a jug of water in her hand, a little girl flanding fentry, and giving the figural, when the fees a young man approach. In an inflant the others rulh out; furround him with loud acclamations; two or three of the strongest lay hold on him; the neighbouring detachments arrive, and the poor devil is almost drowned with the torients of water that are

poured upon his head.

The men have also another amusement on Easter Monday. They meet in the morning, and go in a body to the lord of the manor, to whom they make a present of fowls, and other poultry. The lord, in return, knocks out the head of a cask of brandy, places it in the court-yard, and ranges the peafants around. He then takes a large ladle, fills it, and drinks to the eldest of the company, who pledges him; and thus it passes from hand to hand, and from mouth to mouth, till the cask is empty. If this happens at an early hour, the lord fends for another, which is treated in the same way; for he is bound to entertain the peafants till funfet. But as foon as the fun finks beneath the horizon, the figual of retreat is given; and those who are able walk away. \* Monthly The rest pass the night in the open air; and in this Magazine, manner, some have been known to sleep for upwards of vol. in p.

24 hours \*. We have already given a general account of the Kri-Tartars of mea and its inhabitants. See CRIMEA (0). We shall the Krimea.

The only entrance into the Krimea by land is over a bridge, and through an arched stone gate, both erected at the fide of the fortrefs. Contiguous to the gate, in an eaftern direction, and within the precincts of the fosse, is the fortress of Perckop. This is a model of irregular fortification, which, together with the walls of the deep ditch;

<sup>(</sup>o) The ishmus by which the peninsula of the Krimea is connected with the main land, is commanded by a fortress called by the Ruffians Perekop, i. e. an entrenchment of the ifthmus, and by the Tartars, Or-Kapi, the gate of the fortification. As this fortress has been mentioned only in a cursory manner, in our article CRI-MEA; and as, from its commanding the entrance into the Krimea from the main land, it is a place of great importance, we shall here give some account of it from the travels of Profestor Pallas.

The Krimea is inhabited by three classes of Tartars, The drift of these are called Nagays, and are a remnant of that numerous horde which was lately diffinguished by the name of Kubanian Tartars, as they formerly occuried the district of Kuban, to the ent of the fea of Azof. These Nagays, like their kin men in the neighbouchood of Mount Caucafus, live in small buts conitructed of felt, the largest of which are from 4 to 55 archines in d'ameter, and cannot be taken to pieces, but are placed by two men on carriages, and thus removed from one place to another. They have a vent hole for an outlet to the fmoke; and to this is applied a cover with a handle, from which a line is fulpe de l, for the purpole of occasionally closing and opening the aperture. Mats of reeds and wooden work, much withered and fmoked, are employed to line the fides of the huts; for as thele tribes are deltitute of timber, they are obliged to purchase it from Taurida at a considerable expence.

The dre's of the men conflits of fixep fkins, and a coarle kind of cloth, with imall round caps, made of lamb fkins, and reaching no lower than the ears. The wamen are drelled in clofe veits, over which is worn a loofe flowing gown with hanging fleeves. The girls generally wear Circaffan caps, and married women have their heads covered with a veil. To their fhoes are fometimes attached crofs pieces, fo as to raife them

confiderably from the ground.

In conformity with the ulage of all Aliatic nations, a

kalim or marriage portion, confifting, among the opu- Ruffin. len, of 40 mares, two horfes completely capaciforied, a feit of armour, a gun, and a fabre, is delivered up to the father of the bride on the celebration of the nuntials. The language of the Nagays is faid to vary in many respects from that spoken in Yaurida, which latter is a Turkith dialect. These people possess more activity and vivacity than the inhabitants of Laurida, but they are also more rapacious and ungovernable, and retain a strong predilection for a wandering life. In fummer they travel with their flocks along the banks of the ri ulets, where they fow wheat and millet in remote places, and neglect all further cultivation till the time of ha veft. On the return of winter they again approach the fea of Azof, near which they find grafs preferved for forage, and perhaps a remaining supply of that hav which they had formerly made in the valleys.

The features of these people show them to be the unmixed descendants of the Mongolian Partars, who formed the bulk of the army of Tichinghis-khan, which in-

vaded Ruffia and the Krimea.

The lecond class of the Krimean inhabitants confills of those Tartars who inhabit the heaths or steppes, as far as the mountains, especially on the north side, and who in the district of Perekop, where they are fill unmixed, retain many traces of the Mongolian countenance, with a thinly feattered beard. They devote themselves to the rearing of cattle, to a greater extent than the mountaineers, but are at the same time hulbandmen, though they pay no attention to gardening.

is confirmfted entirely of free flone. It forms an oblong fquare, extending along the trench which terminates the line of defence. On the fide adjoining this line there are no outworks; but on the other three fides the fort is flrengtheard by an additional deep folic, the whole amounting to 158 fathoms in length, and 8 sj. in breadth, computing from the folic of the line. At the north-wellern angle there is a pentagonal ballion, ferving as an outwork; another of a hexagonal form on the fouth-well, and a third with two angles at the fouth-ealt; but at the north-ealter angle the hexagonal ballion is farther extended into the folic, fo as to cover a narrow passage leading to a deep and excellent fpring, that rifes between this ditch and the interior for ification. The chief entrance into the fortress is near the fouthern curtain, on the fide of which a projecting demibaltion has been certified; but another outlet has been contrived at the eastern extremity.

The houses of the suburbs of Perekop were formerly dispersed in a very irregular manner on the southern 6.4e of the fortress, but they are at present situated at a distance of three verits within the country. In the vicinity of the gate, however, there are only a few houses, partly within and partly without the line, inhabited by Russian officers appointed at the salt magazine, or by those belonging to the garrison. Since the year 1797, the garrison of Fe-

rekop has been confiderably increased.

Although the Krimea is at present united to Russia, Perekop will, on many accounts, always remain a post of the greatest consequence; in some respects to Russia, and in others to the Krimea. If, for instance, the plague should ever spread its baneful influence into Krim-Tartary; an event which the constant trade carried on with Conftantinople and Anatolia, may easily produce; or, if feditious commotions should arise among the Tartars, whose loyalty is still doubtful; in these cases Perekop would effectually secure the empire, by closely stutting the barrier. On the other hand, this fortress not only renders every attempt at descritions from the Krimea into Rusha very difficult; but if, in future, the project of opening free ports should be realized, and thus the important commerce from the Black fea to the Mediterranean and to Anatolia, be vigorously promoted, Perekop would then afford the most convenient fiteation for a custom house. Farther, if the best ports of the Krimea were appointed, in the same manner as those of Toulon and Marseilles have been selected for all the southern parts of France, in order to establish places of quarantine for all ships navigating the Black sea and that of Azof, so that all vessels destined for Taganrok, Kherson, and Odessa, should be obliged to perform a certain quarantine at Sevastopol, Theodosia, and Kertik, as has already been twice proposed; the important pass of Perekop would for ever secure the open and more populous provinces of the interior parts of the empire from that terrible scourge, the plague. Thus, all danger might be obviated, not only from the sea of Azof, the coasts of which are in every direction exposed to the contagion, so that they can with difficulty be protected; but also from the ports of Kherson, Nikolaef, and Odessa. At the same time, the expense of maintaining various places for quarantines might be greatly reduced, and complete inflitutions of this nature be speedily established. See Pallas's Travels, vol. ii. p. 5.

Russia. In situations destitute of stone, they build with unbaked bricks of clay, and make use of dry dung as fuel. Of this they prepare large quantities, and pile it up into flacks like peat or turf, to ferve them during winter. Nearer to the mountains, these Tartars, as well as the nobles, are more intermixed with the Turkish race, and exhibit few of the Kalmuk Mongolian features. This is particularly the cafe with the Krimean nobility, in whom these peculiarities of feature are almost entirely obliterated. See Pallas's Travels, Vol. II. Plate

> The third class of Krimean Tartars comprehends the inhabitants of the fouthern valleys, a mixed race, which feems to have originated from the remnants of various nations crowded together in these regions at the conquest of the Krimea by the armies of the Mongolian leaders. These people generally display a very fingular countenance, having a fironger beard, but lighter hair, than the other Tartars, by whom they are not confidered as true descendants of the Tartar race, but are diffinguished by the contemptuous name of Tat (or renegado). By their coflume they are remarkably distinguished from the second class, or heath Tartars; the men among these latter wearing outer garments very like the loofe coats or jackets worn by the European peafants, with round close caps; while the Tartars of the valleys wear the usual eastern dress, with turbans. The dress and veils of the women are, however, alike in both classes. See Pallas's Travels, Vol. II. Plates 12, 20, and 22. Their houses or huts are partly under ground, being generally constructed against the steep precipices of mountains, with one half excavated from the earth or rock, and only the front raifed with rough stones. They have also a flat roof covered with earth.

> There are among these people skilful vinedressers and gardeners, but they are too indolent to undertake new plantations, and avail themselves only of those trees which have been left by their predecessors. They also cultivate flax and tobacco; objects of culture which are unknown to the Tartars of the heaths.

> In the coffume of the Tartars inhabiting the plains, there is some variety. Young persons, especially those of noble or wealthy families, dress nearly in the Circasflan, Polifh, or Kozak fathion, with fhort or flit fleeves in the upper garment. The nobility of more advanced age wear unflit fleeves like the common Tartars; and old men fuffer the whole beard to grow, whereas the young and middle-aged wear only whifkers. Their legs and feet are dreffed, in half-boots of Morocco or other leather, or they use stockings of the same material, especially in the towns; and over these are worn flippers or clogs, and in dirty weather, a fort of stilt shoes, like those described in the dress of the Nagays. Their heads are either entirely fliaved, or have the hair cut very fhort, and they wear a high cap, generally green, edged with black or gray lamb fkin, and quilted at the top with cotton. This cap is never moved by way of compliment. Those who have performed their pilgrimage to Mecca, are diffinguished by a white handkerchief round the edge of the cap, this being the mark of a had flu or pilgrim.

> The phyliognomy of the true Tauridan Tartars bears a great refemblance to that of the Turks, and of most Europeans. There are handsome, tall, robust people

among them, and few are inclined to corpulency; their Ruffia. complexion is rather fair, and their hair black or dark

The dress of the Tartar women of these two latter classes is very different from that of the Nagays, They are in general of low stature, owing probably to the flate of confinement in which they are kept during the early part of their lives, though their features are tolerably handforae. Young women wear wide drawers, a thift reaching to their ancles, open before, and drawn together at the neck; a gown of striped filk, with long fleeves, and adorned with broad trimmings embroidered with gold. They have also an upper garment of some appropriate colour, with short thick Turkish sleeves edged with gold lace, ermine, or other fur. Both girls and married women fasten their gowns with a heavy girdle, having in front two large buckles of emboffed or filligree work, fuch as were formerly in fashion among the Ruffian ladies at St Petersburgh and Mosco. Their hair is braided behind into feveral loofe treffes. and the head is covered, either with a fmall red cap, or with a handkerchief croffed below the chin. Their fingers are adorned with rings, and their nails tinged of a reddish-brown colour, with a dye stuff called kna (derived from the lawfoma) imported from Conftantinople for that purpose. Paint is rarely employed by young women.

Married women cut off their hair obliquely over their eyes, and leave two locks also cut transversely, hanging down their cheeks; they likewife bind a long parrow strip of cloth round the head, within the ends of which they confine the rest of the hair, and turn it up from behind, braiding it in two large treffes. Like the Perfians, they dye their hair of a reddish brown with kna. Their under garment is more open below, but in other respects similar to that of the unmarried women, as are their upper drefs and girdle. They paint their faces red with cochineal, and by way of white paint, they use an oxide of tin, carefully prepared in small earthen pipkins over a dung fire. They also due the white of the eye blue, with a preparation of copper finely pulverifed; and by a particular process they change the colour of their hair and evebrows to a shining black. which is retained for feveral months. At weddings, or on other folemn occasions, the wealthy females further ornament their faces with flowers of gold leaf, colour their hands and feet, as far as the wrifts and ancles, of an orange hue; and destroy all the hairs on the body with a mixture of orpiment and lime.

Both married and fingle women wear yellow halfboots or flockings of Morocco leather; and for walking they use red flippers with thick foles, and in dirty weather put on fill fhoes. Abroad, they wear a kind of undress gown of a loose texture, manufactured by themselves of white wool; wrap several coloured Turkey or white cotton handkerchiefs round their heads, and tie them below the chin; and over all they throw a white linen cloth reaching half way down the arms, drawing it over the face with their right hand, fo that their black eyes alone are visible. They avoid as much as possible the company of men, and when they accidentally meet a man in the firect, they avert their face, or turn towards the wall.

Polygamy rarely occurs, even among the nobles, and more wealthy inhabitants of the towns, yet there are

Rusis- fome perfons in the villages, who encumber themselves with two wives. Male and female flaves are not comuron in this country; but the nobility fupport numerous idle attendants, and thus impoverish their estates; while their chief pride confits in rich and beautiful apparel for themselves and their wives, and in handlome equipages for riding to town, being accompanied by a train of domestics, who follow them on every excursion, though the chief employment of the latter is that of giving their mafter his pipe at his demand, standing in his presence, or affilling him to dress, and, in all other refpects, living in the same indolent manner as their lords. Another fource of expence is the purchase of elegant fwords, and especially of excellent blades; the distinction between the different forts of which, together with their names, conflitute among the nobles a complete fcience. They are also great admirers of beautiful and coffly tobacco-pipes, together with expensive mouthpieces of milk-white amber, that are likewife used by the Turks, and of tubes of curious woods; but the kallian, or the pride of the Persians, is scarcely known here; and the Tartars employ only finall ornamental bowls made of clay, which are almost every moment filled with fine-cut leaf-tobacco. The generality of these noble lords, or Murses, were so ignorant, that they could neither read nor write; and initead of figning their names, they substituted an impression of their rings, on which a few Turkish words are engraven. Some of the young nobility, however, are beginning to fludy not only the Russian language, of which they perceive the necessity; but also apply themselves more sedulously to reading and writing, and thus become more civilized. The expence of wearing apparel for the women that up in their harems is, according to their manner and fortune, little inferior to that of Europeans; with this fingle difference, that the fashions among the former are not liable to change. Even the wives of the common Tartars are fometimes dreffed in filks and stuffs, embroidered with gold, which are imported from Turkey. In consequence of fuch extravagance, and the extreme idleness of the labouring classes, there are very few wealthy individuals among the Tartars. Credulity and inactivity are the principal traits in the Tartar character. To fit with a pipe in their hands, frequently without fmoking, for many hours, on a shady bank, or on a hill, though totally devoid of all tafte for the beauties of nature, and looking ftraight before them; or, if at work, to make long paufes, and above all to do nothing, constitute their supreme enjoyments; for this mode of life, a foundation is probably laid by educating their boys in the harems. Hunting alone occasionally excites a temporary activity in the Muries, who purfue their prey with the large species of greyhound, very common in the Krimea; or with falcons and hawks.

The language and mode of writing of the real Tartars differ little from those of the Turks; but the language of the Nagays deviates confiderably from that of the other Tartars, as they have retained numerous Mongolian phrases, and make use of an ancient mode of writing called flagaltai.

The food of the Krimean Tartars is rather artificial for so unpolished a nation. Among the most esteemed delicacies are, forced meat-balls wrapped in green vine or forrel leaves, and called farma; various fruits, as cu-

cumbers, quinces, or apples, filled with minced ment. Ruffia dolma; Ruffed cucumbers; diffes of melons, badiliban, and hibijous efculentus, or bamia, prepared in various ways with spices or failton; all of which are ferved up with rice; also pelaw, or rice, boiled in meat broth, till it becomes dry; fat mutton and lemb, both boiled and roafted, &c. : colt's flesh is likewife confidered as a dainty; and horse slesh is more commonly eaten by the Nagays, who are still attached to their ancient custom. The Tartars rarely kill horned cattle: mutton and goat's fiefh conftitute the food of the common people, especially in the country, together with preparations of milk and eggs; butter, (which they churn and preferve in the dry flomachs of oxen); a kind of pelaw, made either of dried or bruifed unripe wheat, and which they call bulgur; and, lastly, their bread is generally com-posed of mixed grain. Their ordinary beverage is made by triturating and diffolving cheefe in water; the former of which is called yafma, being prepared from coa-gulated milk, or yugurt; but the fathionable intexicating drink is an ill-tafted and very ftrong beer, or bufa, brewed of ground millet. Many persons also drink a fpirituous liquor, arraki, which the Tartar mountaincers diffil from various kinds of fruit, particularly plums. It. is also extracted from floes, dogberries, elder-berries, and wild grapes, but never from the common cherry. They likewife boil the expressed juice of apples and pears into a kind of marmalade, bekmels, of the confiftence of a fyrup, or that of grapes into nardenk, as it is called; the latter preparation is a favourite delicacy, and eagerly purchased by the Tartars of the steppes; hence great quantities of it are imported in deal casks from Anatolia, at a very cheap rate, for the purpose of converting it into brandy,

In consequence of their temperate, simple, and careless habits, the warm clothing which they wear throughout the summer, and the little fatigue which they undergo, the Tartars are liable to few difeafes, and, in particular, are generally exempted from the intermittent and bilious remittent fevers which commonly prove fo fatal to foreigners and new fettlers in the Krimea. Indeed, few diforders, except the itch and rheumatism, prevail among them, and many of them attain to a vigorous old age. The true leprofy, which is by the Ural Kozaks termed the Krimean difease, never occurs in this \* Pallas's

As a miftrefs-market must be a curious subject to the polished nations of Europe, we shall give a specimen Market for of the manner in which it is carried on at Theodofia, in Circaffian the words of Mr Keelman, a German merchant, as re-Theodelia lated by Mrs Guthrie, "The fair Circaffians," favs Mr Keelman, " of whom three were offered me for fale in 1768, were brought from their own chamber into mine (as we all lodged in the fame inn), one after another, by the Armenian merchant who had to dispose of them. The first was very well dressed, and had her face covered in the oriental ftyle. She kiffed my hand

by order of the master, and then walked backward and forward in the room, to flew me her fine shape, her pretty small foot, and her elegant carriage. She next lifted up her veil, and absolutely surprised me by her extreme beauty. Her hair was fair, with fine large blue eyes, her nose a little aquiline, with pouting red lips. Her features were regular, her complexion fair and delicate, and her cheeks covered with a fine natu-

glen.

ral vermilion, of which she took care to convince me by rubbing them hard with a cloth. Her neck I thought a little too long; but, to make amends, the finest bosom and teeth in the world set off the other charms of this beautiful slave, for whom the Armenian asked 4000 Turkith painters (about 800.1 terling), but permitted me to feel her pulle, to convince me the was in perfect health; after which she was ordered away, when the merchant assured me, that the was a pure vir-

gin of 18 years of age. " I was more furprifed than I ought to have been, at the perfect indifference with which the inhabitants of Theodofia beheld this traffic in beauty, that had shocked me fo much, and at their affuring me, when I feemed affected at the practice, that it was the only method which parents had of bettering the state of their handfome daughters, deflined at all events to the haram; for that the rich Afiatic gentleman who pays 4000 piattres for a beautiful miftrels, treats and prizes her as an earthly houri, in perfect conviction that his fuccefs with the houris of Paradile entirely depends on his behaviour to the fifterhood on earth, who will bear testimony against him in case of ill usage; in short, that, by being dispofed of to rich muffulmans, they were fure to live in affluence and ease the rest of their days, and in a state by no means degrading in Mahometan countries, where their prophet has permitted the feraglio. But that, on the contrary, if they fell into the hands of their own feudal lords, the barbarous inhabitants of their own native mountains, which it is very difficult for beauty to escape, their lot was comparatively wretched, as those rude chieftans have very little of either respect or generofity towards the fair fex \*."

RUST, the calk or oxide of a metal, iron, for inflance, formed by expositor to the air, or by corroding and disflowing its superficial parts by some menstruum. Water is the great instrument or agent in producing rust; and hence oils, and other fatty bodies, secure metals from rust; water being no menstruum for oil, and therefore not able to make its way through it. Almost all metals are liable to rust. The rust of iton is not merely an oxide of that metal; it contains besides a portion of car-

-bonate.

\* Afrs

RUSTIC, in Architecture, implies a manner of building in imitation of nature, tather than according to

the rules of art. See ARCHITECTURE.

RUSTIC Gods, dir ryllici, in antiquity, were the gods of the country, or thole who prefided over agriculture, &c. Varro invokes the 12 dii confentez, as the principal among the rutlic gods; viz. Jupiter, Tellus, the Sun, Moon, Ceres, Baccius, Rubigus, Flora, Minerva, Venus, Lympha, and Good Luck. Befides thee 12 arch rutlic gods, there were an infainty of Uffer ones; as Pales, Vertumnus, Tutelina, Fulgor, Sterculius, Elellona, Jugatiaus, Collinus, Vallenia, Terminus, Sylvanus, and Priapus. Stuvius adds the Satyrs, Fauns, Sileni, Nymphs, and even Titiens; and gives the compire over all the rutlic gods to the god Pan.

RUSTIC Order, that decorated with ruftic quoins, ruf-

tic work, &c.

Rustic Work, is where the flones in the face, &c. of a building, indead of being fmooth, are hatched, or picked with the point of a hammer.

RUSTRE, in Heraldry, a bearing of a diamond shape,

pierced through in the middle with a round hole. See HERALDRY.

RUTA, the hunting, the venery or copulation of deer.
RUTA, RUE; a genus of plants belonging to the decandria cless; and in the natural method racking under the 26th order, Munifilipue. See BOTANY Ind.x.

Rue has a throng ungrateful fineil, and a bitterifh penetrating talle: the leaves, when full of vigour, are extremely actid, infomuch as to inflame and blitter the fkin, if much handled. With regard to their medicinal virtues, they are powerfully ilimulating, attenuating, and detergent; and hence, in cold phic matic habits, they quicken the circulation, diffolve tenacious juices, open obstructions of the excretory glands, and promote the fluid fecretions. The writers on the materia medica in general have entertained a very high opinion of the virtues of this plant. Boerhaave is full of its praifes; par-ticularly of the essential oil, and the distilled water cohobated or re-diffilled feveral times from fresh percels of the herb. After extravagantly commending other waters prepared in this manner, he adds, with regard to that of rue, that the greatest commendations he can beflow upon it fall short of its merit: " What medicine (fays he) can be more efficacious for promoting fweat and perspiration, for the cure of the hysteric passion and of epilephies, and for expelling poiton?" Whatever fervice rue may be of in the two last cases, it undoubtedly has its use in the others: the cohobated water, however, is not the most efficacious preparation of it. An extract made by rectified spirit contains in a small compass the whole virtues of the rue; this menstruum taking up by infusion all the pungency and flavour of the plant, and elevating nothing in distillation. With water, its peculiar flavour and warmth arife; the bitternels, and a confiderable share of the pungency, remaining behind.

RUTA Basa, or Swedish turnip. For the mode of

cultivation, fee AGRICULTURE Index.

Book of RUTHI, a canonical book of the Old Tefament; being a kind of appendix to the book of Judges, and an introduction to those of Samuel; and having its title from the person whose story is here principally related. In this story are observable the ancient rights of kindred and redemption; and the manner of buying the inheritance of the deceased, with other particulars of great note and antiquity. The canonicalness of this book was never disputed; but the learned are not agreed about the epocha of the history it relates. Ruth the Moabites is found in the genealegy of our Saviour. Marth, is 5.

RUTHLUS. See CYPRIN'S, ICHTHYOLOGY Index, the head borough of the mether ward of Lanarkhire in Scotland, is flusted in N. Lat. 5,7 5,7, and W. Long, 4° 13', about two miles fouth-eaf of Gialgow, and nine well of Hamilton. Few towns in Scotland can lay greater claim to antiquity than Rutherglen. Maitland, in his Hilbory of the Antiquities of Scotland, vol. i. p. 92. tells us, that it was founded by a King Reuther, from whom it derived its name; and a tradition of the fame impurt prevails among the inhabitants. But without laying any firels on the authority of tradition, which is often falle and always deubful, we find, from feveral original charter, fill preferved, that it was creefted into

Butter- a royal borough by King David I. about the year gl n. 1125.

T e territory under the jurifliction of the borough gow, which in latter times role into confequence by place are now unknown; but in the fields and gardens a'ly discovered. It is now of a very reduced fize, confilling but of one principal direct and a few lanes, and

containing about 1631 inhabitants.

a kind of lane, known by the name of Dins-dike. A circum fance which befel the unfortunate Queen Mary, immediately after her forces were routed at the battle of Langfide, has ever fince continued to characterife this place with an indelible mark of opprobrium. Her majesty, during the battle, stood on a rising ground about a mile from Rutherglen. She no fooner faw her army defeated than the took her precipitate flight to the fouth. Dins-dykes unfortunately lay in her way. Two ruftics, who were at that instant cutting grafs hard by, feeing her majefty fleeing in hafte, rudely attempted to intercept her, and threatened to cut her in pieces with their feythes if the prefumed to proceed a step further, Neither beauty, nor even royalty itself, can at all times secure the unfortunate when they have to do with the unfeeling or the revengeful. Relief, however, was at hand; and her majesty proceeded in her flight.

Adjoining to a lane called the Back-row flood the castle of Rutherglen, originally built at a period coeval, it is reported, with the foundation of the town. This ancient fortress underwent several sieges during the unhappy wars in the days of King Robert Bruce, and it remained a place of strength until the battle of Langfide; foon after which it was destroyed by order of the regent, to revenge himself on the Hamilton family, in whole cultody it then was. The foundations of the buildings are now erafed, and the fite converted into

dwelling-houses and gardens.

The church of Rutherglen, an ancient building of the Saxon-Gothic flyle, was rendered famous by two tranfactions, in which the fate of Sir William Wallace and his country was deeply concerned. In it a truce was concluded between Scotland and England in the year \$ 297 (Henry's Life of Wallace, book vi. verse 862.), and in it Sir John Monteath bargained with the English to betray Wallace his friend and companion (Life of Wallace, book xi. verse 796.). This ancient building, having become incommodious, was, in 1794, pulled down, and one of a modern ftyle was erected in its place. Buried in the area were found vast quantities of human bones, and fome relies of antiquity.

No borough probably in Britain possesses a political constitution or fett more free and unembarrassed than Rutherglen. It was anciently under the influence of a felfelected magistracy, many of whom lived at a distance from the borough, and who continued long in office without interruption. Negligence on the one hand, and an undue exertion of power on the other, at length excited the burgeffes, about the middle of the last century, to : poly an effectual remedy to this evil. The commua y who, at that period, possessed the power of reforming the abuses that had long prevailed in the manage. Rutherment of the borough, we e much affinted in their ex rties by a Fir David Spens, town cle k, a section Rush u o' Med by falte politics, and who w s a most with a high degree of true patrionifm. Great opposition was at but made to the reform; but the an ado tod by the burg this was whelv laid, and was pro-cute! with unremitting affiduity. They were proof : wit the influence and oribery of a party that thrug-led o co live the old practice; and having at length turn sunted every difficulty, they formed a new contlitution or feet for 'e ocrough, which, in 1671, was approved of ov all the inhabitants of the town, and afterwards infored in the re-

cords of the general convention of the roy, but agls of

RIIV

Rutherglen, in conjunction with Glebaw, Renfaw, and Dumbarton, fends a member to the Birna pri .a ment. The fairs of this own are generally well around of the Lanarkshire breed, which are e come i the met draught-horfes in Britain. The inhapitants of this day rough fill retain force cuttoms of a very remote ant quity. One of thele is the making of Rutherglen four cakes. The operation is attended with some peculiar Pagan origin. An account of these rites is given in Ute's Hittory of Ruthergle ; and Kilbride, p. 94.; from whence we have taken the above account of this place, and which we do not hefitate to recommend to the attention of fuch of our readers as are fond of natural and local history, being perfuaded that they will find it to be both an uleful and entertaining performance.

RUTLANDSHIRE, is the fmallest county in England, being but 40 miles in circumference; in which are two towns, 48 parishes, 3263 houses, and 16,356 inhabitants. However, for quality it may be compared with any other county; the air being good, and the foil fertile both for tillage and pastures; and it not only affords plenty of corn, but feeds a great number of horned cattle and sheep. It is well watered with brooks and rivulets; and the principal rivers are the Weland and the Wath. It is bounded on the east by Lincolnshire; on the fouth by the river Weland, which parts it from Northamptonshire; and on the well and north by Leicestershire. It has only two market-towns: namely, Okeham, where the affizes and fessions are

held, and Uppingham.

RUYSCH, FREDERIC, one of the most eminent anatomists of which Holland can boast, was born at the Hague in 1638. After making great progress at home. he repaired to Leyden, and there profecuted the fludy of anatomy and botany. He fludied next at Francker, where he obtained the degree of doctor of phylic. He then returned to the Hague; and marrying in 1661, dedicated his whole time to the study of his profession. In 1665 he published a treatile, entitled Dilucidatio valvularum de variis lymphenicis et lasteis; which raifed his reputation to high, that he was chosen professor of anatomy at Ainsterdam. This honour he accepted with the more pleasure, because his Stuation at Amsterdam would give him eafy access to every requifite help for cultivating anatomy and natural history. After he fertled in Amsterdam, he was perpetually engage in diffecting and in examining with the most inquisitive eve the various parts of the human body. He improved the

factore of anatomy by new discoveries; in particular, he tound out a way to preferve dead bodies many years tiem putrefaction. His anatomical collection was curious and valuable. He had a feries of feetufes of all fizes, from the length of the little finger to that of a every species on the globe, besides a great many other tour through Holland in the year 1698, visited Ruysch. and was to charmed with his conventation, that he paffed whole days with him; and when the hour of departure came, he lest him with regret. He fet fo high a value on Ruylch's cabinet of curiofities, that when he returned to Holland in 1717, he purchased it for 30,000

> In 1655 he was made professor of medicine, an office which he discharged with great ability. In 1728 he got his thigh-bone broken by a fall in his chamber. The year before this misfortune happened he had been deprived of his fon Henry, a youth of talents, and well fkilled in anatomy and botany. He had been created a doctor of physic, and was supposed to have assisted his rather in his discoveries and publications. Ruysch's family now confided only of his youngest daughter. This lady had been early impired with a passion for anatomy, the favourite science of her ather and brother, and had riouties in natural history and anatomy, which he began to make after the emperor of Russia had purchased the first. Ruyfch is faid to have been of fo healthy a conflitution, that though he lived to the age of 93, yet during that long period he did not labour under the infirmities of difease above a month. From the time he broke his thigh he was indeed difabled from walking without a support; yet he retained his vigour both of mind and body without any fensible alteration, till in 1731 his firength at once deferted him. He died on the 22d of February the fame year. His anatomical works are printed in 4 vols 4to.

> The fiele of his writings is fimule and concife, but I me in es i accurate. Inftruction, and not offentation, froms to be his only aim. In anatomy he undoubtedly made many discoveries; but from not being fusiciently converlent in the writings of other anatomists, he pub-Academy of Sciences at Paris in 1727 elected him a mem'er in place of Sir Isaac Newton, who was lately deceased. He was also a member of the Royal Socie y

of Lordon.

RUYSCHIA, a genus of the monogynia order, belonging to the pentandria class of plants; and in the

RUYFER, MICHAEL ADRIAN, a diftinguished naval officer, was born at Fleffingue, a town of Zealand, in 160-. He entered on a feafaring life when he was on'y 11 years old, and was first a c bin-bay. While he advanced fuccessively to the rank of mate, master, and captain, he acquitted himfelf with ability and honour in all these employments. He repulsed the Irish, who attempted to take Dublin out of the hands of the English. He made eight voyages to the West Indies and ten to Brazil. He was then promoted to the rank of

rear-adminal, and lent to affill the Portuguese against Ruyter, the Spaniards. When the enemy came in fight, he ad-Rye. vanced beidly to meet them, and gave such unquestionable proofs of valour as drew from the Portuguese monarch the warmelt applaufe. His gallantiv was flill more confpicuous before Salee, a town of Baroary. With one fingle veffel he failed through the roads of that place in defiance of five Algerine cortains who came to attack

In 1653 a squadron of 70 vessels was dispatched against the English under the command of Van Tromp. Ruyter, who accompanied the admiral in this expedition, seconded him with great skill and bravery in the three battles which the English so gloriously won. He was afterwards stationed in the Mediterranean, where he captured feveral Turkish vessels. In 1650 he received a commission to join the king of Denmark in his war with the Swedes; and he not only maintained his former reputation, but even raifed it higher. As the reward of his fervices, the king of Denmark ennobled him and gave him a pension. In 1661 he run ashore a vessel belonging to Tunis, released 40 Christian flaves, made a treaty with the Tunifians, and reduced the Algorine corfairs to submission. His country, as a testimony of her gratitude for such illustrious services, raised him to the rank of vice-admiral and commander in chief. To the latter dignity, the highest that could be conferred upon him, he was well intitled by the fignal victory which he obtained over the combined fleets of France and Spain. This battle was fought in 1672 about the time of the conquest of Holland. The battle was maintained between the English and Dutch with the obflinate bravery of nations which were accustemed to difpute the empire of the main. Ruyter having thus made himfelf mafter of the fea, conducted a fleet of Indiamen fasely into the Texel; thus defending and enriching his country, while it had become the prey of hostile invader. The next year he had three engagements with the fleets of France and England, in which, if possible, his bravery was still more distinguished than ever. D'Estrees the French vice admiral wrote to Colbert in these words: " I would purchase with my life the glory of De Ruyter." But he did not long enjoy the triumphs which he had fo honourably wen. In an engagement with the French fleet off the coast of Sicily, he lost the day, and received a mortal wound, which put an end to his life in a few days. His corpie was carried to Amsterdam, and a magnificent monument to his memory was there credted by the command of the states-general. The Spanish council believed on him the title of duke, and transmitted a patent investing him with that dignity; but he died before it arrived.

When fome person was congratulating Louis XIV. upon De Ruyter's death, telling him he had now got rid of one dangerous enemy; he replied, " Every one must be forry at the death of so great a man."

RYE. See SECALE, BOTANY Index; and also A-

RYE-Grass. See AGRICULTURE Index.

RYE, a town in Suffex, with two markets on Wedneldays and Saturdays, but no fair. It is one of the cinque-ports; is a handfome well-built place, governed by a mayor and jurats, and fends two members to parliament. It has a church built with stone, and a townhall; and confifts of three streets, paved with flone.

Rye, Rymer. One fide of the town has been walled in, and the other is guarded by the fea. It has two sates, and is a place of coniderable trade in the hipping way. From thence large quantities of corn are exported, and many of the inhabitants are fiftermen. It is 34 miles fouth-eaft by fouth of Tunbridge, and 64 on the fame point from London. The mouth of the harbour is of late choked up with fand; but if well opened, it would be a good flation for privateers that cruize against the French. E. Long, o. 50. N. Lat. 51.0.

RYMER, THOMAS, Eig. the author of the Fredera, was born in the north of England, and educated at the grammar-school of Northallerton. He was admitted a Inn, and at length was appointed historiographer to King William in place of Mr Shadwell. He wrote A certainly not well qualified, for he wanted candour; nor is his judgement much to be relied on, who can'd condemn Shakespeare with such rigid severity. His tragedy will show, that his talents for poetry were by cenfured. But though he has no title to the appellation of poet or critic, as an antiquarian and historian his memory will long be preferred. His Fadera, which is a collection of all the public transactions, treaties, &c. of the kings of England with foreign princes, is effeemed one of our most authentic and valuable records, and is oftener referred to by the best English historias than perhaps any other book in the language. It was published at London in the beginning of the present century in 17 volumes folio. Three volumes more were added by Sanderson after Rymer's death. The whole were reprinted at the Hague in 10 vols in 1739. They were abridged by Rapin in French, and inferted in Le Clerc's Bibliotheque, a translation of which was made by Stephen Whatley, and printed in 4 vols 8vo, 1731.

Rymer died 14th December 1713, and was buried % profession in the parith church of St Clement's Danes. Some frecimens of his poetry are preferved in the first Volume of Mr Nichol's Select Collection of Mr Gellaneous Poems,

RYNCHOPS, a genus of birds belonging to the or-

RYOTS, in the policy of Hindoflan, the modern name by which the renters of land are divinguished. They hold their possissions by a leafe, which may be considered as perpetual, and at a rate fixed by ancient furveys and valuations. This arrangement has been oo long classifished, and accords fo well with the ideas of the netwes, concerning the delimination of casts, and the functions albut dito cach, that it has been invariably maintained in all the produces to just either to Malometans or Everyn 1, and to be in it serves as the last on which their while system of finance is founded.

Respecting the put the mode, however, in which the types of Hindelean held their pselficines, there is most everfity of opining the chief of which are very impartially delineated in note iv. to the Appenda of Potentials Hisdelean Concerning India, p. 245, to which we refer such of our readers as are interested in this fisher of finance.

RYSWICK, a large village in Holland, feated between the Higue and Delft, where the prince of Orange has a palace, which flands about a quarter of a mile further. It is a very noble fluidture, all of hewn flone, of great extent in front, but perhaps not yocontionably high. It is adorned with a marble fluores, and a magnificant terrace. There is a good profpect of it from the canal letween Delft and the Hague. This place is remarkable for a treaty concluded here in 1699 between Sagland, Germany, Holland, France, and Spain. E. Long. 4, 25. N. Lat. 52, 8.

S.

f, or s, the 18th letter and 14th conforant of our S, alphabet; the found of which is formed by driving the breath through a narrow passage between the palate and the tongue elevated near it, together with a motion of the lower jaw and teeth towards the upper, the lips being a little way open; with fuch a configuration of every part of the mouth and larys x, as renders the voice somewhat fibilous and histing. Its found, however, varies; being strong in some words, as this, thus, &c and foft in words which have a final e, as muse, wife, &cc. It is generally doubled at the end of words, whereby they become hard and harth, as in kifs loss, &c. In some words it is filent, as ifle, island, vif-In writing or printing, the long character count, &cc. f is generally used at the beginning and middle of words, but the short s at the end.

In abbreviation, S stands for focietas or focius; as,

R. S. S. for regue focietaits focius, i. e. fellow of the royal fociety. In medicinal preferiptions, S. A. fignifies fecundum artem, i. e. according to the rules of art: And in the notes of the ancients, S flands for Sexus; S. P. for Spurius; S. C. for fenatus confulum; S.P. Q.R. for fratum popululque Romanus; S. S. S. for fratum fapor stratum, i. e. one layer above another alternately; S. V. B. E. E. Q. V. for f walet here, eft, ego quoque to letters. Used as a numeral, S anciently denoted feven; in the Italian music, S fignifies folo: And in books of navigation, S stands for fouth: S. E. for fouth-east; S. W. for fouth-well; S. S. E. for fouth-east; S. S. W. for fouth towth weth, &c.

SAAVEDRA, MICHAEL DE CERVANTES, a celebrated Spanish writer, and the inimitable author of Don Quixote, was born at Madrid in the year 1541. From

Sa vedra his infancy he was fond of books; but he applied himfelf wholly to books of entertainment, fuch as novels and poetry of all kinds, especially Spanish and Italian authors. From Spain he went to Italy, either to lerve Cardinal Aquaviva, to whom he was chamberlain at Rome's or else to follow the profession of a foldier, as he did fome years under the victorious banners of Mar-co Antonio Colonna. He was present at the battle of Lépanto, fought in the year 1571; in which he either loft his left hand by the thot of an harquebus, or had it fo maimed that he loft the use of it. After this he was taken by the Moors, and carried to Algiers, where he continued a captive five years and a half. Then he returned to Spain, and applied himself to the writing of comedies and tragedies; and he composed feveral all of which were well received by the public, and acted with great applanfe. In the year 1584 he published his Galatea, a novel in fix books; which he presented to Ascanio Colonna, a man of high rank in the church, as the first fruits of his wit. But the work which has done him the greatest honour, and will immortalize his stame, is the hittery of Don Quixote; the first part of which was printed at Madrid in the year 1605. This is a fatire upon books of knight-errantry; and the principal, if not the fole, end of it was to destroy the repntation of those books, which had so infatuated the greater part of mankind, and especially those of the Spanish nation. This work was univerfally read; and the most eminent painters, tapestry-workers, engravers, and sculptors, have been employed in representing the history of Don Quixote. Cervantes, even in his lifetime, obtained the glory of having his work receive a royal approbation. As King Philip III. was standing in a bal-cony of his palace at Madrid, and viewing the country, he observed a student of the banks of the river Manzanares reading in a book, and from time to time breaking off and beating his forehead with extraordinary tokens of pleasure and delight : upon which the king faid to those about him. "That icholar is either mad. or reading Don Quixote:" the latter of which proved to be the cafe. But virtus laudatur et alget : notwithflanding the vaft applaufe his book everywhere met with he had not interest enough to procure a fmall penfion, for he could fearcely keep himfelf from flarving. In the year 1615, he published a fecond part; to which he was partly moved by the prefumption of some scribbler, who had published a continuation of this work the year before. He wrote also several novels; and among the rest, "The Troubles of Persiles and Sigismunda." He had employed many years in writing this novel, and finished it but just before his death; for he did not live to fee it published. His fickness was of such a nature. that he himfelf was able to be, and actually was, his own historian. At the end of the preface to the Troubles of Perfiles and Sigismunda, he represents himfelf on horseback upon the road, and a student, who had overtaken him, engaged in conversation with him : "And Lappening to talk of my illness (favs be), the student foon let me know my doom; by faying it was a dropfy I had got; the thirst attending which all the water of the ocean, though it were not falt, would not fushice to quench. Therefore Senior Cervantes, fays he, you must drink nothing at all, but do not forget to gat; for this alone will recover you without any other playfic. I have been told the fame by others, arifwered I':

but I can no more lorbear tippling, than if I were born Sasvedra to do nothing elfe. My life is drawing to an end; and from the daily journal of my pulle, I shall have finished Sabbatarimy course by next Sunday at the farthest .- But adieo, my merry friends all, for I am going to die; and I hope to fee you ere long in the other world, as happy as heart can with." His dropfy increased, and at last proved fatal to him; yet he continued to fay and to write bon mots. He received the last facrament on the 18th of April 1616; yet the day after wrote a dedication of the Troubles of Perfiles and Sigifmunda to the condé de Lemos. The particular day of his death is not known.

SABA, a Dutch island near St Euslatia in the West Raynot's Indies. It is a steep rock, on the summit of which is History, a little ground, very proper for gardening. Frequent vol. iv. rains, which do not lie any time on the foil, give growth to plants of an exquifite flavour, and cabbages of an extraordinary fize. Fifty European families, with about one hundred and fifty flaves, here raife cotton, fpin it, make stockings of it, and fell them to other colonies for as much as ten crowns \* a pair. Throughout Ame- \* 11. cs. rica there is no blood fo pure as that of Saba; the women there preferve a freshness of complexion, which is not to be found in any other of the Caribbee iflands. Happy colony! elevated on the top of a rock between the fky and fea, it enjoys the benefit of both elements without dreading their florms; it breathes a pure air, lives upon vegetables, cultivates a fimple commodity. from which it derives ease without the temptation of riches; is employed in labours less troublesome than ufeful, and poffesses in peace all the bleffings of moderation, health, beauty, and liberty. This is the temple of peace, from whence the philosopher may contemplate at leifure the errors and paffions of men, who come, like the waves of the fea, to firike and dash themselves on the rich coasts of America, the spoils and possession of which they are perpetually contending for, and wresting from each other: hence may he view at a distance the nations of Europe bearing thunder in the midt of the ocean, and burning with the flames of ambition and avarice under the heats of the tropics; devouring gold without ever being fatisfied; wading through feas of blood to amass those metals, those pearls, those diamonds, which are used to adorn the oppressors of mankind; loading innumerable thips with those precious cafks, which furnish luxury with purple, and from which flow pleafures, effeminacy, cruelty, and debauchery. The tranquil inhabitant of Saba views this mass of follies, and spins his cotton in peace.

SABÆANS. See SABIANS.

SABAZIA, in Greek antiquity, were nocturnal mysteries in hondur of Jupiter Sabazius. All the initiated had a golden ferpent put in at their breaks, and taken out at the lower part of their garments, in memory of Jurpiter's ravishing Proferpina in the form of a ferpent: "There were allo other featls and facrifices diflinguished by this appellation, in honour of Mithras, the deity of the Perfians, and of Bacchus, who was thus denominated by the Sabians, a people of Thraces.

SABBATARIANS, or SEVENTH DAY BAPTISTS, a Ret of anabaptiffs; thus ealled, becanfe they observed the Jewish or Saturday Sabbath from a perfusion that it was never throgated in the New Teflement by the inflitution of any other.

Definition.

SABBATH, in the Hebrew language, fignifies refl. The feventh day was denominated the Sabbath, or day of rell, because that in it God had rested from all his works which he created and made. From that time the seventh day seems to have been set apart for religious fervices; and, in confequence of a particular injunction, was afterwards observed by the Hebrews as a holyday. They were commanded to fet it apart for facred purposes in honour of the creation, and likewife in memorial of their own redemption from Egyptian bondage.

Importance tution, and car y cere. mon.es.

The importance of the inflitution may be gathered of the infti- from the different laws respecting it. When the ten commandments were published from Mount Sinai in tremendous pomp, the law of the Sabbath held a place in what is commonly called the first table, and by subfequent statutes the violation of it was to be punished with death. Six days were allowed for the use and fervice of man; but the feventh day God referved to himself, and appointed it to be observed as a stated time for holy offices, and to be spent in the duties of piety and devotion. On this day the ministers of the temple entered upon their week; and those who had attended on the temple fervice the preceding week went out at the same time. New loaves of shew-bread were placed upon the golden table, and the old ones taken away, Two lambs for a burnt-offering, with a certain proportion of fine flour, mingled with oil, for a bread-offering, and wine for a libation, were offered. The Sabbath, as all other festivals, was celebrated from evening to evening. It began at fix in the evening on Friday, and ended at the fame time the next day. Time of its

Concerning the time at which the Sabbath was first institution instituted, different opinions have been held. Some have maintained, that the fanctification of the feventh day, mentioned in Gen. ii. is only there fpoken of dix modely, or by anticipation; and is to be understood of the Sabbath afterwards injoined the children of Ifrael at the commencement of the Mofaic difpensation. But without entering into a particular examination of all the arguments adduced to support this opinion, a few observations, it is prefumed, will be fufficient to show that it

rests on no folid foundation.

It cannot easily be supposed that the inspired penman would have mentioned the sanctification of the feventh day amongst the primeval transactions, if such fanctification had not taken place until 2500 years afterwards. Writers, ambitious of that artificial elegance which the rules of criticism have established; often bring together in their narratives events which were themfelves far diftant, for the fake of giving form to their discourse; but Moses appears to have despised all such flimly refinements, and to have confiructed his narrative in great conformity to the feries of events.

From the accounts we have of the religious fervice practifed in the patriarchal age, it appears that, immediately after the fall, when Adam was restored to fayour through a Mediator, a flated form of public worthip was inflituted; which man was required to observe, in testimony; not only of his dependence on the Creator, but also of his faith, and hope in the promise made to our first parents, and feen after of. ()f an institution, then, for grand and important, no circumstance would be emitted that is necessary to preferve it, or that contributes to render the observance of it regular and folenin.

That determined times are necessary for the due ce- Sabbath. lebration of divine fervice, cannot be denied. Such is the conflicution of man, that he must have particular Nec fity times fet apart for particular fervices. He is doomed of fixted to toil and labour; to earn his bread in the fiveat of days for his face; and is capable of performing religious du-the pertics only in such a manner as is confident with his fity-formance. ation in the world. If flated times for religious folemnities had not been enjoined, the confequence would have been, that fuch folemnities would have been altogether neglected; for experience shows, that if mankind were left at liberty when and how often they should perform religious offices, these offices would not be performed at all. It is the observation of holy times that preserves the practice of holy services; and without the frequent and regular returns of hallowed days, man would quickly forget the duty which he owes to God, and in a fhort time no veftige of religion would be found

Among the ordinances which God vouchfafed his Objections ancient people, we find that the pious observation of to the earholydays was particularly infifted upon; and the Sab-ty infitubath was enjoined to be kept holy, in the most folemn Sabbath manner, and under the fevereft penalties. Can it then confidered, be supposed that He would suffer mankind, from the creation of the world to the Mofaic era, to remain without an inftitution to expedient in itself, and as well fitted

to answer the end proposed by it, under the one dispenfation, as ever it could be under the other? No; we have every imaginable reason to conclude, that when religious fervices were enjoined, religious times were appointed also; for the one necessarily implies the other. It is no objection to the early institution of the Sah-

bath, that there is no mention of it in the history of the patriarchal age. It would have fwelled the Bible to a most enormous fize, had the facred bistorian given a particular account of all the transactions of those times; befides, it would have answered no end. When Moses wrote the book of Genesis, it was unnecessary to relate minutely transactions and inflitutions already well known by tradition: accordingly we fee, that his narrative is everywhere very concile, and calculated only to preferve the memory of the most important facts. However, if we take a view of the church service of the patriarchal age, we shall find that what is called the legal dispensation, at least the liturgic part of it, was no new lystem, but a collection of institutions observed from the beginning, and republished in form by Mcfcs. The Scriptures inform us that Cain and Abel offered facrifices; and the account which is given of the acceptance of the one, and the rejection of the other, evidently shows that stated laws respecting the service had then taken place. "In process of time," at the end of the days, "Abel brought an offering." Here was priest, altar, matter of facrifice, appointed time, motive to furifice, atonement made, and accepted. The dittinction of animals into clean and unclean before the flood, and bloah's facrifice immediately after his deliverance, without any new direction, is an unanswerable proof of the same truth. It is testified of Abraham, by God him. felf, that he kept his charge, his commandments, his flan tutes, and his laws. Thele expressions comprehend the various branches, into which the law given at Sinai wasdivided. They contain the moral precepts, affirmative and negative, the matter of religious ferrice, a body of

the patriarchal age.

Sabbath. laws to direct obedience, and to which man was to conform his conduct in every part of duty. Agreeably to this, we find that facrifices were offered, altars and places of worthin confecrated, and the Sabbath also mentioned as a well-known folemnity, before the promulgation of the law. It is expressly taken notice of at the fall of manna; and the incidental manner in which it is then mentioned, is a convincing proof that the Ifraelites were no flrangers to the inflitution : for had it been a new one, it must have been enjoined in a positive and particular manner, and the nature of it must have been laid open and explained, otherwise the term would have

Argument from the time into שכע א

The division of time into weeks, or periods of feven days, which obtained so early and almost universally, is a strong indication that one day in feven was always diflinguished in a particular manner. Week\*, and feven days, are in scripture language synonymous terms. God commanded Noah, feven days before he entered the ark, to introduce into it all forts of living creatures. When the waters of the flood began to abate, Noah fent forth a dove, which, finding no rest for the sole of her foot, returned to him. After feven days he fent forth the dove a fecond time, and again the returned to the ark. At the expiration of other feven days he let go the dove a third time : and a week is spoken of (Gen. xxix.) as a

well-known space of time.

This fentenary division of time has been, from the earliest ages, uniformly observed over all the eastern world. The Ifraelites, Affyrians, Egyptians, Indians, Arabians, and Perfians, have always made use of a week, confifting of feven days. Many vain attempts have been made to account for this uniformity; but a practice fo general and prevalent could never have taken place, had not the feptenary distribution of time been inflituted frum the beginning, and handed down by tra-

From the fame fource also must the ancient heathens have derived their notions of the facredness of the feventh day. That they had fuch notions of it is evident from feveral paffages of the Greek poets quoted by Ariftohulus, a learned Jew, by Clement of Alexandria, and Eu-

-isdoun, isgor nuag. Hefod. The feventh, t.e facred day.

Εβδοματη δ' επειτα κατηλυθεν, ίεςον ήριας. Homer. Afterwards came the feventle, the facred day.

Εδδομον ήμας εην, και τοι τετελεςο παντκ. On the feventh day all things were completed.

Εθδοματη διοι τέτελησμένα παντά τέτυπται. Linus. All things were made perfect on the feventh day.

That they likewife held the number feven in high eftimation has been shown by a learned, though sometimes fanciful, author \*, with fuch evidence as to enfore conviction The Pythagoreans call it the venerable number or barres agies, worthy of veneration, and held it to be perfect and most proper to religion. They den minated it fortune, and also flyl d it voice, found, mufe, because no doubt, feven diffinct notes comprehend the whole scale of music, beyond which neither wice nor instrument can go, but must return from the f. venth, and began again anew.

They likewise designed it reterposes, leading to the end. Sabbath. Seven, in the Hebrew language, is expressed by a word that primarily fignifies fulnefs, completion, fufficiency, and is applied to a week, or leven days, because that was the full time employed in the work of creation; to the Sabbath, because on it all things were completed; and to an oath, because it is sufficient to put an end to all strite. This opening of the Hebrew root will enable us to come at the meaning of these expressions of the heathers, and also let us see whence they derived their ideas and modes of speaking, and that the knowledge of the transactions at the creation, though much perverted, was never entirely loft by them.

It has been supposed by some, that the heathens borrowed the notion of the facredness of the seventh day from the Jews. But this opinion will not readily be admitted, when it is confidered that the Jews were held in the greatest contempt by the furrounding nations, who derided them no less for their sabbaths than for their circumcifion. All forts of writers ridiculed them on this account. Seneca charged them with fpending the feventh part of their time in floth. Tacitus faid, that not only the feventh day, but also the feventh year, was unprofitably wasted. Juvenal brings forward the same charge; and Perfius upbraided them with their recutita (abbata. Plutarch faid that they kept it in honour of Bacchus. Tacitus affirmed, that it was in honour of Saturn; but the most abominable affertion of all is that of Apion, who faid that they observed the Sabbath in memory of their being cured on that day of a shameful disease, called by

Some perceiving the force of this objection have contended, that time a divided into weeks of feven days, that each of setary gods, the Sun. Moon, Mercury, Venus lier, and Saturn, who were the Di majorn have a day appropriated to his fervice. . s the origin of weeks, how came t'e great : oddeis Tellus to be omitted? Chawas worthing . early idolaters as well as the charmelands and are'v have been deemed by the mas som by it a part illar day fet apart to her hort rast'e r'anet S urn, who was long undiscovered, alternands teen but occasionally, and at all times confidered as of malign afpect. (See REM-

O hors have funocfed, that as the year was divided into lunar mon's of fomething more than 28 days, it was natural to divide the month into quarters from the different thates of the moon, which would produce as many weeks of feven days. But this supposition is less tenable than the former. The phases of the moon are not fo precifely marked at the quarters as to attract to them any particular notice, nor are the quarterly appearances of one month commonly like those of another. We cannot, therefore, conceive what should have induced the entieft observers of the phases of the moon to divide the month into four parts rather than into three, or five, or feven. Had the ancient week confifted of 14 days, it might have been inferred, with fome degree of plaufibility, that its length was regulated by the phases of the moon, because the shape of that luminary, at the end of the fecond quarter, is very precifely marked; but there is nothing which, in the present hypothesis, could have everywhere led mankind to make their weeks confit of feven days. This division of time, therefore,

\* Holloway's Originals, p. 60.

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an ient

flication of the Subsata, as related by lioles in the book of Genesis. That institution was absolutely neceiliry to preferve among men a fenfe of religion; and it was rene red to the Jows at the giving of the law, and Strict man- its observance coforced by the levereit penalues, It was according y oblerved by them with more or less firsetwhich the ness in every period of their commonwealth, and there in their prefeat thate of dispersion, they more highly honour. Toy regard it, indeed, with a fape litious rev rence, call it their foufe, their delight, and theak of ried in their opinions of the manner in which it ought to be kept. In the time of the Maccabees, they carried their respect for the Sabbath so very high, that they would not on that day defend theinfelves from though they would do nothing to prevent the enemy from carrying on their operations. When our Saviour was on earth, it was no fin to loofe a beast from the stall, and lead him to water; and if he had chanced to fall into a ditch, they pulled him out: but now it is abfolutely unlawful to give a creature in that fituation

any other affiliance than that of food; and if they lead

bridle or halter hang loole, otherwife they are tranf-

Mide of

they undertake no kind of work on Friday but fuch as can eafily be accomplished before evening. In the afh ve prepared to ent the day following. They afterwards fet out a table covered with a clean cloth, and cloth; and during the fabbath the table is never moved out of its place. About an hour before funiet, the women light the fabbath lamps, which hang in the places where they eat. They then firetch forth their hands to the light, and pronounce the following benedition. " Bleffed be thou, O God, king of the commandments, to light the fabbath lamp." There lamps are two or more in number, according to the fize of the chamber in which they are suspended, and costinue to burn during the greatest part of the night. In and faces, trim their hair, and pare their nails, beginning at the fourth finger, then going to the fecond, then the fifth, then the third, and er ing with the thumb. If a Jew casts the parings of his mails to the ground, he is rafeah, that is, a wicked man; for Satan las great power over those parings of nails; and it seems they are of great use to the wizzards, who know how to employ them in their enchantments. If he buries them in the earth, he is txedic, that is, a juff man: if he burns them in the fire, he is chefid, that is, worthy of honour, an holy man. When they have performed these preparatory ceremonies, they repair to the fynagogue, and enter upon their devotions. As foon as prayers begin, the departed fouls spring out of the purgatorial flames, and have liberty to cool themselves in water while the fabbath lasts; for which reason the Jews prolong the continuance of it as much as they can; and the Sabbath. Babbins have thrictly commanded them not to exhault all the water on the fabbath day, left those milerable fouls thould by that means be deprived of the refrething element. When they have ended their players, they return home, and insute one another, by withing a good the family takes a cup full of wine, and lifting up his hand, feys, " Bleffed be thou, O God our Lord, king of the world, who haft created the fruit of the vine. Blefild be thou, O God our Lord, king of the world, who halt fanclified us by thy commandments, and given us thy holy fabbach; and of thy good will and pleature ha. left it to us an inheritance, the memorial of thy works of creation. For it is the beginning of the congregation of faints, and the memorial of the coming out of Egypt. And thou hast also chosen us from all other people, and fauchified us, and with love and pleafure hait left thy holy fabbath an inheritance. Bleded be thou, O God, who fanctified the labouth." After this benedistion is ended, he drinks and gives the cup to all that are present. He then removes the cloth, and taking bread, favs, " Bieffed be thou, O God our Lord, king of the world, who bringeft bread out of the earth." Then

Ca the morning of the ! Weath, the Jews do not rife fo early as they do at other times. Thinking, the greater ple fure they take on that day, the more devoully they keep it. When they come into the fynagogue, they pray as usual, only the devotions are tomewhat longer, being intermineded with pfalmody, in honour of the fal bath. The Pentateuch is then produced. and feven festions of it are read in order by feven perfons chosen for the purpose. Several lessons are likewise read out of the prophets, which have fome relation to they return to their houses, and eat the second sabbathmeal, shewing every token of joy, in honour of the festival. But if one has feen any thing ominous in his fleen; if he has dreamed that he burnt the book of the law; that a beam has come out of the walls of his boufe; th t his teeth have follen out; -then he fatts until very late at night, for all fuch dreams are ball ones. In the afternoon they go again to the fyn-gogue, and perform the evening fervice, adding to the ordinary prayers fome leifons that respect the sabbath. When the devotional duties are ended, they return home, and light a candle refembling a torch, and again fit down to eat. They remain eating until near fix, and then the mafter of the family takes a cup, and pouring wine into it rehearfes fome benedictions; after which he pours a little of the wine upon the ground, and fays, " Bleffed be thou, O Lord, King of the world, who hast created the fruit of the vine." Then helding the cup in his left hand, with the right he takes a box of fweet spices, and favs, " Bleffed be thou, O Lord God, who hast created various kinds of fweet spices." He smells the spices, and holds them out to the reft, that they may do the fame. He then takes the cup in his right hand, and going to the candle views the left very narrowly, and pronounces a bleffing. With the cup in the left hand, he examines the right in the same manner. Again, holding the cup in his right hand, he rehearfes another benediction, and at the fame time pours some of the wine

Saidath on the ground. After this he drinks a little of it, and then bands it about to the reft of the family, who finish what remains. In this manner the fab! ath is ended by the Jews, and they may return to their ordinary emel wments. Those who meet pay their compliments,

by withing one another a happy week.

tions ob-

Laft tution

The Rabbins have reckoned up nite and thirty primary prohibitions, which ought to be observed on the fabbatic festival; but their circumstances and dependents, which are also obligatory, are almost innumerable. The 39 articles are, Not to till the ground; to fow; to reap; to make hay; to bind up theaves of corn; to thresh; to winnow; to grind; to sift meal; to knead the dough; to bake; to thear; to whiten; to comb or card wool; to fpin; to twine or twint; to warp; to dye; to tie; to untie; to few; to tear or pull in pieces; to build; to pull down; to beat with a hammer; to hunt or fish; to kill a beast; to flay it; to dress it; to scrape the skin; to tan it; to cut leather; to write; to feratch out; to rule paper for writing; to kindle a fire; to extinguish it; to carry a thing from place to place; to expose any thing to sale. These are the primary prohibitions, and each of these has its proper confequences, which amount to an incredible number; and the Jews themselves say, that if they could keep but two fabbaths as they ought, they would foon

be delivered out of all their troubles. If a Jew on a journey is overtaken by the fabbath in a wood, or on the highway, no matter where, nor under what circumstances, he fits down; he will not stir out of the Ipot. If he falls down in the dirt, he lies there; he will not rife up. If he should tumble into a privy, he would rest there: he would not be taken out (A). If he fees a flea fkipping upon his clothes, he must not catch it, . If it bites him he may only remove it with his hand; he must not kill it; but a louse meets with no fuch indulgence, for it may be destroyed. He must not wipe his hands with a towel or cloth, but he may do it very lawfully with a cow's tail. A fresh wound must not be bound up on the sabbath-day; a platter that had been formerly applied to a fore may remain on it; but if it falls off, it must not be put on anew. The lame may use a staff, but the blind must not. These particulars, and a great many more of the fame nature, are observed by the Jews in the strictest manner. But if any one wishes to know more of the practice of that devoted race, he may confult Buxtorf's Judaica Sunagoga, chap. x. xi. where he will find a complete detail of their customs and ceremonies on the fabbath; and likewise see the primary prohibitions branched out into their respective circumstances.

As the seventh day was observed by the Jewish church, in memory of the rest of God after the works of creation, and their own deliverance from Pha-Lord's day. raoh's tyranny; so the first day of the week has always been observed by the Christian church, in memory of the refurrection of Jesus Christ, by which he completed the work of man's redemption on earth, and refcued him from the dominion of him who has the power of Sublimition eleath.

This day was denominated by the primitive Chriflians the Lord's day. It was also femetimes called Sunday; which was the name given to it by the heathens, who dedicated it to the fun. And indeed, although it was originally called Sunday by the heathens, yet it may very properly retain that name among Chri-Rians, becaute it is dedicated to the honour of " The true light," which lighteth every man that cometh into the world, of Him who is styled by the prophet "The Sun of righteoulness," and who on this day arose from the dead. But although it was, in the primitive times, indifferently called the Lord's day or Sunday, yet it was never denominated the fabbath; a name constantly appropriated to Saturday, or the feventh day, both by facred and ecclefiaftical writers.

Of the change from the feventh to the first day of The menthe week, or even of the inftitution of the Lord's day tion of it the week, or even of the intitution of the Lord's day in the New fellival, there is no account in the New Teltament, Testament However, it may be fairly inferred from it, that the first accidenday of the week was, in the apostolic age, a stated tal; time for public worship. On this day the apostles were affembled, when the Holy Ghoft came down to visitly upon them to qualify them for the conversion of the world. On this day we find St Paul preaching at Troas, when the disciples came to break bread : and the directions which the fame apostle gives to the Corinthians concerning their contributions for the relief of their fuffering brethren, plainly allude to their reli-

gious affemblies on the first day of the week.

Thus it would appear from feveral passages in the New Testament, that the religious observation of the first day of the week is of apostolical appointment; and may indeed be very reasonably supposed to be aure g those directions and instructions which our blessed Lord himself gave to his disciples, during the 40 days between his refurrection and afcention, wherein he conversed with them, and spoke of the things pertaining to the kingdom of God. Still, however, it must be owned that those passages, although the plainest that occur, are not sufficient to prove the apostolical institution of the Lord's day, or even the actual observation of it. In order, therefore, to place the matter beyond all controversy, recourse must be had to ecclesiastical testimony.

From the confentient evidence and uniform practice of the primitive church, and also from the attestation of Pliny, an heathen of no mean figure both in learning and power, we find that the first day of the week was observed in the earliest ages as a holyday or festival, in honour of the refurrection of Christ. Now there are but two fources whence the cultom could possibly have arisen. It must have been instituted either by human or divine authority: by human authority it was not instituted; for there was no general council in those early times, and without the decree of a general council it was impessible that any ecclesiastical institution

could

<sup>(</sup>A) This, it seems, was once really the case. A Jew of Magdeburg fell into a privy on a Saturday. He might have been taken out; but he told those who offered him their assistance to give themselves no trouble, for there he was determined to keep holy the labbath day. The bishop, when he heard of it, resolved that he should landtily the next day also in the same place; and so, betwirt them, the poor Jew lost his life.

but nevertheless it appears to be of divine origin.

day was

How it

was objet-

wed in the

primitive

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instituted.

Sabbath, could have been univerfally established at once. It remains, therefore, that it must have been instituted by divine authority: and that it really was fo, will farther appear from the following confiderations. It is certain that the apostles travelled over the greatest part of the world, and planted churches in the remotest parts of it. It is certain also that they were all led by the same spirit; and their defire was, that unity and uniformity should be observed in all the churches which they had founded. It is not therefore furprifing that, in the primitive times, the same doctrine, the same worship, the same rites and customs, should prevail all over the Christian world; nay, it would have been unaccountable had the case been otherwife. For this reason we may conclude that every custom, universally observed in the early ages of the Christian church, and not instituted by a general council, was of original appointment.

Purpose for which the As the Lord's day is fanctified, that is, fet apart to Christians for the worship and service of God, their Creator, Redeemer, and Sanctifier, a little confideration will eafily discover how it ought to be observed. Although a day separated from worldly business, yet it is in no fense a day of idleness, but a season appropriated to the works of falvation and labours of

charity.

In the primitive times this holy day was observed in the most folemn manner. From the monuments of those early ages we learn, that it was front in a due and constant attendance on all the offices of divine worship. On it they held their religious assemblies, in which the writings of the apostles and prophets were read to the people, and the doctrines of Christianity further preffed upon them by the exhortations of the clergy. Solemn prayers and praifes were offered up to God, and hymns fung in honour of Christ; the Lord's fupper was conflantly celebrated; and collections were made for the maintenance of the clergy and the relief of the poor. On this day they abstained, as much as they could, from bodily labour. They looked upon it as a day of joy and gladness; and therefore all falling on it was prohibited, even during the feafon of lent, their great annual fast .- Such was the zeal of those times, that nothing, no not the severest persecutions, hindered them from celebrating holy offices on this day. They were often befet and betrayed, and as often flaughtered in confequence of cruel edicts from emperors, those very emperors for whose happiness and prosperity they always offered up their fervent prayers. For this cause, when they could not meet in the daytime, they affembled in the morning before it was light; and when fick, in exile, or in prison, nothing troubled them more than that they could not attend the fervice of the church. No trivial pretences were then admitted for any one's absence from public worship; for sewere censures were passed upon all who were absent without fome urgent necessity. When the empire became Christian, Constantine and his successors made laws for the more folemn observation of the Lord's day. They prohibited all profecutions and pleadings and other juridical matters to be transacted on it, and also all unnecessary labour; not that it was looked upon as a Jewish fabbath, but because these things were considered as inconfident with the duties of the festival.

But although the primitive Christians did not in-

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dulge themselves in the practice of unnecessary labour Sabbath. or triffing amufements, yet they did not wholly abit ia from working, if great necessity required it. The council of Lande a enjoined that men should abstain from work on the Lard's day if pollible; but if any were found to judaize, they were to be centured as great transgresfors. So circumfued were the primitive Christians about their conduct on this festival, that on the one hand they avoided all things which tended to profane it, whillt on the other they cenjured all those who infifted it should be observed with Pnarifaical ri-

The primary duty of the Lord's day is public wor- Advinta-The nature and defign of the Christian religion ges relunfutliciently shows the necessity and importance of af in the older fembling for the duties of devotion. The whole scope vation of of Christianity is to bring us to an union with God, tt. which cannot be obtained or preferved without frequent communications with him; and the reasons which fhow religious intercourse to be the indispensable duty of Christians in a private capacity, will bind it with equal or more force on them confidered as a commu-

The advantages of public worship, when duly performed, are many and great. There are two, however, which deferve to be confidered in a particular manner. It gives Christians an opportunity of openly professing their faith, and tellifying their obedience to their Redeemer in the wifest and best manner; and in an age when atheism has arisen to an alarming height, when the Son of God is crucified afresh, and put to open shame, every man, who has any regard for religion, will cheerfully embrace all opportunities of declaring his abhorrence of the vicious courses pursued by those degenerate apoltates. He will with pleasure lay hold on every occasion to testify that he is neither afraid nor ashamed to confess the truth; and will think it his indispensable duty openly to disavow the fins of others, that he may not incur the guilt of partaking of them.

Public worthip preserves in the minds of men a sense of religion, without which fociety could not exist. Nothing can keep a body of men together and unite them in promoting the public good, but such principles of action as may reach and govern the heart. But thefe can be derived only from a fense of religious duties, which can never be fo firongly impressed upon the mind as by a conftant attendance upon public worship. Nothing can be more weak than to neglect the public worthip of God, under the pretence that we can employ ourselves as acceptably to our Maker at home in our closets. Both kinds of worthin are indeed necessary: but one debt cannot be paid by the discharge of another. By public worthip every man protestes his belief in that God whom he adores, and appeals to Him for his fincerity, of which his neighbour cannot judge. By this appeal he endears himself more or less to others. It creates confidence; it roots in the heart benevolence, and all other Christian virtues, which produce, in common life, the fruits of mutual love and general peace.

People in general are of opinion that the duties of the Lord's day are over when public worship is ended. But they feem to forget for what purpofes the day was fet apart. It is not only appropriated to the duties of public worthip, but also sanctified to our improvement in the knowledge of the doctrines of Christianity. It

"Sabbath is an inflitution calculated to alleviate the condition of the laborious challes of mankind, and, in confequence of that, to afford ret to begfs also. It is proper, it is necessary, that man thould redect on his condition in the world, that he thould examine the flate of his soul, and inquire what progress he has made in that work which

was given him to do. Those that have children or seryants are obliged to look after their influrction as well as their own. These are the ends which the institution of Sunday was designed to answer. Every man must allow that these things must be done at some time or other; but unless there be fet times for doing them, the generality of mankind would wholly neglect them, the

Fifting and traveling (though very common) are enormous profanations of this holy day. Families are thereby pobbed of their time; a lots for which no amends can ever be made them: Servants, inflead of having leifure to improve themfelves in lipititual knowledge, are bordened with additional labour: And in a man of any humanity, it must excite many painful fenfations, when he reflects how often the ufeful harfe on that day experiences all the anguish of hunger, torn fides, and battered knees. Every kind of ammelment, every kind of common labour, is an encroachment on the particular duties of the Lord's day; and confequently men profane the day by fpending it in any amusements, or uncleataking upon it any ordinary employment unlefs it be

a work of abiolute necessity.

SABBATH Breaking, or profanation of the Lord's day. is punithed by the municipal laws of England. For, besides the notorious indecency and scandal of permitting any fecular bufiness to be publicly transacted on that day in a country profelling Christianity, and the corruption of morals which usually follows its profanation, the keeping one day in feven holy, as a time of relaxation and refreshment, as well as for public worthip, is of admirable fervice to a flate, confidered merely as a civil institution. It humanizes, by the help of conversation and society, the manners of the lower clasfes; which would otherwise degenerate into a fordid ferocity and favage felfilhness of spirit : it enables the industrious workman to prusue his occupation in the enfuing week with health and cheerfulness: it imprints on the minds of the people that fenfe of their duty to God fo necessary to make them good citizens; but which yet would be worn cut and defaced by an unremitted continuance of labour, without any stated times of recalling them to the worship of their Maker. And therefore the laws of King Athelilan forbade all merchandizing on the Lord's day, under very fevere penalties. And by the flatute 27 Hen. VI. c. 5. no fair or market shall be held on the principal festivals, Goodfriday, or any Sunday (except the four Sundays in harvest), on pain of forfeiting the goods exposed to fale. And, fince, by the flatute I Car. I. c. 1. no perfons shall assemble, out of their own parishes, for any sport whatfoever, upon this day; nor, in their parishes, shall use any bull or bear beating, interludes, plays, or other unlawful exercises or pastimes; on pain that every offender shall pay 3s. 4d. to the poor. This statute does not prohibit, but rather impliedly allows, any innocent recreation or amusement, within their respective parishes, even on the Lord's day, after divine service is over. But by statute 29 Car. II. c. 7. no person is allowed to work on the Lord's day, or use any boat or

barge, or expole any goods to fale, except meat in Sabellans public houses, milk at certain hours, and works of negligories of Sabellans and sabellans and sabellans and sabellans of the sabellans of the sabellans of the sabellans of the sabellans and sabellans are sabellans.

SAPELLIANS, a fed of Christians of the 3d century, that embraced the opinions of Sabellius, a philosopher of Egypt, who openly taught that there is but

one person in the Godhead.

The Sabellians maintained, that the Word and the Holy Spirit are only virtues, emanations, or functions of the Deity; and held, that he who is in heaven is the Father of all things, that he defeended into the virgin, became a child, and was burn of her as a fon; and that having accomplified the mystery of our falvation, he diffused himself on the aposites in tongues of fire, and was then denominated the Holy Ghyst. This they explained by refembling God to the fun, the illuminative virtue or quality of which was the Word, and its warming virtue the Holy Spirit. The Word, they taught, was darted, like a divine ray, to accomplish the work of redemption; and that being re-ascended to heaven, the influences of the Father were communicated after a like manner to the aposses.

SABIANS, an early fect of idolaters, which continues to this day, and worships the sun, moon, and stars.

See POLYTHEISM, No 10, 11, 12.

SABINA, a province of Italy, in the territories of the church; bounded on the north by Umbriz, on the east by Farther Abruzzo, on the foath by the Campagna of Rome, and on the west by the partimony of St. Peter. It is 22 miles in length, and almost as much in breadth; watered by several small rivers, and abounding in oil and wine. There is no walled town in it;

and Magliano is the principal place.

SABINUS, Gronge, a celebrated Latin poet, born in the electorate of Brandenburg in 1508. His poem Res gefte Cefarum Germanorum, spread his reputation all over Germany, and procured him the patronage of all the princes who had any regard for polite literature: he was made professor of the belies lettres at Frankfort on the Oder, rector of the new academy of Koningiburg, and counfellor to the elector of Brandenburg. He married two wives, the first of whom was the eldet daughter of the famous reformer Melancthon; and died in 1560. His poems are well known, and bave been often printed.

SABLE, or SABLE Animal, in Zoology, a creature of the weafel-kind, called by authors muffela zibellina.

See MUSTELA, MAMMALIA Index.

The chafe of thefe animals, in the more barbarous times of the Ruffian enapire, was the employment, or rather tafk, of the unhappy exiles in Siberia. As that country is now become more populous, the fables have in a great meafure quitted it, and retired farther north and eafly, to live in defect foreits and mountains: they live near the banks of rivers, or in the little lifands in them; on this account they have, by 6mee, been fupposed to be the Lasquir of Aristotle (Hife. An. lib. viii. c. 5.), which he classes with the animals conversant among waters.

At prefent the hunters of fables form themselves into troops, from five to forty each: the last subdivide into lester parties, and each chooses a leader; but there is one that directs the whole: a small covered boat is

provided

Sable muovided for

provided for each party, loaded with provifions, a dog and net for every two men, and a welfel to bake their bread in : each party allo has an interpreter for the country they penetrate into. Every party then fets out according to the courfe their chief points out: they on against the fiream of the rivers, drawing their boats up, till they arrive in the hunting country; there they flop, build huts, and wait till the waters are frozen, and the fealon commences: before they begin the chafe, their leader affembles them, they unite in a prayer to the Almighty for fucces, and then fearants: the first

fable they take is called God's fable, and is dedicated to

They then penetrate into the woods; mark the trees as they advance, that they may know their way back; and in their hunting quarters form huts of trees, and bank up the fnow round them : near thefe they lay their traps; then advance farther, and lay more traps, still building new buts in every quarter, and return fucceffively to every old one to vifit the traps and take out the game to kin it, which none but the chief of the party must do: during this time they are supplied with provisions by persons who are employed to bring it on fledges, from the places on the road, where they are obliged to form magazines, by reason of the impracticability of bringing quantities through the rough country they must pals. The traps are a fort of pitfall, with a loofe board placed over it, baited with fish or flesh; when sables grow scarce, the hunters trace them in the new-fallen frow to their holes; place their nets at the entrance; and fometimes wait, watching two or three days for the coming out of the animal: it has happened that these poor people have, by the failure of their provisions, been so pinched with hunger, that, to prevent the cravings of appetite, they have been reduced to take two thin boards, one of which they applied to the pit of the stomach, the other to the back, drawing them tight together by cords placed at the ends: fuch are the hardships our fellow-creatures undergo to supply the wantonness of luxury.

The feafon of chace being finished, the hunters reaffemble, make a report to their leader of the number of fables each has taken; make complaints of offenders against their regulations; punish delinquents; share the booty; then continue at the head-quarters till the rivers are clear of ice; return home, and give to every church

the dedicated furs.

SABLE, Cape, the most foutherly province of Nova Scotia, in North America, near which is a fine cod-fishery. W. Long. 65, 34. N. Lat. 43, 24,

Sable Isle is adjoined to this cape, and the coasts of both are most commodiously situated for sisteries.

SAELE Trade, the trade carried on in the skins or furs of sables; of which the following commercial hiflory was translated by Mr J. R. Forster from a Russian performance on that subject by Mr Muller.

"Sable; foble, in Rustian; zoble in German. Their price varies from 11. to 101. Iterling, and above: fine and middling sable-skins are without bellies, and the coarse ones are with them. Forty skins make a collection called zimmer. The finest sables are sold in pairs perfectly similar, and are dearer than single ones of the same goodness: for the Rustians want those in pairs for facing caps, cloaks, tippets, bec. the blackest are reputed the best. Sables are in season from November to February; for those caught at any other time of the year are short-haired, and then called nedoslosis.

The hair of fables differs in length and quality : the ".hte. long hairs, which reach far beyond the interior ones. are called os; the more a fkin has of fuch long hairs. the blacker it is, and the more valuable is the fur; the very best have no other but those long and black hairs. Motchka is a technical term used in the Ruffian furtrade, expressing the lower part of the long hairs; and fometimes it comprehends likewife the lower and shorter hairs: the above-mentioned best fable furs are faid to have a black motchka. Below the long hairs are, in the greater part of the fable-furs, fome shorter hairs, called podofie, i. e. under os; the more podofie a fur has, it is the less valuable: in the better kind of fables the podofie has black tips, and a gray or rufty motchka. The first kind of motchka makes the middling kind of fable furs; the red one the worst, especially if it has but few os. Between the os and podofie is a low woolly kind of hair, called podfada. The more podfada a fur has, the less valuable : for the long hair will, in such case, take no other direction than the natural one; for naturally lies from the head towards the tail, yet it will lie equally in any direction as you firike your hand over it. The various combinations of these characters. in regard to os, motchka, podofie, and podfada, make many special divisions in the goodness of furs : besides this, the furriers attend to the fize, preferring always, cateris paribus, the biggeft, and those that have the greatest gloss. The fize depends upon the animal being a male or a female, the latter being always fmailer. The gloss vanishes in old furs: the fresh ones have a kind of bloomy appearance, as they express it; the old ones are faid to have done blocming; the dyed fables always lofe their glofs; become lefs uniform, whether the lower hairs have taken the dye or not; and commonly the hairs are fomewhat twifted or crifped, and not so straight as in the natural ones. Some fumigate the fkins, to make them look blacker; but the fmell, and the crifped condition of the long hair, betrays the cheat; and both ways are detected by rubbing the fur with a moist linen cloth, which grows black in such cases.

"The Chinele have a way of dyeing the fables, fo that the colour not only lasts (which the Russian cheats cannot do), but the fur keeps its gloß, and the crifped hairs only discover it. This is the reason that all the fables, which are of the best kind, either in pairs or separate, are carried to Ruffia; the rest go to China. The very best fables come from the environs of Nertchitik and Yakutik; and in this latter diffrict, the country about the river Ud affords fometimes fables, ef which one fingle fur is often fold at the rate of 60 or 70 rubles, 121 or 141. The bellies of fables, which are fold in pairs, are about two fingers breadth, and are tied together by 40 pieces, which are fold from 11. to 2l. sterling. Tails are fold by the hundred. The very best fi ble-furs must have their tails; but ordinary fables are often cropped, and 100 fold from 41. to 81. sterling. The legs or feet of fables are feldom fold feparately; white fables are rare, and no common merchandize, but bought only as curiofities : feme tre yellowish, and are bleached in the spring on the show."

SABLE, in Hereldry, figniles "black;" and is borrowed from the French, were most terms in this feience; in engraving it is exprected by both Indirected and perpendicular lines crofting each other. Sable of itself fignifies conflarcy, learning, and grief; and ancient heralds will have it, that when it is compounded with

Saccharum

Or '		Honour.
Arg.	es !	Fame.
Gul.	44	Respect.
Azu.	in S	Application.
Ver.	t ti	Comfort.
Por		Authority

The occasion that introduced this colour into heraldry is thus related by Alexander Nifbet, p. 8. The duke of Anjou, king of Sicily, after the loss of that kingdom, appeared at a tournament in Germany all in black, with his shield of that tineture, femé de larmes, i. e. befprinkled with drops of water, to represent tears, indicating by that both his grief and lofs.

SABLESTAN, or SAELUSTAN, a province of Afia. in Persia, on the frontiers of Indostan; bounded on the north by Khorasan; on the east, by the mountains of Balk and Candahar; on the fouth, by Sagestan or Segestan; and on the west, by Heri. It is a mountainous country, very little known to Europeans; nor is it cer-

tain which is the capital town.

SABRE, a kind of fword or fcimitar, with a very broad and heavy blade, thick at the back, and a little falcated or crooked towards the point. It is the ordinary weapon worn by the Turks, who are faid to be very expert in the use of it.

SABURRA, in Medicine, usually denotes any collection of half putrid indigested matter in the stomach and intestines, by which the operation of digettion is

impeded.

SABURRÆ, GRITTS, in Natural History; a kind of frone, found in minute maffes. They are of various colours, as stony and sparry gritts, of a bright or greyish white colour; red ftony gritts; green ftony gritts;

vellow gritt; blackish gritts.

SACÆA, a feaft which the ancient Babylonians and other orientals held annually in honour of the deity Anaitis. The Sacrea were in the East what the Saturnalia were at Rome, viz. a feaft for the flaves. One of the ceremonies was to choose a prisoner condemned to death, and allow him all the pleasures and gratifications he would wish, before he were carried to ex-

SACCADE, in the manege, is a jerk more or less violent, given by the horseman to the horse, in pulling or twitching the reins of the bridle all on a fudden and with one pull, and that when a horse lies heavy upon the hand, or obstinately arms himself.

This is a correction used to make a horse carry well; but it ought to be used discreetly, and but seldom.

SACERDOTAL, fomething belonging to priefts. See PRIEST.

SACCULUS, in Anatomy, a diminutive of faccus, fignifies a little bag, and is applied to many parts of the

SACCHARUM, Sugar, or the Sugar-Cane, a genus of plants belonging to the triandria class; and in the natural method ranking under the 4th order, Gramina. See BOTANY Index.

This plant is a native of Africa, the East Indies, and of Brazil; from whe ce it was introduced into our West India islands soon after they were settled. The fugar cane is the glory and the pride of those islands. It amply rewards the industrious planter, enriches the British merchant, gives bread to thousands of manufacturers and leamen, and brings an immense tevenue to Sectionem the crown. For the process of making fugar, see Su-

Sugar, formerly a luxury, is now become one of the necessaries of life. In crop-time every pegro on the plantations, and every animal, even the dogs, grow fat, This fufficiently points out the nourishing and healthy qualities of fugar. It has been alleged, that the eating of fugar spoils the colour of, and corrupts, the teeth : this, however, proves to be a mistake, for no people on the earth have finer teeth than the negroes in Jamaica. Dr Alston, formerly professor of botany and materia medica at Edinburgh, endeavoured to obviate this vulgar opinion; he had a fine fet of teeth, which he afcribed folely to his eating great quantities of fugar. Externally too it is often useful: mixed with the pulp of roafted oranges, and applied to putrid or ill disposed ulcers, it proves a powerful corrector.

SACCHAROMETER, an inftrument for afcertaining the value of worts, and the strength of different kinds of malt liquor. The name fignifies a measurer of fweetness. An instrument of this kind has been invented by a Mr Richardson of Hull, on the following principle. The mentlruum or water, employed by the brewer, becomes more denfe by the addition of fuch parts of the materials as have been diffolved or extracted by, and thence incorporated with it : the operation of boiling, and its subsequent cooling, still adds to the denfity of it by evaporation; fo that when it is submitted to the action of fermentation, it is denfer than at any

other period.

In passing through this natural operation, a remarkable alteration takes place. The fluid no tooner begins to ferment than its denfity begins to diminish; and as the fermentation is more or less perfect, the fermentable matter, whose accession has been traced by the increase of denfity, becomes more or less attenuated; and in place of every particle thus attenuated, a spirituous particle, of less density than water, is produced; so that when the liquor is again in a state of rest, it is so much specifically lighter than it was before, as the action of fermentation has been capable of attenuating the component parts of its acquired density; and if the whole were attenuated in this manner, the liquor would become lighter, or less dense than water, because the quantity of spirit produced from the fermentable matter, and occupying its place, would diminish the denfity of the water in some degree of proportion to that in which the latter has increased it.

SACHEVEREL, DR HENRY, a famous clergyman of the Tory faction in the reign of Queen Anne; who dittinguished himself by indecent and scurrilous sermons and writings against the diffenters and revolution principles. He owed his confequence, however, to being indiscreetly prosecuted by the house of lords for his affizefermon at Derby, and his 5th of November fermon at St Paul's in 1709; in which he afforted the doctrine of non-refiftance to government in its utmost extent; and reflected severely on the act of toleration. The high and low church parties were very violent at that time; and the trial of Sacheverel inflamed the highchurch party to dangerous riots and excesses: he was, however, fulpended for three years, and his fermons burned by the common hangman. The Tories being in administration when Sacheverel's fuspension expired,

he was freed with every circumstance of honone and public rejoicing; was ordered to preach before the commons on the 29th of May, had the thanks of the house for his discourse, and obtained the valuable rectory of

St Andrew's, Holborn. SACK, a wine used by our ancestors, which some have taken to be Rheni'h and fome Capary wine .-Venner, in his Via Rolla ad Vitam Longam, printed in 1628, fays that fack is "completely not in the third degree, and that fome affect to drink fack with fugar and fome without; and upon no other ground, as I think, but as it is boft pleafing to their palate." He goes on to fav, " that fack, taken by itself, is very hot and very penetrative; being taken with fugar, the heat is both fomewhat allayed, and the penetrative quality thereof alle retarded." He adds farther, that Rhenith, &c. decline after a twelvemonth, but fack and the other fronger wines are bed when they are two or three years old. It appears to be highly probable that fack was not it did not receive its name from having a facebarine flayour, but from its being originally flored in facks or borachios. It does not appear to have been a French wine, but a strong wine the production of a hot climate. Probably it was what is called dry mountain, or fome Spanish wine of that kind. This conjecture is the more plaufible, as Howell, in his French and English Dictionary, printed in the year 1650, translates fack by the words vin d'Espanne, vin sec.

SACK of Wool, a quantity of wool containing just 22 stones, and every stone 14 pounds. In Scotland, a fack is 24 stones, each stone containing 16 pounds.

SACK of Cotton Wool, a quantity from one hundred and a half to four hundred weight.

SACKS of Earth, in Fortification, are canvas bags filled with earth. They are used in making retrenchments in hafte, to place on parapets, or the head of the breaches, &c. to repair them, when beaten down.

SACKBUT, a mufical inflrument of the wind kind, being a fort of trumpet, though different from the common trumpet both in form and fize; it is fit to play a bass, and is contrived to be drawn out or shortened. according to the tone required, whether grave or acute. The Italians call it trombone, and the Latins tuba duc-

SACKVILLE, THOMAS, Lord Buckhurft, and Earl of Dorlet, a statesman and poet, the son of Richard Sackville, Efq. of Buckhurft, in the parish of Withian in Suffex, was born in the year 1536. He was fent to Hart-hall in Oxford, in the latter end of the reign of Edward VI, whence he removed to Cambridge, where he took a mafter of arts degree, and thence to the Inner Temple. He now applied himself to the findy of the law, and was called to the bar. We are told that he commenced poet whilit at the universities, and that these his juvenile productions were much admired, none of which, however, have been preferred .-In the fourth and fifth year of Queen Mary, we find him a member of the house of commons; about which time, in 1557, he wrote a poetical piece, entitled The Induffion, or The Mirror of Magiffrates. This last was greant to comerchend all the unfortunate Great from the beginning of our history; but the defign being drop. ped, it was inferted in the body of the work. The Mirror of Magistrates is formed on a dramatic plan;

in which the perfors are introduced (peaking. The In. Sackatte. duction is written much in the flyle of Spencer, who, with fome probability, is supposed to have imitated this

In 1561, his tragedy of Gorboduc was afted before Queen Elimbeth by the gentlemen of the Inner Temple. This was the first tolerable tragedy in our language. The Companion to the Playhouse tells us, that the three first acts were written by Mr Tho. Norton, Sir Philip Sidney, in his Apology for Poetry, fays, thit is full of stately speeches, and well-founding phrases, climbing to the height of Seneca in his fivle. &cd." Rymer speaks highly in its commendation. Mr Spence, at the infligation of Mr Pope, republished it in 1726. with a pompous preface. It is faid to be our first dramatic piece written in verse.

In the first parliament of this reign, Mr Sackville was member for Suffex, and for Bucks in the fecond. In the mean time he made the tour of France and Italy, and in 1;66 was imprisoned at Rome, when he was informed of his tather's death, by which he became

possessed of a very considerable fortune.

Having now obtained his liberty, he returned to England; and being first knighted, was created Lord Buckhurft. In 1570 he was fent ambaffador to France. In 1586 he was one of the commissioners appointed to try the unfortunate Mary queen of Scots; and was the messenger employed to report the confirmation of her fentence, and to fee it executed. The year following he went ambaffador to the States General, in consequence of their complaint against the earl of Leicefter; who, disliking his impartiality, prevailed on the queen to recal him, and confine him to his house. In this state of confinement he continued about to months. when Leicester dying, he was restored to favour, and in 1580 was installed knight of the garter: but the most incontrovertible proof of the queen's partiality for Lord Buckhurst appeared in the year 1591, when she caused him to be elected chancellor in the university of Oxford, in opposition to her favourite Edlex. In 150%. on the death of the treasurer Burleigh, Lord Buck turst fucceeded him, and by virtue of his office became in effect prime minister; and when, in 1601, the earls Effex and Southampton were brought to trial, he facas lord high steward on that awful occasion.

On the accession of James I, he was graciously received, had the office of lord high treasurer confirmed to him for life, and was created earl of Dorlet. He continued in high favour with the king till the day of his death; which happened fuddenly, on the 10th of April 1608, in the council chamber at Whitehall. He was interred with great folemnity in Westmintter abbey. He was a good poet, an able minister, and an honest man. From him is descended the present noble family of the Dorfets. " It were needless (favs Mr Walpole) to add, that he was the patriarch of a race of genius

SACKVILLE, Charles, earl of Derfet, a celebrated wit and poet, descended from the foregoing, was born in 1637. He was, like Villiers, Rochefter, Sedley, &c. one of the libertines of King Charles's court, and fometimes indulged himfelf in inexcufable excesses. Hie openly discountenanced the violent measures of James 11. and engaged early for the prince of Orange, by whom her was made lord chamberlain of the household, and

Sacrament taken into the privy-council, He died in 1706, and left feveral poetical pieces, which, though not confiderable enough to make a volume by themselves, may be

found among the works of the minor poets, published in

1749. SACRAMENT is derived from the Latin word facramentum, which fignifies an oath, particularly the oath taken by foldiers to be true to their country and general. The words of this oath, according to Polybins, were, obtemperaturus sum et facturus quicquid mandabitur ab imperatoribus juxta vires. The word was adopted by the writers of the Latin church, and employed, perhaps with no great propriety, to denote those ordinances of religion by which Christians came under an obligation, equally facred with that of an oath, to observe their part of the covenant of grace, and in which they have the affurance of Christ that he will fulfil his

part of the fame covenant. Of facraments, in this fense of the word, Protestant churches admit of but two; and it is not eafy to conceive how a greater number can be made out from Scripture, if the definition of a facrament be just which is given by the church of England. By that church, the meaning of the word facrament is declared to be " an outward and visible fign of an inward and spiritual grace given unto us, ordained by Christ himself as a means whereby we receive the fame, and a pledge to affure us thereof," According to this definition, baptifm and the Lord's Supper are certainly facraments; for each confifts of an outward and vifible fign of what is believed to be an inward and spiritual grace; both were ordained by Christ himself, and by the reception of each does the Christian come under a folemn obligation to be true to his divine master, according to the terms of the covenant of grace. (See BAPTISM and SUPPER of the Lord). The Romanists, however, add to this number confirmation, penance, extreme unction, ordination, and marriage, holding in all feven facraments; but two of those rites not being peculiar to the Christian church cannot possibly be Christian facraments, in contradistinction to the facraments or obligations into which men of all religions enter. Marriage was inflituted from the beginning, when God made man male and female, and commanded them to be fruitful, and multiply and replenish the earth; and penance, as far as it is of the same import with repentance, has a place in all religions which teach that God is merciful, and men fallible .-The external feverities imposed upon penitents by the church of Rome (see PENANCE) may indeed be in fome respects peculiar to the discipline of that church, though the penances of the Hindoos are certainly as rigid; but none of these severities were ordained by Christ himself as the pledge of an inward and spiritual grace; nor do they, like baptifm and the Lord's Supper, bring men under obligations which are supposed to be analogous to the meaning of the word facramentum. Confirmation has a better title to the appellation of a facrament than any of the other five populh rites of that name, though it certainly was not confidered as fuch by the challest writers of the Christian church, nor does it appear to have been ordained by Christ himself, (see CONFIRMATION). Ordination is by many churches confidered as a very important rite; but as it is not administered to all men, nor has any particular form appropriated to it in the New Testament, it cannot be

confidered as a Christian facrament conferring grace ge- Sacrament nerally necessary to salvation. It is rather a form of authorifing certain perions to perform certain offices, which respect not themselves but the whole church; and extreme unction is a rite which took its life from the priraculous powers of the primitive church vainly claimed by the fucceeding clergy. (See ORDINATION and Extreme UNCTION). These considerations seem to have fome weight with the Romish clergy themselves; for they call the eucharist, by way of eminence, the holy facrament. Thus to expose the holy facrament, is to lay the confecrated host on the altar to be adored .-The procession of the holy facrament is that in which this hoft is carried about the church, or about a town.

Numerous as we think the facraments of the Romifla church, a fect of Christians sprung up in England early in the current century who increased their number .-The founder of this fect was a Dr Deacon, we think, of Manchester, where the remains of it sublisted very lately, and probably do fo at prefent. According to these men, every rite and every phrase in the book called the Apostolical Constitutions were certainly in use among the apostles themselves. Still, however, they make a distinction between the greater and the lesser facraments. The greater facraments are only two, baptism and the Lord's supper. The lesser are no fewer than ten, viz. five belonging to baptifm, exorcifm, anointing with oil, the white garment, a taffe of milk and honey, and anointing with chrism or ointment. The other five are, the fign of the cross, imposition of hands, unction of the fick, holy orders, and matrimony. Of the nature of these lesser facraments, or the grace which they are supposed to confer, our limits will permit us to give no account.

Nor is it necessary that we should. The sect which taught them, if not extinguished, is certainly in its last wane. It has produced, however, one or two learned men; and its founder's Full, True, and Comprehensive View of Christianity, in two Catechisms, is a work which the Christian antiquary will read with pleasure for information, and the philosopher for the materials which it contains for meditation on the workings of the human mind. It was published in 8vo, in the year

Congregation of the Holy SACRAMENT, a religious establishment formed in France, whose founder was Autherius, bishop of Bethlebem, and which, in 1644, received an order from Urban VIII. to have always a number of ecclefiaftics ready to exercise their ministry among pagan nations, wherever the pope, or congregation de propaganda, show!d appoint.

SACRAMENTARIANS, a general name given to all fuch as have published or held erroneous doctrines of the facrament of the Lord's Supper. The term is chiefly applied among Roman Catholics, by way of reproach, to the Lutherans, Calvinists, and other Pro-

testants.

SACRAMENTARY, an ancient Romift churchbook, which contains all the prayers and ceremonies practifed at the celebration of the facraments.

It was wrote by Pope Gelasius, and afterwards revised,

corrected, and abridged, by St Gregory.

SACRE, or SAKER, in Ornithology, the name of a frecies of falcon, called by authors falco facer, and differently described by different authors, but by all agreed to be an extremely bold and active bird. It is a native nf

Sirid, of the northern regions of Europe; and a variety called Sacricee, by some writers the speckled partridge hawk is found at Hudion's bay, North America.

S. CRED, fomething holy, or that is folemnly offered and confecrated to God, with benedictions, unc-

Kings, prelates, and priests, are reckoned facred perions; abbots are only bleffed .- The deaconhood, fubdeaconhood, and prieilhood, are all facred orders, and are faid to impress a facred indelible character. The custom of confecrating kings with holy oil is derived (fays Gutlingius) from the Hebrews; among whom, he agrees with Gretius, it was never used but to kings who had not an evident right by fuccession. He adds, that the Christian emperors never used it before Justin the younger; from whom he takes it to have palled to the Goths, &c.

SACRED is also applied to things belonging to God and the church. Church-lands, ornaments, &c. are held facred.-The facred college is that of the cardi-

SACRED Majelly, is applied to the emperor and to the king of England; yet Loyfean fays it is blafphemy. See MAJESTY. The ancients held a place flruck with thunder as facred. In the civil law, facred place chiefly denotes that where a person deceased has been interred.

SACRED Elixir. See ELIXIR.

SACRIFICE, an offering made to God on an altar, by means of a regular minister, as an acknowledgment of his power, and a payment of homage. Sacrifices (though the term is fometimes used to comprehend all the offerings made to God, or in any way devoted to his fervice and honour) differ from mere oblations in this, that in a facrifice there is a real destruction or change of the thing offered; whereas an oblation is only a simple offering or gift, without any such change at all: thus, all forts of tythes, and first fruits, and whatever of men's worldly substance is consecrated to God, for the fupport of his worship and the maintenance of his minifters, are offerings or oblations; and thefe, under the Jewish law, were either of hving creatures or other things: but facrifices, in the more peculiar fense of the term, were either wholly or in part confumed by fire. They have by divines been divided into bloody and unbloody. Bloody facrifices were made of living creatures; unbloody of the fruits of the earth. They have also been divided into expiatory, impetratory, and eucharifical. The first kind were offered to obtain of God forgiveness of fins; the fecond, to procure fome favour; and the third, to express thankfulness for favours already received. Under one or other of these heads may all facrifices be arranged; though we are told, that the Egyptians had 666 different kinds, a number furpaffing all credibility.

Concerning the origin of facrifices very various opinions have been held. By many, the Phoenicians are fupposed to have been the authors of them; though Porphyry attributes their invention to the Egyptians; and Ovid imagines, from the import of the name victim and hostia, that no bloody facrifices were offered till wars prevailed in the world, and nations obtained victories over their enemies. These are mere hypotheses contradicted by the most authentic records of antiquity, and entitled to no regard.

By modern deifts, facrifices are faid to have had their Sacrifice, origin in superstition, which operates much in the same way in every country. It is therefore weak, according to those men, to derive this practice from any particular people; fince the fame mode of reasoning would lead various nations, without any intercourse with each other, to entertain the fame opinions respecting the nature of their gods, and the proper means of appealing their anger. Men of gross conceptions imagine their deities to be like themselves, covetous and cruel. They are accustomed to appeale an injured neighbour by a composition in money; and they endeavour to compound in the same manner with their gods, by rich offerings to their temples and to their pricits. The most valuable property of a fimple people is their cattle. These offered in facrifice are supposed to be fed upon by the divinity, and are actually fed upon by his priefts. If a crime is committed which requires the punishment of death, it is accounted perfectly fair to appeale the deity by offering one life for another; becaule, by favages, punishment is considered as a debt for which a man may compound in the best way that he can, and which one man may pay for another. Hence, it is faid, arose the abfurd notions of imputed guilt and vicarious atonement. Among the Egyptians, a white bull was chofen as an expiatory facrifice to their god Apis. After being killed at the altar, his head was cut off, and cast into the river, with the following execuation: " May all the evils impending over those who perform this facrifice, or over the Egyptians in general, be averted on this head \*."

Had facrifice never prevailed in the world but among tus, lib. ii. fuch gross idolaters as worshipped departed heroes, who were supposed to retain in their state of deification all the passions and appetites of their mortal state, this account of the origin of that mode of worship would have been to us perfectly fatisfactory. We readily admit, that fuch mean notions of their gods may have actually led far diffant tribes, who could not derive any thing from each other through the channel of tradition, to imagine that beings of human passions and appetites might be appealed or bribed by coftly offerings. But we know from the most incontrovertible authority, that facrifices of the three kinds that we have mentioned were in use among people who worshipped the true God, and who must have had very correct notions of his attributes. Now we think it impossible that such notions could have led any man to fancy that the taking away of the life of a harmless animal, or the burning of a cake or other fruits of the earth in the fire, would be acceptable to a Being felf-existent, omnipotent, and omniscient, who can neither be injured by the crimes of his creatures, nor receive any accession of happiness from a thousand worlds.

Senfible of the force of fuch reasoning as this, some persons of great name, who admit the authenticity of the Jewish and Christian scriptures, and firmly rely ou the atonement made by Christ, are yet unwilling (it is difficult to conceive for what reason) to allow that sacrifices were originally inflituted by God. Of this way of thinking were St Chryfoltom, Spencer, Grotius, and Warburton, as were likewise the Jews Maimonides, R. Levi, Ben Gerson, and Abarbanel. The greater part of these writers maintain, that sacrifices were at fir i a human institution; and that God, in order to prevent

\* Divine

Sacrifice, their being offered to idols, introduced them into his fervice, though he did not approve of them as good in themselves, or as proper rites of worship. That the infinitely wife and good God should introduce into his fervice improper rites of worship, appears to us fo extremely improbable, that we cannot but wonder how fuch an opinion should ever have found its way into the minds of fuch men as those who held it. Warburton's theory of facrifice is much more plaufible, and being more lately published, is worthy of particular examina-

According to this ingenious prelate, facrifices had their origin in the fentiments of the human heart, and in the ancient mode of converfing by action in aid of words. Gratitude to God for benefits received is natural to the mind of man, as well as his bounden duty. "This duty (fays the bishop ") was in the most early Leg. b. ix. times discharged in expressive actions, the least equivocal of which was the offerer's bringing the first fruits of pasturage or agriculture to that sequestered place where the Deity used to be more solemnly invoked, at the stated times of public worship; and there presenting them in homage, with a demeanor which fpoke to this purpose .- 'I do hereby acknowledge thee, O my God! to be the author and giver of all good: and do now, with humble gratitude, return my warmest thanks for these thy bleffings particularly beflowed upon me."-Things thus devoted became thenceforth facred : and to prevent their defecration, the readiest way was to fend them to the table of the priest, or to confume them in the fire of the altar. Such, in the opinion of our author, was the origin of eucharifical facrifices. Impetratory or precative facrifices had, he thinks, the fame origin, and were contrived to express by action an invocation for the continuance of God's favour. " Expiatory facrifices (fays the learned prelate) were in their own nature as intelligible, and in practice as rational, as either of the other two. Here, instead of presenting the first fruits of agriculture and pasturage, in corn, wine, cil, and wool, as in the cuchariffical, or a portion of what was to be fown or otherwise propagated, as in the impetratory; fome chosen animal precious to the repenting criminal who deprecates, or supposed to be obnoxious to the Deity who is to be appealed, was offered up and flain at the altar, in an action which, in all languages, when translated into words, fpeaks to this purpole :- I confe's my transgreations at thy footfool, O my God! and with the deepest contrition implore thy pardon; confessing that I deserve death for these my offences.'-The latter part of the confession was more forcibly expressed by the action of striking the devoted animal, and depriving it of life; which, when put into words, concluded in this manner .- And I own that I myfelf deferve the death which I now inflict on this ani-

This fystem of facrifice, which his lordship thinks fo well fupported by the most early movements of simple nature, we admit to be ingenious, but by no means fatisfactory. That mankind in the earlier ages of the world were accultomed to funnly the deficiencies of their language by expressive gesticulations we are not inclined to controvert : the custom prevails among savage nations, or nations half civilized, at the present day. His lordship, however, is of opinion, and we heartily agree with him, that our first parents were instructed by God

to make articulate founds fignificant of ideas, notions, Sacrifice. and things (fee LANGUAGE, No 6.), and not left to fabricate a language for themselves. That this heaventaught language could be at first copious, no man will fuppole, who thinks of the paucity of ideas which the'e who spoke it had to express; but when we consider its origin, we cannot entertain a doubt but that it was precife and perspicuous, and admirably adapted to all the real purposes of life. Among thele purposes must furely be included the worthip of God as the most important of all. Every fentiment therefore which enters into worship, gratitude, invocation, confession, and deprecation, the progenitors of mankind were undoubtedly taught to clothe in words the most fignificant and unequivocal; but we know from Moles, whose divine legation the bishop furely admitted, that Cain and Abel, the eldest children of our first parents, worshipped God by the rites of facrifice : and can we suppose that this practice occurred to them from their having fo far forgotten the language taught them by their father, as to be under the necessity of denoting by action what they could not express by words? If this supposition be admitted, it will force another upon us still more extrava-Even Adam himfelf must, in that case, have become dumb in consequence of his fall; for it is not conceivable, that as long as he was able to utter articulate founds, and affix a meaning to them, he would cease in the presence of his family, to confess his fins, implore forgiveness, and express his gratitude to God for all his

The right reverend writer, as if aware of fome fuch objection as this to his theory, contends, that if facrifices had arisen from any other source than the light of reason, the Scripture would not have been filent concerning that fource; " especially since we find Moles carefully recording what God immediately, and not nature, taught to Adam and his family, Had the original of facrifice, fays he, been preferibed, and directly commanded by the Deity, the facred historian could never have omitted the express mention of that circumstance. The two capital observances in the Jewish ritual were the SABBATH and SACRIFICES. To impress the highest reverence and veneration on the Sabbath, he is careful to record its divine original: and can we suppose that, had facrifices had the same original, he would have neglected to establish this truth at the time that he recorded the other, fince it is of equal use and of equal importance? I should have faid, indeed, of much greater; for the multifarious facrifices of the LAW had not only a reference to the forfeiture of Adam, but likewise prefigured our redemption by Jesus Christ."

But all this reasoning was foreseen, and completely answered before his lordship gave it to the public. It is probable, that though the diffinction of weeks wis well known over all the eaftern world, the Hebrews, during their residence in Egypt, were very negligert in their observance of the Sabbath. To enforce a religious observance of that facred day, it became necessary to inform them of the time and occasion of its first inflitution, that they might keep it holy in memory of the creation; but, in a country like Egypt, the people were in danger of holding facrifices rather in too high than too low veneration, fo that there was not the fame necessity for mentioning explicitly the early inflitution

Sacrifice. of them. It was fufficient that they knew the divine inflitution of their own facrifices, and the purpoles for which they were offered. Befides this, there is reason to believe, that, in order to guard the Helmows from the infections of the heathen, the rite of facrificing was loaded with many additional ceremonies at its fecond inflitution under Mofes. It might, therefore, be improper to relate its original fimplicity to a rebellious people, who would think themselves ill-used by any additional burdens of trouble or expence, however really necessary to their happiness. Bithop Warburton fees clearly the necessity of concealing from the Jews the spiritual and refined nature of the Christian dispensation, lest such a backfliding people should, from the contemplation of it, have held in contempt their own economy. This, he thinks, is the reason why the prophets, speaking of the reign of the Meffiah, borrow their images from the Mofaic dispensation, that the people living under that dispenwe think the reason will hold equally good for their lawgiver concealing from them the fimplicity of the first facrifices, left they should be tempted to murmur at their

own multifarious ritual, But his lordship thinks that facrifices had their origin from the light of natural reason. We should be glad to know what light natural reason can throw upon fuch a fubject. That ignorant pagans, adoring as gods departed heroes, who still retained their fenfual appetites, might naturally think of appealing such beings with the fat of fed beads, and the perfumes of the altar, we have already admitted; but that Cain and Abel, who knew that the God whom they adored has neither body, parts, nor passions; that he created and fustains the universe; and that from his very nature he must will the happiness of all his creatures, should be led by the light of natural reason to think of appeafing him, or obtaining favours from him, by putting to death harmless animals, is a position which no arguments of his lordship can ever compel us to admit. That Abel's facrifice was indeed accepted, we know; but it was not accepted because it proceeded, from the movements of the human mind, and the deficiency of the original language, but because it was offered through faith. The light of natural reason, however, does not generate faith, but science; and when it fails of that, its offspring is abfurdity. " Faith is the substance of things hoped for, the evidence of things not feen," and comes not by reasoning but by hearing. What things then were they of which Abel had heard, for which he hoped, and in the faith of which he offered facrifice? Undoubtedly it was a restoration to that immortality which was forfeited by the transgression of his parents. Of fuch redemption an obfcure intimation had been given to Adam, in the promife that the feed of the woman should bruise the head of the serpent; and it was doubtless to impress upon his mind in more striking colours the manner in which this was to be done, that bloody facrifices were first instituted \*. As long as the import of fuch rites was thus understood, they constituted a perfectly rational worthip, as they showed the people that the wages of fin is death; but when men funk into idolatry, and lost all hopes of a resurrection from the dead, the flaughtering of animals to appeale their deities was a practice grossly superstitious. It restthe grovelling worthippers believed that by their fa- Saerifice. crinces they purchased the favour of their deities. When once this notion was entertained, human facrifices were foon introduced; for it naturally occurred to those who offered them, that what they most valued themfelves would be most acceptable to their offended gods. (fee the next article). By the Jewith law, thefe abominable offerings were strictly forbidden, and the whole ritual of facrifice restored to its original purity, though not fimplicity.

All Christian churches, the Socinian, if it can be called a church, not excepted, have till very lately agreed in believing that the Jowish facrifices fervcd, amongst other uses, for types of the death of Christ and the Christian worship, (see TYPE.) In this belief all fober Christians agree still, whilst many are of opinion that they were likewife feederal rites. as they certainly were confidered by the ancient Ro-

Of the various kinds of Jewish facrifices, and the fub- \* Tit. Line ordinate ends for which they were offered, a full ac-15.xx count is given in the books of Mofes. When an If eap 45. raelite offered a loaf or a cake, the priest broke it in two parts; and fetting afide that half which he referred for himfelf, broke the other into crumbs, poured cil, wine, incense, and falt upon it, and spread the whole upon the fire of the altar. If these offerings were acthrown upon the victim to be confumed along with it. If the offerings were of the cars of new corn, they were parched at the fire, rubbed in the hand, and then offered to the priest in a vellel, over which he poured oil. incense, wine, and falt, and then burnt it upon the altar, having first taken as much of it as of right belonged to himfelt.

The principal facrifices among the Hebrews confitwere accepted from those who were not able to bring the other; these beasts were to be perfect, and without blemith. The rites of facrificing were various; all of which are minutely described in the books of Mo-

The manner of facrificing among the Greeks and Romans was as follows. In the choice of the victim, they took care that it was without blemish or imperfection; its tail was not to be too finall at the end; the tongue not black, nor the ears eleft; and that the bull was one that had never been yoked. The victim being pitched upon, they gilt his forehead and horns, especially if a bull, heifer, or cow. The head they also adorned with a garland of flowers, a woollen infula or holy fillet, whence hung two rows of chaplets with twifted ribands; and on the middle of the body a kind of fiole, pretty large, hung down on each fide; the leffer victims were only adorned with garlands and bundles of flowers, together with white tufts or wreaths.

The victims thus prepared were brought before the altar; the leffer being driven to the place, and the greater led by an halter; when, if they made any struggle, or refused to go, the refistance was taken for an ill omen, and the factifice frequently fet afide. The victim thus brought was carefully examined, to fee that there was no defect in it; then the prieft, clad in his facerdotal habit, and accompanied with the facrificers 2 K

\* See Propbecy.

> ed in itself without pointing to any farther end, and Vol. XVIII, Part II.

and other attendants, and being washed and purified ac- instead of an idot; for they did not admit of images. Sactifices

cording to the geremonies prescribed, turned to the right hand, and went round the altar, fprinkling it with meal and holy water, and also befprinkling those who were prelent. Then the crier proclaimed with a loud voice, Who is here? To which the people replied, Many and good. The priest then having exhorted the people to join with him by faying, Let us pray, confelled his own unworthiness, acknowledging that he had been guilty of divers fins; for which he begged pardon of the gods, hoping that they would be pleafed to grant his requells, accept the oblations offered them, and fend them all health and happiness; and to this general form added petitions for fuch particular favours as were then defired. Prayers being ended, the priest took a cup of wine; and having taffed it himfelf, caufed his affiliants to do the like; and then poured forth the remainder between the horns of the victim. Then the prieft or the crier, or fometimes the most honourable person in the company, killed the beaft, by knocking it down or cutting its throat. If the facrifice was in honour of the celeftial gods, the throat was turned up towards heaven, but if they facrificed to the heroes or infernal gods, the victim was killed with its throat towards the ground. If by accident the beaft escaped the stroke, leaped up after it, or expired with pain and difficulty, it was thought to be unacceptable to the gods. The beaft being killed, the pricit inspected its entrails, and made redictions from them. They then poured wine, together with frankincense, into the fire, to increase the flame, and then laid the facrifice on the altar; which in the primitive times was burnt whole to the gods, and thence called an holocauft; but in after-times, only part of the victim was confumed in the fire, and the remainder referved for the facrificers; the thighs, and fometimes the entrails, being burnt to their honour, the company feafled upon the rest. During the facrifice, the pricit, and the person who gave the facrifice, jointly prayed, laying their hand upon the alin the time of the facrifice, and on some occasions they danced round the altar, finging facred hymns in honour

Human SACRIFICES, an abominable practice, about the origin of which different opinions have been formed .- The true account feems to be that which we have given in the preceding article. When men had gone fo far as to indulge the fancy of bribing their gods by facrifice, it was natural for them to think of enhancing the value of fo cheap an atonement by, the cost and rarity of the offering; and, opprefied with their malady, they never refled till they had got that which they conceived to be the most precious of all, a human facrifice. " It was customary (fays Sanchoniathon \*), in ancient times, in great and public calamities, before things became incurable, for princes and magistrates to offer up in facrifice to the avenging demons the dearest of their we have received any ancient account. The Egyptians had it in the early part of their morarchy. The Cretans likewise had it, and ret ined it for a long time buried it undernead an alter, which they made use of

The Perfians buried people alive. Amefiris, the wife of Xerxes, entombed 12 perions quick under ground for the good of her foul. It would be endless to enumerate every city, or every province, where these dire practices obtained. The Cyprians, the Rhodians, the Plioceans, the Ionians, thote of Chios, Lelbos, Tenedos, all had human facrifices. The natives of the Tauric Cherionelus, offered up to Diana every stranger whom chance threw upon their coast. Hence arose that just expostulation in Euripides upon the inconfistency of the proceeding; wherein much good realoning is implied. Iphigenia wonders, as the goddess delighted in the blood of men, that every villain and murderer should be privileged to escape, nay, be driven from the threshold of the temple; whereas, if an honest and virtuous man chanced to stray thither, he only was leized upon, and put to death. The Pelafgi, in a time of fearcity, vowed the tenth of all that should be born to them for a facrifice, in order to procure pleuty. Ariftomenes the Messenian flew 300 noble Lacedemonians, among whom was Theopompus the king of Sparta, at the altar of Jupiter at Ithome. Without doubt the Lacedemonians did not fail to make ample returns; for they were a fevere and revengeful people, and offered the like victims to Mars. Their festival of the Diamattigofis is well known; when the Spartan boys were whipped in the fight of their parents with fuch feverity before the altar of Diana Orthia, that they often expired under the torture. Phylarchus affirms, as he is quoted by Porphyry, that of old every Grecian flate made it a rule, before they marched towards an enemy, to folicit a bleffing on their undertakings by human victims.

The Romans were accustomed to the like facrifices: They both devoted themselves to the infernal gods, and conflrained others to fubmit to the fame horrid doom. Hence we read in Titus Livius, that, in the confulate of Æmilius Paulus and Terentius Varro, two Gauls, a man and a woman, and two in like manner of Greece, were buried alive at Rome in the Ox-market, where was a place under ground walled round, to receive them; which had before been made use of for such cruel purpofes. He fays it was a facrifice not properly Roman, that is, not originally of Roman institution; yet it was frequently practifed there, and that too by public authority. Plutarch makes mention of a like instance a few years before, in the consulship of Flaminius and Furius. There is reason to think, that all the principal captives who graced the triumphs of the Romans, were at the close of that cruel pageantry put to death at the altar of Jupiter Capitolinus. Caius Marius offered up his own daughter for a victim to the Dii Averrunci, to procure success in a battle against by Clemens. It is likewife attefted by Plutarch, who fays that her name was Calpurnia. Marius was a man of a four and bloody disposition; and had probably heard of fuch factifices being offered in the enemy's camp, among whom they were very common, or he might have beheld them exhibited at a diffance; and therefore murdered what was nearest, and should have been dearest to him, to counteract their fear'ul spells, and outdo them in their wicked machinery. Cicero, making mention of this cuflom being con mon in Gaul,

\* Apud Eufeb. Praep. Evar g. lib. 4. Sacrifice, adds, that it prevailed among that people even at the time he was speaking; from whence we may be led to infer, that it was then discontinued among the Romans. And we are told by Pliny, that it had then, and not very long, been discouraged. For there was a law enacted, when Lentulus and Craffus were confuls, to late as the 657'h year of Rome, that there thate harrid rites had been celebrated in broad day without any mask or controul; which, had we not the be t evidence for the fact, would appear fearcely crefor a time, we find that they were again renewed; though they became not fo public, nor fo general. For not very long after this, it is reported of Augustus Cafar, when Perulia furrendered in the time of the focond triumvirate, that belides multitudes executed in a military manner, he offered up, upon the ides of March 300 choien persons, both of the equettrian and fenatorial order, at an altar dedicated to the manes of his uncle Julius. Even at Rome itself this custom was revived: and Porphyry affures us, that in his time a man was every year facrificed at the shrine of Jupiter Latialis. Heliogabalus offered the like victims to the Syrian deity which he introduced among the Romans. The fame is faid of Aurelian.

The Gauls and the Germans were so devoted to this shocking custom, that no business of any moment was transacted among them without being prefaced with the blood of men. They were offered up to various gods; but particularly to Hefus, Taranis, and Thautates. These deities are mentioned by Lucan, where he enumerates the various nations who followed the for-

tunes of Cæfar. common refort of men; being generally fituated in the depth of woods, that the gloom might add to the horror of the oper ion, and give a reverence to the place and proceeding. The perfons devoted were led thither by the Druids, who prefided at the folemnity, and performed the civel offices of the facrifice. Tacitus takes notice of the cruelty of the Hermunduri, in a war with the Catti, wherein they had greatly the advantage; at the close of which they made one general facrifice of all that was taken in battle. The poor remains of the legion under Varus fuffered in some degree the same fate. There were many places deffined for this purpose all over Gaul and Germany; but especially in the mighty woods of Arduenna, and the great Hercynian forest; a wild that extended above 30 days journey in length. The places fet apart for this folemnity were held in the utmost reverence, and only approached at particular feafons. Lucan mentions a grove of this fort near Massilia, which even the Roman foldiers were afraid to violate, though commanded by Cæ ar. It was one of those let apart for the fa-

Claudian compliments Stilicho, that, among other advantages acruing to the Roman armies through hi con-Hercynia, and follow the chafe in these so much dreaded woods, and otherwise make use of them.

These practices prevailed amn g all the copie of the north, of whatever denomination. The Massagetæ the Soythians, the Getes, the Sarmalians, all the various nations upon the Baltic, particularly the Suevi and Scan. Savificdinavians, held it as a fixed principle, that their happiness and security could not be obtained but at the cxpence of the lives of others. Their chief gods were Thor and Woden, whom they the what they could sever fome, too, very famous among the Semp n s and Nafrequented, was at Upfal; where there was every year the most acceptal le victims, and the most numerous, were men. Of these facilities none were ofteened to fion of joy; as it once happened in the time of a famine, when they cast lots, and it fell to King Doma!der to be the people's victim : and he was accordingly put to death. Olaus Tretelger, another prince, was burnt alive to Woden. They did not spare their own name, flew two of his children to obtain a fform of wind. " He did not let (fays Verstegan) to facrifice two of his fons unto his idels, to the end he might obtain of them such a tempest at fee, as should break and difper'e the shipping of Harald king of Denmark." Saxo Grammaticus mentions a like fact. He calls the king Haquin; and speaks of the persons put to death as two very hopeful young princes. Another king flew nine fons to prolong his own life; in hopes, perhaps, be added to himfelf. Such inflances, however, occur not often: but the common victims were without end. Adam Bremenfis, speaking of the awful grove at Upfal. where these horrid rites were celebrated, favs, that there was not a fingle tree but what was reverenced, as if it were gifted with fome portion of divinity: and all this because they were stained with gore and foul with human putrefaction. The fame is observed by Scheiffer in his account of this place.

The manner in which the victims were flaughtered. was diverse in different places. Some of the Gaulith nations chined them with a flroke of an axe. The Celtæ on a block, or an altar, with his breatt upwards, and with a fword firmck him forcibly across the flernum; then tumbling him to the ground, from his agonies and convultions, as well as from the effusion of blood, they formed a judgement of future events. The Cimbri ripped open the bowels; and from them they pretended to divine. In Norway they beat men's brains out with an ox-voke. The fame operation was performed in Iceland, by dashing them against an altar of tione. In many places they transfixed them with arrows. Af .they were dead, they ful ended them upon the trees, and left them to putrefy. One of the writers above quoted mentions, that in his time 70 carcafes of this fort were found in a wood of the Suevi. Dinhmar of Merfburgh, an author of nearly the fame age, fpe ks of a place colled Ledur in Zeeland, where there were every ing these bloody fettivals a general joy prevailed, and

Sairfice. banquets were most royally served. They fed, caroused, and gave a loofe to indulgence, which at other times was not permitted. They imagined that there was famething mysterious in the number nine; for which reason these seasts were in some places celebrated every minth year, in others every ninth month; and continued for nine days, When all was ended, they washed the image of the deity in a pool; and then difmiffed the affembly. Their fervants were numerous, who attended during the term of their feating, and partook of the banquet. A. the close of all, they were smothered in the same pool, or otherwise made away with. On which Tacitus remarks, how great an awe this circumflance must necessarily infule into those who were not admitted to these mysteries.

> These accounts are handed down from a variety of authors in different ages; many of whom were natives of the countries which they describe, and to which they feem strongly attached. They would not therefore have brought so foul an imputation on the part of the world in favour of which they were each writing, nor could there be that concurrence of testimony, were not the hi-

flory in general true.

The like cuttom prevailed to a great degree at Mexico, and even under the mild government of the Peruvians; and in most parts of America. In Africa it is still kept up; where, in the inland parts, they facrifice some of the captives taken in war to their feuches, in order to fecure their favour. Snelgrave was in the king of Dahoome's camp, after his inroad into the countries of Ardra and Whidaw; and fays, that he was a witness to the cruelty of this prince, whom he faw facrifice multitudes to the deity of his nation.

The same abominable worship is likewise practifed occafionally in the islands visited by Captain Cook, and other circumnavigators, in the South fea. It feems indeed to have prevailed in every country at one period of the progress of civilization, and undoubtedly had the

origin which we have affigned to it.

except some few inflances, confifted of persons doomed by the chance of war, or assigned by lot, to be offered. But among the nations of Canaan, the victims were peculiarly chosen. Their own children, and whatever was nearest and dearest to them, were deemed the most worthy offering to their god. The Carthaginians, who were a colony from Tyre, carried with them the religion of their mother country, and instituted the same worship in the parts where they settled. It consisted in the adoration of feveral deities, but particularly of Kronus; to whom they offered human facrifices, and especially the blood of children. If the parents were not at hand to make an immediate offer, the magistrates did not fail to make choice of what was most fair and promising, that the god might not be defrauded of his dues. Upon a check being received in Sicily, and fome other alarming circumstances happening, Hamilcar without any hefitation laid hold of a boy, and offered him on the fpot to Kronus; and at the same time arowned a number of priefts, to appeale the deity of the fea. The Cartheginians another time, upon a great defeat of their army by Agathocles, imputed their milcarriages to the anger of this god, whole fervices had been ne lected. Toucked with this, and feeing the enemy at their gates, they frized at once 300 children of the

prime nobility, and offered them in public for a facri- Sacrifice. fice. Three hundred more, being persons who were femehow obnoxious, yielded themselves voluntarily, and were put to death with the others. The neglect of which they accused themselves, confisted in facrificing children purchased of parents among the poorer fort. who reared them for that purpose, and not selecting the most promising, and the most honourable, as bad been the cuttom of old. In fhort, there were particular children brought up for the altar, as theep are fattened for the shambles; and they were bought and butchered in the fame manner. But this indifcriminate way of proceeding was thought to have given offence. It is remarkable, that the Egyptians looked out for the most specious and handsome person to be sacrificed, The Albanians pitched upon the belt man of the community, and made him pay for the wickedness of the reft. The Carthaginians chose what they thought the most excellent, and at the same time the most dear to them; which made the lot fall heavy upon their children. This is taken notice of Silius Italicus in his fourth book.

Kronus, to whom these sacrifices were exhibited, was an oriental deity, the god of light and fire; and therefore always worshipped with some reference to that elc-

ment. See PHOENICIA.

The Greeks, we find, called the deity to whom thefe offerings were made Agraulos; and feigned that the was a woman, and the daughter of Cecrops. But how came Cecrops to have any connection with Cyprus? Agraules is a corruption and transposition of the original name, which should have been rendered Uk El Aur, or Uk El Aurus; but has, like many other oriental titles and names, been firangely fophisticated, and is here changed to Agraulos. It was in reality the god of light, who was always worshipped with fire. This deity was the Moloch of the Tyrians and Canaanites, and the Melech of the east; that is, the great and principal god, the god of light, of whom fire was effeemed a lymbol; and at whose shrine, instead of viler victims, they offered the blood of men.

Such was the Kronus of the Greeks, and the Moloch of the Pleenicians: and nothing can appear more shocking than the facrifices of the Tyrians and Carthaginians, which they performed to this idol. In all emergencies of flate, and times of general calamity, they devoted what was most necessary and valuable to them for an offering to the gods, and particularly to Moloch. But besides these undetermined times of bloodshed, they had particular and prescribed seasons every year, when children were chosen out of the most noble and reputable families, as before mentioned. If a perfon had an only child, it was the more liable to be put to death, as being effeemed more acceptable to the deity, and more efficacious for the general good. Those who were sacrificed to Kronus were thrown into the arms of a molten idol, which flood in the midfl of a large fire, and was red with heat. The arms of it were firetched out, with the hands turned upwards, as it were to receive them; yet floping downwards, so that they dropt from thence into a glowing furnace below. To other gods they were otherwise flaughtered, and, as is implied, by the very hands of their parents. What can be more horrid to the imagination, than to suppose a father leading the dearest of all his sons to such an infernal fhrine ?

Sarrifice: fliring ! or a mother the most engaging and affectionate of her daughters, juil rifing to maturity, to be flaughtered at the altar of Afhtaruth or Baal ? Justin describes this unnatural cultom very pathetically : Quippe homines, ut virlimas, immolabant; et impuberes (que atas holium milericordiam provocat) aris admovebant; pacent sanguine eorum exposcentes, pro quorum vità Dii rogari maxime folent. Such was their blind zeal, that this was continually practited; and to much of natural affection fill left unextinguished, as to render the scene ten times more thocking from the tendernels which they feemed to express. They embraced their children with great fonduels, and encouraged them in the gentled terms, that they might not be appalled at the fight of the hellish process; begging of them to submit with cheerfulnels to this fearful operation. If there was any appearance of a tear riling, or a cry unawares escaping, the mother smothered it with her kisses, that there might not be any thow of backwardness or constraint, but the whole be a free-will offering. These cruel endearments over, they flabbed them to the heart, or otherwise opened the fluices of life; and with the blood warm, as it rant, befmeared the altar and the grim vilage of the idol. These were the customs which the Israelites learned of the people of Canaan, and for which they are upbraided by the Plalmit: "They did not defroy the nations, concerning whom the Lord commanded them; but were mingled among the heathen, and learned their works: yea, they facrificed their fons and their daughters unto devils, and thed innocent blood, even the blood of their fons and of their daughters, whom they facrificed unto the idols of Canaan; and the land was polluted with blood. Thus were they defiled with their own works, and went a-whoring with their own inventions."

> These cruel rites, practised in so many nations, made Plutarch debate with himfelf, "Whether it would not have been better for the Galatæ, or for the Scythians, to lave had no tradition or conception of any fuperior beings, than to have formed to themselves notions of gods who delighted in the blood of men; of gods, who esteemed human victims the most acceptable and perfect facrifice? Would it not (fays he) have been more eligible for the Carthaginians to have had the atheid Critias, or Diagoras, their lawgiver, at the commencement of their polity, and to have been taught, that there was neither god nor demon, than to have facrificed, in the manner they were wont, to the god which they adored? Wherein they acted, not as the person did whom Empedocles describes in some poetry, where he exposes this unnatural custom. The fire there with many idle vows offers up unwittingly his fon for a facrifice; but the youth was fo changed in feature and and figure, that his father did not know him. These people used, knowingly and wilfully, to go through this bloody work, and flaughter their own offspring. Even they who were childless would not be exempted from this curfed tribute; but purchased children, at a price, of the poorer fort, and put them to death with as little remorfe as one would kill a lamb or a chicken. The mother, who facrificed her child, flood by, without any freming fense of what she was lofing, and without uttering a groan. If a figh did by chance escape, she lost all the honour which the proposed to herself in the offering, and the child was notwithstanding slain. All the time

of this ceremony, while the children were murdering, Sacribge there was a noile of ciarions and tabors founding before Saddinees. the idol, that the cries and shrieks of the victims might not be heard. " Tell me now (lays Plutarch) if the monsters of old, the Typhons and the giant, were to expel the gods, and to rule the world in their flead; could they require a fervice more horrid than these in-

ing facred things, or things devoted to God; or of alienating to laymen, or common purposes, what was given to religious persons and pious uses.

SACRISTAN, a church-officer, otherwise called

SACRISTY, in church-history, an apartment in a church where the facred utenfils were kept, being the fame with our VESTRY.

SADDLE, is a feat upon a horfu's back, contrived for the conveniency of the rider.

A hunting-faddle is compoled of two bows, two bands, fore-bolfters, pannels, and faddle-straps; and the great faddle has, belides these parts, corks, bind-bolflers, and a trouffequin.

The pommel is common to both,

SADDUCEES, were a famous fect among the ancient Jews, and confided of persons of great quality and opulence. Respecting their origin there are various accounts and various opinions. Epiphanius, and after him many other writers, contend, that they took their rife from Dofitheus a fectary of Samaria, and their name from the Hebrew word pre just or justice, from the great juffice and equity which they showed in all their actions; a derivation which neither fuits the word Sadducce nor the general character of the fect. They are thought by fome too to have been Samaritans; but this is by no means probable, as they always attended the worthin and facrifices at Jerusalem and never at Ge-

In the Jewish Talmud we are told that the Sadducees derived their name from Sadoc, and that the fect arose about 260 years before Christ, in the time of Antigonus of Socho, president of the Sanhedrim at Jerusalem, and teacher of the law in the principal divinity school of that city. He had often in his lectures, it feems, taught his scholars, that they ought not to serve God as slaves do their matters, from the hopes of a reward, but merely out of filial love for his own fake; from which Sadoc and Baithus inferred that there were no rewards at all after this life. They therefore separated from their mafler, and taught that there was no refurrection nor future state. This new doctrine quickly spread, and gave rife to the feet of Sadducees, which in many respects refembled the EPICUREANS.

Dr Prideaux thinks, that the Sadducces were at first no more than what the Caraites are now; that is, they would not receive the traditions of the elders, but fluck to the written word only; and the Pharifees being great promoters of those traditions, hence these two feets became directly opposite to each other. See Prideaux's Conn. part ii. book 2. and 3.; and fee also PHARISEES and CARAITES.

Afterwards the Sadducees imbihed other doctrines, which rendered them a feet truly impious; for they denied the refurrection of the dead, and the existence of angels, and of the spirits or souls of men departed

Endducees (Mat. xxii, 22, Acts xxiii, 8.). They held, that there is no fpiritual being but God only; that as to man, this world is his all. They did not deny but that we had tal: and, by a necessary configuence, they denied the ed asfo, that what is faid of the existence of angels, and of a future refurrection, are nothing but illufions. St Epiphanius, and after him St Auttin, have advanced, that the Sadducces denied the Holy Ghost. But neither Josephus nor the evangelists accuse them of any error like this. It has been also imputed to them, that they thought God corporeal, and that they received none of

> It is pretty difficult to apprehend how they could demy the being of angels, and yet receive the books of Moles, where such frequent mention is made of angels and of their appearances. Grotius and M. Le Clerc observe, that it is very likely they looked upon angels, not as particular beings, fubfilling of themselves, but as powers, emanations, or qualities, infeparable from the Deity, as the iunbeams are inseparable from the fun. Or perhaps they held angels not to be spiritual but mortal; just as they thought that subtlance to be which animates us and thinks in us. The ancients do not tell us how they folved this difficulty, that might be urged against them from so many passages of the Pentateuch,

> As the Sadducees ackn wledged neither punishments nor recompenses in another life, so they were inexorable in their chaftifing of the wicked. They observed the law themselves, and caused it to be observed by others, with the utmost rigour. They admitted of none of the traditions, explications, or modifications, of the Pharifees; they kept only to the text of the law; and maintained, that only what was written was to be ob-

> The Sadducees are accused of rejecting all the books of Scripture except those of Moses; and to support this opinion, it is observed, that our Saviour makes use of no Scripture against them, but passages taken out of the Pentateuch. But Scaliger produces good proofs to vindicate them from this reproach. He observes, that they did not appear in Ifrael till after the number of the holy books was fixed; and that if they had been to choose out of the canonical Scriptures, the Pentateuch was less favourable to them than any other book, fince it often makes mention of angels and their apparition. Befides, the Sadducees were prefent in the temple and at other religious affemblies, where the books of the prophets were read indifferently as well as those of Moses. They were in the chief employments of the nation, many of them were even priefts. Would the Jews have suffered in these em, loyment persons that rejected the greatest part of their Scriptures? Menusse ben Ifrael fays express-

Josephus affures us, that they denied destiny or fate; alleging that these were only sounds void of sense, and that all the good or evil that happens to us is in confequence of the good or evil fide we have taken, by the far removed from doing or knowing evil, and that man was the absolute master of his own actions. This was

roundly to deny a providence; and upon this footing I Sadducees, know not, fays F. Calmet, what could be the religion of the Saduccees, or what influence they could aforthe to God in this stere below. However, it is certain in a figual manner from the feet of the Pharifees, and went over to that of Sadoc. It is faid also, he gave first command to all the Jews, on pain of death, to receive the maxims of this fect. Aristobulus and Alexander Jannæns, fon of Hircanus, continued to favour the Sadducees; and Maimonides affures us, that under the reign of Alexander Jannæus, they had in poff-fion all the offices of the Sanhedrim, and that there only remained of the party of the Pharifees, Simon the fon of Secra. Cair phas, who condemned Jefus Christ to death, was a Sadducee (Acts, v. 17. iv. 1.; as also Ananus the younger, who put to death St James the brother of our Lord. At this day, the Jews hold as heretics that finall number of Sadducees that are to be found among them. See upon this matter Serrar. Triharef. Menaffe ben-Ifrael, de Refurrectione mortuorum; Bajnage's Hijiry of the Jews, &c.; and Calmet's Differtation upon the Sells of the Jews before the Commentary of St Mark. The fect of the Sadducees was much reduced by the

destruction of Jerusalem, and by the dispersion of the Jews; but it revived afterwards. At the beginning of the third century it was fo formidable in Egypt, that Ammonim, Origen's mafter, when he faw them propagate their opinions in that country, thought himfelf obliged to write against them, or rather against the Jews, who tolerated the Sadducees, though they denied the fundamental points of their religion. The emperor Justinian mentions the Sadducees in one of his novels, banishes them cut of all places of his dominions, and condemns them to the feverest punishments, as people that maintained atheistical and impious tenets, denying the refurrection and the last judgement. Anrus, or Ananus, a disciple of Juda, son of Nachman, a famous rabbin of the 8th century, declared himfelf, as it is faid, in favour of the Saddneses, and firemoully protected them against their adversaries. They had also a celebrated defender in the 12th century, in the person of Alpharag, a Spanish rabbin. This doctor wrote against the Pharisees, the declared enemies of the Sadducees; and maintained by his public writings, that the purity of Judaism was only to be found among the Sadducees; that the traditions avowed by the Pharifees were useless; and that the ceremonies, which they had multiplied without end, were an unsupportable yoke. The rabbi Abraham ben David Italieri replied to Alpharag, and supported the feet of the Pharifees by two great arguments, that of their universality and that of their antiquity. He proved their antiquity by a continued fuccession from Adam down to the year 1167; and their universality, because the Pharisees are spread all the world over, and are found in all the funagogues. There are fill Sadducees in Africa and in feveral other places. They deny the immortality of the foul, and the refurrection of the body; but they are rarely found, at least there are but few who declare themseives for thefe opinions.

SADLER. JOHN, was descended from an ancient family in Shropfure; born in 1615; and educat d at

Satter Cambridge, where he became eminent for his creat knowledge in the oriental languages. He removed to Lincoln's-Inn, where he made no fmall progress in the study of the law; and in 1611 was admitted one of the mafters in chancery, as also one of the two mafters of requests. In 1649 he was chosen town-clerk of London, and the same year published his Rights of the Kingdom. He was greatly esteemed by Oliver Cromwell. by whose special warrant he was continued a master in chancery, when their number was reduced to fix. By his interest it was that the Jews obtained the privilege of building for themselves a synagogue in London. In 1658 he was made member of parliament for Yarmouth; and next year was appointed first commissioner under the great feal with Mr Taylor, Mr Whitelocke, and others, for the probate of wills. In 1660 he publifted his Olbia. Soon after the restoration, he lost all his employments. In the fire of London in 1666, he was a great fufferer; which obliged him to retire to his feat of Warmwell in Dorfetshire, where he lived in a private manner till 1674, when he died,

SADOC, a famous Jewish rabbi, and founder of the

fect of the SADUCCEES.

SADOLET, JAMES, a polite and learned cardinal of the Romith courch, born at Modena in 1477. Leo X. which they were both well qualified; and Sadolet was foon after made bishop of Carpentras, near Avignon: he was made a cardinal in 1536 by Paul III. and employed in feveral negociations and embaffies. He died in 1547, not without the futoicion of poison, for corresponding too familiarly with the Protestants, and for His works, which are all in Latin, were collected in 1607 at Mentz, in one volume 8vo. All his contempo-

ftranger who feared violence from fome of the king's

SAFE-C nduel is a fecurity given by a prince under the great feal, to a stranger for his fofe-coming into and passing out of the realm; the form whereof is in Reg. Orig. 25. There are letters of fafe conduct which must be enrolled in chancery; and the persons to whom granted must have them ready to show; and GATIVE.

SAFFRON, in the Materia Medica, is formed of the fligmata of the crocus officinalis, dried on a kiln, and pressed together into cakes. See Crocus, BOTANY Index. There are two kinds of faffron, the English and Soanish; of which the latter is by far the most effectied. Saffron is principally cultivated in Camb i gethire, in a circle of about ten miles diameter. The greatest part of this traft is an open level country, with few inclosures; and the custom there is, as in most o her plathird. Saffe n i-generally pan ed u on fallow ground,

poor, a very thiff clav, but a temporate dry mould, fuch as comenly lies upon chelk, and is of an hizel colour; though, if every thing elfe answers, the colour Saffen. of the mould is pretty much neglected.

The ground being m de choice of, about Lady-day or the beginning of April, it must be carefully plinighed, the furrows being drawn much closer togeth r, and deeper if the foil was allow it, than is done for any kind of corn; and accordingly the charge is greater.

About five weeks after, during any time in the month of May, they lay between 20 and 30 loads of dung upon each acre, and having spread it with great care, they plough it in as before. The shortest rotten dung is the belt : and the farmers, who have the conveniency of making it, spare no pains to make it good, being fure of a proportionable price for it. About midlummer they plough a third time, and between every 16 feet and a half they leave a broad furrow or trench, which ferves both as a boundary to the feveral parcels, and for throwing the weeds into at the proper featon. The time of planting is commonly in the month of July. The only instrument used at this time is a small narrow fpade, commonly called a fait flovel. The method is this: One man with his sh vel raises about three or four inches of earth, and throws it before him about fix or more inches. Two persons, generally women, fellow with roots, which they place in the farthest edge of the trench made by the digger, at about three inches from each other. As foon as the digger has gone once the breadth of the ridge, he begins again at the other fide; and, digging as before, covers the roots last fet, which makes room for another row of roots at the fame distance from the first that they are from one another. some part of the first stratum of earth untouched, to lie under the roots; and, in fetting, to place the roots died on an acre is generally about 16 quarters, or 128 bushels. From the time of planting till the beginning of September, or sometimes before, there is no more labour required; but at that time they begin to vegetate, and are ready to show themselves above ground, which may be known by digging up a few of the roots. The ground is then to be pared with a sharp hoe, and the weeds raked into the furrows, otherwife they would hinder the growth of the faffron. In some time after,

ing. The owners of the fasiron fields get together a fufficient number of hands, who pull off the whole flowers, and throw them by handfuls into a bafket, throw a vry as uf-less. Next morning they return to the field, without regarding whether the weather be wet or dry : and fo on daily, even on Sundays, till the plank, the it may be moved from place to place. It is supported by fur thort leat the cutted confiscef tom on the infide, and 12 on the diper part which

Sage

Saffron laft is likewife the perpendicular height of it. On the forefide is left a hole of about eight inches iquare, and four inches above the plank, through which the fire is put in; over all the rest laths are laid pretty thick, close to one another, and nailed to the frame already mentioned. They are then plasfered over on both fides, as are also the planks at bottom, very thick, to ferve for a hearth. Over the mouth is laid a haircloth, fixed to the edges of the kiln, and likewife to two rollers or moveable pieces of wood, which are turned by wedges or screws, in order to Bretch the cloth. Instead of the hair cloth, some people use a net-work of iron-wire, by which the faffron is foon dried, and with less fuel; but the difficulty of preserving is from The kiln is placed in a light part of the house; and they begin with putting five or fix sheets of white paper on the hair-cloth, and upon these they lay out the wet fasfron two or three inches thick. It is then covered with fome other sheets of paper, and over these they lay a coarfe blanket five or fix times doubled, or instead of this, a canvas pillow filled with fraw; and after the fire has been lighted for fome time, the whole is covered with a board having a confiderable weight upon it. At first they apply a pretty strong heat, to make the chives fweat as they call it; and at this time a great deal of care is necessary to prevent burning. When it has been thus dried about an hour, they turn the cakes of faffron upfide down, putting on the coverings and weight as before. If no finister accident happens during thefe first two hours, the danger is thought to be over; and nothing more is require than to keep up a very gentle fire for 24 hours, turning the cake every half hour. That fuel is best which yields the least smoke; and for this reason charcoal is preferable to all others.

The quantity of faffron produced at a crop is uncertain. Sometimes five or fix pounds of wet chives are got from one rood, fometimes not above one or two; and fometimes not fo much as is fufficient to defray the expence of gathering and drying. But it is always obferved, that about five pounds of wet faffron go to make one pound of dry for the first three weeks of the crop, and fix pounds during the last week. When the heads are planted very thick, two pounds of dry faffron may at a medium be allowed to an acre for the first crop, and 24 pounds for the two remaining ones, the third being confiderably larger than the fecond.

To obtain the second and third crops, the labour of hoeing, gathering, picking, &c. already mentioned, must be repeated; and about midfummer, after the third crop is gathered, the roots must all be taken up and transplanted. For taking up the roots, fometimes the plough is made use of, and sometimes a forked hoe; and then the ground is harrowed once or twice over. During all the time of ploughing, harrowing, &c. 15 or more people will find work enough to follow and gather the heads as they are turned up. The roots are next to be carried to the house in facks, where they are cleaned and rafed. This labour confifts in cleaning the roots thoroughly from earth, decayed old pieces, involucra, or excrescences; after which they become fit to be planted in new ground immediately, or they may be kept for some time, without danger of spoiling. The quantity of roots taken up in proportion to those plant-

ed is uncertain; but, at a medium, 24 cuarters of clean Saffron roots, fit to be planted, may be had from each acre.-There fometimes happens a remarkable change in the roots of faffron and some other plants. As focn as they begin to thoot upwards, there are common y wo or three large tap-roots fent forth from the lide of the old one, which will run two or three mohes deer into the ground. At the place where the e bulbs fall come out from, the old one will be formed on at mes, though not always, and the tap-root then decays The bulb increases in biguets, and at last falls suite off; which commonly happens in April. But many times thef tap-roots never produce any boths, and remain barren for ever after All fuch roots herefore thou dbe throwaway in the making a new plantation. I his degeneracy in the roots is a dile le for which to ure is as yet kuown.

When fassron is offered to fale, that kind ought to be chosen which has the broadest blades; this being the mark by which English faffron is distinguished from the foreign. It ought to be of an orange or fiery-red colour, and to yield a dark yellow tincture. It should be chosen fresh, not above a year old, in close cakes. neither dry ner yet very moift, tough and firm in tearing, of the same colour within as without, and of a firong, acrid, diffusive fmell.

This drug has been reckoned a very elegant and ufeful aromatic. Besides the virtues it has in common with other substances of that class, it has been accounted one of the highest cordials, and is said to exhibitante the spirits to such a degree as, when taken in large dofes, to occasion immoderate mirth, involuntary laughter, and the ill effects which follow from the abuse of spiritucus liquors. This medicine is particularly ferviceable in hysteric depressions proceeding from a cold cause or obstruction of the uterine fecretions, where other aromatics, even those of the more generous kind, have little effect. Saffron imparts the whole of its virtue and colour to reclified spirit, proof-spirit, wine, vinegar, and vater. A tincture drawn with vinegar loses greatly of its colour in keeping: the watery and vinous tinctures are apt to grow four, and then lofe their colour alfo: that made in pure spirit keeps in perfection for many years.

Meadow-SAFFRON. See COLCHICUM, BOTANY Index. SAGAN, in scripture history, the suffragan or deputy of the Jewish high-priest. According to some writers, he was only to officiate for him when he was rendered incapable of attending the fervice through fickness or legal uncleanness on the day of expiation; or, according to others, he was to affift the high-prieft in the care of the affairs of the temple and the fervice of the priefts.

SAGAPENUM, in Pharmacy, &c. a gum refin which is made up in two forms; the finer and purer is in loose granules or fingle drops; the coarfer kind is in maffes composed of these drops of various sizes, cemented together by a matter of the fame kind; and is brought from Persia and the East Indies. See MATE-RIA MEDICA Index.

SAGE. See SALVIA, BOTANY Index.

SAGE, Alain Rene, an ingenious French romancewriter, was born at Ruys in Brittany in the year 1667. He had a fine flow of imagination, was a complete mafter of the French and Spanish languages, and wrote feveral admired romances in imitation of the Spanish auSage. thors. These were, The Bachelor of Salamanca, 2 vols. 1 21no; New Adventures of Don Quixote, 2 vols 1 2mo; The Devil on Two Sticks, 2 vols 1 2mo; and Gil Blas. 4 vols 12mo. He produced also some comedies, and other humorous pieces. This ingenious author died in year 1747, in the vicinity of Paris, where he fun-

ported himfelf by writing.

SAGE, the Reverend John, so justly admired by all who knew him for his classical learning and reasoning powers, was born, in 1652, in the parish of Creich and county of Fife, North Britain, where his ancestors had lived for seven generations with great respect though with little property. His father was a captain in Lord Duffus's regiment, and fought for his king and country when Monk flormed Dundee on the 30th of August

16:1.

The iffue of the civil wars, and the loyalty of Captain Sage, left him nothing to bestow upon his son but a liberal education and his own principles of piety and virtue. In those days the Latin language was taught in the parochial schools of Scotland with great ability and at a trifling expence; and after young Sage had acquired a competent knowledge of that language at one of those uleful seminaries, his father, without receiving from an ungrateful court any recompense for what he had loft in the cause of royalty, was still able to fend him to the university of St Andrews, where having remained in college the usual number of terms or fessions, and performed the exercises required by the statutes, he was admitted to the degree of master of arts, the highest honour which it appears he ever received from any university.

During his refidence in St Andrew's he studied the Greek and Roman authors with great diligence, and was likewife instructed in logic, metaphysics, and such other branches of philosophy as then obtained in the schools, which, though we affect to smile at them in this enlightened age, he always spoke of as highly useful to him who would understand the poets, historians, and orators of ancient Greece, and even the fathers of the Christian church. In this opinion every man will agree with him who is at all acquainted with the ancient metaphysics, and has read the writings of Clemens Alexandrinus, Origen, Tertullian, Chrysoftome, and other fathers of great name; for each of those writers adopted the principles of fome one or other of the philosophical sects, reasoned from their notions, and

eften made use of their terms and phrases.

When Mr Sage had taken his master's degree, the narrowness of his fortune compelled him to accept of the first literary employment which was offered to him; and that happened to be nothing better than the office of schoolmaster in the parish of Bingry in Fifeshire, whence he was foon removed to Tippermuir in the county of Perth. In these humble stations, though he wanted many of the necessaries and almost all the comforts of life, he profecuted his fludies with great fuccess; but in doing so, he unhappily imbibed the seeds of several discases which afflicted him through life, and notwithstanding the native vigour of his constitution impaired his health and thortened his days. From the miferable drudgery of a parish-schoolmast r, he was relieved by Mr Drummond of Cultmalundie, who invited him to superintend the education of his fons, whom he accompanied first to the public school at

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Perth, and afterwards to the univerfity of St Andrew's, Sage. This was still an employment by no means adequate to his merit, but it was not wholly without advantages, At Perth he gained the friendship and esteem of Dr Rofe, afterwards lord bishop of Edinburgh, and at St Andrew's of every man capable of properly ellimating

genius and learning.

The education of his pupils was completed in 1684, when he was left with no determinate object of purfuit. In this moment of indecision, his friend Dr Rose, who had been promoted from the parsonage of Perth to the professorship of divinity in the university which he was leaving, recommended him to effectually to his uncle, then archbishop of Glasgow, that he was by that prelate admitted into orders and prefented to one of the churches in the city. He was then about 24 years of age; had studied the Scriptures with great assiduity; was no stranger to ecclesiastical history, or the apologies and other writings of the ancient fathers; was thorough mafter of school-divinity; had examined with great accuracy the modern controversies, especially those between the Romilh and reformed churches, and between the Calvinists and Remonstrants; and it was perhaps to his honour that he did not fully approve of all the articles of faith subscribed by any one of these contending fects of Christians.

A man fo far advanced in life, and fo thoroughly acccomplished as a scholar, would naturally be looked up to by the greater part of the clergy as foon as he became one of their body. This was in fact the case: Mr Sage was, immediately on his admission into orders, appointed clerk to the fynod or preflytery of Glasgow; an office of great trust and respectability, to which we know nothing fimilar in the church of Eng-

land.

During the establishment of episcopacy in Scotland, from the restoration of Charles II. till the year 1690, the authority of the bishops, though they possessed the fole power of ordination, was very limited in the government of the church. They did every thing with the confent of the prefbyters over whom they prefided. Diocesan synods were held at stated times for purposes of the fame kind with those which employ the meetings of presbyteries at present (see PRESBYTERIANS), and the only prerogative which the bishop seems to have enjoyed was to be permanent prefident, with a negative voice over the deliberations of the affembly. The acts of each fynod, and fometimes the charge delivered by the bithop at the opening of it, were registered in a book kept by the clerk, who was always one of the most eminent of the diocesan clergy.

Mr Sage continued in this office, discharging in Glasgow all the duties of a clergyman, in such a manner as endeared him to his flock, and gain d him the effeem even of those who were diffenters from the establishment. Many of his brethren were trimmers in eccle-Sattical as well as in civil politics. They had been republicans and prefbyterians in the days of the covenant; and, with that ferocious zeal which too often charities which, during the reign of Charles II. were exhis refloration. When that arry again raifed its had during the infatuated reign of James, and every thing indicated an approaching change of the establithment,

those whose zeal for the church had so lately incited them to perfecute the differences, fuddenly became all gentlenels and condescension, and advanced towards

the prethyterians as to their old friends.

The conduct of Mr Sage was the reverse of this, He was an epifeopalian and a royalitt from conviction: and in all his discourses public and private he laboured to infall into the minds of others the principles which to himfelf appeared to have their foundation in truth. To perfecution he was at all times an enemy, whilst he never tamely betrayed through fear what he thought it his duty to maintain. The confequence was, that in the end of the year 1688 he was treated by the rabble, which in the western counties of Scotland rose against the established church, with greater lenity than his more complying brethren. Whilft they, without the fmallest apprehension of their danger, were torn from their families by a lawless force, and many of them perfecuted in the cruelest manner, he was privately warned to withdraw from Glasgow, and never more to return to that city. So much was confiltency of conduct and a fleady adherence to principle respected by those who feemed to respect nothing elfe.

Mr Sage retired to the metropolis, and carried with him the fynodical book, which was afterwards demanded by the preibytery of Glasgow, but not recovered, till about twenty years ago, that, on the death of a nephew of Dr Rofe the last established bishop of Edinburgh, it was found in his poffession, and restored to the preflytery to which it belonged. Mr Sage had detained it and given it to his diocefan friend, from the fond hope that episcopacy would foon be re-established in Scotland; and it was doubtless with a view to contribute what he could to the realifing of that hope, that, immediately on his being obliged to leave Glafgow, he commenced a keen polemical writer. At Edinburgh be preached a while, till refusing to take the oaths of allegiance when required by the government, he was obliged to retire. In this extremity, he found protection in the house of Sir William Bruce, the theriff of Kinrofs, who approved his principles and admired his virtue. Returning to Edinburgh, in 1605, he was observed, and obliged to abscond. Yet he returned in 1696, when his friend Sir William Bruce was imprisoned as a suspected person. He was soon forced to feek for refuge in the hills of Angus, under the name of

After a while Mr Sage found a fafe retreat with the countels of Callendar, who employed him to instruct her family as chaplain, and her fons as tutor. These occupations did not wholly engage his active mind: for he employed his pen in defending his order, or in exposing his oppressors. When the countess of Callendar had no longer fons to instruct, Sage accepted the invitation of Sir John Steuart of Garntully, who wanted the help of a chaplain, and the conversation of a scholar. With Sir John he continued till the decency of his manners, and the extensiveness of his learning, recommended him to a higher station. And, on the 25th of January 1705, he was confecrated a bishop by Paterson the archbishop of Glasgow, Rose the bishop of Edinburgh, and Douglas the buhop of Dumblain. But this promotion did not prevent fickness from falling on him in November 1706. After lingering for many months in Scotland, he tried the effect of the waters of Bath in 1709, without fuccefs. At Bath and at London he remained a twelvemonth, recognited by the great and careffed by the learned. Yet though he was invited to flay, he returned in 1710 to his native country, which he defired to fee, and where he withed to die. And though his body was debilitated, he engaged, with undiminished vigour of mind, in the publication of the works of Drummond of Hawthornden, to which the celebrated Ruddiman lent his aid. Bishop Sage died at Edinburgh on the 7th of June 1711, lamented by his friends for his virtues, and feared by his advertaries for his talents.

His works are, 1st, Two Letters concerning the Perfecution of the Episcopal Clergy in Scotland, which with other two by different authors were printed in one volume at London in 1680. 2dly, An Account of the late Establishment of Preibyterian Government by the Parliament of Scotland, in 1690, London, 1693. 3dly, The Fundamental Charter of Presbytery, London, 1695. 4thly, The Principles of the Cyprianick Age with regard to Episcopal Power and Jurisdiction, London, 1695. 5thly, A Vindication of the Principles of the Cyprianick Age, London, 1701. 6thly, Some Remarks on the Letter from a Gentleman in the City. to a minister in the Country, on Mr David Williamfon's Sermon before the General Affembly, Edinburgh, 1703. 7thly, A Brief Examination of fime Things in Mr Meldrum's Sermon, preached on the 16th of May 1703; against a Toleration to those of the Epifcopal Perluation, Edinburgh, 1703. 8thly, The Reafonableness of a Toleration of those of the Episcoual Perfuasion inquired into purely on Church Principles. Edinburgh, 1704. 9thly, The Life of Gawin Douglas, in 1710. 10thly, An introduction to Dremmond's Hiftory of the Five James's, Edinburgh, 1711. Of the principles maintained in these publications, different readers will think very differently; and it is probable that the acrimony difplayed in some of them will be generally condemned in the present day; whilst the learning and acuteness of their author will be universally acknowledged and admired by all who can ditlinguish merit in a friend or an adverfary.

SAGENE, or SAJENE, a Ruffian long measure, 500 of which make a verit: the fagene is equal to feven

English feet.

SAGINA, a genus of plants belonging to the tetrandria class; and in the natural method ranking under the 22d order, Caryophyllei. See BOTANY Index.

SAGITTA, in Aftronomy, the Arrow, a constellation of the northern hemisphere near the Eagle, and one of the 48 old afterisms. According to the fabulous ideas of the Greeks, this conflellation owes its origin to one of the arrows of Hercules, with which he killed the eagle or vulture that gnawed the liver of Prometheus. In the catalogues of Ptolemy, Tycho, and Hevelius, the flars of this constellation are only five in number, while Flamflead made them amount to 18.

SAGITTA, in Geometry, a term used by some writers

for the abici's of a curve.

SAGITTA, in Trigonometry, the fame as the verfed fine of an arch, being fo denominated because it is like a dart or arrow, standing on the chord of the arch. SAGITTARIA, ARROW-HEAD, a genus of plants

belonging to the monœcia class; and in the natural method ranking urder the fifth order, Tripelatridea. See BOTANY Index .- A bulb which is formed at the lower Sagutarius part of the root of a species of this plant, constitutes a Sahara, confiderable part of the food of the Chinele; and upon that account they cultivate it.

SAGITTARIUS, in Aftronomy, the name of one of

the 12 figns of the zodiac.

SAGO, a nutritive substance brought from the East Indies, of confiderable use in diet as a rethorative. It is produced from a species of palm-tree (Creas circinalis, Lin.) growing spontaneously in the East Indies without any culture. The progress of its vegetation in the early stages is very flow. At first it is a mere thrub, thick fet with thorns, which make it dithcult to come near it; but as foon as its ftem is once formed, it rifes in a short time to the height of 30 feet, is about fix feet in circumference, and imperceptibly lofes its thorns. . Its ligneous bark is about an inch in thickness, and covers a multitude of long fibres; which, being interwoven one with another, envelope a mass of a gummy kind of meal. As foon as this tree is ripe, a whitish dust, which transpires through the pores of the leaves, and adheres to their extremities, proclaims its maturity. The Malays then cut them down near the root, divide them into feveral fections, which they fulit into quarters: they then scoop out the mass of mealy subtlance, which is enveloped by and adheres to the fibres; they dilute it in pure water, and then pass it through a straining bag of fine cloth, in order to separate it from the fibres. When this paste has lost part of its moisture by evaporation, the Malays throw it into a kind of earthen veffels, of different shapes, where they allow it to dry and harden. This paste is a wholesome nourishing food, and may be preserved for many years. The Indians eat it diluted with water, and sometimes baked or boiled. Through a principle of humanity, they referve the finest part of this meal for the aged and infirm. A jelly is fometimes made of it, which is white and of a delicious

SAGUM, in Roman antiquity, a military habit, open from top to bottom, and usually fastened on the right shoulder with a buckle or clasp. It was not different in shape from the chlamys of the Greeks and the paludamentum of the generals. The only difference between them was, that the paludamentum was made of a richer fuff, was generally of a purple colour, and both longer

and fuller than the fagum.

SAGUNIUM, an ancient town of Spain, now called Morvedro, where there are fill the ruins of a Roman amphitheatre to be feen. The new town is feated on a river called Morvedro, 15 miles to the north of Valencia, in E. Long. o. 10. N. Lat. 39. 38. It was taken by

Lord Peterborough in 1706.

SAHARA, or ZAARA, the Great Defert, is a valt extent of fand in the interior parts of Africa, which, with the leffer deferts of Bornou, Bilma, Barca, Sort, &c. is equal to about one half of Europe. If the fand be confidered as the ocean, the Sahara has its gulfs and bays, as also its islands, or OASES, fertile in groves and raftures, and in many inflances containing a great population, subject to order and regular government.

The great body, or western division of this ocean, comprised between Fezzan and the Atlantic, is no less than to caravan journeys across, from north to fouth; or from 7:0 to 800 G, miles; and double that extent in length : without doubt the largest desert in the world. This division contains but a scanty portion of islands

(or oales), and those also of small extent : but the Shara, eattern divition has many, and fome of them very large. S Fezzan, Gadamis, Tuboo, Ghanat, Agadez, Augila, Berdoa, are among it the principal ones: befides which, there are a vatt number of small ones. In effect, this is the part of Africa alluded to by Strabo, when he fays from Cneius Pi/o, that Attica may be compared to a

leopard's fkin.

From the best inquiries that Mr Park could make when a kind of captive among the Moors at Ludamar, the Western Defert, he says, may be pronounced almost destitute of inhabitants; except where the scanty vegetation, which appears in certain spots, affords passurage for the flocks of a few miserable Arabs, who wanger from one well to another. In other places, where the fupply of water and patturage is more abundant, fmall parties of the Moors have taken up their refidence. Here they live, in independent poverty, fecure from the tyrannical government of Barbary. But the greater part of the defert, being totally destitute of water, is feldom vifited by any human being; unless where the trading caravans trace out their toilsome and dangerous route across it. In some parts of this extensive walle, the ground is covered with low flunted shrubs, which ferve as land-marks for the caravans, and furnish the camels with a scanty forage. In other parts, the disconfolate wanderer, wherever he turns, fees nothing around him but a vast interminable expanse of sand and sky; a gloomy and barren void, where the eye finds no particular object to rest upon, and the mind is filled with painful apprehensions of perithing with thirst. rounded by this dreary folitude, the traveller fees the dead bodies of birds, that the violence of the wind has brought from happier regions; and, as he ruminates on the fearful length of his remaining passage, listens with horror to the voice of the driving blait; the only found that interrupts the awful repole of the defert.

The wild animals which inhabit these melancholy regions, are the antelope and the offrich; their fwiftness of foot enabling them to reach the distant wateringplaces. On the skirts of the defert, where the water is more plentiful, are found lions, panthers, elephants, and

wild boars.

The only domestic animal that can endure the fatigue of croffing the defert is the camel; and it is therefore the only beaft of burden employed by the trading caravans which traverse, in different directions, from Barbary to Nigritia. The flesh of this useful and docile creature, though to our author's tafte it was dry and unfavoury, is preferred by the Moors to all others. The milk of the female, he fays, is in universal esteem, and

is indeed pleafant and nutritive.

That the defert has a dip towards the east, as well as the fouth, feems to be proved by the course of the Niger. Morcover, the highest points of North Africa, that is to fay, the mountains of Mandinga and Atlas, are fituated very far to the welt. The defert, for the most part, abounds with falt. But we hear of falt mines only in the part contiguous to Nigritia, from whence falt is drawn for the use of those countries, as well as of the Moorish states adjoining; there being no salt in the Negro countries south of the Niger. There are salt lakes also in the eaftern part of the defert.

SAHLITE, a species of mineral, see MINERALOGY

SAI, a large town near the banks of the Niger, which, according to Mr Park, is completely furround ed by two very deep trenches, at about two hundred yards diliant from the walls. On the top of the trenches are a number of iquare towers: and the whole has the appearance of a regular fortification. Inquiring into the origin of this extraordinary entrenchment, our author learned from two of the towns people the following particulars; which, if true, furnish a mournful picture of the enormities of African wars:

About fifteen years before our traveller vifited Sai, when the king of Bambarra desolated Maniana, the Dooty of Sai had two fons flain in battle, fighting in the king's cause. He had a third fon living; and when the king demanded a further reinforcement of men, and this youth among the rest, the Dooty refused to fend him. This conduct fo enraged the king, that when he returned from Maniana, about the beginning of the rainy feafon, and found the Dooty protected by the inhabitants, he fat down before Sai with his army, and furrounded the town with the trenches which had attracted our author's notice. After a fiege of two months, the towns people became involved in all the horrors of famine; and whilst the king's army were feasting in their trenches, they faw with pleasure the miserable inhabitants of Sai devour the leaves and bark of the Bentang tree that stood in the middle of the town. Finding, however, that the befieged would fooner perish than furrender, the king had recourse to treachery. He promifed, that if they would open the gates, no person should be put to death, nor suffer any injury, but the Dooty alone. The poor old man determined to facrifice himfelf, for the fake of his fellowcitizens, and immediately walked over to the king's army, where he was put to death. His fon, in attempting to escape, was caught and massacred in the trenches; and the rest of the towns-people were carried away captives, and fold as flaves to the different Negro traders. Sai, according to Major Renuel, is fituated in N. Lat. 14° and in W. Long. 3° 7.

SAICK, or SAIQUE, a Turkish vessel, very common

in the Levant for carrying merchandize.

SAIDE, the modern name of Sidon. See SIDON. SAIL, in Navigation, an affemblage of feveral breadths of canvas fewed together by the lifts, and edged round with cord, fastened to the yards of a ship, to make it drive before the wind. See SHIP.

The edges of the cloths, or pieces, of which a fail is composed, are generally fewed together with a double feam; and the whole is skirted round at the edges with

a cord, called the balt-rope.

Although the form of fails is extremely different, they are all nevertheless triangular or quadrilateral figures; or, in other words, their furfaces are contained

The former of these are sometimes spread by a yard, as lateen-fails; and otherwise by a flay, as stay-fails; or by a mast, as shoulder-of-mutton fails; in all which cases the foremost leech or edge is attached to the faid yard, math, or stay, throughout its whole length. The latter, or those which are four-fided, are either extended by yards, as the principal fails of a ship; or by yards and booms, as the studding fails, drivers, ringtails, and all those sails which are set occasionally; or by gaffs and booms, as the main-fails of floops and bri- Sail. gantines.

The principal fails of a ship (fig. 1.) are the courses ccccaxviiz or lower fails a; the top fails b, which are next in order Fig. 1. above the courses; and the top-gallant fails c, which are expanded above the top-fails.

The courses are the main-fail, fore fail, and mizen, main stay-sail, fore stay-sail, and mizen slay-sail: but more particularly the three first. The main stay-sail is

rarely used except in fmall vessels.

In all quadrangular fails the upper edge is called the head; the fides or fkirts are called leeches; and the bottom or lower edge is termed the foot. If the head is parallel to the foot, the two low corners are denominated clues, and the upper corners earings.

In all triangular fails, and in those four-fided fails wherein the head is not parallel to the foot, the foremost corner at the foot is called the tack, and the after lower-corner the clue; the foremost perpendicular or floping edge is called the fore-leech, and the hindmost

the after-leech.

The heads of all four-fided fails, and the fore-leeches of lateen-fails, are attached to their respective yard or gaff by a number of small cords called ro-bands; and the extremities are tied to the yard-arms, or to the peek of the gaff, by earings.

The flay-fails are extended upon flays between the mails, whereon they are drawn up or down occasionally, as a curtain flides upon its rod, and their lower parts are stretched out by a tack and sheet. The clues of a topfail are drawn out to the extremities of the lower yard, by two large ropes called the top-fail sheets; and the clues of the top-gallant fails are in like manner extended upon the top-fail yard-arms, as exhibited by

The fludding-fails are fet beyond the leeches or fkirts of the main-fail and fore-fail, or of the top-fails or top-gallant fails of a strip. Their upper and lower edges are accordingly extended by poles run out beyond the extremities of the yards for this purpole. Those fails, however, are only fet in favourable winds and moderate weather.

All fails derive their name from the mast, yard, or flay, upon which they are extended. Thus the principal fail extended upon the main-mast is called the mainfail, d; the next above, which stands upon the maintop mast, is termed the main-top fail, e; and the highest, which is spread across the main-top-gallant mail, is named the main-top-gallant fail, f.

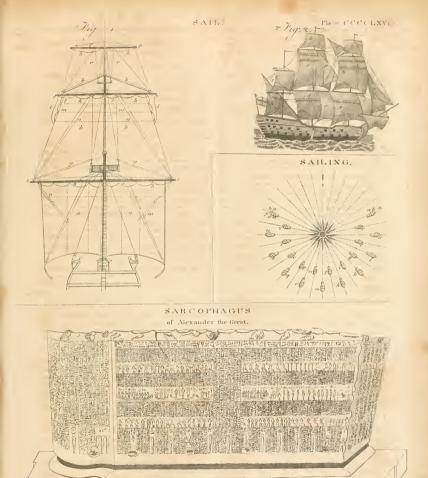
In the same manner there is the fore fail, g; the fore-top fail, h; and the fore-top-gallant-fail, i; the mizen, k; the mizen-top fail, l; and mizen-top-gallant-fail, m. Thus also there is the main stay-fail, o; main top-mast stay-sail, p; and main-top-gallant stayfail, q; with a middle flay-fail which flands between

the two laft.

N. B. All these stay-fails are between the main and fore-masts.

The ftay-fails between the main-maft and mizen-maft are the mizen stay-sail, r; and the mizen top-mast stayfail, s; and sometimes a mizen top-gallant stay-fail above the latter.

The stay-fails between the foremast and the bowsprit are the fore stay-fail, 1; the fore top-mast stay-fail





extended by yards under the bow-sprit, one of which is called the fprit-fail, y; and the other the fprit-fail

top fail, z.

The fludding-fails being extended upon the different yards of the main-matt and fore-matt, are likewise named according to their stations, the lower, top-mall, or top-

The ropes by which the lower yards of a ship are hoifted up to their proper height on the masts, are called the jears. In all other fails the ropes employed for this

purpose are called haliards.

The principal fails are then expanded by haliards, flicets, and bowlines; except the courfes, which are always stretched out below by a tack and sheet. They are drawn up together, or truffed up, by bunt-lines, clue-lines,  $d\vec{k}$ ; leech-lines,  $e\vec{e}$ ; reef-tackles, ff; flab-line, g; and fpiling-lines. As the bunt-lines and leechlines pass on the other side of the fail, they are expressed by the dotted lines in the figure.

The courses, top-fails, and top-gallant fails, are wheeled about the mail, fo as to fuit the various directions of the wind, by braces. The higher fludding-fails, and in general all the flay-fails, are drawn down, fo as

to be furled, or taken in, by down-hauls.

Some experienced fail-makers contend, that it would be of much advantage if many of the fails of thips were made of equal magnitude; in which case, when necessity required it, they could be interchangeably used. For example, as the mizen top-fail is now made nearly as large as the main top-gallant fail, it would be eafy to make the yards, masts, and fails, so as mutually to suit each other. The main and fore-top fails differ about two feet at head and foot, and from one to three feet in depth. These likewise could be easily made alike, and in some cases they are so. The same may be said of the main and fore top-gallant fails, and of the mizen top-gallant fail, and main fore-royal. The main-fail and fore-fail might alfo, with respect to their head, be made alike; but as the former has a gore at the leech, and a larger gore at the foot for clearing it of the gallows, boats, &c. which the latter has not, there might be more difficulty in arranging them. The difficulty, however, appears not to be infurmountable. These alterations, it is thought, would be extremely useful in the event of losing fails by stress of weather. Fewer fails would be thus necessary, less room would be required to flow them, and there would be less danger of confusion in taking them out. But perhaps the utility of these alterations will be more felt in the merchant-service than in the navy, which latter has always a large store of spare fails, and sufficient room to stow them in order. Thus, too, spare yards and masts wight be confiderably reduced in number, and yet any cafual damages more eafily repaired at fea. Top-mast studding fails are occasionally substituted for awnings, and might, by a very little attention in planning the rigging of a thip, be so contrived as to answer both purposes. See Ship-

SAIL is also a name applied to any vessel feen at a distance under fail, and is equivalent to ship.

To fet S.IIL, is to unfurl and expand the fails upon their respective yards and stays, in order to begin the action of failing.

To Make SAIL, is to spread an additional quantity of Sail. fail, so as to increase the thip's velocity.

To Prorten SAIL, is to reduce or take in part of the fails, with an intention to diminish the thip's velocity.

To Strike SAIL, is to lower it fuddenly. This is particularly used in faluting or doing homage to a superior force, or ) one whom the law of nations acknowledges as superior in certain regions. Thus all foreign veffels flrike to a British man of war in the Bei-

SAILING, the movement by which a vefiel is wafted along the furtace of the water, by the action of the

wind upon her fails.

When a fluin changes her flate of rest into that of motion, as in advancing out of a harbour, or from her flation at anchor, the acquires her motion very gradually, as a body which arrives not at a certain velocity till after an infinite repetition of the action of its

weight.

The first impression of the wind greatly affects the velocity, because the refishance of the water might deftroy it; fince the velocity being but finall at first, the refiftance of the water which depends on it will be very feeble: but as the thip increases her motion, the force of the wind on the fails will be diminished; whereas, on the contrary, the refiffance of the water on the bow will accumulate in proportion to the velocity with which the veffel advances. Thus the repetition of the degrees of force, which the action of the fails adds to the motion of the ship, is perpetually decreafing; whilft, on the contrary, the new degrees added to the effort of refiliance on the bow are always augmenting. The velocity is then accelerated in proportion as the quantity added is greater than that which is fubtracted; but when the two powers become equal; when the impression of the wind on the fails has lost fo much of its force, as only to act in proportion to the opposite impulse of resistance on the bow, the ship will then acquire no additional velocity, but continue to fail with a conflant uniform motion. The great weight of the thip may indeed prevent her from acquiring her greatest velocity; but when the has attained it, the will advance by her own intrinsic motion, without gaining any new degree of velocity, or lessening what she has acquired. She moves then by her own proper force in vacuo, without being afterwards subject either to the effort of the wind on the fails, or to the refistance of the water on the buw. If at any time the impulsion of the water on the bow fhould defiroy any part of the velocity, the effort of the wind on the fails will revive it, fo that the motion will continue the fame. It must, however, be observed, that this flate will only subfift when these two powers act upon each other in direct opposition; otherwise they will mutually destroy one another. The whole theory of working fl.ips depends on this counter action, and the perfect equality which should subsist between the effort of the wind and the impulsion of the water.

The effect of failing is produced by a judicious arrangement of the fails to the direction of the wind. Accordingly the various modes of failing are derived from the different degrees and fituations of the wind with regard to the course of the vessel. See SEAMAN-

SUIP.

Saint.

To illustrate this observation by examples, the plan of a number of thips proceeding on various courfes is represented by fig. 3, which exhibits the 32 points of the compass, of which C is the centre; the direction of the wind, which is northerly, being expressed by the arrow.

It has been observed in the article CLOSE-Hauled, that a thip in that fituation will fail nearly within fix points of the wind. Thus the thips B and y are closehauled; the former being on the larboard tack, steering E. N. E. and the latter on the starboard tack, failing W. N. W. with their yards ab braced obliquely, as fuitable to that manner of failing. The line of battle on the larboard tack would accordingly be expressed by

CB, and on the starboard by C v.

When a ship is neither close-hauled, nor steering afore the wind, the is in general faid to be failing large, The relation of the wind to her course is precilely determined by the number of points between the latter and the course close hauled. Thus the thips c and x have the wind one point large, the former steering E. b N. and the latter W. b N. The yards remain almost in the same position as in B and y; the bowlines and sheets of the fails being only a little slackened.

The ships d and u have the wind two points large, the one fleering east and the other west. In this manner of failing, however, the wind is more particularly faid to be upon the beam, as being at right angles with the keel, and coinciding with the position of the thip's beams. The yards are now more across the thip. the bowlines are cast off, and the sheets more relaxed; fo that the effort of the wind being applied nearer to the line of the fhip's courfe, her velocity is greatly augmented.

In e and t the ships have the wird three points large, or one point abaft the beam, the course of the former being E. b S. and that of the latter W. b S. The sheets are flill more flowing, the angle which the vards make with the keel further diminished, and the course accele-

rated in proportion.

The thips f and f, the first of which steers E. S. E. and the fecond W. S. W. have the wind four points large, or two points abaft the beam. In g and r the wind is five points large, or three points abaft the beam, the former failing S. E. b E. and the latter S. W. b W. In both these situations the sheets are still farther flackened, and the yards laid yet more athwart the ship's length, in proportion as the wind approaches

the quarter.

The flips h and q, fleering S. E and S. W. have the wind fix points large, or more properly on the quarter; which is confidered as the most favourable manner of failing, because all the fails co operate to increase the ship's velocity: whereas, when the wind is right aft, as in the flip m, it is evident that the wind in its paffage to the foremost fails will be intercepted by those which are farther aft. When the wind is on the quarter, the fore-tack is brought to the cat head; and the main-tack being cast off, the weather-clue of the main-fail is hoifled up to the yard, in order to let the wind pass freely to the fore fail; and the yards are difposed so as to make an angle of about two points, or nearly 220, with the keel.

The flips i and p, of which the former fails S. F. & S. and the latter S. W. I S. are faid to have the wind three points on the larboard or flarboard quarter : and those expressed by k and o, two points; as steering S.S.E. and S. S. W. in both which positions the yards make nearly an angle of 160, or about a point and a half,

with the thip's length. When the wind is one point on the quarter, as in the thips I and n, whole couries are S. b E, and S. b W. the fituation of the yards and fails is very little different from the last mentioned; the angle which they make with the keel being fomewhat less than a point, and the stay fails being rendered of very little fervice. The ship m fails right afore the wind, or with the wind right aft. In this position ithe yards are laid at right angles with the ship's length: the stay-sails being entirely uscless, are hauled down; and the main-fail is drawn up in the brails, that the fore-fail may operate; a measure which confiderably facilitates the steerage. or effort of the helm. As the wind is then intercepted by the main-top-fail and main top-gallant-fail, in its paffage to the fore-top-fail and fore-top-gallant-fail, these latter are by consequence entirely becalmed; and might therefore be furled, to prevent their being fretted by flapping against the mast, but that their effort contributes greatly to prevent the thip from broaching to, when the deviates from her course to the right or left

Thus all the different methods of failing may be divided into four, viz. clofe-hauled, large, quartering, and afore the wind; all which relate to the direction of the wind with regard to the ship's course, and the arrangement of the fails.

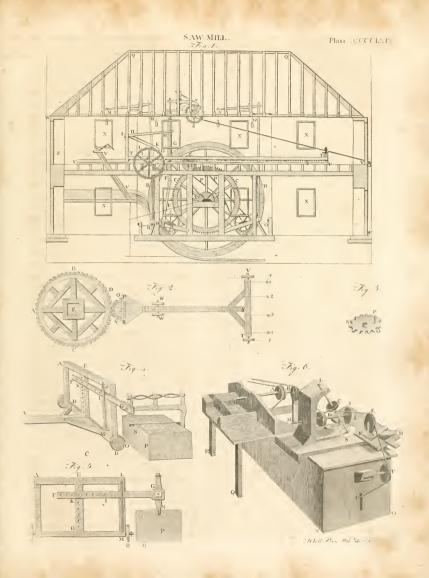
Sailing also implies a particular mode of navigation, formed on the principles, and regulated by the laws. of trigonometry. Hence we fay, Plain Sailing, Mercator's, Middle latitude, Parallel, and Great-circle Sailing. See the article NAVIGATION.

SAIL-MAKING, the art or making fails. See SAIL and SHIP-BUILDING. SAILOR, the fame with MARINER and SEAMAN.

SAINT, means a person eminent for piety and virtue, and is generally applied by us to the apostles and other holy persons mentioned in Scripture. But the Romanists make its application much more extensive. Under the word CANONIZATION we have already faid fomething on their practice of creating faints. Our readers, however, will not, we trust, be displeated with the following more enlarged account, which they themsolves give of the matter. The canonization of faints, then, they tell us, is the enrolment of any person in the canon or catalogue of those who are called faints: or, it is a judgement and fentence of the church, by which it is declared, that a deceafed person was eminent for fanctity during his lifetime, and especially towards the end of it; and that confequently he must now be in glory with God, and deferves to be honour-

the is wont to pay to the bleffed in heaven. The discipline with regard to this matter has varied. It would from that in the first ages every bishop in his own diocese was wont to declare what persons were to te honoured as faints by his people. Hence St Cvprian, about the middle of the third century, B. 3. cp. 6. requires that he be informed of those who should die in prison for the faith, that so he might make mention of them in the Loly facrifice with the martyrs,

ed by the church on earth with that veneration which





and might honour them afterwards on the anniverfacy day of their happy death. This veneration continued fometimes to be confined to one country; but fometimes it extended to dittant provinces, and even became univerfal all over the church. It was thus that St Laurence, St Ambrofe, St Augustine, St Bafil, and many others, appear to have been canonized by cultom and univerfal perfundion. In those ages none were reckoned faints but the apostles, the martyrs, and very eminent confessors, whose facility was notorious everywhere.

Afterwards it appears that canonizations were wont to be performed in provincial fronds under the direction of the metropolitan. It was thus that St liflore of Seville was canonized in the 7th century, by the 8th council of Toledo, 1; years after his death. This manner of canonization continued occasionally down to the 12th century. The last instance of a faint canonized in that way, is that of St Walter abbot of Pontosie, who was declared a faint by the archbishop of Rouen in the year 1153.

Rouen in the year 1153.

In the 12th century, in order to prevent militakes in 6 delicate a matter, Pope Alexander III. judged it proper to referve this declaration to the holy fee of Rome exclusively; and decreed that no one should for the future be honoured by the church as a faint without

the express approbation of the pope.

Since that time, the canonization of faints has been carried on in the form of a proces; and there is at Rome a congregation of cardinals, called the congregation of holy rites, who are affifted by several divines under the name of confishors, who examine such matters, and prepare them for the decision of his holiness. When therefore any potentiate, province, city, or religious body, think fit, they apply to the nope for the canonization of

any perfon.

The first juridical step in this business must be taken by the bishop in whose diocese the person for whom the application is made had lived and died, who by his own authority calls witneffes to attest the opinion of the holiness, the virtues, and miracles, of the person in queftion. When the deceafed has refided in different diocefes, it may be necessary that different bishops take fuch depositions; the originals of which are preserved in the archives of their respective churches, and authentic copies fealed up are fent to Rome by a special mesfenger, where they are deposited with the congregation of rites, and where they must remain for the space of ben years without being opened. They are then opened, and maturely examined by the congregation, and with their advice the pope allows the cause to go on or not as he thinks proper. The folicitors for the canonization are then referred by his holiness to the faid congregation, which, with his authority, gives a commission to one or mere bishops, or other respectable perfons, to examine, on the foot and in the places where the person in question has lived and died, into his character and whole behaviour. These commissioners sum-

mon witnesses, take depositions, and collect letters and Same other writings of the venerable man, and get all the intelligence they can concerning him, and the opinion generally entertained of him. The report of these commissioners is considered attentively and at length by the congregation, and every part of it discussed by the confultors, when the congregation determines whether or not they can permit the process to go on. If it be allowed to proceed, a cardinal, who is called penent, undertakes to be the principal agent in that affair. The first question then that comes to be examined is, whether or not the pe for proposed for canonization can be proved to have been in an eminent degree endued with the moral virtues of prudence, justice, fortitude, and temperance; and with the theological virtues of faith, hope, and charity? All this is canvaffed with great deliberation; and there is a diffinguished ecclefiaftic called the promoter of the holy faith, who is fworn to make all reaf nable objections to the proofs that are adduced in favour of the cano. ization. If the decision be favourable, then the proc s of miracles done to thew the fanctity of the person in question are permitted to be brought forward; when two miracles must be verified to the latisfaction of the congregation, both as to the reality of the facts, and as to their having been truly above the power of nature. If the decision on this comes out likewife favourable, then the whole is laid before the pope and what divines he chooses (A). Public prayer and fasting are likewise prescribed, in order to obtain light and direction from heaven. After all this long procedure, when the pope is refolved to give his approbation, he issues a bull, first of beatification, by which the person is declared bleffed, and afterwards another of fanctification, by which the name of faint is given him. These bulls are published in St Peter's church with very great folemnity.

A person remarkable for holiners of life, even before be is canonized, may be venerated as such by those who are persuaded of his eminent virtue, and his prayers may be implored; but all this must rest on private opinion. After his canonization, his name is inferred in the Martyrolegy, or catalogue of faints, of which the respective portion is read every day in the choir at the divine office. A day is also appointed for a yearly commemoration of him. His name may be mentioned in the public church fervice, and his intercession with God befought. His relies may be enfainted it he may be painted with rays of glory, and altars and churches may be decicated to God in honour of him, and in thanksgiving to the divine goodness for the bleflings bestowed on him in life, and for the glory to which he

is raifed in heaven.

The affair of a canonization is necessarily very expensive, because so many persons must be employed about it; so many journeys must be made; so many writings for and against it must be drawn out. The expence allogether amounts to about 25,000 Roman crowns, or 6000l. sterling. But it is generally con-

(A) His holine's generally appoints three confidences; in the first of which the cardinals only assist their opinion; in the second, a preacher propounces a speech in profile of the candidate before a numerous audience; to the third, not only the cardinals, but all the bishops who he at Rome, are invited, and all of them give their vote by word of mouth.

wendra.

Saint. Samtes.

trived to canonize two or three at a time, by which means the particular expence of each is very much leffened, the folemnity being common.

It often happens that the folicitors for a canonization are unfuccefsful. Thus the Jefuits, even when their interest at Rome was greatest, could not obtain the canonization of Bellarmine; and it is remarkable, that the objection is faid to have been, his having defended the indirect power of the pope over Christian

princes even in temporals.

Several authors have written on canonization, and particularly Prosper Lambertini, afterwards pope under the name of Benedict XIV, who had held the office of promoter of the faith for many years. He published on it a large work in feveral volumes, in folio, of which there is an abridgment in French. In this learned performance there is a full history of the canonization of faints in general, and of all the particular processes of that kind that are on record: an account is given of the marmer of proceeding in these extraordinary trials; and it is shown, that, besides the assistance of providence, which is implored and expected in what is fo much connected with religion, all prudent human means are made use of, in order to avoid mistakes, and to obtain all the evidence of which the matter is susceptible, and which must appear more than fufficient to every impartial judge. See POPE, POPERY, &c.

SAINT Catherine, a Portuguese island in the South fea, not far diftant from the coast of Brazil. It was visited by La Perouse, who ascertained it to lie between 27° 19' 10" and 27° 49' N. Lat. and its most northerly point to lie in 49° 49' W. Long. from Paris. Its breadth from cast to west is only fix miles, and it is separated from the main land by a channel only about 200 fathoms broad. On the point firetching farthest into this channel is fituated the city of Nostra Senora del Destero, the metropolis of the government, and the place of the governor's refidence. It contains about 400 houses, and 3000 inhabitants, and has an exceedingly pleafant appearance. In the year 1712, this island served as a retreat to vagabonds, who effected their escape from different parts of the Brazils, being only nominal fubjects of Portugal. Its whole population has been estimated at 20,000. The foil is extremely fertile, producing all forts of fruit, vegetables, and corn, almost spontaneously. The whale fifthery is very fuccessful; but it is the property of the crown, and is farmed by a company at Lifbon, which has three confiderable establishments upon the coast. Every year they kill about 400 whales, the produce of which, both oil and spermaceti, is fent to Lisbon by the way of Rio Janeiro. The inhabitants are idle spectators of this fishery, from which they derive not the smallest advantage. A very amiable picture, however, is given of their hospitality to strangers, by M. La Peroni

SAINT-Foin, a species of hedyfarum. See HEDY-SARUM, BOTANY Index, and AGRICULTURE Index.

SAINTES, an ancient and confiderable town of France, in the department of Lower Charente. It is the capital of Saintonge, and before the revolution was a bishop's fee. It contained likewife feveral convents, a Jefu'ts c ll ge, and an abbey remarkable for its steeple, which is faid to be one of the loftiest in France. It is feated on an eminence, 37 miles fouth-east of Rochelle, and 262 fouth-fouth-west of Paris. W. Long.

e. 38. N. Lat. 45. 54. The castle is seated on a rock, Sainten and is reckoned impregnable. Sakrada+

This city was a Roman colony; and those conquerors of the earth, who polished the nations they subdued. have left behind them the traces of their magnificence. In a hollow valley between two mountains, and almost adjoining to one of the fuburbs, are the ruins of the amphitheatre. Though now in the last stage of decay, its appearance is august and venerable. In some parts, scarcely any of the arches are to be seen; but the east end is still in a great degree of preservation. From its fituation in a valley, and from the ruins of an aqueduct which conveyed water to the town from near three leagues distance, it has been supposed that Naumachire were represented in it; but this amounts only to conjecture. A triumphal arch, on which is an inscription in Roman letters, merits likewife attention. It was erected to Germanicus, on the news of his death, fo univerfally lamented throughout the empire. The river Charente furrounds this city, as the Severn does that of

Except the remains of Roman grandeur yet vifible at Saintes, the place contains very little to detain or amuse a traveller. It is built with great irregularity; the firects are narrow and winding, the houses mean, and almost all of them are some centuries old. The cathedral has been repeatedly defaced and destroyed by Normans and Huguenots, who made war alike on every monument of art or piety. One tower only escaped their rage, which is faid to have been built as early as the year 800 by Charlemagne. It is of an enormous magnitude, both as to height and circumference. These circumstances have probably conduced more to its prefervation during the fury of war, than any veneration for the memory of its founder, or for the fanctity of its

Shrewfbury, describing the form of a horse-shoe.

institution.

SAINTOGNE, a province of France, now forming with the province of Aunis the department of Lower Charente, is bounded on the east by Angoumois and Perigord, on the north by Poitou and the territory of Aunis, on the west by the ocean, and on the fouth by Bourdelois and Giron, about 62 miles in length and 30 in breadth. The river Charente runs through the middle of it, and renders it one of the finest and most fertile provinces in France, abounding in all forts of corn and fruits; and it is faid the best falt in Europe is made here.

THE SAINTS, are three small islands, three leagues diffant from Guadaloupe, which form a triangle, and have a tolerable harbour. Thirty Frenchmen were fent thither in 1648, but were foon driven away by an excessive drought, which dried up their only spring before they had time to make any refervoirs. A fecond attempt was made in 1652, and permanent plantations were established, which now yield 50,000 weight of coffee, and 100,000 of cotton.

SAJENE, a Ruffian measure of length, equal to

about feven English feet.

SAKRADAWENDRA is the name of one of the Ceylonefe deities, who commands and governs all the reft, and formerly answered the prayers of his worshippers; but according to the fabulous account which is given of him, the golden chair, on which he fat, and the foot of which was made of wax, that was foftened by their prayers and tears, and funk downward, fo that

he could take notice of their requests and relieve them. being disposed of among the poor, they no longer derive any benefit from him, or pay him any reverence. See BUDUN.

SAL. See SALT.

SALADIN, a famous fultan of Egypt, equally renowned as a warrior and legislator. He supported himfelf by his valour, and the influence of his amiable character, against the united efforts of the chief Christian potentates of Europe, who carried on the most unjust wars against him, under the false appellation of Holy Wars. See the articles EGYPT and CROISADE.

SALAMANCA, an ancient, large, rich, and po-pulous city of Spain, in the kingdom of Leon, fituated on the river Tormes, about 75 miles west from Madrid. It is faid to have been founded by Tencer the fon of Telamon, who called it Salamis or Salmantica, in memory of the ancient Salamis. Here is an university, the greatest in Spain, confisting of 24 colleges, and perhaps inferior to none in the whole world, in respect at least to its revenues, buildings, number of scholars, and mafters. Here are also many grand and magnificent palaces, fquares, convents, churches, colleges, chapels, and hospitals. The bishop of this country is suffragan to the archbishop of Compostella, and has a yearly revenue of 1000 ducats. A Roman way leads from hence to Merida and Seville, and there is an old Roman bridge over the river. Of the colleges in the university, four are appropriated to young men of quality; and near it is an infirmary for poor fick scholars. W. Long. 6. 10. N. Lat. 41. 0.

SALAMANDER. See LACERTA, ERPETOLOGY

Index.

SALAMIS, an island of the Archipelago, fituated in E. Long. 34. 0. N. Lat. 37. 32 .- It was famous in antiquity for a battle between the Greek and Persian fleets. In the council of war held among the Perfians on this occasion, all the commanders were for engaging, because they knew this advice to be most agreeable to the king's inclinations. Queen Artemifia was the only person who opposed this resolution. She was queen of Halicarnassus; and followed Xerxes in this war with five thips, the best equipped of any in the fleet, except those of the Sidonians. This princess distinguished herfelf on all occasions by her fingular courage, and fill more by her prudence and conduct. She represented, in the council of war we are speaking of, the dangerous confequence of engaging a people that were far more expert in maritime affairs than the Perfians; alleging, that the loss of a battle at sea would be attended with the ruin of their army; whereas, by spinning out the war, and advancing into the heart of Greece, they would create jealousies and divisions among their enemics, who would separate from one another, in order to defend each of them their own country; and that the king might, almost without striking a blow, make himself master of Greece. This advice, though very prudent, was not followed, but an engagement unanimously refolved upon. Xerxes, in order to encourage his men by his presence, caused a throne to be erested on the top of an eminence, whence he might fafely behold whatever happened; having feveral feribes about him, to write down the names of fuch as thould figualize themselves against the event. The approach of the Persian sleet, with the news that a strong detaphment from the army VOL. XVIII. Part II.

The island of Salamis is of a very irregular shape; it was reckoned 70 or 80 stadia, i. e. 8 or 10 miles long, reaching westward as far as the mountains called Kerata or The Horns. Paulanias informs us, that on one fide of this island stood in his time a temple of Diana, and on the other a trophy for a victory obtained by Themiflocles, together with the temple of Cychreus, the fite of which is now thought to be occupied by the church The city of Salamis was demolished by the Athenians. Maccd rives, fi m difaffedion. In the fecond century, when a was viited by Paulanias, some ruins of the Aof Ajax; and not far from the port was shown a stone,

was marching against Cleombrotus, who defended the Salamia ishmus, struck such a terror into the Peloponnesians, that they could not by any intreaties be prevailed upon to flay any longer at Salamis. Being therefore determined to put to sea, and fail to the ifthmus, Themistocles privately dispatched a trusty friend to the Persian commanders, informing them of the intended flight; and exhorting them to fend part of their fleet round the itland, in order to prevent their escape. The same mel-senger assured Xerxes, that Themistocles, who had sent him that advice, defigned to join the Persians, as soon as the battle began, with all the Athenian ships. The king giving credit to all he faid, immediately caused a frong squadron to fail round the island in the night in order to cut off the enemy's flight. Early next morning, as the Peloponnessans were preparing to set fail, they found themselves encompassed on all sides by the Persian sleet; and were against their will obliged to remain in the straits of Salamis and expose themselves to the fame dangers with their allies. The Grecian fleet confitted of 380 fail, that of the Perfians of 2000 and upwards. Themistocies avoided the engagement till a certain wind, which role regularly every day at the fame time, and which was entirely contrary to the enemy, began to blow. As foon as he found himself favoured by this wind, he gave the fignal for battle. The Perfians, knowing that they fought under their king's eye. advanced with great resolution; but the wind blowing directly in their faces, and the largeness and number of their ships embarrassing them in a place fo strait and narrow, their courage foon abated; which the Greeks observing, used such efforts, that in a short time breaking into the Persian fleet, they entirely difordered them. fome flying towards Phalarus, where their army lay encamped; others faving themselves in the harbours of the neighbouring illands. The Ionians were the first that betook themselves to flight. But Queen Artemisia distinguished herself above all the rest, her thips being the last that fled : which Xerves observing, cried out that the men behaved like women, and the women with the courage and intrepidity of men. The Athenians were fo incenfed against her, that they offered a reward of 10,000 drachmas to any one that should take her alive but she, in spite of all their efforts, got clear of the ships that purfued her, and arrived fafe on the coast of Asia. In this engagement, which was one of the most memorable actions we find recorded in history, the Grecians lost 40 ships; and the Persians 200, besides a great many more that were taken, with all the men and ammunition they carried.

Salami of which, they related, Telamon fat to view the Salaminian thips on their departure to join the Grecian fleet at Ausis. The walls may still be traced, and it has been conjectured were about four miles in circumference. The level space within them was now covered with green corn. The port is choked with mud, and was partly day. Among the feattered marbles are forne with interptions. One is of great antiquity, before the intro-duction of the Ionic alphabet. On another, near the port, the name of Solon occurs. This renowned lawgiver was a native of Salamis, and a statue of him was erected in the market-place, with one hand covered by nis velt, the modell attitude in which he was accustomed to address the people of Athens. An infeription on black marble was also copied in 1676 near the ruin of a temple, probably that of Ajax. The island of Salamis now inhabited by a few Albanians, who till the ground. Their village is called Ampelaki, " the Vineyard," and is at a diffance from the port, standing more inland. In the church are marble fragments and fome

> SALARY, a recompense or confideration made to a person for his pains and industry in another man's business. The word is used in the statute 23 Edw. III. cap. 1. Salarium at first fignified the rents or profits of a falle, hall, or house (and in Gascoigne they now call the feats of the gentry fala's, as we do halls); but afterwards it was taken for any wages, flipend, or annual

SALACIA, a genus of plants belonging to the gy-

nandria class. See Borany Index.

SALE, is the exchange of a commodity for money; barter, or permutation, is the exchange of one commodity for another. When the bargain is concluded, an obligation is contracted by the buyer to pay the value, and by the leiler to deliver the commodity, at the time and place agreed on, or immediately if no time be fpe-

In this, as well as other mercantile contracts, the fafety of commerce requires the utmost good faith and veracity. Therefore, although by the laws of England, a fale above the value of Icl. be not binding, unless carnest be paid, or the bargain confirmed by writing, a merchant would lofe all credit who refused to perform his agreement, although these legal requisites were

omitted.

When a specific thing is fold, the property, even before delivery, is in some respect vested in the buyer; and if the thing perifhes, the buyer must bear the loss. For example, if a horse dies before delivery, he must pay the value: but if the bargain only determines the quantity and quality of the goods, without specifying the identical articles, and the feller's warehouse, with all his goods, he burned, he is intitled to no payment. He must also bear the loss if the thing perish through his fault; or when a particular time and place of delivery is agreed on, if it perills before it be tendered, in terms of the bargain.

If a person purchase goods at a shop without agreeing for the price, he is liable for the ordinary market-

price at the time of purchase.

If the buyer proves infolvent before delivery, the feller is not bound to deliver the goods without payment or fecurity.

If the importation, or use of the commodities fold,

be prohibited by law, or if the buyer knows that they were finuggled, no action lies for delivery. Salen.

The property of goods is generally prefumed, in fayour of commerce, to belong to the poffestor, and can-not be challenged in the hands of an onerous purchaser. But to this there are some exceptions. By the Scots law, stolen goods may in all cases be reclaimed by the proprietor, and also by the English law, unless they were bought bona fide in open market; that is, in the accustomed public places, on flated days, in the country, or in a shop in Lo Jon; and horses may be reclaimed. unless the fale be regularly entered by the book-keeper of the market. In all cases, if the goods be evicted by for the value.

Actions for payment of thop accounts, as well as other debts not conflituted by writing, are limited in England to fix years. The teltimony of one witness is admitted; and the feller's books, although the perfor that kept them be dead, are good evidence for one year. In Scotland, merchants books may be proved within three years of the date of the last article, by one witness, and the creditor's books and oath in supplement. After three years, they can only be proved by the oath or writ of the debtor. A merchant's books are in all cases good evidence against him.

SALEP, in the Materia Medica, the dried root of a species of orchis. See Orchis, Botany Index.

Several methods of preparing falep have been pro-posed and practised. Geoffrey has delivered a very judicious process for this purpote in the Histoire de l'Academie Royale des Sciences, 1740; and Retmus, in the Swedith Transactions, 1764, has improved Geoffroy's method. But Mr Moult of Rochdale has lately favourroot; by which falep is prepared, at least equal, if not fuperior, to any brought from the Levant. The new root is to be washed in water; and the fine brown fkin which covers it is to be separated by means of a small brush, or by dipping the root in hot water, and rubbing it with a coarfe linen cloth. When a fufficient number of roots have been thus cleaned, they are to be fpread on a tin-plate, and placed in an oven heated to the usual degree, where they are to remain fix or ten minutes, in which time they will have lost their milky whiteness, and acquired a transparency like horn, without any di-minution of bulk. Being arrived at this state, they are to be removed, in order to dry and harden in the air, which will require feveral days to effect; or by ufit g a very gentle heat, they may be finished in a few

Salen thus prepared, may be affected in those parts of England where labour bears a high value, at about eightpence or tenpence per pound: And it might be fold ftill cheaper, if the crchis were to be cured, without separating from it the brown skin which covers it; a troublesome part of the process, and which does not contribute to render the root either more palarable or falutary. Whereas the foreign falcp is now fold at five or f.x fhillings per pound.

Salep is faid to contain the greatest quantity of vegetable nourishment in the smallest bulk. Hence a very judicious writer, to prevent the dreadful calumity of fa-mine at fea, has lately proposed that the power of it should constitute part of the provisions of every ship's

company,

company. This powder and portable foup, diffolyed in boiling water, form a rich thick jelly, capable of sup-porting life for a considerable length of time. An ounce of each of these articles, with two quarts of boiling water, will be fufficient fubfillence for a man a-day ; and as being a mixture of animal and vegetable food, must prove more nourithing than double the quantity of rice-cake, made by boiling rice in water: which last. however, failurs are often obliged folely to fubfift upon for feveral months; especially in voyages to Guinea, when the bread and flour are exhaufted, and the beef and pork, having been falted in hot countries, are be-

\* Edgys Medi al end Expe-\*imental.

" But as a wholesome nourishment (favs Dr Percival \*), rice is much inferior to falep. I digetled feveral alimentary mixtures prepared of mutton and water, best up with bread, fea-bifcuit, falep, rice flower, fagopowder, potato, old cheefe, &c. in a heat equal to that of the human body. In 48 hours they had all acquired a vinous fmell, and were in britk fermentation, except the mixture with rice, which did not emit many airbubbles, and was but little changed. The third day feveral of the mixtures were fweet, and continued to ferment; others had loft their intestine motion, and were four; but the one which contained the rice was become putrid. From this experiment it appears, that rice as an aliment is flow of fermentation, and a very weak corrector of putrefaction. It is therefore an improper diet for hospital-patients; but more particularly for failors in long voyages; because it is incapable of preventing, and will not contribute much to check, the progress of that fatal disease, the sea sourvy. Under certain circ imflances, rice feems disposed of it alf, without mixture, to become putrid; for by long keeping it fometimes acquires an offensive factor. Nor can it be confidered as a very nutritive kind of food, on a count of its difficult folubility in the stomach. Experience confirms the truth of this conclusion; for it is observed by the plan ers in the West Indies, that the negroes upon rice.

" Salep has the fingular property of concealing the tafte of falt water; a circumstance of the highest importance at fea, when there is a fearcity of fresh water. I diffolved a dram and a half of common falt in a pint of the mucilage of falep, fo liquid as to be potable, and the fame quantity in a pint of fpring water. The falen was by no means difagreeable to the tafte, but the water was rendered extremely unpalatable. This experiment fuggested to me the trial of the orchis root as a corrector of acidity, a property which would render it a very useful diet for children. But the sclution of it, when mixed with vinegar, feemed only to dilute like an equal proportion of water, and not to cover its sharpness. Salep, however, appears by my experiments to retard the acetous fermentation of milk; and confequently would be a good lithing for milk-portage, especially in large towns, where the cattle being fed upon four draff must

yield acefcent milk,

"Salep in a certain proportion, which I have not yet been able to afcertain, would be a very ufeful and profitable addition to bread. I directed one ounce of the powder to be diffolved in a quart of water, and the mucilage to be mixed with a fufficient quantity of flour, falt, and year. The flour amounted to two pounds, the the yeaft to two ounces, and the falt to 80 grains. The loaf when baked was remarkably well fermented, and, weighed three pounds two ounces. Another loaf, made with the same quantity of flour, &cc. weighed two pounds and 12 ounces; from which it appears that the falep, though used in so small a proportion, increased the gravity of the loaf fix ounces, hy absorbing and retaining more water than the flour alone was capable of. Half a pound of flour and an ounce of falso were mixed together, and the water added according to the usual method of preparing bread. The loaf when baked weighed 13 ounces and a half; and would probably have been beavier if the falep had been previously diffolved in about a pint of water. But it flould be re-marked, that the quantity of flour used in this trial was not fufficient to conceal the peculiar taffe of the

" The restorative, mucilaginous, and demulcent qualities of the orchis root, render it of confiderable use in various difeafes. In the fea fourty it powe fully obtunds the acrimony of the fluids, and at the fame time is easily affimilated into a mild and nutritious chyle. In diarrhoess and the dyfentery it is highly ferviceable, by theathing the internal coat of the intellines, by abating irritation, and gently correcting putrefaction. In the fymptomatic fever, which arises from the absorption of pus from ulcers in the lunge, from wounds, or from amputation, falep used plentifully is an admirable demn!cent, and well adapted to relift the diffolution of the crafis of the blood, which is so evident in these cases, And by the same mucilaginous quality, it is equally efficacious in the firangury and dyfury; especially in the latter, when arising from a venere I cause, because the discharge of urine is then attended with the most exquifite pain, from the ulceration about the neck of the bladder and through the course of the urethra. I have found it also an useful aliment for patients who labour under the flone or gravel." The ancient chemifts appear to have entertained a very high opinion of the orchis root, as appears from the feereta feeretorum of Raymund Lully, a work dated 1565.

SALERNO, an appient and confiderable town of Italy, in the kingdom of Naples, and capital of the Hither Principato, with an archbifhop's fce, a castle, harbour, and an university chiefly for medicine. It is feated at the bottom of a bay of the fame name. E. Long.

14. 53. N. Lat. 40. 35. SALET, in War, a light covering or annour for the head, anciently worn by the light-horfe, only different from the casque in that it had no crest and was little more than a barc cap.

SALIANT, in Fortification, denotes projecting. There are two kinds of angles, the one faliant, which have their point outwards; the other, re-entering, which have their points inwards.

SALIANT, SALIENT, OF SAILLANT, in Heraldry, 18 applied to a lion, or other beaft, when its fore-legs are

raifed in a leaping posture.

SALIC, or Salique, LAW, (Lex Salica), an ancient and fundament. I law of the kingdom of France, usually supposed to have been made by Pharamond, or at least by Clovis; in virtue of which males only are to inherit.

Some, as Postellus, would have it to have been called Salic, q. d. Gallic, because peculiar to the Gauls. Fer. Montanus infifts, it was because Pharamond was at first called Salicus. Others will have it to be so named, as having been made for the falic lands. These were noble fiefs which their first kings used to bestow on the sallians, that is, the great lords of their falle or court, without any other tenure than military fervice; and for this reason, such fiels were not to descend to women, as being by nature unfit for fuch a tenure. Some. again, derive the origin of this word from the Salians, a tribe of Franks that fettled in Gaul in the reign of Julian, who is faid to have given them lands on condition of their perfonal fervice in war. He even passed the conditions into a law, which the new conquerors acquiesced in, and called it falic, from the name of their former countrymen.

SALICORNIA, JOINTED GLASS-WORT, or Saltwort: a genus of plants belonging to the monandria class; and in the natural method ranking under the 12th order, Holoracee. See BOTANY Index.

The inhabitants near the fea-coalts where these plants grow, cut them up toward the latter end of summer, when they are fully grown; and, after having dried them in the fun, they burn them for their aftes, which are used in making galas and soap. These herbs are by the country people called kelp, and promiseuously gathered for use.

SALII, in Roman antiquity, priefls of Mars, whereof there were 12, inflituted by Numa, wearing painted, particoloured garments, and high bonnets, with a fleel cuiraffe on the breaft. They were called falii, from faltare "to dance"; because, after affiling at facritices, they went dancing about the fireets, with bucklers in their left band, and a rod in their right, firiking mufically with their rods on one another's bucklers, and fing-

ing hymns in honour of the gods. SALINO, one of the Lipari islands, fituated between Sicily and Italy, confifts of two mountains, both in an high state of cultivation. The one lying more towards the north than the other is rather the highest of the two, and is called del Capo, "the head." The other is called della Fossa felice, or the " happy valley." One third of the extent of these hills from the bottom to the fummit is one continued orchard, confifting of vines, olive, fig, plum, apricot, and a vast diversity of other trees. The white roofs of the houses, which are everywhere interspersed amid this diversity of verdure and foliage, contribute to variegate the prospect in a very agreeable manner. The back part of almost all the honfes is shaded by an arbour of vines, supported by pillars of brick, with cross poles to sustain the branches and foliage of the vines. Those arbours shelter the houses from the rays of the fun, the heat of which is quite fcorching in these fouthern regions. The vines are extremely fruitful; the poles bending under the weight of the grapes.

The scenes in this island are more interesting to the lover of natural history than to the antiquarian. See RETICULUM.

On the fouth Ade of the island, however, there are still to be feen some fine ruins of an ancient bath, a Roman work. They confist of a wall 10 or 11 fathoms in extent, and terminating in an arch of no great height,

of which only a finall part now remains. The building ficting to have been reduced to its prefent flate rather by the ravages of men, than the injuries of time. Almost all the houses in the illand are built of materials which have belonged to ancient monuments. The ancients had, in all probability, baths of fresh as well as of falt water in the illand; for whenever the prefent habitations have occasion for a spring of fresh water, they have only to dig a pit on the slove, and pure sweet water flows in great abundance.

There were formerly mines of alum here, from which the inhabitants drew a very confiderable yearly revenue, But whether they are exhausted, or whatever circumstance may have caused them to be given up, they are now no longer known. The island abounds in a variety of finite.

of fruits.

On the eaft fide it is very populous. There are two places which are both called Lingua, "the tongue," and which contain a good number of inhabitants; the one is near Salino, the other is diffinguished by the name of St Marrina: there are befides thefe two other villages. All these places together may contain about 4000 inhabitants: the circumference of the island may be about 14 miles.

SALISBURY, the capital of the county of Wiltthire in England, fituated in W. Long. 1. 55. N. Lat. 51. 3. This city owed its first rise to its cathedral, which was begun in 1210, and finished in 1258. According to an estimate delivered in to Henry III, it cost forty thousand merks. It is a Gothic building, and is certainly the most elegant and regular in the kingdom. The doors and chapels are equal in number to the months, the windows to the days, and the pillars and pilasters to the hours in a year. It is built in the form of a lantern, with a fpire in the middle, and nothing but buttreffes and glass windows on the outfide. The fpire is the highest in the kingdom, being 410 feet, which is twice the height of the Monument in London. The pillars and pilasters in the church are of fusile marble; the art of making which is now either entirely loft or little known. This magnificent church has lately undergone most beautiful alterations; with an addition of two fine windows, and an organ prefented by the king. The roof of the chapter house, which is so feet in diameter and 150 in circumference, bears entirely upon one flender pillar, which is fuch a curiofity as can hardly be matched in Europe. The turning of the western road through the city in the reign of Edward III. was a great advantage to it. The chancellorship of the most noble order of the garter, which is annexed to this fee, was first conferred on Bishop Richard Beauchamp. The hospital of St Michael's, near this city, was founded by one of its bishops. Dr Seth Ward, bishop of this see in the reign of Charles II. contributed greatly to the making the river Avon navigable to Christ-church in Hampshire. The fame prelate, in 1683, built an hospital for the entertainment of the widows of poor clergymen. There are three other churches befides the cathedral, which is without the liberty of the city, and a greater number of boarding schools, especially for young ladics, than in any other town in England. Here is a manufacture of druggets, flannels, bonelace, and those cloths called Salifbury whites; in confideration of which, and its fairs, markets, affizes,

Sallo

Salinbury boarding schools, and clergy, the city may be justly faid to be in a flourishing condition. It was incorporated by Henry III; and is governed by a mayor, high fleward, recorder, deputy-recorder, 24 aldermen, and 30 affiftants or common-council men. The number of fouls is about 7668. A new council chamber, with proper courts of justice, was built here in the year 1794 by the earl of Radnor; to which Mr Huffey was also a great benefactor. That quarter called the Close, where the canons and prebendaries live, is like a fine city of itself. In this town are several charity-schools; the expence of one of them is entirely defrayed by the bishop. The city gives title of earl to the noble family of Cecil.

> SALISBURY Plain. The extensive downs in Wiltshire. which are thus denominated, form in fummer one of the most delightful parts of Great Britain for extent and beauty. It extends 28 miles west of Weymouth, and 25 east to Winchester; and in fome places is near 40 miles in breadth. That part about Salifbury is a chalky down, and is famous for feeding numerous flocks of sheep. Considerable portions of this tract are now enclosing, the advantages of which are fo great, that it is hoped the whole will undergo fo beneficial a change. This plain contains, beside the famous Stonehenge, nu-

merous other remains of antiquity.

SALIVA, is that fluid by which the mouth and tongue are continually moistened in their natural state; and is supplied by glands which form it, that are called falivary glands. This humour is thin and pellucid, incapable of being concreted by the fire, almost without tafte and fmell. By chewing, it is expressed from the glands which separate it from the blood, and is intimately mixed with our food, the digestion of which it greatly promotes. In hungry perfons it is acrid, and copioully discharged; and in those who have fasted long it is highly acrid, penetrating, and refolvent. A too copious evacuation of it produces thirst, loss of appetite, bad digestion, and an atrophy.

SALIVATION, in Medicine, a promoting of the flux of faliva, by means of medicines, mostly by mercury. The chief use of falivation is in diseases belonging to the glands and membrana adipofa, and principally in the cure of the venereal difeafe; though it is fometimes also used in epidemic diseases, cutaneous diseases,

&c. whose crises tend that way.

SALIX, the WILLOW, a genus of plants belonging to the dioccia class; and in the natural method ranking under the 50th order, Amentaceae. See BOTANY

Index.

Willow trees have been frequently the theme of poctical description, both in ancient and modern times, In Virgil, Horace, and in Ovid, we have many exquifite allufions to them and their feveral properties; and for a melancholy lover or a contemplative poet, imagination cannot paint a fitter retreat than the banks of a beautiful river, and the shade of a drooping willow. The Babylonica, Babylonian pendulous falix, commonly callep weeping willow, grows to a large fize, having numerous, long, flender, pendulous branches, hanging dowo loofely all around in a curious manner, and long, narrow, spear-shaped, serrated, smooth leaves. This curious willow is a native of the cast, and is retained in our hardy plantations for ornament; and exhibits a most agreeable variety, particularly when disposed fingly by

the verges of any piece of water, or in spacious openings of grafs ground.

All the species of falix are of the tree kind, very hardy, remarkably fait growers, and feveral of them attaining a confiderable flature when permitted to run up to standards. They are mostly of the aquatic tribe, being generally the most abundant and of most prosperous growth in watery fituations : they however will grow freely almost anywhere, in any common foil and exposure; but grow considerably the fastest and strongest in low moist land, particularly in marshy situations, by the verges of rivers, brooks, and other waters; likewife along the fides of watery ditches, &c. which places often lying wafte, may be employed to good advantage, in plantations of willows, for different pur-

SALLEE, an ancient and confiderable town of Africa in the kingdom of Fez, with a harbour and feveral ports. The harbour of Sallee is one of the best in the country; and yet, on account of a bar that lies across it, ships of the smallest draught are forced to unload and take out their guns before they can get into it. There are docks to build ships; but they are hardly ever used, for want of skill and materials. It is a large place, divided by the river Guero into the Old and New Towns. It has long been famous for its rovers or pirates, which make prizes of all Christian ships that come in their way, except there is a treaty to the contrary. The town of Sallee in its present state, though large, prefents nothing worthy the observation of the traveller, except a battery of 24 pieces of cannon fronting the fea, and a redoubt at the entrance of the river, which is about a quarter of a mile broad, and penetrates feveral miles into the interior country. W. Long. 6. 30. N. Lat 34. 0.

SALLET, or SALAD, a dish of eatable herbs, ordinarily accompanying roaft meat; composed chiefly ofcrude fresh herbage, seasoned with falt, oil, and vine-

Menage derives the word from the Latin falata; of fal, " falt;" others from falcedo; Du-Cange from falgama, which is used in Ausonius and Columella in the fame fenfe.

Some add mustard, hard eggs, and fugar; others, pepper, and other fpices, with orange-peel, faffron,

The principal fallet-herbs, and those which ordinarily make the basis of our English sallets, are lettuce, celery, endive, creffes, radifh, and rape; along with which, by way of furniture, or additionals, are used pursane, spinach, sorrel, tarragon, burnet, corn-fallet, and chervil

The gardeners call fome plants finall herbs in fallets; these should always be cut while in the sead-leaf: as creffes, mustard, radish, turnep, spinach, and lettuce; all which are raifed from feeds fown in drills, or lines, from the middle of February to the end of March, under glasses or frames; and thence to the middle of May, upon natural beds, warmly exposed; and during the fummer heats in more fliady places; and afterwards in September, as in March, &cc; and lastly, in the rigour of the winter, in hot-beds. If they chance to be frozen in very frofty weather, putting them in spring-water two hours before they are used recovers them.

SALLO, DENIS DE, a French writer, famous for

Sa'to

being the projector of literary journals, was born at Paris in 1626. He sludied the law, and was admitted a counsellor in the parliament of Paris in 1652. It was in 1664 he schemed the plan of the Journal des Seavans; and the year following began to publish it under the name of Sieur de Heronville, which was that of his valet de chambre. But he played the critic fo feverely, that authors, furprifed at the novelty of fuch attacks, retorted so powerfully, that M. de Sallo, unable to weather the itorm, after he had published his third Journal, declined the undertaking, and turned it over to the abbe Gallois; who, without prefuming to criticile, contented himfelf merely with giving titles, and making extracts. Such was the origin of literary journals, which afterwards fprang up in other countries under different titles; and the fuccess of them, under judicious management, is a clear proof of their utility.

M. de Sallo died in 1669.

SALLUSTIUS, CAIUS CRISPUS, a celebrated Roman historian, was born at Amiternum, a city of Italy, in the year of Rome 669, and before Christ 85. His education was liberal, and he made the best use of it. His Roman history in fix books, from the death of Sylla to the confpiracy of Catiline, the great work from which he chiefly derived his glory among the ancients, is unfortunately lost excepting a few fragments; but his two detached pieces of hiltory which happily remain entire, are fufficient to jultify the great encomiums he has received as a writer .- He has had the fingular honour to be twice translated by a royal hand : first by our Elizabeth, according to Camden ; and fecondly, by the prefent Infant of Spain, whose version of this elegant historian, lately printed in folio, is one of the most beautiful books that any country has produced fince the invention of printing. No man has inveighed more tharply against the vices of his age than this historian; yet no man had fewer pretentions to virtue. His youth was fpent in a most lewd and profligate manner; and his patrimony almost squandered away when he had scarcely taken possession of it. Marcus Varro, a writer of undoubted credit, relates, in a fragment preserved by Aulus Gellius, that Sallust was actually caught in bed with Faufla the daughter of Sylla, by Milo her hufband; who scourged him very severely, and did not suffer him to depart till he had redeemed his liberty with a confiderable fum. A. U. C. 694, he was made questor, and in 702 tribune of the people; in neither of which places is he allowed to have acquitted himfelf at all to his honour. By virtue of his questorship, he obtained an admission into the senate; but was expelled thence by the cenfors in 704, on account of his immoral and debauched way of life. In the year 70 5 Cæfar restored him to the dignity of a fenator; and to introduce him into the house with a better grace, made him questor a second time. In the administration of this office he behaved himfelf very feandaloufly: exposed every thing to fale for which he could find a purchaser; and if we may believe the author of the invective, thought nothing wrong which he had a mind to do : Nihil non venale habuerit, cujus aliquis emptor fuit, nihil non æquum et verum duxit, quod ipfi facere collibuiffet. In the year 707, when the African war was at an end, he was made prætor for his fervices to Cæfar, and fent to Numidia. Here he acted the same part as Verres had done in Sicily; out-

rageously plundered the province; and returned with Salintian fuch immense riches to Rome, that he purchased with those gardens which to this day retain the name of Salintian gardens, besides his country house at Tivedi. How he spent the remaining part of his life, we have no account from ancient writers. Eusebius tells us that he married Terentia, the divorced wise of Cicero; and that he died at the age of 5c, in the year 710, which was about four years before the battle of Actium. Of the many things which he wrote, beside his Histories of the Catilinarian and Jugurthine wars, we have fome orations or speeches, printed with his fragments.

SALLY-RORTS, in fortification, or Pofern-Gater, as they are fometimes called, are those under-ground passages which lead from the inner works to the outward ones; such as from the higher stank to the lower, or to the tenailles, or the communication from the middle of the curtain to the ravelin. When they are made for men to go through only, they are made with steps at the entrance and going out. They are about 6 feet wide and 8½ feet high. There is also a gutter or shore made under the fally-ports, which are in the middle of the curtains, for the water which runs down the street to pass into the ditch; but this can only be done when they are wet ditches. When fally ports ferve to carry gans through them for the out-works, instead of making them with steps, they must have a gradual slope,

and be 8 feet wide.

SALMASIUS, CLAUDIUS, a French writer of uncommon abilities and immense erudition, descended from an ancient and noble family, and born at or near Semur in 1006. His mother, who was a Protestant, infused her, notions of religion into him, and he at length converted his father; he fettled at Leyden; and in 1650 paid a vifit to Christina queen of Sweden, who is reported to have shown him extraordinary marks of regard. Upon the violent death of Charles I. of England, he was prevailed on by the royal family, then in exile, to write a defence of that king; which was anfwered by our famous Milton in 1651, in a work intitled Defensio pro Populo Anglicano contra Claudii Salmafii Det nfionem Regiam. This book was read over all Europe; and conveyed fuch a proof of the writer's abilities, that he was respected even by those who hated his principles. Salmafius died in 1653; and fome did not feruple to fay, that Milton killed him by the acutene's of his reply. His works are numerous, and of various kinds; but the greatest monuments of his learning are, his Notæ in Historiæ Augustæ Scriptores, and his Exercitationes Pliniana in Solinum.

SALMO, the SALMON; a genus of fiftes belonging to the order of abdominales. See ICHTHYOLOGY In-

dex.

SALMON. See SALMO, ICHTHYOLOGY Index. SALMON-Fifhery. See Salmon FISHERY.

SALT)N, or SALOON, in architecture, a lofty, fpacious fort of hall, vaulted at top, and usually comprehending two stories, with two ranges of windows.

The faloon is a grand room in the middle of a building, or at the head of a gallery, &c. Its faces, or flucts, are all to have a lymmetry with each other; and as it ufually takes up the height of two flories, its ceiling, Daviler observes, should be with a moderate freep. Salfette.

The faloon is a flate-room much used in the palaces in Italy; and from thence the mode came to us. Ambaffadors, and other great vifitors, are ufually received in the falcon,

It is fometimes built fquare, fometim s round or oval, fometimes octagonal, as at Marly, and fometimes in

other forms.

SALONA, a fea-port town of Dalmatia, feated on a bay of the guif of Venice. It was formerly a very confiderable pine, and its ruins show that it was 10 Forth's miles in circum'erence. It is 18 miles north of Spa-Travels in latte, and subject to Venice. It is now a wretched Daimatia. cient splendor. Doubtless the two last ages have deflroyed all that had escaped the barbarity of the MS. relation of Dalmatia, written by the feuator Giambattilla Guistiniani, about the middle of the 16th century, there is a lint of what existed at the time. " The nobility, grande r, and magnificence of the city of Salong, may be in agined from the vaults and arches of the wonderful theatre, which are feen at this day; from the vail flones of the finest marble, which listened on, and buried in the fields; from the beautiful column place where they fay the arfenal was, towards the feathe arches is a flone-throw, and above them there was an aqueduct, which reached from Salona to Scalatro. There are to be feen many ruins and vefliges of 1 rge palaces, and many ancient epitaphs may be read on fine marble frones; but the earth, which is increased, has buried the most ancient stones, and the most valuable things," E. Long. 17. 29. N. Lat. 24. 10.

SALONICHI, formerly called Too falonica, a feaport town of Turkey in Europe, and capital of Macedonia, with an archbithop's fee. It is ancient, large, populous, and rich, being about 10 miles in circumference. It is a place of great trade, carried on princiwhich have 40 churches, and the latter as many funagogos; the Parks also have a few mosques. It is furyou ded with walls flanked with towers, and defended on the land-fide by a citadel, and near the larbour with three forts. It was taken from the Venetians by the Turks in 1431. The principal merchandize is filk. It is fear I at the bottom of a gulf of the fame name, partly on the top, and partly on the fide of a hill, near the river Vardar. E. Long. 23, 13. N. Lat.

SALSES, a very ftrong caftle of France, in Rouffill a, on the confines of Languedoc. It was taken from the Spaniards by the French in 1642; and is f-ated on a lake of the fame name, among mountains, 10 miles north of Perpignan. E. Long. 3. o. N. Lat.

43.35.

SALSETTE, an island of the East Indies, adjacent to Bembay, from which it is in one place divided only by a parrow pass fordable at low water. It is about 26 miles long, and eight or nine broad. The soil is rich, and by a proper cultivation capable of producing any thing that will grow in tropical climates. It is everywhere well watered, and when in the poffession of the Portuguese furnished such quantities of rice, that it

was called the Granary of Goa. It abounds also in all Salfette kinds of provinces, and has great plenty of game, both of the four-footed and feathered kind. It has pretty high mountains; and there is a tradition that the whole was thrown up f m the bottom of the fea: in confirmation of which it is fall, that on the top of the higheil hill there was found, fome years ago, a flone anchor, fuch as was anciently used by the inhabitants of that country. Here we meet with the ruins of a place called Canara, where there are excavations of rocks, fuppofed to be contemporary with those of ELEPHANTA. They are much more numerous, but not comparable to the former either in extent or workmanship.

The illand of Salfette lately formed part of the Portuguese dominions in India. It ought to have been ceded to the English along with Bombay, as part of the dower of Catharine of Lifbon, espoused to Charles II. The fulfilment of this article, however, being evaded, the island remained in possession of the Portuguese; and notwithstanding the little care they took of it, the revenue of it was valued at 60,000l. Such was the nevery narrow pass fordable at law water. Here they had only a miferable redoubt of no confequence, till, have answered the purpose of protecting the island, prohowever, was not their intention. They allowed them indeed to go on quietly with their works till they faw them almost completed, when they came and took pofferlion of them. The Mahrattes thus became dangerous neighbours to the English at Bombay, until it was ceded to the latter by the treaty concluded with these people in 1780. E. Long. 72. 15. N. Lat. 19. 0.

SALSOLA, GLASS WORT, a genus of plants belonging to the pentandria class; and in the natural method ranking under the 12th order, Holoraceae. See Bo-

TANY Lidex.

All the forts of glass-wort are fometimes promifcuoufly used for making the fel kali, but it is the third fort which is effeemed belt for this purpole. The manner of making it is as follows: Having dug a trench near the fea, they place laths acrols it, on which they lay the herb in heaps, and, having made a fire below, the liquor, which runs out of the herbs, drops to the bottom, which at length thickening, becomes fal kali, which is partly of a black, and partly of an ash-colour, very fliarp and corrofive, and of a faltish tafte. This, when thoroughly hardened, becomes like a stone; and in that state is transported to different countries for making of glass.

SALT, one of the great divisions of natural bodies. The characteristic marks of flit have usually been reckoned its power of affecting the organs of tafte, and of being foluble in water. But this will not ditlinguish falt from quicklime, which also affects the fense of taile, and diff-lives in water; yet qu'el ime has been univerfally reckoned an earth, and not a falt. The only diffinguifhing property of falts, therefore, is their crystallization in water . but this does not belong to all falts ; for the nitrous and marine acids, though allowed on all hands to be fults, are yet incapable of crystallization, at least by any method hitherto known. Several of the imperfect neutral falts also, such as combinations of the nitrous, muriatic, and vegetable acids, with fome kinds of earths, crystallize with very great difficulty. However, by the addition of spirit of wine, or some other fubilances which absorb part of the water, keeping the liquor in a warm place, &c. all of them may be reduced to crystals of one kind or other. Salt, therefore, may be defined a jubstance affecting the organs of taile, foluble in water, and capable of crystallization, either by itself or in conjunction with some other body; and, univerfally, every falt capable of being reduced into a folid form, is also capable of crystallization per fe. Thus the class of faline bodies will be sufficiently diftinguished from all others; for quicklime, though soluble in water, cannot be crystallized without addition either of fixed air or fome other acid; yet it is most commonly found in a folid state. The precious stones, basaltes, &c. though supposed to be formed by crystallization, are nevertheless distinguished from falts by their infipidity and infolubility in water.

But acids and alkalis, and combinations of both, when in a concrete form, are falts, and of the purelf form. Hence we conclude, that the bodies, to which the name of falts more properly belongs, are the concretions of those fubthances; which are accordingly called acid falts, alkaline falts, and neutral falts. These last are combination as to render the compounds neither four nor alkaline to the taste. This proportionate combination is called faturation: thus common kitchen salt is a neutral salt, compeded of muriatic acid and foda combined together to the point of saturation. The appellation of neutral falts is allo extended to denote all those combinations of acids, and any other fubflance with which they can unite, so as to lose, wholly or in great measure, their acid properties.

But although this general definition of falts is commonly received, yet there are many writers, efpecially mineralogits, who confine the denomination of falts in the manner we first mentioned, viz. to those substances only which, besides the general properties of falts, have the power of crystallizing, that is, of arranging their particles so as to form regular shaped bodies, called crystals, when the water supersitious to their concrete existence has been evaporated.

Common SALT, or Sea-Salt, the name of that falt extracted from the waters of the ocean, which is used in greater quantities for preserving provisions, &c.

It is a perfect neutral falt, composed of marine or muriatic acid, faturated with mineral alkali. It has a faline but agreeable flavour. It requires about four times its weight of cold water to be disloved, and nearly the fame quantity of boiling water, according to Macquer. But according to Kirwan, it only requires 2,5 its weight of water to be disloved in the temperature of fixty degrees of Fahrenheit. This falt always contains some part formed with a calcareous base; and, in order to have it pure, it must be dissolved in diffilled

water; then a fellation of mineral alkali is to be poured in it until no white precipitation appears; then by filtrating and evaporating the folution, a pure common falt is produced. Its figure is perfectly cubic, and those holiow pyramids, or tremier as the French call them, as well as the parallelopipeds formed fometimes in its cryttallization, confilt all of a quantity of fmall cubes disposed in those forms. Its deceptitation on the fire, which has been reckoned by some as a characteristic of this falt, although the vitriolated tartar, nitrous lead, and other falts, have the same property, is owing chiefly to the water, and perhaps also to the air of its cryttallifation.

Its fpecific gravity is 2,120 according to Kirwan. The acid of tartar precipitates nothing from it. One hundred parts of common falt contain thirty-three of real acid, fifty of mineral alkali, and feventeen of water. It is commonly found in falt water and falt fprings, in the proportion of even thirty-fix per cent. It is found also in coals, and in beds of gypsum. This falt is un-alterable by fire, though it fuses, and becomes more opake : nevertheless a violent fire, with the free access of air, causes it to evaporate in white flowers, which adhere to the neighbouring bodies. It is only decomposed, as Macquer assirms, by the sulphuric and nitric acids; and also by the boracic or fedative falt. But although nitre is decomposed very easily by arsenic, this neutral marine falt is nowife decomposed by the fame. According to Monge, the fixed vegetable alkali, when caustic, decomposes all this marine salt. It preserves from corruption almost all forts of animal food much better for use than any other falt, as it preserves them without destroying their taste and qualities; but when applied in too fmall a quantity, it then promotes putrefaction.

Of this most useful commodity there are ample stores on land as well as in the ocean. There are few countries which do not afford valt quantities of rock or fosfil falt. Mines (A) of it have long been discovered and wrought in England, Spain, Italy, Germany, Hungary, Poland, and other countries of Europe. In feveral parts of the world, there are huge mountains which wholly confift of fosfil falt. Of this kind are two mountains in Russia, nigh Astracan; several in the kingdoms of Tunis and Algiers, in Africa; and feveral also in Afia; and the whole island of Ormus in the Persian gulf almost entirely consists of fossil falt. The new world is likewife stored with treasures of this useful mineral, as well as with all other kinds of fubterranean productions. Moreover, the fea affords fuch vaft plenty of common falt, that all mankind might thence be supplied with quantities sufficient for their occasions. There are also innumerable fprings, ponds, lakes, and rivers, impregnated with common falt, from which the inhabitants of many countries are plentifully supplied therewith. In fome countries which are remote from the fea, and have little commerce, and which are not bleffed with mines of falt or falt-waters, the necessities of the inhabitants have forced them to invent a method of extrac-

<sup>(</sup>A) Amongú the falt mines of chief note are those of Northwich in Cheshire, Altemonte in Calabria, Halle in Tyrol, Cardona in Catalonia: also those supernotes at Willierzke in Poland, to be noticed in the seguel of this article, and Soowar in Upper Hungary; of which see accounts in Pull Trans No 61, and 445.

ting their common falt from the after of vegetables, The muriatic falt of vegetables was described by Dr Grew under the title of liviviated marine falt. Leeuwenhoek obtained cubical crytlals of this falt from a lixivium of foda or kelp, and also from a solution of the lixivial falt of cardius benedictus; of which he hath given figures in a letter to the Royal Society, publifted in No 175. of their Transactions. Dr Dagner, in Act. Acad. N. C. vol. v. obs. 150. takes notice of great quantities of it which he found mixed in potathes. And the ingenious Dr Fothergill extracted plenty of it from the ashes of fern : See Medical Esjays, vol. v. article 13.

The muriatic falt which the excellent Mr Boyle extracted from fandiver, and supposed to be produced from the materials used in making glass, was doubtless separated from the kelp made use of in that process. Kunckel alfo informs us, that he took an alkaline falt; and after calcining it with a moderate fire, diffolved it in pure water, and placing the folution in a cool cellar, obtained from it many crystals of a neutral salt. He supposes, that the alkaline falt was by the process converted into this neutral falt. But it is more reasonable to believe, that the alkaline falt which he applied was not pure, but mixed with the muriatic falt of vegetables, which by this process was only separated from it.

It is doubtless chiefly this muriatic salt which, in fome of the inland parts of Alia, they extract from the ashes of duck-weed and of Adam's fig-tree, and use for their common falt.

That they are able in those countries to make common falt to profit from vegetables, ought not to be wondered at, fince in Dehli and Agra, capitals of Indostan, falt is fo scarce as usually to be fold for half-a-crown a pound. We may therefore give some credit to Marco Polo, when he informs us, that in the inner parts of the fame quarter of the world, in the province of Caindu, lying west of Tibet, the natives used salt instead of money, it being first made up in cakes, and sealed with the flamp of their prince; and that they made great profit of this money by exchanging it with the neigh-bouring nations for gold and musk. We are also told by Ludolfus, in his Historia Æthiopica, that in the country of the Abysfines there are mountains of falt, the which when dug out is foft, but foon grows hard; and that this falt ferves them instead of money to buy all things. The fame is confirmed by Ramufio.

Mr Boyle discovered common falt in human blood and urine. " I have observed it (says Mr Brownrigg), not only in human urine, but also in that of dogs, horses, and black cattle. It may eafily be discovered in these, and many other liquids impregnated with it, by certain very regular and beautiful Harry figures which appear in their furfaces after congelation. These figures I first observed in the great frost in the year 1739. The dung

der which this falt appears, have thought fit to rank the feveral kinds of it under certain general classes; diflinguithing it, most usually, into rock or fosfil falt, fea-falt, and brine or fountain falt. To which classes, others might be added, of those muriatic falts which are found in vegetable and animal fubstances. These fe-

of fuch animals as feed upon grafs or grain, doth also contain plenty of common falt." Naturalists, observing the great variety of forms un-

veral kinds of common falt often differ from each other Salt. in their outward form and appearance, or in fuch accidental properties as they derive from the heterogeneous fubiliances with which they are mixed. But when perfectly pure, they have all the fame qualities; fo that chemitls, by the exacted inquiries, have not been able to discover any essential difference between them; for which reason we shall distinguish common salt after a different manner, into the three following kinds, viz. into rock or native falt, bay falt, and white falt.

By rock falt, or native falt, is understood all falt dug out of the earth, which bath not undergone any artificial preparation. Under the title of bay jail may be ranked all kinds of common falt extracted from the water wherein it is diffolved, by means of the fun's heat, and the operation of the air; whether the water from which it is extracted be fea-water, or natural brine drawn from wells and fprings, or falt water flagnating in ponds and lakes. Under the title of white falt, or boiled falt, may be included all kinds of common falt extracted by coction from the water wherein it is dissolved; whether this water be sea water, or the salt water of wells, fountains, lakes or rivers; or water of any fort impregnated with rock-falt, or other kinds of

The first of these kinds of salt is in several countries found fo pure, that it ferves for most domestic uses, without any previous preparation (triture excepted); for of all natural falts rock-falt is the most abundantly furnished by nature in various parts of the world, being found in large maffes, occupying great tracts of land. It is generally found in strata under the surface of the earth, as in Hungary, Mulcovy, Siberia, Poland, Calabria, Egypt, Ethiopia, and the East Indies. " In England (fays Magellan), the falt mines at Northwich are in a high ground, and contain it in layers or Ilrata of various colours, of which the yellow and brown are the most plentiful, as I have observed on the spot, which I visited in June 1782, in company with my worthy and learned friend Mr Volta, professor of natural philosophy in the university of Pavia, and well known by his great abilities, and many discoveries in that branch of knowledge. The mine into which we descended was excavated in the form of a valt dome or vault under ground, supported by various columns of the falt, that were purpolely left to support the incumbent weight. And the workmen having lighted a nuniber of candles all round its circumference, it furnished us with the most agreeable and surprising sight, whilst we were descending in the large tab, which serves to bring up the lumps that are broken from the mine," &c.

Wraxall gives the following description of the famous falt mines near Cracow in Poland.

" After being let down (fays he) by a rope to the Memoirs depth of 230 feet, our conductors led us through galle- of the ries, which, for loftiness and breadth, seemed rather to re-Courts of ries, which, for lottiness and breadth, teemed rather to te-femble the avenues to fome subterraneous palace, than paf-Dresden, fages cut in a mine. They were perfectly dry in every Parfe part, and terminated in two chapels composed entirely and Figures of falt, hewn out of the folid mass. The images which adorn the altars, as well as the pillers and our ments, were all of the same transparent materials; the paids and fears of which, reflecting the rays of light from the lamps which the guides held in their hands, produced an effect equally novel and beautiful. Descending lower into the earth by means of ladders. I found myself in an immense hall or cavern of falt, many hundred feet in height, length, and dimensions, the sloor and sides of which were cut with exact regularity. A thousand persons might dine in it without inconvenience, and the eye in vain attempted to trace or define its limits, Nothing could be more sublime than this vast subterranean apartment, illuminated by flambeaux, which faintly difcover its prodigious magnitude, and leave the imagination at liberty to enlarge it indefinitely. After remaining about two hours and a half under ground, I was drawn up again in three minutes with the greatest facility."

See also an account of the same mines by Mr Berniard, Journal de Physique, vol. xvi. for 1780, in which the miraculous tales concerning those subterraneous habitations, villages, and towns, are reduced to their pro-

per magnitude and estimate.

The English fosfil falt is unfit for the uses of the kitchen, until by folution and coction it is freed from feveral impurities, and reduced into white falt. The British white falt also is not fo proper as several kinds of bay falt for curing fifth and such flesh-meats as are intended for sea provisions, or for exportation into hot countries, So that for these purposes we are obliged, either wholly or in part, to use bay falt, which we purchase in France,

Spain, and other foreign countries.

However, it does not appear that there is any other thing requisite in the formation of bay falt than to evaporate the fea-water with an exceedingly gentle heat; and it is even very probable, that our common fea-falt by a fecond folution and crystallization might attain the requifite degree of purity. Without entering into any particular detail of the processes used for the preparation of bay-falt in different parts of the world, we shall content curfelves with giving a brief account of the best methods of preparing commen falt.

At some convenient place near the sea-shore is erected the faltern. This is a long, low building, confifting of two parts; one of which is called the fore-house, Brown and the other the pan-house, or loiling house. The forehouse serves to receive the suel, and cover the workying Salt. men; and in the boiling-house are placed the furnace, and pan in which the falt is made. Sometimes they have two pans, one at each end of the faltern; and the part appropriated for the fuel and workmen is in the

The furnace opens into the fore-house by two mouths, beneath each of which is a mouth to the ash pits. To the mouths of the furnace doors are fitted; and over them a wall is carried up to the roof, which divides the fore-house from the boiling-house, and prevents the dust of the coal and the aftes and smoke of the surnace from falling into the falt pan. The fore-house communicates with the boiling-house by a door, placed in the wall which divides them.

The body of the furnace confifts of two chambers, divided from each other by a brick partition called the mid feather; which from a broad base terminates in a narrow edge nigh the top of the furnace; and by means of flort pillars of cast iron crected upon it, supports the bottom of the falt pan; it also fills up a confiderable part of the furnace, which otherwife would be too large, and would confume more coals than, by the help of this contrivance, are required. To each chamber of the

furnace is fitted a grate, through which the affect fall Sale into the afh-pits. I he grates are made of long bars of iron, supported underneath by ftrong cross bars of the fame metal. They are not continued to the farthest part of the furnace, it being unnecessary to throw in the fuel fo far : for the flame is driven from the fire on the grate to the farthest part of the furnace; and from thence passes together with the smoke, through two flucs into the chimney; and thus the bottom of the falt pan is everywhere equally heated.

The falt pans are made of an oblong form, flat at the bottom, with the fides erected at right angles; the length of fome of these pans is 15 feet, in breadth 12 feet, and the depth 16 inches; but at different works they are of different dimensions. They are commonly made of plates of iron, joined together with nails, and the joints are filled with a ftrong cement. Within the pan five or fix firong beams of iron are fixed to its opposite sides, at equal diffances, parallel to each other and to the bottom of the pan, from which they are difrant about eight inches. From these beams hang down firong iron hooks, which are linked to other hooks or clasps of iron firmly nailed to the bottom of the pan; and thus the bottom of the pan is supported, and prevented from bending down or changing its figure. The plates most commonly used are of malleable iron, about four feet and a half long, a foot broad, and the third of an inch in thickness. The Scots prefer smaller plates, 14 or 15 inches square. Several make the fides of the pan, where they are not exposed to the fire, of lead ; those parts, when made of iron, being found to containe fall in rull from the fream of the pan. Some have used plates of cast iron, five or fix feet square, and an inchin thickness; but they are very subject to break when unequally heated, and shaken (as they frequently are) by the violent boiling of the liquor. The coment most commonly used to fill the joints is platter made of lime.

The pan, thus formed, is placed over the furnace, being supported at the four corners by brick work's but along the middle, and at the fides and ends, by round pillars of cast iron called taplins, which are placed at three feet distance from each other, being about eight inches high, and at the top, where finalleft, four inches in diameter. By means of these pillars the heat of the fire penetrates equally to all parts of the bottom of the pan, its four corners only excepted. Care is also taken to prevent the smoke of the furnace from passing into the boiling-house, by bricks and strong cement, which are closely applied to every part of the falt pan. In some places, as at Blyth in Northumberland, befides the common falt pans here described, they have a preparing pan placed between two falt pans, in the middle part of the building, which in other works is the fore house. The sea-water being received into this preparing pan, is there heated and in port evaporated by the flame and heat conveyed under it through flues from the two furnaces of the falt pans; And the Let water, as occasion requires, is conveyed through troughs from the preparing pan into the falt pans, Various other contrivances have been invented to leffen the expence of fuel, and feveral patents have been obtained for that purpose; but the falt-boilers have found their old methods the malt consenient.

Between the fides of the pan and walls of the boil-

an the Art of PrepaSalt. ino house, there runs a walk five or fix feet broad, where the workmen fland when they draw the falt, or have any other buliness in the boiling-house. The fame walk is continued at the end of the pan, next to the chimney; but the pan is placed close to the wall at the end adjoining to the fore-house.

The roof of the boiling-house is covered with boards fastened on with nails of wood, iron nails quickly mouldering into rust. In the roof are feveral openings, to convey off the watery vapours; and on each fide of it a window or two, which the workmen open when they

look into the pan whilst it is boiling.

Not far dittant from the faltern, on the fea-shore, between full fea and low water marks, they also make a little pond in the rocks, or with stones on the fand, which they call their fump. From this pond they lay a pipe, through which, when the tide is in, the feawater runs into a well adjoining to the faltern; and from this well they pump it into troughs, by which it is conveyed into their thip or eitern, where it is flored up until they have eccasion to use it.

The ciftern is built close to the saltern, and may be placed most conveniently between the two boilinghouses, on the back side of the fore-house; it is made either of wood, or brick and clay; it femetimes wants a cover, but ought to be covered with a shed, that the falt water contained therein may not be weakened by rains, nor mixed with foot and other impurities. It should be placed so high, that the water may conveniently run out of it, through a trough, into the falt

Besides the buildings already mentioned, several others are required; as store houses for the falt, eisterns for the bittern, an office for his majefty's falt-officers,

and a dwelling-house for the falt-boilers.

All things being thus prepared, and the fen-water having flood in the ciftern till the mud and fand are fettled to the bottem, it is drawn off into the falt pan. And at the four corners of the falt pan, where the flame does not touch its bottom, are placed four small lead pans, called fcratch pans, which, for a falt pan of the fize above-mentioned, are usually about a foot and a half long, a foot broad, and three inches deep; and have a bow or circular handle of iron, by which they may be drawn out with a hook, when the liquor in the pan is boiling.

The falt pan being filled with fea-water, a firong fire of pit-coal is lighted in the furnace; and then, for a pan which contains about 400 gallons, the falt-boiler takes the whites of three eggs, and incorporates them well with two or three gallons of fea-water, which he pours into the falt pan while the water contained therein is only lukewarm; and immediately ffirs it about with a rake, that the whites of eggs may everywhere be equal-

ly mixed with the falt water.

Instead of whites of eggs, at many salterns, as at most of those nigh Newcastle, they use blood from the butchers, either of sheep or black cattle, to clarify the seawater: And at many of the Scots falterns they do not give themselves the trouble of clarifying it.

As the water grows hot, the whites of eggs feparate from it a black frothy feum, which arises to the surface of the water, and covers it all over. As foon as the pan begins to boil, this four is all rifen, and it is then time

to fkim it off.

The most convenient instruments for this purpose are 94" fkimmers of thin ath boards, fix or eight it caus broad, and fo long that they may reach above half way over the falt pan. Their fkimmers have handles fitted to them; and the falt-boiler and his affit ant, each noteing one of them on the opposite fides of the pan, apply them fo to each other that they overlap in the middle, and beginning at one end of the pan, carry them gently forward together, along the jurface of the boiling liquor, to the other end; and thus, without breaking the tourn, collect it all to one end of the pan, from whence they eafily take it out.

After the water is skimmed, it appears perfectly clear and transparent; and they continue boiling it brikle, till fo much of the fresh or aqueous part is evaporated that what remains in the pan is a strong brine aimost fully faturated with falt, to that small faline crystals begin to form on its furface; which operation, in a pan filled 15 inches deep with water, is usually performed

in five hours.

The pan is then filled up a fecond time with clear fea-water drawn from the cittern; and about the time when it is half filled, the fcratch-pans are taken out, and being emptied of the scratch found in them, are again placed in the corners of the falt pan. The feratch taken out of these pans is a fine white caleareous earth found in the form of powder, which separates from the sea-water during its coction, before the falt begins to form into grains. This fubtile powder is violently agitated by the boiling liquor, until it is driven to the corners of the pan, where the motion of the liquor being more gentle, it subsides into the scratch pans placed there to receive it, and in them it remains undiffurbed, and thus the greatest part of it is separated from the

After the pan hath again been filled up with fea-water, three whites of eggs are mixed with the liquor, by which it is clarified a second time, in the manner before described; and it is afterwards boiled down to a strong brine as at first; which fecond boiling may take up about four bours.

The pan is then filled up a third time with clear feawater; and after that, a fourth time; the liquor being each time clarified and boiled down to a firong brine, as before related; and the foratch-pans being taken out and emptied every time that the pan is filled up.

Then, at the fourth boiling, as foon as the crystals begin to form on the furface of the brine, they flacken the fire, and only fuffer the brine to fimmer, or boil very gently. In this heat they constantly cudeavour to keep it all the time that the falt corns or granulates, which may be nine or ten hours. The falt is faid to granulate, when its minute crystals cohere together into little maffes or grains, which fink down in the brine and lie at the bottom of the falt pan.

When most of the liquor is evaporated, and the falt thus lies in the pan almost dry on its furface, it is then time to draw it out. This part of the process is performed by raking the falt to one fide of the pan into a long heap, where it drains a while from the brine, and is then filled out into barrows or other proper veffels, and carried into the flore house, and delivered into the custody of his majesty's officers. And in this manner the whole process is performed in 24 hours; the falt being usually drawn every morning.

In the flore house the falt is put hot into drabs, which are partitions like stalls for hories, lined on three sides and at the bostom with boards, and having a sliding-board on the fore-side to put in or draw out as occasion requires. The bottoms are made shelving, being high-eit at the back side, and gradually inclining forwards; by which means the faline liquor, which remains mixed with the salt, easily drains from it; and the falt, in three or four days, becomes sufficiently dry; and is then taken out of the drabs, and laid up in large heaps, where it is ready for fale.

The faline liquor which drains from the falt is not a pure brine of common falt, but hath a fharp and bitter tafte, and is therefore called bittern; this liquor, at fome works, they fave for particular ufes, at others throw away. A confiderable quantity of this bittern is left at the bottom of the pan after the process is finished; which, as it contains much falt, they faffer to remain in the pan, when it is filled up with fea-water. But at each process this liquor becomes more sharp and bitter, and also increases in quantity: fo that, after the third or fourth process is finished, they are obliged to take it out of the pan; otherwise it mixes in such quantities with the falt, as to give it a bitter tafte, and disposes it to grow soft and run in the open air, and renders it unfit for dometic uses.

After each process there also adheres to the bottom and sides of the pan, a white stony cruft, of the same calcareous sublance with that before collected from the boiling liquot. This the operators call flone-foratch, diffinguishing the other found in the lead-pans by the name of powder feratch. Once in eight or ten days they separate the stone-foratch from their pans with iron picks, and in several places find it a quarter of an inch in thickness. If this stony cruft is suffered to adhere to the pan much longer, it grows so thick that the pan is burnt by the fire, and quickly wears away.

In M, de Pagés's Travels round the World, we find the following important fact, "I had been anxious" (fays that author) to afcertain by comparison, whether fea-water contains falt in greater quantity under the torrid than under the other zones; and my experiments on this fubiect ferved to flow, contrary to what I expected, that fea-water is impregnated with falt in lefs quantity within than without the tropics." These experiments were made on a hundred pounds of fea-water, taken at the depth of ten fathoms, and weighed in water-scales. M. de Pagés has given a table of these experiments, from which it appears that 100 lb. of fea-water in 46° 12" S. lat. gave 41 lb. of falt, and in 1° 16" only 31 lb.; and that in 74 N. lat. it gave 43 lb. and in 40 22' only 32 lb. thefe being the highest and lowest latitudes in which the experiments were made, and also the greatest and least quantities of falt.

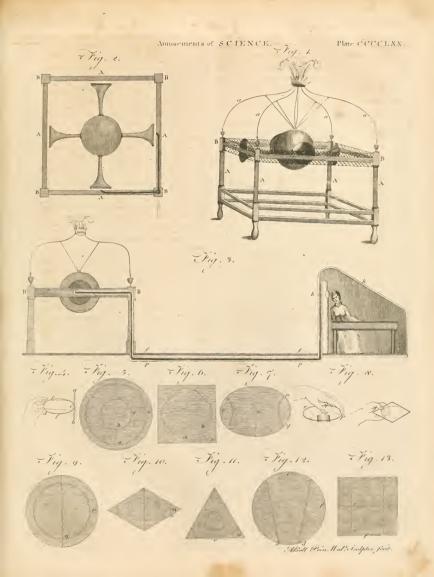
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D'uty on SALT, is a diffined branch of his majefly's extraordinary revenue, and conflits in an excise of 3s, 4d. per buftel imposed upon all falt, by feveral flatutes of King William and other subsequent reigns. This is not generally called an excise, because under the management of different commissioners: but the commissioners of the falt-duties have, by statute 1 Ann, c. 21. the same powers, and must observe the same regulations, as those of other excises. This tax had usually been only temporary; but by statute 26 Geo. If. c. 3, was made

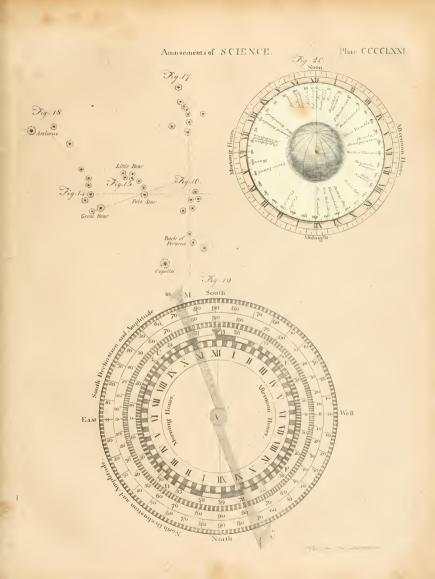
nernetual

SALTS, effects of in producing great degrees of cold. In the account of the remarkable effects of frigorific mixtures, in which faline bodies act to important a part, given in our article CHEMISTRY, fome errors had crept in. Thefe errors through the liberal attention of Mr Walker of Oxford, whole refearches on this fubject have been carried farther than any other chemit, we are enabled to correct by laying before our readers the following tables, most obligingly communicated to us by that gentleman.

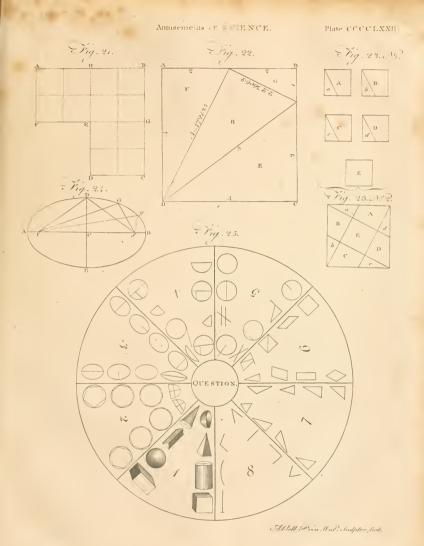
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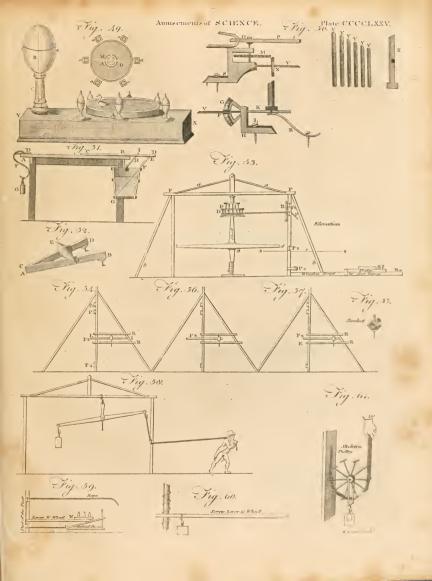




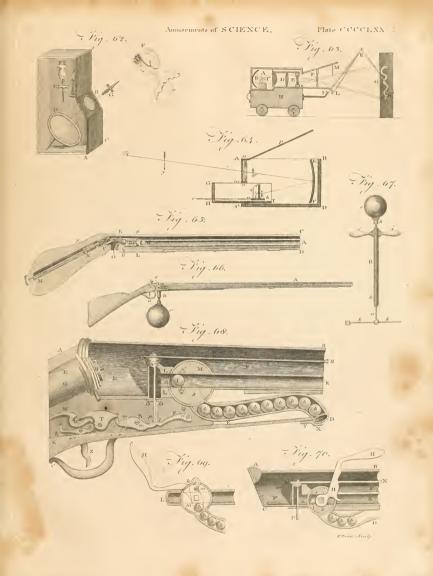














Salt.

TABLES, exhibiting a collective View of all the Frigorific Mixtures contained in Mr Walker's Publication, 1808.

TABLE I .- This Table conflits of Frigorific Mixtures, having the power of generating or creating cold, without the aid of ice, fullicient for all ufeful and philosophical purposes, in any part of the world, at any season.

Frigorific Mixtures, without ice.

Mixtures.	Thermometer finks.	Degr. of cold produced.			
Muriate of ammonia 5 Nitrate of potash 5 Water 16	From +50° to +10°.	40			
Muriate of ammonia 5 Nitrate of potash 5 Sulphate of soda 8 Water 16	From +50° to +4°.	46			
Nitrate of ammonia I Water I	Part From +50° to +4°.	46			
Nitrate of ammonia I Carbonate of foda I Water I	From +50° to -7°.	57			
Sulphate of foda 3 Diluted nitric acid 2	From +50° to -3°.	53			
Sulphate of foda 6 Muriate of ammonia 4 Nitrate of potash 2 Diluted nitric acid 4	From +50° to -10°.	- 60			
Sulphate of foda 6 Nitrate of ammonia 5 Diluted nitric acid 4	From +50° to -14°.	64			
Phosphate of soda 9 Diluted nitric acid 4	From +50° to -12°.	62			
Phofphate of foda 9 Nitrate of ammonia 6 Diluted nitric acid 4	From +50° to -21°.	71			
Sulphate of foda 8 Muriatic acid 5	From +50° to 0°.	50			
Sulphate of foda 5 Diluted fulphuric acid 4	From +50° to +3°.	47			

N. B. If the materials are mixed at a *warmer* temperature, than that expressed in the table, the effect will be proportionably greater; thus, if the most powerful of these mixtures be made, when the air is  $+8_3^{\circ}$ , it will fink the thermometer to  $+2^{\circ}$ .

Sais

Frigorific Mixtures, with Ice.

Mixtures.	Thermometer finks.	Degr. of coid produ ed.
Snow, or pounded ice 2 parts Muriate of foda 1	to -50°	*
Snow, or pounded ice 5 parts Muriate of foda 2. Muriate of ammonia 1	to —12°	*
Snow, or pounded ice 24 parts Muriate of foda 10 Muriate of ammonia 5 Nitrate of potash 5	From any Temperature to -18.0	*
Snow, or pounded ice 12 parts Muriate of foda 5 Nitrate of ammonia 5	to -25°	*
Snow - 3 parts Diluted fulphuric acid 2	From +32° to -23°	55
Snow 8 parts Muriatic acid 5 parts	From +32° to -27°	59
Snow - 7 parts Diluted nitrid acid 4	From +32° to -30°	62
Snow 4 parts Muriate of lime 5	From +32° to -40°	72
Snow - 2 parts Chryst. muriate of lime 3	From +32° to -50°	82
Snow 3 parts Potash 4	From +32° to -51°	83

N. B. The reason for the omissions in the last column of this table, is, the thermometer sinking in these mixtures to the degree mentioned in the preceding column, and never source, whatever may be the temperature of the materials at mixing.

TABLE III.

Salt

TABLE III .- This Table confiles of Frigorific Mixtures felected from the foregoing tables, and cambined, to as to Saling. increase or extend cold to the extremest degrees.

## Combinations of Frigorific Mixtures.

Mixtures.		Thermometer finks.	Degr. of cold produced.	
Phosphate of soda Nitrate of ammonia Diluted nitric acid	5 parts 3 4	From 0° to —34°	34	
Phosphate of ioda Nitrate of ammonia Diluted mixed acids	3 parts 2 4	From -34° to -50°	16	
Snow Diluted nitric acid	3 parts	From 0° to -46°	46	
Snow Diluted fulphuric acid Diluted nitric acid	8 parts 3 }	From —10° to —56°	46	
Snow Diluted fulphuric acid	1 part	From —20° ta —60°	40	
Snow Muriate of lime	3 parts	From +20° to -48°	68	
Snow Muriate of lime	3 parts 4	From +10° to -54°	64	
Snow Muriate of lime	2 parts	From —15° to —68°	53	
Snow Chryst, muriate of lime.	t part	From c° to66°	66	
Snow Chryst, muriate of lime	1 part 3 parts	From —40° to —73°	33	
Snow Dilated fulphuric acid	8 parts	From —68° to —91	23	

N. B. The materials in the first column are to be cooled, previously to mixing, to the temperature required, by mixtures taken from either of the preceding tables.

Triple SALTS, a kind of falts formed by the union of three ingredients; the common neutrals being compofed only of two, as for instance, common alum, which is composed of fulphuric acid, alumina, and potash.

SALT-Mines. See SALT. Rock SALT. See SALT.

SALT-Water, or Sea water, Diffillation of . See SEA-Il ater.

Neutral SALTS. See CHEMISTRY, paffim.

SALT-Springs. Of these there are great numbers in different parts of the world, which undoubtedly have their origin from some of the large collections of follil falt mentioned under the article Common SALT. See that article, and likewife SPRING.

SALTIER, one of the honourable ordinaries .- See

This, favs G. Leigh, in his Accedence of Arms, p.

75. was anciently made of the height of a man, and driven full of pins, the use of which was to scale walls, &cc. Upten fays it was an infirument to catch wild beafts, whence he derives this word from faltus, i. e. a forest." The French call this ordinary fautoir, from fauter " to leap;" because it may have been used by foldiers to leap over walls of towns, which in former times were but low; but fome modern authors think it is borne in imitation of St Andrew's cross.

SALTING MEAT FOR THE USE OF THE NAVY. The following is the method recommended by the late

Salting, Admiral Sir Charles Knowles. When the ox is killed. Saltpetre. let it be fkinned and cut up into pieces fit for use as quick as possible, and salted while the meat is hot. For which purpose we must have a sufficient quantity of faltpetre and bay-falt pounded together and made hot in an oven, of each equal parts; with this fprinkle the meat at the rate of about two ounces to the pound; then lay the pieces on shelving boards to drain for 24 hours; which done, turn them and repeat the fame operation, and let them lie for 24 hours longer. By this time the falt will be all melted, and have penetrated the meat, and the pieces be drained off; each piece must then be wiped dry with clean coarfe cloths. A fufficient quantity of common falt must then he made hot likewife in an oven, and mixed when taken out with about one third of brown fugar; then the casks being ready, rub each piece well with this mixture, and pack them well down, allowing about half a pound of the falt and fugar to each pound of meat, and it will keep good fe-

It is best to proportion the casks to the quantity used at one time, as the less it is exposed to the air the better. The same process does for pork, only a larger quantity of falt and less sugar must be used; but the preservation of both depends equally upon the meat being hot

when first falted.

One pound of beef requires two ounces of faltpetre and two ounces of bay-falt, because it is to be sprinkled twice; an ounce of each to a pound of beef both times. The faltpetre requisite for 100 lb. of beef is 121lb. which at 12d. per lb. is 12s. 6d.; and the fame quantity of bay-falt (for 100 lb. of beef), at three half-pence per lb. is 1s. 6d.; of brown fugar and common falt mixed together half a pound is required, the former in the proportion of one third, the latter of two-thirds, to a pound of beef. The frown fugar at 8d. per pound. A hundred pounds of beef will take 250 ounces of it, which costs 10s. 5d. The quantity of common falt requisite for 100lb. of beef is 533 ounces, which at 2d. per lb. amounts to 58. 6d. The expense therefore will fland thus.

Saltpetre, 127 lb. for 100 lb. of beef,	is	L.	0	12	6
Bay-falt, 12 b. for do. is -	-		0	I	6
Brown fugar, 250 oz. for do. is	-		C	CI	5
Beef, 100 lb. at 6d. per pound, is	-		2	CI	C
Three casks for it at 1s. 6d. each,	-		0	4	6
Labour, and heating the oven twice,			0	4	C
Common falt, 533 oz. for do. is	-		0	5	6
				-	

These articles are taken high; and if beef costs 6d. per pound, meat cured thus will cost less than is. per pound; and therefore comes much cheaper than live-stock

in long fea vovages.

SALTPETRE, or NITRE, (nitrate of potafb), a compound of nitric acid and potash. See POTASH, CHEVISTRY Index. The importance of this salt in various manufactures renders every information relative to its production valuable. The following method has been long practifed by the farmers of Appenzell in Switzerland. In fo hilly a country, most houses and stables are built on flopes, one fide of the edifice resting on the hill, and the other being supported by two flong posts, elevated two or three feet above the

ground; fo th t the air has a free current under the Saltpete. building. Immediately under the stable a pit is dug. usually occupying both in breadth and length the whole fpace of ground covered by the building; and instead of the clavey earth which is dug out, the pit is filled up with fandy foil. This is the whole process, and all the rest is done by nature. The animal water, which is continually oozing through the planks of the floor, having drenched the earth contained in the pit for the space of two or three years, the latter is emptied, and the faltpetre is refined and prepared in the usual

That manner, however, is not the best; and the French chemists, during the incessant wars occasioned by the revolution, have, for the fake of fupplying their armies with gunpowder, turned their attention to the best method of refining faltpetre. The following are directions given for this purpole by Chaptal, Champy,

and Boniour.

The crude faltpetre is to be beaten small with mallets, in order that the water may more easily attack every part of the mass. The saltpetre is then to be put into tubs, five or six hundred pounds in each tub. I wenty per cent. of water is to be poured into each tub, and the mixture well flirred. It must be left to macerate or digest until the specific gravity of the fluid ceases to augment. Six or seven hours are sufficient for this first operation, and the water acquires the density of between 25 and 35 degrees. (Sp. gr. 1.21, and 1.306, afcertained by Baume's hydrometer.

The first water must then be poured off, and a second portion of water must be poured on the same saltpetre amounting to 10 per cent.; after which the mixture must be stirred up, suffered to macerate for one hour,

and the fluid drawn or poured off.

Five per cent, of water must then be poured on the faltpetre; and after fairing the whole, the fluid must be immediately drawn off.

When the water is drained from the faltpetre, the falt must be thrown into a boiler containing 50 per cent. of boiling water. When the folution is made, it will mark between 66 and 68 degrees of the hydrometer.

(Sp. gr. 1.848, and 1.898.)

The folution is to be poured into a proper veffel, where it deposits by cooling about two-thirds of the faltpetre originally taken. The precipitation begins in about half an hour, and terminates in between four aud fix hours. But as it is of importance to obtain the faltpetre in fmall needles, because in this form it is more eafily dried, it is necessary to agitate the fluid during the whole time of the crystallization. A slight motion is communicated to this liquid mass by a kind of rake; in confequence of which the crystals are deposited in very flender needles.

In proportion as the crystals fall down, they are scraped to the borders of the veffel, whence they are taken with a fkimmer, and thrown to drain in bafkets placed on treffels, in such a manner that the water which passes through may either fall into the crystallizing vessel, or

be received in basons underneath.

The faltpetre is afterwards put into wooden veffels in the form of a mill-hopper or inverted pyramid with a double bottom. The upper bottom is placed two inches above the lower on wooden ledges, and has many fmall perforations through which water may pals to

Saltuetre. the lower bottom, which likewise affords a paffage by

one fingle aperture. A refervoir is placed beneath. The crystallized saltpetre is washed in these vessels with 5 per cent. of water; which water is afterwards employed in the folution of faltpetre in subsequent opera-

The faltpetre, after fufficient draining, and being dried by exposure to the air upon tables for several hours, may then be employed in the manufacture of

gunpowder. But when it is required to use the saltpetre in the freedy and immediate manufacture of gunpowder, it must be dried much more strongly. This may be effested in a stove, or more simply by heating it in a flat metallic vessel. For this purpose the saltpetre is to be put into the vessel to the depth of five or fix inches. and heated to 40 or 50 degrees of the thermometer (or about 1350 of Fahrenheit). The faltpetre is to be flirred for two or three hours, and dried fo much that, when ftrongly preffed in the hand, it thall acquire no confiftence, nor adhere together, but refemble a very fine dry fand. This degree of dryness is not required when the powder is made by pounding.

From these circumstances, we find that two faline liquids remain after the operation; (1) the water from the washing; and (2) that from the crystallizing vef-

We have already remarked, that the washing of the faltpetre is performed in three fuccessive operations, in which, upon the whole, the quantity of fluid made use of amounts to 35 per cent. of the weight of the crude faltpetre. These washings are established on the principle, that cold water diffolyes the muriates of fody, and the earthy nitrates and muriates, together with the colouring principle, but fearcely attacks the nitrate of

The water of these three washings therefore contains the muriate of foda, the earthy falts, the colouring principle, and a small quantity of nitrate of potash; the amount of which is in proportion to that of the muriate of foda, which determines its folution. The water of the cryfallizing veffels contains a portion of the muriates of foda, and of the earthy falts which escaped the operation of washing, and a quantity of nitrate of potash, which is more confiderable than that of the former folution. The waters made use of at the end of the operation, to whiten and wash the crystals deposited in the pyramidal veffel, contain nothing but a fmall quantity of citrate of potash. These waters are therefore very different in their nature. The water of the washings is really a mo-ther water. It must be collected in vessels, and treated with potash by the known processes. It must be evalorated to 66 degrees (or 1,848 fp. gr.), taking out the muriate of foda as it falls. This folution is to be faturated with 2 or 3 per cent. of potash, then suffered to settle, decanted, and poured into crystallizing vel's, where 20 per cent. of water is to be added to keep the whole of the muriate of foda suspended.

The waters which are thus obtained by treatment of the mother water may be mixed with the water of the first crystallization. From these the marine salt may be separated by simple evoperation; and the nitrate of potash, which they hold in solution, may be afterwards obtained by cooling. The small quantity of water meale use of to wash and whiten the refined salt et e,

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contains nothing but the nitrate of potash : it may there- Saltpetre, fore be used in the folution of the saltspetre when taken Saltsbur from the tubs.

From this description it follows, that a manufactory for the speedy refining of saltpetre ought to be provided with mallets or rammers for pounding the faltpetre; tubs for washing; a boiler for folution; a cryfiallizing veffel of copper or lead, in which the faltpetre is to be obtained by cooling; balkets for draining the faltpetre; scales and weights for weighing; hydrometers and thermometers, to ascertain densities and temperatures; rakes to agitate the liquor in the crystallizing vessel; skimmers to take out the crystals, and convey them to the baskets; syphons or hand-pumps to empty the boilers. The number and dimensions of these several articles must vary according to the quanti-

ty of faltpetre intended to be refined.

SALTSBURG, an archbishopric of Germany, in the circle of Bavaria, bounded on the east by Stiria and the Upper Austria, on the west by the county of Tyrol, on the north by the duchy of Bavaria, and on the fouth by the duchy of Carinthia and the bithopric of Brixen. It is faid to be about 100 miles from east to west, and upwards of 60 from north to fouth. With respect to the foil, it is very mountainous, yielding, however, excellent pasturage, and, in consequence of that, abounding in cattle, and horses remarkable for their mettle and hardine's. This country is particularly noted for the great quantities of falt it produces, and its ftrong paffes and castles. Here are also considerable mines of silver, copper, lead, iron, and lapis calaminaris, with quarries of marble, and a natural hot-bath. The principal rivers are the Salza, the Inn, the Eng. are well flored with fish. The peasants here are all allowed the use of arms, and trained to military duty. There are no nobles in the country, and most of the lands belong to the elergy. The states confist of the prelates, the cities, and towns. Notwithstanding this country is under the power of a Popith ecclefiaftic, and the violent, arbitrary, and oppreffive manner in which the Protestants have always been treated, great numbers of them fill remained in it till the year 1732, when no less that 30,000 of them withdrew from it, dispersing themselves in the several Protestant states of Europe, and some of them were even sent from Great Britain to the American colonies. Besides brass and sicel wares, and all forts of arms and artillery, there are manufactures of coarse cloth and linen here. The archbithop has many and great prerogatives: he is a prince of the empire, and perpetual legate of the holy fee in Germany, of which he is also primate. He has the first voice in the diet of this circle, and next to the electors in he a d the archduke of Auftria prefide by turns. No appeal lies from him either in civil or ecclefiattical causes, but to the pope alone; and he is entitled to wear the labit of a cardinal. He has also the nomination to ! fuffrig to tre t e bithops of Freylingen, Batirbon, Brixen, Cark, Chiemfee, Seckan, and Lavint; and of thefe, the four last are no inated, and even confirmed Ly hit; and ret by the pepe. At the lit of the em-

Saltiburg pire, his envey takes place of all the princes that are present, under the degree of an elector. His revenue is faid to amount to near 200,000l. a-year, a great part of it arifing from the falt-works. He is able to raife 25,000 men; but keeps in constant pay, besides his guards, only one regiment, confifting of 1000 men. His court is very magnificent; and he has his hereditary great officers, and high colleges. The chapter confifts of 24 canons, who must be all noble, but are obliged only to four months refidence. At his accession to the fee, the archbithop must pay 100,000 crowns to Rome for the pall. There is an order of knighthood here, instituted in 1711, in honour of St Rupert, who was the first bishop of Saltsburg, about the beginning of

the 8th century. SALTSBURG, the capital of a German archbishoprie of the fame name, and which takes its own from the river Salza, on which it stands, and over which it has a bridge. It is a very handsome place, well fortified, and the refidence of the archbishop. The houses are high. and all built of flone : the roofs are in the Italian taite. and you may walk upon them. The caffle here is very strong, and as strongly garrisoned, and well provided with provisions and warlike stores. The archbishop's palace is magnificent; and in the area before it is a fountain, effeemed the largest and grandest in Germany. The stables are very losty; and the number of the horses usually kept by the archbishop is faid to be upwards of 200. The city, of which one part stands on a fleep rock, is well built, but the flrcets are narrow and badly paved. Belides the above mentioned, there are two other flately palaces belonging to the archbishop, one of which is called the Nuebau, and the other Mirabella. The latter of these has a very beautiful garden; and the number of trees in the orangery is fo great, that Mr Keysler tells us, 20,000 oranges have been gathered from them in one year. The river Salza runs close by the walls of this garden. There are a great many other fine structures in the city, public and private, fuch as palaces, monasteries, hospitals, and churches. In the cathedral dedicated to St Rupert (the apofile of Bavaria, and a Scotchman by birth), all the alters are of marble of different kinds, and one of the organs has above 3200 pipes. The whole structure is extremely handsome. It is built of freestone in imitation of St Peter's at Rome. The portico is of marble, and the whole is covered with copper. Before the portico there is a large quadrangular place, with arches and galleries, in which is the prince's refidence; and in the middle of this place there is a flatue of the Virgin in bronze · it is a fine piece of art, but of an unnatural fize. There are large areas encompassed with hands me buildings on both fides of the church. In the middle of that which is to the left, there is a most magnificent fountain of marble, and fome valuable figures of gigantic fize. There is likewife a fountain in that to the right, but it is not to be compared with the former one, and the Neptune of it makes but a very figure. This town contains many more excelled in . ings and flowes, which remind one that the was founded in 1629, and committed to the cole | the Benedictines. Besides it, there are two co , in which the young noblemen are educated. E. Long. 33. Salvadora

o. N. Lat. 47. 45.
SALVADORA, a genus of plants belonging to the Salutation. tetrandria class; and in the natural method ranking with those of which the order is doubtful. See BOTANY

SALVAGE-MONEY, a reward allowed by the civil and statute law for the saving of ships or goods from the danger of the fea, pirates, or enemies .- Where any thip is in danger of being firanded, or driven on shore, justices of the peace are to command the constables to affemble as many perfons as are necessary to preserve it; and, on its being preserved by their means, the persons affisting therein shall, in 30 days after, be paid a reasonable reward for their falvage; otherwise the ship or goods shall remain in the custody of the officers of the customs

as a fecurity for the same. SALVÁTION, means the fafety or prefervation of any thing which is or has been in danger, and is generally used in a religious sense, when it means preservation from eternal death, or reception to the happiness of heaven, which is now offered to all men by the Christian religion upon certain conditions. The Hebrews but rarely make use of concrete terms as they are called. but often of abstracted. Thus, instead of saving that God faves them and protects them, they fay that God is their falvation. Thus the word of falvation, the joy of falvation, the rock of falvation, the shield of falvation, the horn of falvation, &c. is as much as to fav. The word that declares deliverance; the joy that attends the escaping a great danger, a rock where any one takes refuge, and where he may be in fafety from his enemy; a buckler, that fecures him from the arm of the enemy; a horn or ray of light, of happiness and falvation, &c. Sce THEOLOGY, &c.

SALVATOR ROSA. See ROSA.

SALVE REGINA, among the Romanists, the name of a Latin prayer, addressed to the Virgin, and sung after complines, as also upon the point of executing a criminal. Durandus fays, it was composed by Peter bishop of Composella. The custom of singing the falve regina at the close of the office was begun by order of St Dominic, and first in the congregation of Dominicans at Bologna, about 1237. Gregory IX. first appointed it to be general. St Bernard added the conclusion, O dulcis! O pia, &c.

SALVIA, SAGE, a genus of plants belonging to the digynia class; and in the natural method ranking under the 42d order, Verticillata. See BOTANY Inde

SALVIANUS, an ancient father of the Christian church, who flourished in the 5th century, and was well skilled in the sciences. It is said he lived in continence with his wife Palladia, as if the had been his fifter; and that he was so afflicted at the wickedness of that age, that he was called the Jeremiah of the fifth century. He acquired such reputation for his piety and learning, that he was named the master of the bishogs. He wrote a Treatife on Providence; another on Avarice; and fome epilles, of which Baluze has given an excellent edition; that of Conrad Rittershusius, in 2 vols octavo,

SALUTATION, the act of faluting, greeting, or paying respect and reverence to any one.

When men (writes the compiler of L'Efprit , des

Salutation. U/age, et des Coutumes) falute each other in an amicable manner, it fignifies little whether they move a particular part of the body, or practife a particular ceremony. In these actions there must exist different cuftoms. Every nation imagines it employs the most reafonable ones; but all are equally fimple, and none are to be treated as ridiculous. This infinite number of ceremonies may be reduced to two kinds t to reverences or falutations; and to the touch of fome part of the human body. To bend and prottrate one's felt to express fentiments of respect, appears to be a natural motion; for terrified persons throw themselves on the earth when they adore invisible beings. The affectionate touch of the person they salute, is an expression of tenderness. As nations decline from their ancient fimplicity, much farce and grimace are introduced. Superatition, the manners of a people, and their fituation, influence the modes of falutation; as may be observed from the inslances we

> Modes of falutation have fometimes very different characters, and it is no uninteresting speculation to examine their shades. Many display a refinement of delicacy, while others are remarkable for their fimplicity, or for their fenfibility. In general, however, they are frequently the same in the infancy of nations, and in more polithed focieties. Respect, humility, fear, and efteem, are expressed much in a fimilar manner; for these are the natural consequences of the organization of the body. These demonstrations become, in time, only empty civilities, which fignify nothing; we shall notice what they were originally, without reflecting on what they are.

The first nations have no peculiar modes of falutation; they know no reverences, or other compliments, or they despile and disdain them. The Greenlanders laugh when they fee an European uncover his head and bend his body before him whom he calls his superior. The islanders, near the Philippines, take the hand or foot of him they falute, and with it they gently rub their face. The Laplanders apply their note strongly against that of the person they salute. Dampier says, that at New Guinea they are fatisfied in placing on their heads the leaves of trees, which have ever passed for symbols of friendship and peace. This is at least a

picturefque falute.

Other falutations are very incommodious and painful; it requires great practice to enable a man to be polite in an island situated in the straits of Sunda. Houtman tells us, they faiuted him in this odd way: " They raifed his left foot, which they passed gently over the right leg, and from thence over his face." The inhabitants of the Philippines bend their body very low, in placing their hands on their cheeks, and raising at the fame time one foot in the air, with their knee bent. An Ethiopian takes the robe of another, and ties it about his own waift, fo that he leaves his friend half naked. This custom of undressing on these occasions takes other forms; fometimes men place themselves naked before the person whom they salute; it is to show their humility, and that they are unworthy of appearing in his presence. This was practifed before Sir Joseph Banks, when he received the vifit of two female Otaheitans. Their innocent simplicity, no doubt, did not appear immodest in the eyes of the virtuoso. Sometimes they only undress partially. The Japanese only take off a dipper; the people of Arracan, their landals in the Salutne ftreet, and their stockings in the house.

In the progress of time, it appears servile to uncover one's felf. The grandees of Spain claim the right of appearing covered before the king, to flow that they are not fo much subjected to him as the rest of the nation : and (this writer observes) we may remark, that the English do not uncover their heads so much as the other nations of Europe. In a word, there is not a nation (observes the humorous Montaigne), even to the people who, when they falute, turn their backs on their friends, but that can be justified in their ce loms. It must be observed of the negrees, that they are lovers of ludicrous actions, and thus make all their ceremovies farcical. The greater part pull the fagers till they crack. Snelgrave gives an odd reprefentation of the embaffy which the king of Dahomy fent to him. The ceremonies of falutation confifted in the most ridiculous brace in fnapping three times the middle finger.

Barbarous nations frequently imprint on their falutations the dilpositions of their character. When the inhabitants of Carmena (favs Athenæus) would show a peculiar mark of effeem, they breathed a vein, and prefented for the beverage of their friend the blood as it issued. The Franks tore hair from their head, and prefented it to the person they saluted. The flave cut off his hair, and offered it to his mafter. The Clincfe are fingularly affected in their perfonal civilities : they even calculate the number of their references. These are their most remarkable postures. The men move their hands in an affectionate manner, while they are joined together on the breaft, and bow their head a little. If they respect a person, they raise their hands joined, and then lower them to the earth in bending the body. If two perfons meet after a long separation, they both fall on their knees, and bend the face to the earth, and this ceremony they repeat two or three times. Surely we may differ here with the fentiment of Montaigne, and confess this ceremony to be ridiculous. It arises from their national affectation. They subultute artificial ceremonies for natural actions. Their expressions mean as little as their ceremonies. If a Chinese is asked how he finds himself in health? he answers, Very well; thanks to your abundant felicity. If they would tell a man that he looks well, they fay, Prosperity is painted on your face; or, Your air announces your happines. If you render them any fervice, they fay, My thanks (hould be immortal. If you praise them, they answer, How shall I dare to perfuade my felf of what you fay of me? If you dine with them, they tell you at parting, We have not treated you with Sufficient deslination. The various titles they invent for each other it would be impossible to translate.

It is to be observed, that all these answers are prefcribed by the Chinese ritual, or academy of compliments. There are determined the number of bows; the expressions to be employed; the genuslections, and the inclinations which are to be made to the right or left hand; the falutations of the mafter before the chair where the stranger is to be feated, for he salutes it most profoundly, and wipes the dust away with the skirts of his robe; all these and other things are noticed, even to the filent gestures, by which you are entreated to enter the house. The lower class of people are equally

Salutation, nice in these punctilios; and ambassadors país 40 days Salute. in practifing them before they are enabled to appear at court. A tribunal of ceremonies has been erected, and every day very odd decrees are iffued, to which the Chinele most religiously submit.

The marks of honour are frequently arbitrary; to be feated, with us, is a mark of repose and familiarity; to stand up, that of respect. There are countries, however, in which princes will only be addressed by persons who are feated, and it is confidered as a favour to be permitted to fland in their prefence. This custom prevails in despotic countries: a despot cannot suffer without difgust the elevated figure of his subjects; he is pleased to bend their bodies with their genius: his prefence must lay those who behold him prostrate on the earth: he defires no eagerness, no attention; he would

The pope makes no reverence to any mortal except the emperor, to whom he floops a very little when he

permits him to kifs his lips.

only infuire terror.

SALUTE, in military matters, a discharge of artillery, or fmall arms, or both, in honour of fome per-fon of extraordinary quality. The colours likewife falute royal perfons, and generals commanding in chief : which is done by lowering the point to the ground. In the field, when a regiment is to be reviewed by the king or his general, the drums beat a march as he paffes along the line, and the officers falute one another, bowing their half-pikes or fwords to the ground; then recover and take off their hats. The enfigns falute all together, by lowering their colours.

SALUTE, in the navy, a testimony of deference or homage rendered by the ships of one nation to another, or by thips of the fame nation to a superior or

This ceremony is variously performed, according to the circumftances, rank, or fituation, of the parties. It confifts in firing a certain number of cannon, or volleys of small arms; in striking the colours or top-fails; or in one or more general shouts of the whole ship's crew. mounted on the mafts or rigging for that purpofe.

The principal regulations with regard to falutes in

the royal navy are as follow

"When a flag-officer falutes the admiral and commander in chief of the fleet, he is to give him fifteen guns; but when captains falute him, they are to give him feventeen guns. The admiral and commander in chief of the fleet is to return two guns lefs to flag-officers. and four lefs to captains. Flag-officers faluting their fuperior or fenior officer, are to give him thirteen guns. Flag-officers are to return an equal number of guns to flag-officers bearing their flags on the fame mast, and

" When a captain falutes an admiral of the white or blue, he is to give him fifteen guns; but to vice and rear admirals, thirteen guns. When a flag officer is faluted by two or more of his majesty's ships, he is not to return the falute till all have finished, and then to do it with fuch a reasonable number of guns as he shall judge

" In case of the meeting of two squadrons, the two chiefs only are to exchange falutes. And if fingle thins meet a foundron confiding of more than one flag, the principal flag only is to be faluted. No falutes shall be repeated by the same ships; unless there has been a fe- Salute. paration of fix months at leaft.

" None of his majesty's ships of war, commanded only by captains, shall give or receive falutes from one another, in whatfuever part of the world they meet.

" A flag officer commanding in chief shall be faluted, upon his first hoisting his flag, by all the ships present, with fuch a number of guns as is allowed by the first,

third, or fifth articles.

" When any of his majesty's ships shall meet with any thip or thips belonging to any foreign prince or state, within his majesty's seas (which extend to Cape Finisterre), it is expected, that the said foreign ships do strike their top-fail, and take in their flag, in acknowledgement of his majefty's fovereignty in those feas: and if any shall refuse or offer to resist, it is enjoined to all flag officers and commanders to use their utmost endeavours to compel them thereto, and not fuffer any dishonour to be done to his majesty. And if any of his majesty's subjects shall so much forget their duty, as to omit thriking their top-fail in paffing by his majefty's flips, the name of the ship and master, and from whence, and whither bound, together with affidavits of the fact, are to be fent up to the fecretary of the admiralty, in order to their being proceeded against in the admiralty court. And it is to be observed, that in his majesty's feas, his majefty's fhips are in nowife to flrike to any; and that in other parts, no thip of his majesty's is to ftrike her flag or top-fail to any foreigner, unless fuch foreign flip shall have first struck, or at the same time strike, her flag or top fail to his majefly's ship.

"The flag-officers and commanders of his majefly's thips are to be careful to maintain his majefty's honour upon all occasions, giving protection to his subjects, and endeavouring, what in them lies, to fecure and encourage them in their lawful commerce; and they are not to injure, in any manner, the fubjects of his majefty's

friends and allies.

" If a foreign admiral meet with any of his majefly's thips, and falutes them, he shall receive gun for gun. If he be a vice-admiral, the admiral shall answer with two guns lefs. If a rear-admiral, the admiral and vice-admiral shall return two less. But if the ship be commanded by a captain only, the flag-officer shall give two guns lefs, and captains an equal number.

"When any of his majesty's ships come to an anchor in a foreign port or road, within cannon-shot of its forts, the captain may falute the place with fuch a number of guns as have been customary, upon good assurance of having the like number returned, but not otherwise, But if the thip bears a flag, the flag-officer thall first carefully inform himfelf how flags of like rank, belonging to other crowned heads, have given or returned falutes, and to infift upon the same terms of respect.

"It is allowed to the commanders of his majesty's ships in foreign parts, to falute the perfons of any admirals, commanders in chief, or captains of thips of war of foreign nations, and foreign noblemen, or strangers of quality, as also the factories of the king's subjects, coming on board to vifit the ship; and the number of guns is left to the commander, as shall be fuitable to the occasion and the quality of the persons visiting; but he is nevertheless to remain accountable for any exactles in the abuse of this liberty. If the ship visited be in comSalgte

pany with other thips of war, the captain is not to make use of the civilities allowed in the preceding articles Samaneans, but with leave and confent of the commander in chief or the fenior captain.

" Merchant-ships, whether foreigners or belonging

to his majesty's subjects, faluting the admiral of the flect, shall be answered by fix guns less; when they falute any other flag-ships, they thall be answered by four guns less; and if they salute men of war commanded by captains, they shall be answered by two guns lefs. If feveral merchant-ships falute in company, no return is to be made till all have finished, and then by fuch a number of guns as shall be thought proper; but though the merchant-ships should answer, there shall be no fecond return.

" None of his majefty's fhips of war shall falute any of his majefty's forts or castles in Great Britain or Ire-

land, on any pretence whatfoever."

SALUZZO, called by the French Saluces, a town and castle of Italy, in Piedmont, and capital of a marquisate of the same name, with a bishop's see. It is situated on an eminence at the foot of the Alps near the river Po, in E. Long. 18. 27. N. Lat. 44. 35. It was formerly subject to the king of Sardinia.

SALUZZO, the marquifate of, a province of Piedmont in Italy, bounded on the north by Dauphiny and the province of the Four Valleys, on the east by those of Saviglano and Fossano, on the fouth by that of Cona and the county of Nice, and on the west by Barcelonetta. It was ceded to the duke of Savoy in

1601.

SAMA, a town and fort in the hands of the Dutch on the Gold Coatt of Africa, stands on an eminence, the fort being watered by the pleafant river of St George, that discharges itself into the sea. The town contains above 200 houses, which seem to form three diffinct villages, one of which is immediately under the cannon of the Dutch fort St Sebastian. Des Marchais deems this town to be one of the largest on the whole coast, Barbot likewise agreeing with him in its fituation, extent, and number of inhabitants. The fole employment of the natives is fifting; a circumflance which easily accounts for their poverty. The government of this place is republican, the magistrates having the supreme power, being subject to periodical changes, and under the authority of the king of Gavi, who feldom however interferes in the affairs of the state. This prince refides fome leagues diffant from the fea, is rich, and much respected by his neighbours.

SAMANEANS, in antiquity, a kind of magi or philosophers, have been confounded by some with the Bramins. They proceeded from Ariana, a province of Perfia, and the neighbouring countries, spread them-

felves in India, and taught new doctrines.

The Bramins, before their arrival, it is faid, were in the highest period of their glory, were the only oracles of India, and their principal refidence was on the banks of the Ganges, and in the adjacent mountains; while the Samaneans were fettled towards the Indus. Others cult to prove that the Bramins were the religious teachers of the Indians. The most celebrated and ancient of the Samanean doctors was Boutta, or Budda, who

was born 683 years before Christ. His scholars paid Samanears him divine honours; and his doctrine, which confifted chiefly in the transmigration of souls, and in the worthip of cows, was adopted not only in India, but also in Japan, China, Siam, and Tartary. It was propagated according to M. de Sainte Croix, in Thibet, in the 8th century, and succeeded there the ancient religion of Zamolxis. The Samaneans, or Buddifts, were entirely destroyed in India by the jealous rage of the Bramins, whose absurd practices and fables they affected to treat with contempt; but feveral of their books are still preserved and respected on the coasts of Mala-

We are told, too, that feveral of the Bramin orders have adopted their manner of living, and openly profefs the greatest part of their doctrines. L'Exour Vedam. ou Ancien Comment du Vedam, published by M. de S.

Croix, Paris 1779. See BRAMINS.

SAMAR, a Spanish island not far from Manilla in the East Indies, is called Samar on the fide which looks towards the other ifles, and Ibabao on that next the Modern ocean. Its greatest length, from Cape Baliquaton, which, Univ. High with the point of Manilla, makes the strait of St Ber-vol. viii. nardino, in 13 deg. 30 min. north latitude, extends to P. 157. that of Guignan in 11 deg. towards the fouth. The other two points, making the greatest breadth of the island, are Cabo de Spirito Santo, or Cape of the Holy Ghoff, the high mountains of which are the first discovered by thips from New Spain; and that which lying opposite to Leyte westward, makes another strait, scarce a stone's throw over. The whole compass of the island is about 130 leagues. Between Guignan and Cape Spirito Santo is the port of Borognon, and not far from thence those of Palapa and Catubig, and the little island of Bin, and the coast of Catarman. Vessels from countries not yet discovered are very frequently cast away on the before-mentioned coast of Palapa. Within the straits of St Bernardino, and beyond Baliquaton, is the coast of Samar, on which are the villages of Ibatan, Bangahon, Cathalogan, Paranos, and Calviga. Then follows the firait of St Juanillo, without which, flanding eastward, appears the point and little island of Guignan, where the compass of the island ends. It is mountainous and craggy, but the few plains which it contains are very fertile. The fruits are much the same as those of LEYTE; but there is one particular fort, called by the Spani rds chicoy, and by the Chinese, who put a great value on it, feyzu, without kernels.

SAMARA, a genus of plants belonging to the tc-

trandria class. See BOTANY Index.

SAMARCAND, or SARMACAND, an ancient and famous town of Afia, capital of the kingdom of the fame name in the country of the Ufbeck Tartars, with a castle and a famous university. The houses are built with stones, and it carries on a trade in excellent fruits. It is pleafantly feated near the river Sogde, a branch of the Amu. E. Long. 69. o. N. Lat. 39. 50. This town was the capital of the kingdom of Sogdia in the time of Alexander the Great, when it was called Maracanda. It was afterwards the caj ital of the empire of Tamerlane the Great. In the time of Jenghiz Khan, it was butchered; 30,00 of the inhabitants, with their wiv s

Samaria, and children, were prefented to his generals; the reft were permitted to live in the city, on paying a tribute

of 300,000 dinars or crowns of gold. SAMARIA, in Ancient Geography, one of the three larger Cisjordan diffricts, fituated in the middle between Galilee to the north and Judea to the fouth, beginning at the village Ginea, in the Campus Magnus, and ending at the toparchy called Acrobatena (Josephus). Its foil differing in nothing from that of Judgea; both equally hilly and champaign, both equally fertile in corn and fruit (ib.) Called the kingdom of Samaria in Ephraim (Bible); comprising the ten tribes, and confequently all the country to the north of Judea and east and weit of Jordan.

SAMARIA, the capital city of the kingdom of Samaria, or of the ten tribes. It was built by Omri king of Israel, who began to reign in the year of the world 3079, and died 3086 (1 Kings xvi. 24.). He bought the hill Samaria of Shemer for two talents of filver, or for the fum of 6841. 7s. 6d. It took the name of Samaria from Shemer the owner of the hill; though some think there were already some beginnings of a city, because, before the reign of Omri there is mention made of Samaria (1 Kings xiii. 32.) in the year of the world 3030. But others take this for a prolepfis, or an anticipation, in the discourse of the man of God, who speaks of Samaria under the reign of Jeroboam.

However this be, it is certain that Samaria was no confiderable place, and did not become the capital city of the kingdom of Ifrael till after the reign of Omri. Before him, the kings of Ifiael dwelt at Shechem, or Tirzah. Samaria was situated upon an agreeable and fruitful hill, in an advantageous fituation, and was 12 miles from Dothaim, 12 from Merrem, and four from Atharoth. Josephus says, it was a day's journey from Jerusalem. Besides, though it was built upon an eminence, yet it must have water in abundance; fince we find medals struck in this city, whereon is reprelented the goddels Atlante treading a river under foot; which proves it to have been well watered. And Josephus obferves, that when it was taken by John Hircanus the prince of the Jews, he entirely demolished it, and caused even the brook to flow over its ruins, to obliterate all the footsteps of it.

The kings of Samaria omitted nothing to make this city the strongest, the finest, and the richest, that was possible. Ahab built there a palace of ivory (1 Kings xxii. 30.), that is, in which there were many ornaments of ivory. Amos describes Samaria under Jeroboam II. as a city funk into all excesses of luxury and effeminacy (Amos iii. 15. and iv. 1, 2.).

Ben-hadad king of Syria built public places or firects in Samaria (1 Kings xx. 34.) probably for traffic, where his people dwelt to promote trade. His fon Benhadad befieged this place under the reign of Ahab (1 Kings xx. 1, 2, 3, &c.) in the year of the world

The following year, Ben-hadad brought an army into the field, probably with a defign to march against Samaria: but his army was again cut in picces. Some years after this, Ben-hadad came a third time, lay down before Samaria, and reduced it to fuch necessities by famine, that a mother was there forced to eat her own child; but the city was relieved by a fensible effect of the protection of God.

Laftly, it was befieged by Shalmanefer king of Affy- Samaria. ria, in the ninth year of Hothea king of Ifrael (2 Kings xvii. 6, 7, &c.), which was the fourth of Hezekiah king of Judah. It was taken three years after, in the year of the world 3283. The prophet Hofen speaks of the cruelties exercised by Shalmaneser against the besieged (Hof. x. 4, 8, 9. xiv. I.); and Micah fays, that this city was reduced to a heap of stones (Mic. i. 6.). The Cuthites that were fent by Efar haddon to inhabit the country of Samaria, did not think it worth their while to repair the ruins of this city; they dwelt at Shechem. which they made the capital city of their flate. They were fill upon this footing when Alexander the Great came into Phœnicia and Judea. However, the Cuthites had rebuilt some of the houses of Samaria, even from the time of the return from the captivity, fince Ezra then speaks of the inhabitants of Samaria (Ezra iv. 17. Nehem. iv. 2.); and that the Samaritans, being jealous of the favours that Alexander the Great had conferred on the Jews, revolted from him while this prince was in Egypt, and burnt Andromachus alive, whom Alexander had left governor of Syria. Alexander marched against them, took Samaria, and put in Macedonians to inhabit it; giving the country round it to the Jews; and to encourage them to cultivate it, he granted them an exemption from tribute. The king of Egypt and Syria, who succeeded Alexander, deprived them of the property of this country.

But Alexander Balas king of Syria restored to Jonathan Maccabaus the cities of Lydda, Ephrem, and Ramatha, which he cut off from the country of Samaria (1 Mac. x. 30, 38, and xi. 28, 34.). Laftly, the Jews re-entered into the full possession of this whole country under John Hircanus the Almonæan, who took Samaria, and ruined it in such a manner, according to Josephus, that he made the river run through its ruins. It continued in this condition to the year of the world 3947, when Aulus Gabinius, the proconful of Syria, rebuilt it, and gave it the name of Gabiniana. But it was yet but very inconfiderable, till Herod the Great restored it to its ancient lustre, and gave it the Greek name of Sebaste, which in Latin is Augusta, in honour of the emperor Augustus, who had given him the pro-

perty of this place. The facred authors of the New Testament speak but little of Samaria; and when they do mention it, it is rather in respect of the country about it, than of the city itself. (See Luke xvii. 11. John iv. 4, 5.).—It was there our Lord kad the conversation with the woman of Samaria, that is, with a Samaritan woman of the city of Sychar. After the death of St Stephen, (Acts viii. 1, 2, 3.), when the disciples were dispersed through the cities of Judea and Samaria, St Philip the deacon withdrew into the city of Samaria, where he made feveral converts. When the apostles heard that this city had received the word of God, they fent Peter and John thither, to communicate the Holy Ghost to such as had been baptized. It was there they found Simon Magus, who offered money to the apostles, being in hopes to buy this power of communicating the Holy Ghoft. Samaria is never called Schafte in the books of the New Testament, though strangers hardly knew it but by this name. St Jerome fays, that it was thought Obadiah was buried at Samaria. They also shewed there the tembs of Elisha and of St John the Baptist. There are

Samarita.s found many ancient medals that were flruck at Sebaffe, or Samaria, and fome bifhops of this city have subscribed

to the ancient councils.

SAMARITANS. We have already fpoken of the Samaritans under the article Cuth. The Samaritans are the people of the city of Samaria, and the inhabitants of the province of which Samaria was the capital city. In this fenfe, it should feem that we might give the name of Samaricans to the Ifraelites of the ten tribes, who lived in the city and territory of Samaria. However, the facred authors commonly give the name of Samaritans only to those thrange people whom the kings of Affyria fent from beyond the Euphrates to inhabit the kingdom of Samaria, when they took away captive the Ifraelites that were there before. Thus we may fix the epoch of the Simaritans at the taking of Samaria by Salmaneser, in the year of the world 3283. This prince carried away captive the Ifraelites that he found in the country, and affigned them dwellings beyond the Euphrates, and in Affyria, (2 Kings xvii. 24.). He fent other inhabitants in their flead, of which the most considerable were the Cuthites, a people descended from Cush, and who are probably of the number of those whom the ancients knew by the name of Scy-

After Silmanefer, his fueceffor Efar-haddon was informed, that the people which had been fent to Samuria were infelled by lions that devoured them, (2 Kings xvii. 25.); this he imputed to the ignorance of the people in the manner of wordhipping the god of the country. Wherefore Efar-haddon fent a prind of the God of Ifrael that he might teach them the religion of the Hebrews. But they thought they might blend this religion with that which they professed before; so they continued to worship their idols as before, in conjunction with the God of Ifrael, not perceiving how abfard and

incompatible there two religions were.

It is not known how long they continued in this flate; but at the return from the captivity of Babylon, it appears they had entirely quitted the worship of their idols; and when they asked permission of the Israelites that they might labour with them at the rebuilding of the temple of Jerusalem, they affirmed, that from the time that Efar-haddon had brought them into this country they had always worshipped the Lord, (Ezra iv. 1, 2, 3.). And indeed, after the return from the captivity, the Scripture does not anywhere reproach them with idolatrous worship, though it does not dissemble either their jealoufy against the Jews, nor the ill offices they had done them at the court of Persia, by their flanders and calumnies, or the flratagems they contrived to hinder the repairing of the walls of Jerusalem .-(Nehem. ii. 10, 19. iv. 2, &c. vi. 1, 2, &c.)

It does not appear that there was any temple in Samaria, in common to all these people who came thither from beyond the Euphrates, before the coming of Alexander the Great into Judea. Before that time, every one was left to his own discretion, and worshipped the Lord where he thought fit. But they presently comprehended, from the books of Mose which they had in their bands, and from the example of the Jews their neighbours, that God was to be worshipped in that place only which he had chosen. So that face they could not go to the temple of Jerusalem, which the Jews would not allow of, they bethought themselves of building a wet allow of, they bethought themselves of building a

temple of their own upon Mount Gerizin, near the city Samertans. Of Shechem, which was then their capital. Therefore Sanbailat, the governor of the Samarine, applied home felf to Alexander, and told him he had a for-in-law, called Mandles, for to Jaddus the light-ried of the Jews, who had refred to Sameria with a great number of other persons of his own nation; that he defired jobiild a temple in this province, where he might exercise the high-priesthood; that this undertaking would be to the advantage of the king's affairs, because in building a temple in the province of Samarin, the nation of the Jews would be divided, who are a turbulent and seditions people, and by such a visition would be made weaker, and less in a condition to undertake new enterprises.

Alexander readily confented to what Sanballat defired, and the Samaritans prefently began their building of the temple of Gerizim, which from that time they have always frequented, and fill frequent to this day, as the place where the Lord intended to receive the adoration of his people. It is of this mountain, and of this temple, that the Samaritan woman of Sychar fpoke to our Saviour, John iv, 20.1. See GAchar fpoke to our Saviour, John iv, 20.1. See GA-

RIZIM

The Samaritans did not long continue under the obedience of Alexander. They reveited from him the very next year, and Alexander drove them out of Samaria, pat Macedonians in their room, and gave the province of Samaria to the Jews. This preference that Alexander gave to the Ifraelites contributed not a little to increafe that hatred and animofity that had already obtained between these two people. When any Ifraelite had deserved punishment for the violation of some important poist of the law, he presently took refuge in Samaria or Shechem, and embraced the way of worship according to the temple of Garizm. When the Jews were in a prosperious condition, and affiris were favourable to them, the Samanitans did not fail to call themselves Itelerows, and prete ded to be of the race of Abraham. But no some were the Jews Fillen into differed itelerows, and prete ded to be of the race of Abraham. But no some were the Jews Fillen into different intervent of the prosperious conditions and the samanitans immediately disowned them, would have nothing in common with them, acknowledged themselves to be Plectrians originally, or that they were descended from Joseph and Manusch his son. This used to be their practice in the time of Antochus Epanhanes.

The Samaritans, having received the Pentateuch, or the five books of Mofes, from the prieft that was fent by Efar-haddon, have preferved it to this day, in the fame language and charafter it was then, that is, in the old Hebrew or Priemician charafter, which we now call the Samaritan, to diffinguith it from the modern Hebrew charafter, which at prefent we find in the books of the Jews. Thefe laft, after their captivity, changed their old charafter, and took up those of the Chaldee, which they had been used to at Babylon, and which they continue fill to use. It is wrong, fays, F. Calmet, to give this the name of the Hebrew charafter, for that can be faid properly only of the Samaritan text. The crities have taken notice of some variations between the Pentatuch of the Jews and that of the Samaritans but these varieties of reading chiefly regard the word Gerizim, which the Samaritans feem to have purp fely introduced to favour their pretensions, that Mount Gerizim was the place in whish the Lord was to be

Samathans adored. The other various readings are of small importance.

The religion of this people was at first the Pagan. Every one worthipped the deity they had been used to in their own country (2 Kings xvii. 25, 30, 31.). Babylonians worthipped Suco th-benoth; the Cuthites, Nergal; the Hamathites, Ashima; the Avites, Nibhaz and Tartak; the Sepharvites, Adrammelech and Anammelech. If we would enumerate all the names of falfe gods to whom the Samaritans have paid a facrilegious worthip, we fhould have enough to do. This matter is fufficiently perplexed, by reason of the different names by which they were adored by different nations, infomuch that it would be almost impossible to clear up this affair. See SUCCOTH-BENOTH, &c. Afterwards, to this profane worship the Samaritans added that of the Lord, the God of Ifrael, (2 Kings xvii. 29, 30, 31, 32.). They gave a proof of their little regard to this worship of the true God, when under Antiochus Epiplanes they confecrated their temple at Gerizim to Jupiter Argivus. In the time of Alexander the Great, they celebrated the fabbatical year, and confequently the year of jubilee alfo. We do not know whether they did it exactly at the fame time with the Jews, or whether they observed any other epoch; and it is to little purpose that some critics have attempted to ascertain the first beginning of it. Under the kings of Syria they followed the epoch of the Greeks, or that of the Seleuvidæ, as other people did that were under the government of the Seleucidæ. After that Herod had re-established Samaria, and had given it the name of Sebaste. the inhabitants of this city, in their medals, and all public acts, took the date of this new establishment. But the inhabitants of Samaria, of which the greater part were Pagans or Jews, were no rule to the other Samaritans, who probably reckoned their years according to the reigns of the emperors they were subject to, till the time they fell under the jurisdiction of the Mahometans, under which they live at this day; and they reckon their year by the Hegira, or, as they fpeak, according to the reign of Ishmael, or the Ishmaelites. Such of our readers as defire to be further acquainted with the history of the ancient Samaritans, we refer to the works of Josephus, where they will find that subject largely treated of.

As to their belief, it is objected to them, that they receive only the Pentateuch, and reject all the other books of Scripture, chiefly the prophets, who have more expressly declared the coming of the Meshah .- They have also been accused of believing God to be corporeal, of denying the Holy Ghoft, and the refurrection of the dead. Jesus Christ reproaches them (John iv. 22.) with worshipping they know not what; and in the place already referred to he feems to exclude them from falvation, when he fays, that "Salvation is of the Jews." True it is, that these words might only signify, that the Meshah was to proceed from the Jews; but the crime of fchism alone, and a separation from the true church, was sufficient to exclude them from falvation. The Samaritan woman is a fufficient testimony that the Samaritans expected a Messiah, who they hoped would clear up all their doubts (John iv. 25.), Several of the inhabitants of Shechem believed at the neaching of Jelus Christ, and several of Samaria believed at that of St Philip; but it is faid, they foon fell Sumaritans. back to their former errors, being perverted by Simon

The Samaritans at prefent are very few in number. Joseph Scaliger, being curious to know their usages. wrote to the Samaritans of Egypt, and to the high priest of the whole feet who resided at Neapolis in Syria. They returned two answers to Scaliger, dated in the year of the Hegira 998. These were preserved in the French king's library, and were translated into Latin by Father Morin, and printed in England in the collection of that father's letters, in 1682, under the title of Antiquitates Ecclefice Orientalis. By these letters it appears, that they believe in God, in his fervant Moses, the holy law, the mountain Gerizim, the house of God, the day of vengeance and of peace; that they value themselves upon observing the law of Moses in many points more rigidly than the Jews themselves .-They keep the fabbath with the utmost strictness required by the law, without stirring from the place they are in, but only to the fynagogue. They go not out of the city, and abstain from their wives on that day. They never delay circumcifion beyond the eighth day. They still facrifice to this day in the temple on Mount Gerizim, and give to the priest what is en-joined by the law. They do not marry their own nieces, as the Jews do, nor do they allow themselves a plurality of wives. Their hatred for the Jews may be feen through all the history of Josephus, and in feveral places of the New Testament. The Jewish historian informs us, that under the government of Coponius, one paffover night, when they opened the gates of the temple, some Samaritans had scattered the bones of dead men there, to infult the Jews, and to interrupt the devotion of the festival. The evangelists shew us, that the Jews and Samaritans held no correspondence together (John iv. 9.) "The Jews have no dealings with the Samaritans." And the Samaritan woman of Sychar was much furprifed that Jesus talked with her, and asked drink of her, being a Samaritan. When our Saviour fent his apostles to preach in Judea, he forbade them to enter into the Samaritan cities, (Mat. x. s.); because he looked upon them as schismatics, and as firangers to the covenant of Ifrael. One day when he fent his disciples to provide him a lodging in one of the cities of the Samaritans, they would not entertain him, because they perceived he was going to Jerusalem. (Luke ix. 53. 53.) " Because his face was as though he would go to Jerufalem." And when the Jews were provoked at the reproaches of Jesus Christ, they told him he was a Samaritan (John viii. 48.), thinking they could fay nothing more fevere against him. Josephus relates, that fome Samaritans having killed feveral Jews as they were going to the feast at Jerusalem, this eccasioned a kind of a war between them. The Samaritans continued their fealty to the Romans, when the Jews revolted from them; yet they did not escape from being involved in some of the calamities of their

There are still at this day fome Samaritans at Shechem, otherwise called Naplouse. They have priests there, who fay they are of the family of Aaron. high-priest, who refides at Shechem, or at Gerizim, who offers facrifices there, and who declares the feaft of the





India in

1754·

Sambucus, passover, and all the other feasts, to all the dispersed Samaritans. Some of them are to be found at Gaza. fome at Damascus, and some at Grand Cairo.

SAMBUCUS, ELDER, a genus of plants belonging to the pentandria class; and in the natural method ranking under the 43d order, Dumofæ, See BOTANY

Index.

All the forts of elder are of the deciduous tribe, very hardy, and grow freely anywhere; are generally free shooters, but particularly the common elder and varieties, which make remarkably strong, jointed shoots, of feveral feet in length, in one feafon; and they flower mostly in fummer, except the racemose elder, which generally begins flowering in April; and the branches being large, spreading, and very abundant, are exceedingly conspicuous; but they emit a disagreeable odour. The flowers are fucceeded in most of the forts by large bunches of ripe berries in autumn, which, although very unpalatable to eat, are in high estimation for making that well known cordial liquor called elder wine, particularly the common black-berried elder. In gardening, the elder is both useful and ornamental, especially in extensive grounds.

SAMIAN EARTH, in the materia medica, the name of two species of marl used in medicine, viz. 1. The white kind, called by the ancients collyrium famium, being aftringent, and therefore good in diarrhœas, dyfenteries, and hæmorrhagies; they also used it externally in inflammations of all kinds. 2. The brownith white kind. called after famius by Dioscorides; this also stands re-

commended as an aftringent.

SAMIELS, the Arabian name of a hot wind peculiar to the defert of Arabia. It blows over the defert Ives's Voy. in the months of July and August from the north-west quarter, and fometimes it continues with all its violence age from England to to the very gates of Bagdad, but never affects any body within the walls. Some years it does not blow at all, and in others it appears fix, eight, or ten times, but feldom continues more than a few minutes at a time. It often paffes with the apparent quickness of lightning. The Arabians and Perfians, who are acquainted with the appearance of the fky at or near the time this wind arifes, have warning of its approach by a thick haze, which appears like a cloud of dust arising out of the horizon; and they immediately upon this appearance throw themselves with their faces to the ground, and continue in that position till the wind is passed, which frequently happens almost instantaneously; but if, on the contrary, they are not careful or brisk enough to take this precaution, which is fometimes the case, and they get the full force of the wind, it is instant death.

The above method is the only one which they take to avoid the effects of this fatal blaft; and when it is over, they get up and look round them for their companions; and if they fee any one lying motionless, they take hold of an arm or leg, and pull and jerk it with some force; and if the limb thus agitated feparates from the body, it is a certain fign that the wind has had its full effect; but if, on the contrary, the arm or leg does not come away, it is a fure fign there is life remaining, although to every outward appearance the person is dead; and in that case they immediately cover him or them with clothes, and administer some warm diluting liquor to cause a perspiration, which is certainly but slowly

brought about.

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The Arabs themselves can say little or nothing about Sanads the nature of this wind, only that it always le ves behind it a very ftrong fulphureous imell, and that the air. at these times is quite clear, except about the horizon. in the north-west quarter, before observed, which gives warning of its approach. We have not been able to learn whether the dead bodies are feorehed, or diffolved into a kind of gelatinous fubiliance; but from the trories current about them, there has been frequent r ason to believe the latter; and in that case such fatal effects may be attributed rather to a nuxious vapour than to an abfolute and excessive heat. The story of its going to the gates of Bagdad and no farther may be reasonably enough accounted for, if the effects are attributed to a poisonous vapour, and not an excessive heat. The abovementioned wind, Samiel, is fo well known in the neighbourhood of Bagdad and Baffora, that the very children fpeak of it with dread.

SAMOGITIA, a province of Poland, bounded on the north by Courland, on the east by Lithuania, on the west by the Baltic sea, and on the fouth by Regal Prussia, being about 175 miles in length and 125 in breadth. It is full of forests and very high mountains, which feed a great number of cattle, and produce a large quantity of honey. There are also very active horses, in high esteem. The inhabitants are clownish, but honeft; and they will not allow a young woman to go out in the night without a candle in her hand and two bells at her girdle. Roffenna and Wormia are the

principal places,

SAMOIEDA, a country of the Ruffian empire, between Afiatic Tartary and Archangel, lying along the fea-coast as far as Siberia. The inhabitants are extremely rude and barbarous. They travel on the fnow on fledges, drawn by an animal like a rein-deer, but with the horns of a stag. Their stature is short; their shoulders and faces are broad, with that broad noise, hanging lips, and staring eyes; their complexion is dark, their hair long and black; and they have very little beard. If they have any religion at all, it is idolatry, though there has been fome attempts of late to convert them. Their huts are made of birch bark fewed together, and laid upon stakes fet in the ground; at the top is a hole to let out the fmoke; the fire is made in the middle, round which they repose in the night .- Their chief employment is hunting and fishing.

SAMOLUS, WATER PIMPERNEL; a genus of plants belonging to the pentandria class, and in the natural method ranking under the 21st order, Precia. See Bo-TANY Index.

SAMOS, in Ancient Geography, an island at no great distance from the promontory Mycale, on the continent of the Hither Asia, and opposite to Ephesus; the diftance only seven stadia (Strabo); a free island, in compaís 87 miles (Pliny); or 100 (Ifidorus); with a cognominal town (Ptolemy, Horace); fameus for the worthip and a temple of Juno, with a noted afylum (Virgil, Strabo, Tacitus); and hence their coin exhibited a peacock (Atherwas): The country of Pythagoras, who. to avoid the oppression of tyrants, retired to Italy, the land of freedom. Samos, though not to happy in producing wine, which Strabo wonders at, all the adjoining islands yielding a generous fort, yet abounds in all the necessaries of life. The Vasa Samia, among earthen ware, were held in high repute. Samu, the peo-

ple (Ovid).- The island is now in the hands of the Turks. It is about 32 miles in length, and 22 in breadth, and extremely fertile. The inhabitants live at their eate, their taxation by the Turks being moderate. The women are very nafty and ugly, and they never flift above once a month. They are clothed in the Turkith manner, except a red coif, and their hair hanging down their backs, with plates of filver or block-tin fastened to the ends .- They have abundance of melons, lentils, kidney-beans, and excel-lent muskadine grapes. They have white figs four times as big as the common fort, but not fo well tafted. Their filk is very fine, and their honey and wax admirable; besides which, their poultry are excel-lent: they have iron mines, and most of the soil is of a rufty colour: they have also emery stone, and all the mountains are of white marble. The inhabitants are about 12,000, who are almost all Greeks; and the monks and priefts occupy most part of the island. They have a bishop who resides at Cora. Sec POLY-CRATES.

Ofbec's Voya

SAMPAN, is a Chinese boat without a keel, lookage to Chi- ing almost like a trough; they are made of different dina and the mensions, but are mostly covered. These boats are as East Indies. long as sloops, but broader, almost like a baking trough; and have at the end one or more decks of bamboo flicks: the cover or roof is made of bamboo flicks, arched over in the shape of a grater; and may be raifed or lowered at pleafure: the fides are made of boards, with little holes, with flutters inflead of windows: the boards are fastened on both fides to posts, which have notches like steps on the inside, that the roof may be let down, and rest on them: on both ends of the deck are commonly two little doors, at least there is one at the hindmost end. A fine white smooth car-pet spread up as far as the boards makes the floor, which in the middle confifts of loofe boards; but this carpet is only made use of to sleep on. As these boats greatly differ from ours in shape, they are likewise rowed in a different manner: for two rowers, posling themfelves at the back end of the fampan, work it forwards very readily by the motion of two oars; and can almost turn the vessel just as they please: the oars, which are covered with a little hollow quadrangular iron, are laid on iron fwivels, which are fasted in the fides of the fampan: at the iron the oars are pieced, which makes them look a little bent: in common, a rower fits before with a short oar; but this he is forced to lay afide when he comes near the city, on account of the great throng of fampans; and this inconvenience has confirmed the Chinese in their old way of rowing. Inflead of pitch, they make use of a cement like our putty, which we call chinam, but the Chinese call it kiang. Some authors fay that this cement is made of hime and a refin exuding from the tree tong yea, and bamboo ockam.

Befides a couple of chairs, they have the following farniture: two oblong tables or boards on which fome Chinese characters are drawn; a lanthorn for the night-time, and a pot to boil rice in. They have also a little cover for their bousehold god, decorated with gilt paper and other ornaments : before him stands a pot filled with ashes, into which the tapers are put before the idol. The candles are nothing else than bamboo chips, to the upper end of which faw-dust of fandalwood is fluck on with gum. Thefe tapers are every- Sampan where lighted before the idols in the pagodas, and before the doors in the streets; and, in large cities, occafion a smoke very pernicious to the eyes. Before this idol stands some famso, or Chinese brandy, water, &c. We ought to try whether the Chinese would not like to use juniper-wood instead of fandal-wood; which latter comes from Suratte, and has almost the same smell with juniper.

SAMSON, one of the judges of Ifrael, memorable for his fupernatural strength, his victories over the Philistines, and his tragical end, as related in the book

of Judges.

SAMSON's Poft, a fort of pillar erected in a fluip's hold, between the lower deck and the kelfon, under the edge of a hatchway, and furnished with several notches that ferve as freps to mount or descend, as occasion requires. This post being firmly driven into its place, not only ferves to support the beam and fortify the veffel in that place, but also to prevent the cargo or materials contained in the hold, from fhitting to the opposite side, by the rolling of the ship in a turbulent and heavy fea.

BOOKS of SAMUEL, two canonical books of the Old Testament, as being usually atcribed to the prophet

The books of Samuel and the books of Kings are a continued hiftory of the reigns of the kings of Ifrael and Judah; for which reason the books of Samuel are likewise flyled the first and second books of Kings. Since the first 24 chapters contain all that relates to the History of Samuel, and the latter part of the first book and all the fecond include the relation of events that happened after the death of that prophet, it has been supposed that Samuel was author only of the first 24 chapters, and that the prophets Gad and Nathan finished the work. The first book of Samuel comprehends the transactions under the government of Eli and Samuel, and under Saul the first king; and also the acts of David while he lived under Saul; and is supposed to contain the space of 101 years. The second book contains the history of about 40 years, and is wholly spent in relating the transactions of David's

SAMYDA, a genus of plants belonging to the decandria class; and in the natural method ranking with those of which the order is doubtful. See BOTANY

SANA, or SANAA, a large, populous, and handsome Niebuhr's town of Afia, capital of Arabia Felix, is fituated in Travels by Proper Yemen, at the foot of Mount Nikkum, on Heron. which are still to be seen the ruins of a castle, which the Arabs suppose to have been built by Shem. Near this mountain flands the castle; a rivulet runs upon the other fide; and near it is the Buftan el Metwokkel, a fpacious garden, which was laid out by Imam Metwokkel, and has been embellished with a fine garden by the reigning imam. The walls of the city, which are built of bricks, exclude this garden, which is inclosed within a wall of its own. The city, properly fo called, is not very extensive : one may walk round it all in an hour. The city-gates are feven. Here are a number of mosques, some of which have been built by Turkish pachas. Sana has the appearance of being more populous than it actually is; for the gardens occupy a part of

Sana. of the space within the walls. In Sana are only 12 public baths; but many noble palaces, three of the most splendid of which have been built by the reigning imam. The palace of the late imam El Manzor, with fome others, belong to the royal family, who are very numerous.

The Arabian palaces are built in a fivle of architecture different from ours. The materials, are, however, burnt bricks, and fometimes even hern ftones; but the houses of the common people are of bricks which have been dried in the sun. There are no glass windows, except in one palace, near the citadel. The rest of the houses have, instead of windows, merely shutters, which are opened in fair weather, and thut when it is foul. In the last case, the house is lighted by a round wicket, fitted with a piece of Mufcovy glass; fome of the Arabians we fmall panes of stained glass from Venice.

At Sana, and in the other cities of the East, are great fimferas or caravanferas for merchants and travellers. Each different commodity is fold in a feparate market. In the market for bread, none but women are to be feen; and their little shops are portable. The feveral classes of mechanics work, in the same manner, in particular quarters in the open fireet. Writers go about with their desks, and make out brieves, copybooks, and instruct scholars in the art of writing, all at the same time. There is one market where old clothes are taken in exchange for new.

Wood for the carpenter's purpole is extremely dear through Yemen; and wood for the fire at Sana is no lefs fo. All the hills near the city are bleak and bare, and wood is therefore to be brought hither from the distance of three days journey; and a camel's burthen commonly costs two crowns. This scarcity of wood is particularly supplied by the use of a little pit-coal. Peats are burnt here; but they are fo bad, that flraw must be intermixed to make them burn.

Fruits are, however, very plenteous at Sana. Here are more than 20 different species of grapes, which, as they do not all ripen at the same time, continue to afford a delicious refreshment for several months. The Arabs likewise preserve grapes, by hanging them up in their cellars, and eat them almost through the whole year. The Jews make a little wine, and might make more if the Arabs were not fuch enemies to strong liquors. A Jew convicted of conveying wine into an Arab's house is feverely punished; nay, the Jews must even use great caution in buying and felling it among themselves. Great quantities of grapes are dried here; and the exportation of raisins from Sana is considerable. One fort of these grapes is without stones, and contains only a foft grain, the presence of which is not perceptible in eating the raifin.

In the castle, which stands on a hill, are two palaces. " I faw (favs Niehuhr) about it some ruins of old buildings, but, notwithstanding the antiquity of the place, no remarkable inscriptions. There is the mint, and a range of prisons for persons of different ranks. The reigning imam refides in the city; but feveral princes of the blood-royal live in the castle. The battery is the most elevated place about these buildings; and there I met with what I had no expectation of, a German mortar, with this infeription, Jorg Selos Golmick, 1513. I faw also upon the same battery seven iron cannons, partly buried in the fand, and partly fet upon broken carriages. Sana, These seven small cannons, with fix others near the Sunba at. gates, which are fired to announce the return of the different festivals, are all the artillery of the capital of Yemen."

SANADON, NOEL ETIENNE, a Jefuit, was born at Rouen in 1676, and was a diffinguished professor of humanity at Caen. He there became acquainted with Huet bishop of Avranches, whose tatle for literature and poetry was fimilar to his own. Sanadon afterwards taught rhetoric at the univerfity of Paris, and was entrusted with the education of the prince of Conti, after the death of Du Morceau. In 1728 he was made librarian to Louis XIV, an office which he retained to his death. He died on the 21fl September 1733, in the

58th year of his age.

His works are, 1. Latin Poems, in 12mo, 1715, and reprinted by Barbou, in 8vo, 1754. His ftyle possesses the graces of the Augustan age. His language is pure and nervous; his verses are harmonious, and his thoughts are delicate and well chosen; but fometimes his imagination flags. His Latin poems conful of Odes, Elegies, Epigrams, and others, on various fubjects. 2. A translation of Horace, with Remarks, in 2 vols. 4to, printed at Paris in 1727; but the best edition of this work was printed at Amsterdam in 1735, in 8 vols. 12mo, in which are also inserted the verfions and notes of M. Dacier. Sanadon translated with elegance and taste; but he has not preserved the sublimity of the original in the odes, nor the energy and precision in the epistles and fatires. In general, his version is rather a paraphrase than a faithful translation. Learned men have justly censured him for the liberty which he has taken in making confiderable changes in the order and structure of the odes. He has also given offence by his uncouth orthography. 3. A Collection of Discourses delivered at different times, which afford ftrong proofs of his knowledge of oratory and poetry. 4. A book entitled Prieres et Instructions Chretiennes.

SANBALLAT, the chief or governor of the Cuthites or Samaritans, was always a great enemy to the Jews. He was a native of Horon, or Horonaim, a city beyond Jordan, in the country of the Moabites. He lived in the time of Nehemials, who was his great opponent, and from whose book we learn his hittory. There is one circumstance related of him which has occafioned fome dispute among the learned; and the flate of the question is as follows: When Alexander the Great came into Phœnicia, and fat down before the city of Tyre, Sanballat quitted the interests of Darius king of Perfia, and went at the head of 8000 men to offer his fervice to Alexander. This prince readily entertained him, and being much folicited by him, gave him leave to erect a temple upon Mount Gerizim, where he constituted his fon in law Manasseh the high-priest. But this flory carries a flagrant anachronism: for 120 years before this, that is, in the year of the world 3550. Sanballat was governor of Samaria; wherefore the learned Dr Prideaux (in his Connection of the Histories of the Old and New Testament) supposes two Sanballats, and endeavours to reconcile it to truth and probability, by showing it to be a mistake of Josephus. This author makes Sanballat to flourish in the time of Darius Codomannus, and to build his temple upon Mount Sanballat, Mount Gerizim by licence from Alexander the Great; Sanchoma-whereas it was performed by leave from Darius Notho, thus, in the 15th year of his reign. This takes away

thus, in the 15th year of his reign. This takes away the difficulty arising from the great age of Sanballat, and brings him to be contemporary with Nehemiah, as

the Scripture history requires.

SANCHEZ, Frankors, called in Latin Sanclius, was of Las Brocas in Spain, and has been dignified by his own countrymen with the pompous titles of le Pere de la Langue Latine, et le Docteur de tous les Gens de lettres. He wrote, 1. An excellent retaile initied Minerva, or de Caufis Lingua Latine, which was publified at Amflerdam in 1714, in 8vo. The authors of the Port-Royal Methode de la Langue Latine have been much indebted to this work. 2. The Art of Speaking, and the Method of traflating Authors. 3. Several other learned pieces on grammar. He died in the year 1600, in his 77th year.

We mult be careful to diftinguish him from another

We must be careful to dittinguish him from another François Sancies, who died at Toulouie in 1632. This last was a Portuguese physician who settled at Toulouse, and, though a Christian, was born of Jewish parents. He is faid to have been a man of genius and a philosopher. His works have been collected under the title of Opera Medica. His junctif junt tractatur quidam philosophici non infabities. They were printed at Toulouse

in 1636.

SANCHONIATHO, a Phenician philosopher and historian, who is faid to have flourished before the Trojan war about the time of Semiramis. Of this most aucient writer, the only remains extant are fundry fragments of cofnogony, and of the history of the gods and first mortals, preferved by Eufebius and Theodoret; both of whom speak of Sanchoniatho as an accurate and faithful historian; and the former adds, that his work, which was translated by Philo-Byblius from the Phenician into the Greek language, contains many things relating to the history of the Jews which deferve great credit, both because they agree with the Jewish writers, and because they agree with the Jewish writers, and because the author received these particulars from the annals of Hierombalus, a priest of the god Jao.

Several modern writers, however, of great learning, have called in queftion the very exittence of Sanchonia-tho, and have contended with much plaufibility, that the fragments which Eufebius adopted as genuine upon the authority of Porphyry, were forged by that author, or the pretended translator Philo, from enmity to the Chrittians, and that the Pagans might have fomething to thow of equal antiquity with the books of Mofes. These opposite opinions have produced a controversy that has filled volumes, and of which our limits would hardly admit of an abstract. We shall therefore in sew words state what to us appears to be the truth, and refer then of our readers as are desirous of fuller information

to the works of the authors (A) mentioned at the bot- Sanchonistom of the page.

The controverfy respecting Sanchoniatho resolves itself into two questions: 1. Was there in reality such a writer? 2. Was he of the very remote antiquity which his translator claims for him?

That there was really fuch a writer, and that the fragments preferved by Eufebius are indeed parts of his history, interpolated perhaps by the translator (B), we are compelled to believe by the following reasons. Eufebius, who admitted them into his work as authentic. was one of the most learned men of his age, and a diligent fearcher into antiquity. His conduct at the Nicene council shows, that on every subject he thought for himself, neither biassed by authority to the one side, nor carried over by the rage of innovation to the other. He had better means than any modern writer can have of fatisfying himfelf with respect to the authenticity of a very extraordinary work, which had then but lately been translated into the Greek language, and made generally known; and there is nothing in the work itself, or at least in those parts of it which he has preserved. that could induce a wife and good man to obtrude it upon the public as genuine, had he himself suspected it to be spurious. Too many of the Christian fathers were indeed very credulous, and ready to admit the authenticity of writings without duly weighing the merits of their claim; but then fuch writings were always believed to be favourable to the Christian cause, and inimical to the cause of Paganism. That no man of common fense could suppose the cosmogony of Sanchoniatho favourable to the cause of revealed religion, a farther proof cannot be requifite than what is furnished by the following extract.

"He supposeth, or affirms, that the principles of the universe were a dark and windy air, or a wind made of dark air, and a turbulent evening chaos; and that these things were boundles, and for a long time had no bound or figure. But when this wind sell in love with his own principles, and a mixture was made, that mix-

ture was called defire or cupid ( motos).

"This mixture completed, was the beginning of the (errors;) making of all things. But that wind did not know its own production; and of this, with that wind was begotten Mot, which some call Mud, others the putter Rédition of a watery mixture. And of this came all the seed of this building, and the generation of the universe.

"But there were certain animals, which had no fenfe, out of which were begotten intelligent animals, and were called Zophefemin, that is, the fpies or overfeers of Heaven; and were formed alike in the shape of an egg. Thus shone out Mot, the sun and the moon, the less and the greater stars.

"And the air shining thoroughly with light, by its

fier

(A) Bochart, Scaliger, Voffius, Cumberland, Dodwell, Stillingfleet, Mosheim's Cudworth, and Warburton.

<sup>(</sup>a) Of these there are indeed several proofs. Philo makes Sanchoniatho speak of Bydhus as the most ancient city of Phenicia, which, in all probability, it was not. We read in the book of Judges of Berüh or Berust, the city where Sanchoniatho himself lived y but not of Byblus, which was the native city of Philo, and to which he is therefore partial. He makes him likewise talk of the Grecks at a period long before any of the Grecian states were known or probably peopled.

Sanchonia- fiery influence on the fea and earth, winds were begotten, and clouds and great defluxions of the heavenly waters. And when all these things first were parted, and were feparated from their proper place by the heat of the fun, and then all met again in the air, and dashed against one another, and were so broken to pieces; whence thunders and lightnings were made: and at the stroke of these thunders the fore-mentioned intelligent animals were awakened, and frighted with the found; and male and female ftirred in the earth and in the fea: This is their generation of animals.

" After these things our author (Sanchoniatho) goes on faying: These things are written in the Cofmogony of Taautus, and in his memoirs; and out of the conjectures, and furer natural figns which his mind faw, and found out, and wherewith he hath enlighten-

ed us.

" Afterwards declaring the names of the winds, north and fouth and the rest, he makes this epilogue. ' But these first men consecrated the plants shooting out of the earth, and judged them gods, and worshipped them; upon whom they themselves lived, and all their posterity and all before them : to thefe they made their meat and drink offerings.' Then he concludes ; ' these were the devices of worship agreeing with the weakness and want

of boldness in their minds."

Let us suppose Eusebius to have been as weak and credulous as the darkest monk in the darkest age of Europe, a supposition which no man will make who knows any thing of the writings of that eminent historian; what could he see in this senseless jargon, which even a dreaming monk would think of employing in fupport of Christianity? Eusebius calls it, and calls it truly, direct atheism; but could be imagine that an ancient lystem of atheism would contribute so much to make the Pagans of his age admit as divine revelations the books of the Old and New Testaments, that he should be induced to adopt, without examination, an impudent forgery not 200 years old as genuine remains of the most remote antiquity ?

If this Phenician cosmogony be a fabrication of Porphyry, or of the pretended translator, it must furely have been fabricated for some purpose; but it is impossible for us to conceive what purpole either of these writers could have intended to ferve by forging a fystem so extravagantly abfurd. Porphyry, though an enemy to the Christians, was not an atheist, and would never have thought of making an atheist of him whom he meant to obtrude upon the world as the rival of Moles. His own principles were those of the Alexandrian Platonists; and had he been the forger of the works which bear the name of Sanchoniatho, inflead of the incomprehenfible jargon about dark wind, evening chaos, Mot, the overfeers of heaven in the shape of an egg, and animation proceeding from the found of thunder, we should doubtless have been amused with refined speculations concerning the operations of the Demiurgus and the other persons in the Platonic Triad. See PLATONISM and PORPHY-

Father Simon of the eratory imagines \* that the purpose for which the history of Sanchoniatho was forged, was to support Paganism, by taking from it its mythology and allegories, which were perpetually objected to it by the Christian writers; but this learned man totally mistakes the matter. The primitive Chri-

stians were too much attached to allegories themselves Sanchoniato rest their objections to Paganism on such a founda-, tho. tion: what they objected to that fystem was the immoral flories told of the priefts. To this the Pagan priefts and philosophers replied, that these stories were only muthologie allegories, which veiled all the great truths of Theology, Ethics, and Physics. The Christians faid. this could not be; for that the stories of the gods had a substantial foundation in fact, these gods being only dead men deified, who, in life, had like patitions and infirmities with other mortals. This then was the objection which the forger of the works of Sanchoniatho had to remove, if he really forged them in support of Paganism; but, instead of doing so, he gives the genealogy and history of all the greater gods, and shows, that they were men deified after death for the exploits, some of them grossly immoral, which they had performed in this world. We have elsewhere (POLYTHEISM, No 17.) given his account of the deification of Chryfor, and Ouranos, and Ge, and Hupfiffes, and Muth; but our readers may not perhaps be ill pleased to accompany him through the history of Ouranos and Cronus, two of his greatest gods; whence it will appear how little his writings are calculated to support the tottering cause of Paganism against the objections which were then urged to it by the Christian apologists.

" Ouranos (fays he), taking the kingdom of his father, married Ge his fifter, and by her had four fons; Ilus, who is called Cronus; Betylus; Dagon, who is Siton, or the god of corn; and Atlas. But by other wives Ouranos had much issue, wherefore Ge being grieved at it and jealous, reproached Ouranos, fo as they parted from each other. But Ouranos, though he parted from her, yet by force invading her, and lying with her when he lifted, went away again; and he also attempted to kill the children he had by her. Ge also often defended or avenged herfelf, gathering auxiliary powers unto her. But when Cronus came to man's age, using Hermes Trifmegiftus as his counsellor and affiftant (for he was his (ccretary), he opposed his father Ouranos, avenging his mother. But Cronus had children, Perfephone and Athena; the former died a virgin, but by the counsel of the latter Athena, and of Hermes, Cronus made of iron a scimitar and a spear. Then Hermes, speaking to the affistants of Cronus with enchanting words, wrought in them a keen defire to fight against Ouranos in the behalf of Ge; and thus Cronus warring against Ouranos, drove him out of his kingdom, and fucceeded in the imperial power or office. In the fight was taken a well-beloved concubine of Outanos big with child. Cronus gave her in marriage to Dagon, and the brought forth at his house what the had in her womb by Ouranos, and called him Demaro in. After these things Cronus builds a wall round about his house, and founds Byblus the first city in Phenicia. Afterwards Cronus, suspecting his own brother Atlas. with the advice of Hermes, throwing him into a deep hole of the earth, there buried him, and having a lon called Sadid, he dispatched him with his own sword, having a suspicion of him, and deprived his own son of life with his own hand. He also cut off the head of his own daughter, fo that all the gods were amazed at the mind of Cronus. But in process of time, Ouranos being in flight, or banishment, fends his daughter Aflarte, with two other fislers Rhea and Dione, to cub

\* Bib. Crit 140.

Sanchonia- off Cronus by deceit, whon Cronus taking, made wives of these fisters. Ouranos, understanding this, sent Eimarmene and Hore, Fate and Beauty, with other auxiliaries, to war against him: but Cronus, having gained the affections of these also, kept them with himself. Moreover, the god Ouranos deviled Batulia, contriving frones that moved as having life. But Cronus begat on Aftarte seven daughters called Titanides or Artemides; and he begat on Rhea feven fons, the youngest of whom, as foon as he was born, was confecrated a god. Also by Dione he had daughters, and by Atlarte moreover two fons, Pothos and Eros, i. e. Cupid and Love. But Dagon, after he had found out bread, corn, and the plough, was called Zeus Arotrius. To Suduc, or the just, one of the Titanides bare Aselepius. Cronus had also in Perasa three sons, 1. Cronus his father's namefake. 2. Zeus Belus. 3. Apollo."

Is it conceivable, that a writer fo acute as Porphyry, or indeed that any man of common fenfe, either in his age or in that of Philo, would forge a book filled with fuch stories as these, in order to remove the Christian objections to the immoral characters of the Pagan divinities? The very supposition is impossible to be made, Nor let any one imagine that Sanchoniatho is here writing allegorically, and by his tales of Ouranos, and Ge and Cronus, is only personifying the heaven, the earth, and time. On the contrary, he affures us, that Ouranos, or Epigeus, or Autochthon (for he gives him all these names) was the fun of one Eliaun or Hupfillos, who dwelt about Byblus, and that from him the element which is over us was called heaven, on account of its excellent beauty, as the earth was named Ge after \* Apud Eu. his fifter and wife, And his translator is very angry \* feb Prap. with the Neotoric Greeks, as he calls them, because that, "by a great deal of force and straining, they lalib. i. cap. 6. boured to turn all the stories of the gods into allegories

and physical discourses." This proves unanswerably, that the author of this book, whoever he was, did not mean to veil the great truths of religion under the cloak of mythologic allegories; and therefore, if it was forged by Porphyry in support of Paganism, the forger so far mistook the state of the question between him and his adverfaries, that he contrived a book, which, if admitted to be ancient, totally overthrew his own cause.

The next thing to be inquired into with respect to Sanchoniatho is his antiquity. Did he really live and write at so early a period as Porphyry and Philo pretend? We think he did not; and what contributes not a little to confirm us in our opinion, is that mark of national vanity and partiality, common to after times, in making the facred mysleries of his own country original, and conveyed from Phenicia into Egypt. This, however, furnishes an additional proof that Porphyry was not the forger of the work ; for he well knew that the mysteries had their origin in Egypt (see Mysteries), and would not have fallen into fuch a blunder. He is guilty, indeed, of a very great anachronism, when he makes Sanchoniatho contemporary with Semiramis, and yet pretends that what he writes of the Jews is compiled from the records of Hierombalus the prieft of the god Jao; for Bochart has made it appear in the highest degree probable +, that Hierombalus or Jeromb baal is the Jerub-baal or Gideon of Scripture.

Between the reign of Semiramis and the Trojan war 2. cap. 17. a period elapfed of near 800 years, whereas Gideon flourished not above seventy years before the destruction of Sanchonia-Troy. But supposing Sanchoniatho to have really confulted the records of Gideon, it by no means follows cient thing, while our best chronologers I place it in & Scalizer.

that he flourished at the same period with that judge of Ifrael. He speaks of the building of Tyre as an anthe time of Gideon. Indeed, were we certain that any writings had been left by that holy man, we should be obliged to conclude, that a large tract of time had intervened between the death of their author and their falling into the hands of Sanchoniatho; for, furely, they could not, in a short period, have been so completely corrupted as to give any countenance to his impious abfurdities. His atheistic cosmogony he does not indeed pretend to have got from the annals of the priest of Jao, but from records which were deposited in his own town of Berytus by Thoth a Phenician philosopher, who was afterwards made king of Egypt. But furely the annals of Gideon, if written by himfelf. and preserved pure to the days of Sanchoniatho, must have contained fo many truths of the Mofaic religion. as must have prevented any man of sense from adopting fo impossible a theory as Thoth's, though fanctioned by the greatest name of profane antiquity. Stillingsleet indeed thinks it most probable that Sanchoniatho became acquainted with the most remarkable passages of the life of Jerub-baal from annals written by a Phenician pen. He observes, that immediately after the death of Gideon, the Ifraelites, with their usual proneness to idulatry, worshipped Baal-berith, or the idol of Berytus, the town in which Sanchoniatho lived; and from this circumstance he concludes that there must have been fuch an intercourse between the Hebrews and Berytians. that in process of time the latter people might assume to themselves the Jerub-baal of the former, and hand down his actions to posterity as those of a priest inflead of a great commander. All this may be true; but if fo, it amounts to a demonstration that the antiquity of Sanchoniatho is not fo high by many ages as that which is claimed for him by Philo and Porphyry, though he may still he more ancient, as we think Vostire or in fragments.

fins has proved him to be \*, than any other profane hi- \* no Hill storian whose writings have come down to us either en- Gree. lib. 1.

But granting the authenticity of Sanchoniatho's hiftory, what, it may be asked, is the value of his fragments, that we should be at any trouble to ascertain whether they be genuine remains of high antiquity, or the forgeries of a modern impostor? We answer, with the illustrious Stillingsleet, that though these fragments contain such absurdities as it would be a disgrace to reafon to fuppose credible; though the whole cosmogony is the groffest fink of atheism; and though many persons make a figure in the history, whose very existence may well be doubted; yet we, who have in our hands the light of divine revelation, may in this dungeon discover many excellent relicks of ancient tradition, which throw no feeble light upon many passages of holy scripture, as they give us the origin and progress of that idolatry which was fo long the opprobrium of human nature. They furnish too a complete refutation of the extravagant chronology of the Chaldeans and Egyptians, and fliow, if they be genuine, that the world is indeed not older than it is faid to be by Mofes. We shall conclude the article by earneftly recommending to our

+ Geogra Sac. p. 2.

readers

Sancrift readers an attentive perufal of Cumberland's SANGHO-

SANCROFT, WILLIAM, archbifhop of Canterbury, was born at Freingfield in Suffolk in 1616; and admitted into Emanuel college, Cambridge, in 1633. In 16.12 he was elected a fellow; and, for refuting to take the covenant, was ejected from his fellowthip. In 1660 he was chosen one of the university preachers; and in 1663 was nominated to the deanry of York. In 1664 he was installed dean of St Paul's. In this station he fet himself with unwearied diligence to repair the cathedral, till the fire of London in 1666 employed his thoughts on the more noble undertaking of rebuilding it, toward which he gave 1400l. He also rebuilt the deanry, and improved its revenue. In 1668 he was admitted archdeacon of Canterbury, on the king's prefentation. In 1677, being now prolocutor of the convocation, he was unexpectedly advanced to the archbishopric of Canterbury. In 1687 he was committed to the tower, with fix other bithops, for prefenting a petition to the king against reading the declaration of indulgence. Upon King James II.'s withdrawing himfelf, he concurred with the lords in a declaration to the prince of Orange for a free parliament, and due indulgence to the Protestant diffenters. But when that prince and his confort were declared king and queen, his grace refuling to take the oath to their majesties, he was fuspended and deprived .- He lived in a very private manner till his death in 1693. His learning, integrity, and piety, made him an exalted ornament of the church. He published a volume in 12mo, intitled Modern Politics, taken from Machiavel, Borgia, and other felect authors; Familiar Letters to Mr North, an 8vo pamphlet; and three of his fermons were printed together after his death.

SANCTIFICATION, the act of fanctifying, or rendering a thing holy. The reformed divines define indiffication to be an act of God's grace, by which a person's desires and affections are alienated from the world; and by which he is made to die to sin, and to live to rightesumbes; or, in other words, to feel an abhorrence of all vice, and a love of religion and

SANCTION, the authority given to a judicial act,

by which it becomes legal and authentic.

SANCTORIUS, or Sanctorio, a most ingenious and learned physician, was professor in the university of Padua, in the leginning of the 17th century. He contrived a kind or statical chair, by means of which, after climating the aliments received, and the sensible dicharges, he was enabled to determine with great exactants the quantity of insensible perspiration, as well as what kind of victuals and drink increased or diminished it. On these experiments he crested a curious system, which he published under the title of De Medicina Statica; which is translated into English by Dr Quincy. Sanctorius published feereal other treatifes, which shewed great abilities and learning.

SANCTUARY, among the Jews, also called Sanctum faultorum, or Holy of holies, was the holiest and most retired part of the temple of Jerusalem, in which the ark of the covenant was preferred, and into which none but the high-priest was allowed to enter, and that only once a year, to intercede for the people.

Some dillinguish the fanctuary from the fanctum fanc-

torum, and maintain that the whole temple was called Sanduary, the fanctuary.

To try and examine any thing by the weight of the fandtuary, is to examine it by a juft and equal feale; because, among the Jews, it was the exitom of the pricis to keep flone weights, to ferve as flandards for regulating all weights by, though these were not at all different from the royal or profine weights.

SANCTUARY, in the Romith church, is also used for that part of the church in which the altar is placed, en-

compassed with a rail or ballustrade.

SANCTUARY, in our ancient customs, the fame with

ASYLUM.

SAND, in Natural History, properly denotes small particles of filiceous flories. Sands are ful ject to be variously blended, both with different substances, as that of talks, &c.; and hence, as well as from their various colours, are fubdivided into, 1. White fands, whether pure or mixed with other arenaceous or heterogeneous particles; of all which there are feveral kinds, differing no less in the fineness of their particles than in the different degrees of colour, from a bright and thining white, to a brownish, yellowish, greenish, &c. white. 2. The red and reddift fands, both pure and impure. 3. The yellow fands, whether pure or mixed, are also very numerous. 4. The brown fands, distinguished in the same manner. 5. The black sands, of which there are only two varieties, viz. a fine thining greyith black fand, and another of a fine thining reddiffi-black colour, 6. The green kind; of which there is only one known species, viz. a coarse variegated dusky green fand, common in Virginia.

Sand is of great use in the glass manufacture; a white kind of fand being employed for making of the white glass, and a coarse greenish-looking fand for the

green glaf

In agriculture it feems to be the office of fand to render unctuous or clayey earths fertile, and fit to support vegetables, by making them more open and loofe.

SAND-Bags, in the art of war. See SACKS of

Sand-EEL. See AMMODYTES, ICHTHYOLOGY In-

SAND-Floods, a name given to the motion of tand for common in the deferts of Arabia. Mr Bruce gives the following accurate description of some that he faw in travelling through that long and dreary defert. " At one o'clock (fays he) we alighted among fome acacia trees at Waadi el Halboub, having gone twenty-one miles. We were here at once furprifed and terrified by a fight furely one of the most magnificent in the world. In that valt expanse of desert from west and to northwest of us, we saw a number of prodigious pillars of sand nt different diffances, at times moving with great celerity, at others stalking on with a majestic slowness: at intervals we thought they were coming in a few minutes to overwhelm us; and small quantities of fand did actually more than once reach us. Again they would retreat fo as to be almost out of fight, their tops reaching to the very clouds. There the tops often separated from the bodies; and these, once disjoined, dispersed in the air, and did not appear more. Sometimes they were broken near the middle, as if flruck with a large cannon flot. About noon they began to advance with confiderable fivifiness upon us, the wind being very flrong firong at north. Eleven of them ranged alonglide of us about the diffance of three miles. The greateft diameter of the largeti appeared to me at that diffance as if it would measure ten feet. They retired from us with a wind at fouth-east, leaving an impression upon my mind to which I can give no name, though furely one ingredient in it was fear, with a considerable deal of wonder and assonishment. It was in vain to think of sying, the swiftest horse or fastest failing ship could be of no use to carry us out of this danger; and the full persuasion of this rivetted me as if to the spot where I stood, and let the camels gain on me so much in my state of lameness, that it was with some difficulty I could

overtake them. "The fame appearance of moving pillars of fand prefented themselves to us this day in form and disposition like those we had seen at Waadi Halboub, only they feemed to be more in number and less in fize. They came feveral times in a direction close upon us, that is, I believe, within less than two miles. They began immediately after funrife, like a thick wood, and almost darkened the fun; his rays thining through them for near an hour, gave them an appearance of pillars of fire. Our people now became desperate; the Greek shrieked out, and faid it was the day of judgement. Ifmael pronounced it to be hell, and the Tucorories, that the world was on fire. I asked Idris if ever he had before feen fuch a fight? He faid he had often feen them as terrible, though never worfe; but what he feared most was that extreme redness in the air, which was a fure prefage of the coming of the fimoom." See SIMOOM.

The flowing of fand, though far from being fo tremendous and hurtful as in Arabia, is of very bad confequences in this country, as many valuable pieces of land have thus been entirely loft; of which we give the following inflances from Mr Pennant, together with a probable means of preventing them in future. " I have more than once (fays he), on the eastern coasts of Scotland, observed the calamitous state of several extensive tracts, formerly in a most flourishing condition, at present covered with fands, unflable as those of the deferts of Arabia. The parish of Furvie, in the county of Aberdeen, is now reduced to two farms, and above gool, a year loft to the Errol family, as appears by the oath of the factor in 1600, made before the court of fession, to ascertain the minister's salary. Not a vestige is to be seen of any buildings, unless a fragment of the

"The eflate of Coubin, near Forres, is another melancholy inflance. This tract was once worth 3001. a-year, at this time overwhelmed with fand. This ftrange inundation was fill in motion in 1769, chiefly when a ftrong wind prevailed. Its motion is fo rapid, that I have been affured, that an apple-tree has been fo covered with it in one feafon, that only the very fumit appeared. This ditred was brought on about ninety years ago, and was occasioned by the cutting down tome trees, and pulling up the bent or flar which grew on the fand-hills; which at last gave rife to the act of 15 George III. c. 33. to prohibit the destruction of this infelint plant.

"I beg leave to fuggeft to the public a possible means of putting a stop to these destructive ravages. Providence hath kindly formed this plant to grow only in pure sand. Mankind was left to make, in after-times, an application of it fuitable to their wants. The fand, bills, on a portion of the Flintthire thores, in the parith Sands of Llandfa, are covered with it naturally, and kept firm in their place. The Dutch perhaps owe the exiltence of part at leaff of their country to the fowing of it on the mobile folum, their fand-banks.

" My humane and amiable friend, the late Benjamin Stillingfleet, Efq. recommended the fowing of this plant on the fandy wilds of Norfolk, that its matted roots might prevent the deluges of fand which that country experiences. It has been already remarked. that wherefoever this plant grows the falutary effects are foon observed to follow. A fingle plant will fix the fand, and gather it into a hillock; these hillocks. by the increase of vegetation, are formed into larger, till by degrees a barrier is made often against the encroachments of the fea; and might as often prove preventative of the calamity in question. I cannot, therefore, but recommend the trial to the inhabitants of many parts of North Britain. The plant grows in most places near the fea, and is known to the Highlanders by the name of murah; to the English by that of bentflar, mat-grafs, or marram, Linnaus calls it arundo arenaria. The Dutch call it helm. This plant hath fliff and sharp pointed leaves, growing like a rush, a foot and a half long: the roots both creep and penetrate deeply into their fandy beds; the ftalk bears an ear five or fix inches long, not unlike rye; the feeds are fmall, brown, and roundish. By good fortune, as old Gerard observes, no cattle will eat or touch this vegetable, allotted for other purpoles, subservient to the use of mankind,"

SAND-Piper. See TRINGA, ORNITHOLOGY Index. SAND-Stone, a compound frome of which there are numerous varieties, arising not only from a difference of external appearance, but also in the nature and proportions of the conflituent parts. See GEOLOGY Index.

There is a fingular variety of fand-flone, which conflits of fmall grains of hard quartz which flrike fire with fleel united with fome micaceous particles. This variety is flexible and claftic, the flexibility depending on the micaceous part and fortness of the gluten with which the particles are cemented. This elaftic flone is brought from Brazil. There are also two tables of white marble, kept in the palace of Borghese at Rome, which have the same property. But the sparry particles of their bublance, though transparent, are rather fort, and may be easily separated by the nail. They effervesce with acids, and there is a small mixture of minute particles of talk or mica.

Sand-stones are of great use in buildings which are required to resist air, water, and fire. Some of them are fost in the quarry, but become heard when exposed to the air. The loose ones are most useful, but the solid and hard ones crack in the fire, and take a positi when used as grindstones. Stones of this kind ought therefore to be nicely examined before they are employed for valuable nurposes.

SANDAL, in antiquity, a rich kind of flipper worn on the feet by the Greek and Roman ladies, made of gold, filk, or other precious fluff; confifting of a fole, with an hollow at one extreme to embrace the ancle, but leaving the upper part of the foot bare.

SANDAL, is also used for a shoe or slipper worn by the pope and other Romish prelates when they officiate.

Sandarach. It is also the name of a fort of flipper worn by feveral congregations of reformed monks. This last confifts of no more than a mere leathern fole, fadened with latches or buckles, all the rest of the foot being left bare. The Capuchins wear fandals; the Recollects, clogs; the former are of leather, and the latter of

SANDAL-Wood. See SAUNDERS.

SANDARACH, in Natural History, a very beautiful native fossil, though too often consounded with the common facilitious red arfenic, and with the red matter formed by melting the common yellow orpiment.

It is a pure fubliance, of a very even and regular fructure, is throughout of that colour which our dyers term an orange fearlet, and is confiderably transparent even in the thickelt pieces. But though, with respect to colour, it has the advantage of cinnabar while in the mass, it is vally inferior to it when both are reduced to powder. It is moderately hard, and remarkably heavy; and, when exposed to a moderate heat, melts and slows like oil: if set on fire, it burns very briskly.

It is found in Saxony and Bohemia, in the copper and filter mines; and is fold to the painters, who find it a very fine and valuable red: but its virtues or qualities in medicine are no more afcertained at this time

than those of the yellow orpiment.

Gum-SANDARACH, is a dry hard refin, usually in the form of loofe granules, of the fize of a pea, a horie-bean, or larger; of a pale whitish yellow colour, transparent, and of a refinous fmell, brittle, very inflammable, of an acrid and aromatic tafte, and diffusing a very pleafant fmell when burning. It was long the prevailing opinion that this gum was obtained from the juniperus communis; but this plant does not grow in Africa, in which country only fundarach is produced; for the gum fandarach of the thops is brought from the fouthern provinces of the kingdom of Morocco. About fix or feven Santa Cruz, Moga, r, and Saffy. In the lai guage of the country it is care el grada. The tree which produces it is a Thuia, found allo by M. Vahl in the kingdom of Tunis. It was m de known feveral years ago by Dr S' w, who sand it Cypreffus fructu quadrivalvi, Equifeti inflar articu ti ; but neither of the le learned men was acquair ted with the economical use of this tree; probably b cause, eing not common in the northern part of B rharv, the inhabit, nts si d little advantage

M. Schoubbe (A), who faw the species of thina in question, favs that it does not rike to more than the height of 20 or 30 feet at most, and the title ultimeter of its trunk does not exceed ten or twelve inches. It distinguishes titleft, on the first view, from the two other species of the same genus, cultivated in gardens, by having a very difficult trunk, and the figure of a real tree; whereas in the latter the brunches use from the root, which gives them the appearance rather of business. Its branches also are more entire latt and brittle. Its showers, which are not very apparent, shew themselves

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in April; and the fruit, which are of a spherical form, Sindarach ripen in September. When a branch of this tree is held to the light, it appears to be interspersed with a multitude of transparent vesicles which contain the refine. When these vesicles burt in the fummer months, a resinous juice exudes from the trunk and branches, as is the case in other coniferous trees. This resin is the fandarach, which is collected by the inhabitants of the country, and carried to the ports, from which it is transported to Europe. It is employed in making some kinds of sealing-wax, and in different forts of warnith. In 1793 a hundred weight of it coll in Morocco semments of the ports, the sealing wax is the sealing wax. The duty on experitation was about 75. 64. sterling. The duty on experitation was about 75. 64. sterling or quintal.

Sandarach, to be good, must be of a bright yellow colour, pure and transparent. It is an article very difficult to be adulterated. Care, however, must be taken, that the Moors do not mix with it too much fand. It is probable that a tree of the fame kind produces the gum fandarach of Senegal, which is exported in pretty co-

liderable quantities

Pounded SANDARACH. See POUNCE.

SANDEMANIANS, in ecclefiaffical history, a modern fect that originated in Scotland about the year 1728; where it is at this time distinguished by the nonof Glaffiter, after its founder Mr John Glafs, who was a minister of the established church in that kingdom; but covenant, and fapping the foundation of all national establishments by the kirk judicatory, was expelled by the fynod from the church of Scotland. His fentiments intitled, " The Testimony of the King of Martyr." fequence of Mr Glass's expulsion, his adherents formed of the first churches recorded in the New Testam. It. Soon after the year 1755, Mr Robert Sandewan, un feries of letters addressed to Mr Hervey, occasioned by his Theron and Afpafis; in which he endeavours to flow, that his notion of faith is contradictory to the feripture account of it, and could only ferve to lead men, professedly holding the decrines commonly called Calvinific, to establish their own righteousness upon their frames, inward feelings, and various acts of faith. In these letters Mr Sandeman attempts to prove, that faith is neither more nor less than a simple affent to the divine testimony concerning Jesus Christ, recorded in t'.e New Tellament; and he maintains, that the word perfusion of the truth of any proposition, and that there is no difference between be leving any common telemo-This led the way to a controverly, among those who were c led Cai. i is, cone ming the nature of justify ing frish; and those who adopted Mr Sandeman's no

Sandemani tion of it, and who took the denomination of Sandemanians, formed themselves into church order, in strict fellowikip with the churches in Scotland, but holding no kind of communion with other churches. The chief reginions and practices in which this feet differs from other Christians, are, their weekly administration of the Lord's Supper; their love-feafts, of which every member is not only allowed but required to partake, and which confill of their dining together at each others houses in the interval between the morning and aftermeen fervice; their kifs of charity used on this occasion, at the adminf on of a new member, and at other times, when they deem it to be necessary or proper; their weekly collection before the Lord's Supper, for the fupport of the poor, and defraying other expences; mutual exhor ation; abstinence from blood and things strangled; washing each other's feet, the precept concerning which, as well as other piecepte, they understand literally; community of goods, so far as that every one is to confider all that he has in his possession and power as Table to the calls of the poor and church; and the unlawfulness of laying up treasures on earth, by setting them apart for any distant, future, and uncertain use. They allow of public and private diversions, so far as they are not connected with circumftances really finful; but apprehending a lot to be facred, disapprove of playing at cards, dice, &cc. They maintain a plurality of elders, pastors, or bishops, in each church; and the necessity of the presence of two elders in every act of discipline, and at the administration of the Lord's Supper. In the choice of these elders, want of learning, and engagements in trade, &cc. are no sufficient objection; but second marriages difqualify for the office; and they are ordained by prayer and falling, imposition of hands, and giving the right hand of fellowship. In their discipline they are firid and fevere; and think themfelves obliged to separate from the communion and worship of all such religious societies as appear to them not to profess the fimple truth for their only ground of hope, and who do not walk in obedience to it. We thall only add, that in every church transaction, they effects unanimity to be absolutely necessary. From this abstract of the account which they have published of their tenets and practices, it does not feem to be probable that their

number should be very considerable. SANDERS, a dye wood. See SAUNDERS. SANDIVER, an old name for a whitish substance

which is thrown up from the metal, as it is called, of which glass is made; and, swimming on its surface, is

Sandiver is also plentifully ejected from volcances; fome is of a fine white, and others tinged bluish or yel-

Sandiver is faid to be detergent, and good for foulneffes of the skin. It is also used by gilders of iron. SANDIX, a kind of minium, or red lead, made of

cerufe, but much inferior to the true minium.

SANDOMIR, a city, the capital of a palatinate of the same name, in L'ttle Poland, on the Vistula. The Swedes bles, up the calle in 1676; and here, in 1659, was a dre. and bettle bett cen the Tartars and Ruffians. It is 94 miles fouth-east of Cracow. Lat. 49. 26.

SANDORICUM, a genus of plants belonging to the

decandria class; and in the natural method ranking un- Sandru der the 23d order, Trihilatæ. See BOTANY Index.

SANDPU, or Sanpoo, the vulgar name of a river in the East Indies, which is one of the largest in the world; but it is better known by that of Burramposter. Of this most majestic body of waters we have the following very animated account in Maurice's Indian Antiquities. " An object equally novel and grand now claims our attention; fo novel, as not to have been known to Europeans in the real extent of its magnificence before year 1765, and fo awfully grand, that the aftonished geographer, thinking the language of profe inadequate to convey his conception, has had recourse to the more expressive and energetic language of poetry;

- Scarce the Mufe herfelf Dares stretch her wing o'er this enormous mass Of rushing waters; to whose dread expanse, Continuous depth, and wond'rous length of courfe. Our floods are rills.

" This flupendous object is the Burrampooter, a word which in Shanfcrit fignifes the fon of Brahma; for no meaner origin could be affigued to fo wonderful a progeny. This fupreme monarch of Indian rivers derives its fource from the opposite fide of the same mountain from which the Ganges springs, and taking a bold sweep towards the east, in a line directly opposite to the course of that river, washes the vast country of Tibet, where, by way of diffinction, it is denominated Sanpoc, or the river. Winding with a rapid current through Tibet, and, for many a league, amidit dreary deferts and regions remote from the habitations of men, it waters the borders of the territory of Lasfa, the residence of the grand Lama; and then deviating with a cometary irregularity, from an east to a fouth-east course, the mighty wenderer approaches within 200 miles of the western frontiers of the vast empire of China. From this point its more direct path to the ocean lay through the gulf of Siam; but with a defultory course peculiar to itself, it suddenly turns to the west through Assam, and enters Bengal on the north-east quarter. Circling round the western point of the Garrow mountains, the Burrampooter now takes a fouthern direction; and for 60 miles before it meets the Ganges, its fifter in point of origin, but not its rival in point of magnitude, glides majestically along in a stream which, is regularly from four to five miles wide, and but for its freshness, Mr Rennel fays, might pals for an arm of the fea. About 40 miles from the ocean these mighty rivers unite their fireams; but that gentleman is of opinion that their junction was formerly higher up, and that the accumulation of two fuch vast bodies of water, scooped out the amazing bed of the Riegna lake. Their prefent conflux is below Luckipcor; and by that confluence a body of fresh running water is produced, hardly equalled, and not exceeded, either in the old or the new hemisphere, So stupendous is that body of water, that it has formed a gulf of fuch extent as to contain islands that rival our lile of Wight in fize and fertility; and with fuch refiftless violence does it rush into the ocean, that in the rainy feafon the fea itfelf, or at least its furface, is perfeetly fresh for many leagues out."

SANDS, GOCDWIN, or Godwin, are dangerous fand

Sandwich banks lying off the coast of Kent in England. See fine open countenances; and the women in particular Sandwich

SANDWICH, a town of Kent, and one of the cinque ports, having the title of an earldom. It confifts of about 1500 houses, most of them old, and built with wood, though there are a few new ones built with brick and flints. It has three long narrow ffreets paved, and thirty cross-ffreets or alleys, with about 6000 inhabi-The town is tants, but no particular manufactory. walled round, and also fortified with ditches and ramparts; but the walls are much decayed, on account of the harbour being fo choked up with fand that a thip of 100 tons burthen cannot get in. E. Long. 1. 20.

N. Lat. 51, 20.

SANDIVICH Islands, a group of islands in the South fea, lying near New Ireland, were among the last discoveries of Captain Cook, who fo named them in honour of the earl of Sandwich, under whose administration these discoveries were made. They confist of 11 islands, extending in latitude from 18. 54. to 22. 15. N. and in longitude from 150.54. to 160.24. W. They are called by the natives, OWHYHEE, MOWEE, RANAI, Morotoi, TAHOOROWA, WOAHOO, ATOOI, Necheeheow, Orechona, Morotinne, and TAHOORA, all inhabited except the two last. An account of the most remarkable of which will be found in their alphabetical order, in their proper places in this work. The climate of thefe islands differs very little from that of the West Indies in the same latitude, though perhaps more temperate; and there are no traces of those violent winds and hurricanes. which render the flormy months in the West Indies so dreadful. There is also more rain at the Sandwich ifles, where the mountainous parts being generally enveloped in a cloud, fuccessive showers fall in the inland parts, with fine weather, and a clear fky, on the fea thore. Hence it is, that few of those inconveniences, to which many tropical countries are fubject, either from heat or moisture, are experienced here. The winds, in the winter months, are generally from east fouth-east to north-east. The vegetable productions are nearly the fame as those of the other islands in this ocean; but the tare root is here of a fuperior quality. The bread-fruit trees thrive not in such abundance as in the rich plains of Otaheite, but produce double the quantity of fruit. The fugar-canes are of a very unufual fize, fome of them measuring 11 inches and a quarter in circumference, and having 14 feet eatable. There is also a root of a brown colour, shaped like a yam, and from fix to ten pounds in weight, the juice of which is very fweet, of a pleafant tafte, and is an excellent substitute for sugar. quadrupeds are confined to the three usual forts, hogs, dogs, and rats. The fowls are also of the common fort; and the birds are beautiful and numerous, though not various. Goats, pigs, and European feeds, were left by Captain Cook; but the poffession of the goats foon gave rife to a contest between two districts, in which the breed was entirely destroyed. The inhabitants are undoubtedly of the same race that possesses the islands fourh of the equator; and in their persons, language, customs, and manners, approach nearer to the New Zealanders than to their less distant neighbours, either of the Society or Friendly Islands. They are in general about the middle fize, and well made; they walk very gracefully, run nimbly, and are capable of bearing very great fatigue. Many of both fexes have

have good eyes and teeth, with a sweetness and fensibility of look, that render them very engaging. There is one peculiarity, characteristic of every part of these islands, that even in the handlomest faces there is a fulness of the nestril, without any flatness or spreading of the nofe. They fuffer their beards to grow, and wear their hair after various fashions. The dress of both men and women nearly resemble those of New Zealand, and both fexes wear necklaces of small variegated shells. Tattowing the body is practifed by every colony of this nation. The hands and arms of the women are also very neatly marked, and they have the fingular cuftom of tattowing the tip of the tongue. Like the New Zealanders, they have adopted the method of living together in villages, containing from 100 to 200 houles, built pretty closely together, without any order, and having a winding path between them. They are generally flanked, towards the fea, with detached walls, which are meant both for shelter and defence. These walls confift of loose flones, and the inhabitants are very dexterous in shifting them suddenly to such places as the direction of the attack may require. In the fides of the hills, or furrounding eminences, they have also little holes, or caves, the entrance to which is also secured by a fence of the same kind. They serve for places of retreat in cases of extremity, and may be defended by a fingle person against several affailants. Their houses are of different fizes, some of them being large and commodious, from 40 to 50 feet long, and from 20 to 30 broad; while others are mere hovels. The food of the lower class confifts principally of fish and vegetables, to which the people of higher rank add the flesh of dogs The manner of fpending their time admits of little variety. They rife with the fun, and, after enjoying the cool of the evening, retire to reft, a few hours after funfet. The making of canoes, mats, &c. forms the occupations of the men; the women are employed in manufacturing cloth, and the servants are principally engaged in the plantations and fishing. Their idle hours are filled up with various amusements, such as dancing, boxing, wrefiling, &c. Their agriculture and navigation bear a great refemblance to those of the Southfea islands. Their plantations, which are spread over the whole fea coast, consist of the taro, or eddy-root, and fweet potatoes, with plants of the eloth-trees fet in rows. The bottoms of their canoes are of a fingle piece of wood, hollowed out to the thickness of an inch, and brought to a point at each end. The fides confift of three hoards, each about an inch thick, neatly fitted and lashed to the bottom part. Some of their double canoes measure 70 feet in length, three and a half in depth, and twelve in breadth. Their cordage, fishhooks, and filling tackle, differ but little from those of the other islands. Among their arts must not be forgotten that of making falt, which they have in great ahundance, and of a good quality. Their instruments of war are spears, daggers, clubs, and flings; and for defenfive armour they wear strong mats, which are not easily penetrated by fuch weapons as theirs. As the islands are not united under one fovereign, wars are frequent among them, which, no doubt, contribute greatly to reduce the number of inhabitants, which, according to the proportion affigued to each ifland, does not exceed 400,000. The fame fystem of subordination prevails

3 Q 2

Sa wich here as at the other iflands, the fame abfolute authority on the part of the chiefs, and the same unresisting sub-Saretana mission on the part of the people. The government is likewise monarchical and hereditary. At Owhyhee there is a regular fociety of priests living by themselves, and diffinct in all respects from the rest of the people. Human facrifices are here frequent; not only at the commencement of a war, or any fignal enterprife, but the death of every confiderable chief calls for a repetition of these horrid rites. Notwithstanding the irreparable lofs in the death of Captain Cook, who was here murdered through fudden refentment and violence, they are acknowledged to be of the most mild and affectionate disposition. They live in the utmost harmony and friendship with each other; and in hospitality to strangers they are not exceeded even by the inhabitants of the Friendly Islands. Their natural capacity feems, in no respect, below the common standard of mankind; and their improvements in agriculture, and the perfection of their manufactures, are certainly adequate to the circumstances of their fituation, and the natural advantages which they enjoy.

SANDYS, SIR EDWIN, second fon of Dr Edwin Sandys archbishop of York, was born about 1561, and educated at Oxford under Mr Richard Hooker, author of the Ecclefiastical Polity. In 1581 he was collated to a prebend in the cathedral of York. He travelled into foreign countries; and, upon his return, grew famous for learning, prudence, and virtue. While he was at Paris, he drew up a tract, published under the title of Europæ Speculum. In 1622, he refigned his prebend; and, the year following, was knighted by King James I. who employed him in feveral important affairs. He was dexterous in any great employment, and a good patriot. However, opposing the court with vigour in the parliament held in 1621, he, with Mr Selden, was committed to cuftody for a month. He died in 1620, having bequeathed 1 sool, to the university of Oxford, for the en-

dowment of a metaphyfical lecture. SANDYS, George, brother of the foregoing Sir Edwin, and youngest son of Archbishop Sandys, was born in 1577. He was a very accomplished man; tra-velled over several parts of Europe and the East; and published a relation of his journey in folio, in 1615. He made an elegant translation of Ovid's Metamorpholes; and compoled some poetical pieces of his own, that were greatly admired in the times of their being written. He also paraphrased the Psalms; and has left behind him a Translation, with Notes, of one Sacred Drama written originally by Grotius, under the and Mafenius, is founded Lauder's impudent charge of plagiaritm against our immortal Miton. Our author

SAN FERNANDO, near the entrance of the Golfo Dolce, in 15 degrees 18 minutes north latitude, has bay-men. It is a very good hashour, with lafe anchorage from the north and east winds, in citht fa-

SANGUINAR A, ELOOD WORT, a genus of plants

belonging to the polyandria class, and in the natural Sanguisormethod ranking under the 27th order, Rhaadea. See ba, BOTANY Index. The Indians paint themselves yellow Sanhedrim. with the juice of these plants.

SANGUISORBA, GREATER WILD BURNET, a genus of plants, belonging to the tetrandria clais, and in the natural method ranking under the 54th order, Mifcellaneae. See BOTANY Index. The cultivation of this plant has been greatly recommended as food for cattle. See BURNET, AGRICULTURE Index.

SANHEDRIM, or SANHEDRIN, from the Greek word Euredgior, which fignifies a council or affembly of perfons fitting together, was the name whereby the Jews called the great council of the nation, affembled in an apartment of the temple of Jerufalem to determine the most important affairs both of their church and state. This council confisted of feventy fenators. The room they met in was a rotunda, half of which was built without the temple, and half within; that is, one femicircle was within the compass of the temple; the other femicircle, they tell us, was built without, for the fenators to fet in; it being unlawful for any one to fit down in the temple. The Nafi, or prince of the fanhedrim, fat upon a throne at the end of the hall, having his deputy at his right hand, and his sub-deputy on his left. The other fenators were ranged in order on

The rabbins pretend, that the fanhedrim has always fubfifted in their nation from the time of Moles down to the destruction of the temple by the Romans. They date the establishment of it from what happened in the wilderness, some time after the people departed from Sinai (Numb. xi. 16), in the year of the world 2514. Moses, being discouraged by the continual murmurings of the Ifraelites, addreffed himfelf to God, and defired to be relieved, at least, from some part of the burden of the government. Then the Lord faid to him, " Gather unto me 70 men of the elders of Ifrael, whom thou knowest to be the elders of the people, and officers over them; and bring them unto the tabernacle of the congregation, that they may stand there with thee: And I will come down and talk with thee there; and I will take of the spirit which is upon thee, and will put it upon them; and they shall bear the burden of the people with thce, that thou bear it not thyfelf alone." The Lord, therefore, poured out his spirit upon these men, who began at that time to prophecy, and have not ceased from that time. The fanhedrim was composed of 70 counsellors, or rather 72, fix out of each tribe; and Mofes, as prefident, made up the number 73. To prove the uninterrupted fuccession of the judges of the fanhedrim, there is nothing unattempted by the partifans of this opinion. They find a proof where others cannot so much as perceive any appearance or shadow of it. Grotius may be consulted in many places of his commentaries, and in his full book De jure belli et pacis, c. 3. art. 20. and Selden de Sunedriis veterum Hebræorum. Alfo, Calmet's Diffetation concerning the polity of the ancient Hebrewe, printed before his Comment upon the Book of Nura-

As to the personal qualifications of the judges of this bench, their birth was to be untainted. They were ofter taken from the race of the pricks or Levites, or out of the number of the inferior judg s, or from the

Sanhedrim leffer fanhedrim, which confifted only of 23 judges .-They were to be fkilful in the law, as well traditional as written. They were obliged to fludy magic, divination, fortune-telling, physic, astrology, arithmetic, and languages. The Jews fay, they were to know to the number of 70 tongues; that is, they were to know all the tongues, for the Hebrews acknowledged but 70 in all, and perhaps this is too great a number. Eunuchs were excluded from the fanhedrim, because of their cruelty, ulurers, decrepid persons, players at games of chance, fuch as had any bodily deformities, those that had brought up pigeons to decoy others to their pigeonhouses, and those that made a gain of their fruits in the fabbatical year. Some also exclude the high-priest and the king, because of their too great power; but others will have it, that the kings always prefided in the fanhedrim, while there were any kings in Ifrael .-Lastly, it was required, that the members of the fauhedrim (hould be of a mature age, a handsome person, and of confiderable fortune. We fpeak now according to the notions of the rabbins, without pretending to

warrant their opinions. The authority of the great fanhedrim was vaftly extenfive. This council decided fuch causes as were brought before it by way of appeal from the inferior courts. The king, the high-prieft, the prophets, were under its jurisdiction. If the king offended against the law, for example, if he married above 18 wives, if he kept too many horses, if he hoarded up too much gold and filver, the fanhedrim had him stripped and whipped in their presence. But whipping, they say, among the Hebrews was not at all ignominious; and the king bore this correction by way of penance, and himfelf made choice of the perion that was to evercise this discipline over him. Also the general affairs of the nation were brought before the fanhedrim. The right of judging in capital cases belonged to this court, and this fentence could not be pronounced in any other place, but in the hall called Laschat-haggazith, or the hall paved with flones, supposed by some to be the Ailospellos. or par ement, mentioned in John xix. 13. From whence it came to pass, that the Jews were forced to quit this hall when the power of life and death was taken out of their hands, 40 years before the destruction of their temple, and three years before the death of Jeius Christ. In the time of Moles this council was held at the door of the tabernacle of the testimony. As soon as the people were in possession of the land of promise, the fanhedrim followed the tabernacle. It was kept fucceffively at Gilgal, at Shiloh, at Kirjath-jearim, at Nob, at Gibeon in the house of Obed-edom; and lastly, it th time of the S' arii, or Affaffins. Then finding that prodent or judges; it was removed to Hanoth, which the mount in d. (200). Fr that chy came And this is the account the Jews themselves give us of Sanhedrim,

But the learned do not agree with them in all this. Father Petau fixes the beginning of the fanhedrim not till Gabinius was governor of Judea, who, according to Josephus, erected tribunals in the five principal cities of Judea; at Jerusalem, at Gadara, at Amathus, at Jericho, and at Sephora or Sephoris, a city of Galilee. Grotius places the origin of the fanhedrim under Mofes, as the rabbins do; but he makes it determine at the beginning of Herod's reign. Mr Balnage at first thought that the sanhedrim began under Gabinius; but afterwards he places it under Judas Maccabæus, or under his brother Jonathan. We see indeed, under Jonathan Maccabæus, (1 Macc. xii. 6.), in the year 3860, that the fenate with the high-priest fent an em-baffy to the Romans. The rabbins say, that Alexander Janneus, king of the Jews, of the race of the Almonæans, appeared before the fanhedrim, and claimed a right of fitting there, whether the fenators would or not. Josephus informs us, that when Herod was but yet governor of Galilee, he was fummoned before the fenate, where he appeared. It must be therefore acknowledged, that the fanhedrim was in being before the reign of Herod. It was in being afterwards, as we find from the Gospel and from the Acts. Jesus Christ in St Matthew (v. 22.) distinguithes two tribunals .-"Wholoever is angry with his brother without a cause shall be in danger of the judgement." This, they say, is the tribunal of the 23 judges. " And whosoever shall fay to his brother Raca, shall be in danger of the council;" that is, of the great fanhedrim, which had the right of life and death, at least generally, and before this right was taken away by the Romans. Some think that the jurisdiction of the council of 23 extended to life and death also; but it is certain that the fanhedrim was superior to this council. See also Mark xiii. 9. xiv. 55. xv. 1.; Luke xxii. 52, 66.; John xi. 47.; Acts iv. 15. v. 21. where mention is made of the lync-

From all this it may be concluded, that the origin of the fanhedrim is involved in uncertainty; for the counthe Hebrews understand by the name of sanhedrim. fifted ei her under Joshua, the judges, or the kings. We were very different from the fanhedrim, which was the supreme court of judic ture, and fixed at Jerula ...; whereas Calinius established five at five di erest eiti . that they had no longer than the power of life and death

SANJACKS, a people inhabiting the Curdillar, or Persian mountains, substilling chiefly by plu. de, and c untry. " They were much reduced (a ye Ir Ive ) them in to their libterrane n retreats, and dSan H Santa. men, and fometimes carry all off. They are faid to be

worthippers of the evil principle.

SAN JUAN DE PUERTO RICO, ufually called Porto Rico, one of the West India islands belonging to Spain, is fituated in about 18. N. Lat, and between 65, 36, and 67. 45. W. Long, and is about 40 leagues long and 20 broad. The island is beautifully diversified with woods, valleys, and plains, and is extremely fertile. It is well watered with fprings and rivers, abounds with meadows, is divided by a ridge of mountains running from east to west, and has a harbour so spacious that the largest ships may lie in it with fafety. Before the arrival of the Spaniards it was inhabited by 400,000 or 500,000 people, who, in a few years, were extirpated by its merciles conquerors. Raynal fays, that its whole inhabitants amount at prefent only to 1500 Spaniards. Mestoes, and Mulattoes, and about 3000 negroes. Thus one of the finest islands in the West Indies has been depopulated by the cruelty, and left uncultivated by the indolence, of its possessors. But it is the appointment of Providence, who feldom permits flagrant crimes to pass unpunished, that poverty and wretchedness should be uniform confequences of oppression.

SANICULA, SANICLE, or Self-heal, a genus of plants belonging to the pentandria class, and in the natural method ranking under the 45th order, Umbellatæ.

See BOTANY Index.

SANIES, in Medicine, a ferous putrid matter, iffuing from wounds. It differs from pus, which is thicker and whiter.

SANNAZARIUS, JAMES, in Latin Actius Cincenis Sannazarius, a celebrated Latin and Italian poet, born at Naples in 1458. He by his wit ingratiated himself into the favour of King Frederic; and, when that prince was dethroned, attended him into France, where he staid with him till his death, which happened in 1504. Sannazarius then returned into Italy, where he applied himself to polite literature, and particularly to Latin and Italian poetry. His gay and facetious humour made him fought for by all companies; but he was fo afflicted at the news that Phillibert prince of Orange, general of the emperor's army, had demolifhed his country bouse, that it threw him into an illness, of which he died in 1530. It is faid, that being informed a few days before his death, that the prince of Orange was killed in battle, he called out, " I shall die contented, fince Mars has punished this barbarous enemy of the Muses." He wrote a great number of Italian and Latin poems: among those in Latin, his De Partu Virginis and Eclogues are chiefly effeemed; and the most celebrated of his Italian pieces is his Arcadia.

SANSANDING, a town in Africa, fituated near the banks of the Niger, in N. Lat. 14° 24′ and 2° 23′ W. Long. It is inhabited by Moors and Negroes to the number of from eight to the nhoufand. The Negroes are kind, hofpitable, and credulous; the Moors are at Sanfanding, as everywhere elle in the interior parts of Africa, fiantical, bigotted, and cruel.

SANTA CRUZ, a large island in the South sea, and one of the most considerable of those of Solomon, being about 220 n less in circumference. W. Long. 130. 0.

S. L + 1- 21,

SANTA Cruz, or St CROIX, a finall and unhealthy iffered, fituated in about 64 degrees well longitude and

18 north taticade. It is about eighteen longues in length, and from three to four in breadth. In 1643 Raynal 1 it was inhabited by Dutch and English, who foon base titions of came enemies to each other; and in 1650 were both the East driven out by 1200 Spaniards, who arrived there in howard Wighlips. The triumph of their lated but a few months Indiaes, The remains of that numerous body, which were left wol. W. For the defence of the illand, furrendered without resist. ance to 160 French, who had embarked in 1651, from St Christopher's, to make themselves matters of the illand.

N

These new inhabitants lost no time in making thema felves acquainted with a country fo much difforted. On a foil, in other respects excellent, they found only one river of a moderate fize, which, gliding gently almost on a level with the fea through a flat country, furnished only a brackish water. Two or three springs, which they found in the innermost parts of the island, made but feeble amends for this defect. The wells were for the most part day. The construction of refervoirs required time. Nor was the climate more inviting to the new inhabitants. The island being slat, and covered with old trees, fearcely afforded an opportunity for the winds to carry off the poisonous vapours with which its moraffes clogged the atmosphere. There was but one remedy for this inconvenience : which was to burn the woods. The French fet fire to them without delay ; and, getting on board their ships, became spectators from the fea, for feveral months, of the conflagration they had railed in the illand. As foon as the flames were extinguished, they went on shore again.

They found the foil fertile beyond belief. Tobacco, cotton, arnotto, indigo, and fugar, flourished jequally in it. So rapid was the progress of this colony, that in 11 years from its commencement there were upon it 822 white persons, with a proportionable number of slaves. It was rapidly advancing to prosperity, when such obstacles were thrown in the way of its activity as made it decline again. This decay was as sadden as its rife. In 1696 there were no more than 147 men, with their wives and children, and 624 blacks remaining; and

these were transported to St Domingo.

Some obscure individuals, some writers unacquainted with the views of government, with their fecret negotiations, with the character of their ministers, with the interests of the protectors and the protected; who flatter themselves that they can discern the reason of events amongst a multitude of important or frivolous causes, which may have equally occasioned them; who do not conceive, that among all these causes the most natural may possibly be the farthest from the truth; who after having read the news, or journal of the day, with pro-found attention, decide as peremptorily as if they had been placed all their lifetime at the helm of the flate, and had affifted at the council of kings; who are never more deceived than in those circumstance in which they display some share of penetration; writers as absurd in the praifes as in the blame which they beflow upon nations, in the favourable or unfavourable opinion they form of ministerial operations: these idle dreamers, in a word, who think they are persons of importance, because their attention is always engaged on matters of confequence, being convinced that courts are always governed in their decisions by the most comprehensive views of profound policy, have supposed that the court

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Santa, of Verfeilles had neglected Santa Cruz, merely because they wished to abandon the fmall islands in order to unite all their firength, industry, and population, in the large ones; but this is a millaken notion. This determination arefe from the farmers of the revenue, who found that the contraband trade of Santa Cruz with St Thomas was detrimental to their interests. The fpirit of finance hath in all times been injurious to commerce; it bath destroyed the fource from whence it forage, Santa Cruz continued without inhabitants, and without cultivation, till 1733, when it was fold by France to Denmark for 30,750l. Soon after the Danes built there the fortress of Christianstadt. Then it was that this northern power feemed likely to take deep root in America. Unfortunately, the laid her plantations under the yoke of exclusive privileges. Industrious people of all feets, particularly Moravians, flrove in vain to overcome this great difficulty. Many attempts were made to reconcile the interests of the colonists and their oppressors, but without success. The two parties kept up a continual flruggle of animofity, not of industry. At length the government, with a moderation not to be expected from its conditution, purchased, in 1754, the privileges and effects of the company. The price was fixed at 412,500l. part of which was paid in really money, and the remainder in bills upon the treasury, bearing interest. From this time the navigation to the iflands was opened to all the fubicets of the Danish dominions. Of 345 plantations, which were feen at Santa Cruz, 150 were covered with fugar canes, and every habitation is limited to 3000 Danish fect in length, and 2000 in breadth. It is inhabited by 2136 white men, by 22,214 flaves, and by 15; freedmen.

SANTA Cruz, in Teneriffe. See TENERIFFE.

SANTA Cruzs, a town of Africa, on the coast of Barbary, and in the province of Suez and kingdom of Morocco, with a harbour and a fort. The Moors took it from the Portuguese in 1536. It is seated at the extremity of Mount Atlas, on the Cape Aguer. W. Long. 10. 7. N. Lat. 30. 38.

SANTA Cruz de la Sierra, a town of South America, and capital of a province of that name in Peru, and in the audience of Les Charcas, with a bishop's fee. It is feated at the foot of a mountain, in a country abounding in good fruits, on the river Guapy." W. Long. 10. 31. S. Lat. 20. 40.

SANTA Fe de Bogota, a town of South America, and capital of New Granada, with an archbishop's see, a fe-

preme court of judice, and an univerfity.

The city is fituated at the foot of a steep and cold mountain, at the entrance of a vast and superb plain. In 1774 it contained 1770 howes, 9246 families, and 16,233 inhabitants. Population must necessarily increase there, fince it is the fest of government, the place where the coin is firiken, the flaple of trade; and lastly, fince it is the residence of an archbishop, whose immediate jurisdiction extends over 31 Spanish villages, which are called towns; over 19; India colonies, onciently subdued; and over 28 missions, established in modern times. This archbishop hath likewise, as metropolitan, a fort of inspection over the dioceses of Quito, of Pasama, of Caraceas, of St Martha, and of Carthagena. It is by this last place, though at the distance 100 league, and by the river Magdalena, that Santa Fe keeps up its communication with Europe. There Santalum are filver mines in the mountains about the city. W. Santenil. Long. 60. 5. N. Lat. 3. 58.

SANTALUM, a genus of plants belonging to the offandria class; and in the natural method ranking with those of which the order is doubtful. See BOTANY

SANTAREN, a handfome town of Portugal in Estremadura, seated on a mountain near the river Tajo. 55 miles N. E. from Lifbon, in a country very fertile in wheat, wine, and oil. They get in their harvest here two months after they have fown their corn. It was taken from the Moors in 1447. W. Long. 8. 25. N. Lat. 39. 2.

SANTAUGUSTINE. Sce AUGUSTINE.

SANTEN, a town of Germany, in the circle of Wellphalia, and in the duchy of Cleves. It is feated on the Rhine, 15 miles S. E. from Cleves. It has a handsome church belonging to the Roman Catholics, wherein is an image of the Virgin Mary, which it is pretended performs a great many miracles. Here the fine walks begin that run as for as Wefel, from which it is five miles diffant to the north-welf. E. Long. 6. 33. N. Lat. 51. 38.

SANTERRE, the former name of a fmall territory of France, in Picardy; bounded on the north by Canibrefis, on the east by Vermandois, on the west by Amienois, and on the fouth by the river Somme. It is very

fertile, and the capital town is Peronne,

SANTEUIL, or rather SANTEUL, JOHN BAPTIST DE, in Latin Santolius Victorinus, an excellent Latin poet, was born at Paris in 1630. Having finished his fludies in Louis the Great's college, he applied himfelf entirely to poetry, and celebrated in his verse the praises of several great men; by which he acquired univerfal applaule. He enriched Paris with a great number of inferiptions, which are to be feen on the public fountains, and the monuments confectated to posterity. At length, some new hymns being to be composed for the Brevlary of Paris, Claude Santeuil his brother, and M. Boffuet, perfunded him to undertake that work; and he fucceeded in it with the greatest applaufe. On which the order of Clugny defiring him to compose some for their Breviary, he complied with their request; and that order, out of gratified, granted him letters of filiation, with an annual penfon. Santeuil was careffed by all the learned men of his time; and had for his admirers the two princes of Conde, the father and fon, from whom he frequently received favours. Louis XIV, also gave him a proof of his officer, by bestowing a pension upon him. He at-tended the duke of Bourbon to Dijor, when that prince went thither in order to hold the thates of Burgundy; and died there in 1697, as he was preparing to return to Paris. Besides his Latin hymns, he wrote a great number of Latin poems, which have all the fire and marks of genius discoverable in the works of great

To Santeuil we are indebted for many fine churchhymns, as above-mentioned. Santeuil read the verfes he made for the inhabitants of heaven with all the agitations of a demoniac. Despreasex faid he was the devil whom God compelled to praise faints. He was among the number of poets whof genius was as impe-

tuous as his mule was decent.

La Bruyere has painted the character of this fingular and truly original poet in the most lively colours, Santorini. "Image a man of great felicity of temper, complain fant and docile, in an instant violent, choleric, passionatc, and capricious. A man fimple, credulous, playful, volatile, puerile; in a word, a child in gray hairs: but let him collect himfelf, or rather call forth his interior genius, I venture to fay, without his knowledge or privacy, what failies! what elevation! what images! what latinity! Do you fpeak of one and the same perfon, you will ask? Yes, of the same; of Theodas, and of him alone. He shricks, he jumps, he rolls upon the ground, he roars, he ftorms; and in the midft of this tempest, a flame iffues that shines, that rejoices. Without a figure, he rattles like a fool, and thinks like a wife man. He utters truths in a ridiculous way; and, in an idiotic manner, rational and fenfible things. It is aftonithing to find good fenfe disclose itself from the bosom of buffoonery, accompanied with grimaces and contortions. What shall I say more? He does and he savs better than he knows. These are like two fouls that are unacquainted with each other, which have each their turn and separate functions. A feature would be wanting in this extraordinary portrait, if I omitted faying, that he has at once an infatiable thirst for praise. ready to throw himself at the mercy of the critics, and at the bottom fo docile as to profit by their censure. I begin to perfuade myfelf that I have been drawing the portraits of two different persons; it would be impossible to find a third in Theodas; for he is a good man, a pleafant man, an excellent man."

This poet ought not to be confounded with Claude de Santeuil, his brother, a learned ecclefiaftic, who also wrote feveral hymns in the Paris Breviary, under the name of Santolius Maglioranus, a name given him from his having lived a long time in the feminary of St Magliore at Paris, in quality of fecular ecclefiattic. He was esteemed not only for his poetical abilities, but also for his profound erudition and his exemplary piety. He wrote feveral other pieces of poetry, besides his hymns, which are printed with his brother's works.

SANTILLANE, a fea-port town of Spain, in the province of Afturias, of which it is the capital. It is feated on the fea-coast, 55 miles east of Oviedo, and 200 north-west of Madrid. W. Long. 4. 33. N. Lat.

SANTOLINA, LAVENDER COTTON, a genus of plants belonging to the fyngenefia class; and in the natural method ranking under the 49th order, Compositæ.

See BOTANY Index.

SANTORINI, or SANTORIN, an ifland of the Archipelago, to the north of Candia, and distant from it about 90 le gues, and to the fouth-west of Nanphio. It is eight miles in length, and nearly as much in breadth, and almost covered with pumice-stone, whence the foil in general must be dry and barren; it is, however, greatly improved by the labour and industry of the inhabitants, who have turned it into a garden. It affords a great deal of larley, plenty of cotton, and large quantities of wise. Fruit is scarce, except almonds and figs; and there is neither oil nor wood. The partridge and the hare, so common in the other islands of the Archipelago, are fine at Santorin; but quails are met with in abundance. The inhabitants are all Greeks, and are about 10,000 in number. Pyrgos is the capital town, beside which, there are several little town, and Sanizo villages. There is but one fpring of water in the ifland. for which reason the rain-water is preserved in cifferns. Though subject to the Turks, they choose their own magistrates, E. Long. 25. 5. N. Lat. 39. 10.

SANIZO, RAPHAEL. See RAPHAEL.

SAO, a territory, called a kingdom, of Africa, on the Gold-coatt of Guinea, hardly two miles in length along the thore. It produces abundance of Indian corn, yams, potatoes, palm-wine, and oil. The inhabitants are very treacherous, and there is no dealing with them without , great caution. It contains feveral villages, of which

SAONE, a confiderable river of France, which has its fource in Mount Vosque, near Darney; runs through the Franche Comte, Burgundy, Beaujolois; and falls into the Rhone at Lyons. It passes by Gray, Chalons,

and Mascon.

SAP, the juice found in vegetables.

We observed, when treating of PLANTS, that it has been long disputed whether the sap of plants be analog gous to the blood of animals, and circulates in the fame manner. We also mentioned the conclusions that Dr Hales drew from his numerous experiments, which were all in opposition to the doctrine that the fap circulates.

Dr Walker, late professor of Natural History in the university of Edinburgh, has published, in the 1st volume of the Philosophical Transactions of Edinburgh, an account of a course of experiments on this subject, accompanied with fome observations and conclusions.

It is well known that in the fpring vegetables contain a great quantity of fap; and there are some trees, as the birch and plane, which, if wounded, will discharge a great portion of it. Whence is this moisture derived? Whether is it imbibed from the atmosphere, or does it flow from the foil through the roots? These are the questions which require first to be answered; and Dr Walker's experiments enable us to answer them with confidence.

He felected a vigorous young birch, 30 feet high and 26 inches in circumference at the ground. He bored a hole just above the ground on the 1st of February, and cut one of its branches at the extremity. He repeated this every fecond day; but no moisture appeared at either of the places till the 5th of May, when a small quantity flowed on making an incision near the ground. He then cut 21 incisions in the trunk of the tree, on the north fide, at the distance of a foot from one another, and reaching from the ground to the height of 20 feet. The incisions were folid triangles, each fide being an inch long and an inch deep, and penetrating through the bark and wood. Dr Walker vifited the tree almost every day for two months, and marked exactly from which of the incifions the fap flowed. He observed that it flowed from the lowest incision first, and gradually -feended to the highest. The following table will show the progress of the sap upwards, and its correspondence with the thermometer.

The first column is the day of the month on which the observation was made; the second expresses the number of incitions from which the f. p flowed on the day of the month opposite; and the third column the degree of the thermometer at noon. Some days are omitted in March, as the incisions, though made on the 5th, did not bleed till the 11th. Some days are alie

Sup. passed over in April, because no observation was made

March.	N. of In.	Ther Noon.	March	N. of In.	Ther. No
5	-	46	30	8	50
11	2	49	31	7	62
12	2	49			
13	1	44	April 2	7	46
14	4	48	4	CI	53
15	.5	52	7 8	11	49
16	5	47	8	11	48
17	4	44	9	12	50
18	5	47	10	13	53
19	6	48	11	13	4.5
20	5	44	12	13	44
21	7	48	13	13	43
22	7 8	4.5	14	14	5.5
23	8	46	15	1.4	49
24	9	47	16	16	56
25	9	42	18	16	50
26	7	39	19	17	54
27	8	4.5	20	19	56
28	8	49	21	20	54
29	8	46	2.2	21	52

Dr Walker found that the fap afcends through the wood, and still more copiously between the wood and the bark ; but none could be perceived afcending through the pith or the bark. He found also, that when the thermometer at noon is about 40, or between 46 and 50. the fap rifes about one foot in 24 hours; that when the thermometer is about 45 at noon, it afcends about one foot in two days; and that it does not afcend at all unless the mid-day heat be above 40. He observed that it moves with more velocity through young than through old branches. In one young branch it moved through feven feet in one day, the thermometer being at 40, while it moved in the trunk of the tree only feven feet in feven days. Dr Walker has thus explained the reason why the buds on the extremities of branches unfold first; because they are placed on the youngest wood, to which the fap flows most abundantly.

The effects produced by the motion of the fap de-ferve to be attended to. In those parts to which it has mounted, the bark eafily feparates from the wood, and the ligneous circles may, without difficulty, be de-tached from one another. The buds begin to swell and their scales to separate, while those branches to which the fap has not ascended remain closely folded. When the fap has reached the extremities of the branches, and has thus pervaded the whole plant, it is foon covered with opening buds and ceases to bleed. The bleeding ceases first in the upper parts of the tree, and in the lower parts fuccessively downwards, and the wood becomes dry. An inverted branch flows more copioutly when cut than those which are erect. This is a proof that the afcent of the fap is not occasioned by capillary attraction, for water which has rifen in a fmall glass tube by this attraction will not descend when the tube is inverted.

It is evident that there is an intimate connection between heat and the afcent of the fap. It did not begin to flow till the thermometer flood at a certain point; when it fell below 42, it was arrefled in its progrefs. The fouth fide of the tree, when the fun was bright,

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bled more profusely than the north fide; and at funfer the incifions at the top ceated to bleed, where it was exposed most to the cold air, while it fill continued to flow from the incitions next to the ground; the ground

retaining its heat longer than the air.

SAP, in fieges, is a trench, or an approach made under cover, of to or 12 feet broad, when the befiegers come near the place, and the fire from the garrion grows fo dangerous that they are not able to approach uncovered.—There are feveral forts of faps; the fingle, which has only a fingle parapet; the double, having one on each fide; and the flying, made with gabions, &c. In all faps traverfee are left to cover the men,

SAP, or Sapp, in building, as to fap a wall, &c. is to dig out the ground from beneath it, so as to bring it

down all at once for want of support.

SAPHIES, a kind of charms, confiling of fome ferap of writing, which the Negroes believe capable of protecling them from all evil. The Moors fell feraps of the Koran for this purpole; and indeed any piece of writing may be fold as a faphie; but it would appear that the Negroes are difposed to place greater confidence in the faphies of a Christian than in those of a Noore.

When Mr Park was at Koolikorro, a confiderable town near the Niger, and a great market for falt, his landlord, hearing that he was a Christian, immediately thought of procuring a faphie. For this purpole he brought out his walka, or writing board, affuring me (favs our author) that he would drefs me a supper of rice it I would write him a faphie to protect him from wicked men. The propofal was of too great confequence to me to be refused; I therefore wrote the board full. from top to bottom, on both fides; and my landlord, to be certain of having the whole force of the charm, washed the writing from the board into a calabash with a little water; and having faid a few prayers over it. drank this powerful draught; after which, left a fingle word should escape, he licked the board until it was quite dry. A faphie writer was a man of too great confequence to be long concealed: the important information was carried to the Dooty, who fent his ion with half a sheet of writing-paper, defiring me to write him a naphula faphie (a charm to procure wealth). He brought me, as a prefent, fome meal and milk; and when I had finithed the faphie, and read it to him with an audible voice, he feemed highly fatisfied with his bargain, and promifed to bring me in the morning some milk for my breakfaft.

SAPINDUS, the SOAP-BERRY TREE, a genus of plants belonging to the oftandria class; and in the natural method ranking under the 23d order, Trikilatæ. See BOTANY Index.

SAPONARIA, SOPEWORT; a genus of plants belonging to the decandria class; and in the natural method ranking under the 22d order, Caryophyllee. See See BOTLINY Index.

SAPOR, TASTE. See TASTE, and ANATOMY, No 130.

SAPOTA PLUM. See ACHRAS, BOTANY In-

SAPPERS, are foldiers belonging to the royal artillery, whose bufines it is to work at the says, for which they have an extraordinary pay. A brigade of sappergenerally consults of eight men, divided equally into two S p li Sappers. Sapphira parties; and whilst one of these parties is advancing the fap, the other is furnishing the gabions, fascines, and other necessary implements. They relieve each other alternately.

SAPPHIRA, was the wife of a rich merchant in Gueldres, and equally diffinguished for her beauty and her virtue. Rhinfauld, a German officer, and governor of the town of Gueldres, fell in love with her; and not being able to feduce her either by promifes or prefents, he imprisoned her husband, pretending that he kept up a traiterous correspondence with the enemies of the state. Sapphira yielded to the passion of the governor in order to relieve her husband from chains; but private orders had already been given to put him to death. His unhappy widow, overwhelmed with grief, complained to Charles duke of Burgundy. He ordered Rhinfauld to marry her, after having made over to her all his possessions. As soon as the deed was signed, and the marriage over, Charles commanded him to be put to death. Thus the children of a wife whom he had feduced, and of a hufband whom he had murdered, became lawful heirs to all his wealth.

SAPPHIRE, a species of precious stone, of a blue

colour. See MINERALOGY Index.

SAPPHO, a famous poetels of antiquity, who for her excellence in her art has been called the Tenth Mufe, was born at Mitylene, in the ifle of Lefbos, about 610 years before Christ. She was contemporary with Stefichorus and Alcæus; which last was her countryman, and some think her fuitor. A verse of this poet, in which he infinuates to her his paffion, is preferred in Aristotle, Rhet. lib. i. cap. 9. together with the fair damfel's answer.

ALC. I fain to Sappho would a wish impart, But fear locks up the fecret in my heart. SAP. Thy downcast looks, respect, and timid air, Too plain the nature of thy wish declare. If lawlefs, wild, inordinate defire, Did not with thoughts impure thy bosom fire, Thy tongue and eyes, by innocence made bold, Ere now the fecret of thy foul had told.

M. la Fevre observes, that Sappho was not in her ufual good humour when the gave fo cold an answer to a request, for which, at another time, perhaps she would not have waited .- It has been thought, too, that Anacreon was one of her lovers, and his editor Barnes has taken fome pains to prove it : but chronology will not admit this; fince, upon inquiry, it will be found that Sappho was probably dead before Anacreon was born. Of the numerous poems this lady wrote, there is nothing remaining but fome finall fragments, which the ancient scholiasts have cited; a hynn to Venus, preferved by Dionysius of Halicarnassus; and an ode to \* See Pac. one of her mistresses \* : which last piece confirms a tradition delivered down from antiquity, that her amorous passion extended even to persons of her own fex, and that the was willing to have her mistresses as well as her

> Ovid introduces her making a facrifice to Phaon, one of her male paramours: from which we learn, that Sappho's love for her own fex did not keep her from loving ours. She fell desperately in love with Phaon, and did all the could to win him; but in vain : upon which the threw herfelf headlong from a rock, and died.

It is faid that Sappho could not forbear following Phaon Sappho into Sicily, whither he retired that he might not fee her; and that during her flay in that island the probably S composed the hymn to Venus, still extant, in which she begs to ardently the affiftance of that goddefs. Her prayers, however, proved ineffectual: Phaon was cruel to the last degree. The unfortunate Sappho was forced to take the dreadful leap; the went to the promontory Leucas, and threw herfelf into the fea. The cruelty of Phaon will not furprise us so much, if we reflect, that the was a widow (for the had been married to a rich man in the ifle of Andros, by whom she had a daughter, named Cleis); that the had never been bandfome ; that the had observed no measure in her passion to both fexes; and that Phaon had long known all her charms, She was, however, a very great wit, and for that alone deferves to be remembered. The Mitylenians held her merit in fuch high efteem, that they paid her fovereign honours after her death, and stamped their money with her image. The Romans afterwards erected a noble fratue of porphyry to her; and in fhort, ancients as well as moderns have done honour to her memory. Voffius fays, that none of the Greek poets excelled Sappho for fweetness of verse; and that she made Archilochus the model of her style, but at the same time took care to foften the feverity of his expression. It must be granted, says Rapin, from what is left us of Sappho, that Longinus had great reason to extol the admirable genius of this woman; for there is in what remains of her fomething delicate, harmonious, and impassioned to the last degree.

SARABAND, a mufical composition in triple time,

the motions of which are flow and ferious. Saraband is also a dance to the same measure, which

usually terminates when the hand that beats the time falls; and is otherwife much the fame as the minuet. The faraband is faid to be originally derived from the

Saracens, and is usually danced to the found of the guitar or castanettes.

SARACA, a genus of plants belonging to the diadelphia class. See BOTANY Index.

SARACENS, the inhabitants of Arabia; fo called from the word Jaru, which fignifies a defert, as the greatest part of Arabia is; and this being the country of Mahomet, his disciples were called Saracens.

SARACOLETS, a Negro nation occupying the country between the rivers of Senegal and Gambia. They are a laborious people, cultivate their lands with care, are plentifully supplied with all the necessaries of life, and inhabit handsome and well built villages; their houses, of a circular form, are for the most part terraced; the others are covered with reeds as at Senegal: they are inclosed with a mud wall a foot thick, and the villages are furrounded with one of stone and earth of double that folidity. There are feveral gates, which are guarded at night for fear of a furprife. This nation is remarkably brave, fo that it is very uncommon to find a Saracolet flave. The religious principles of this people are nearly allied to Mahometanism, and still more to natural religion. They acknowledge one God; and believe that those who steal, or are guilty of any crime, are eternally punished. They admit a plurality of wives, and believe their fouls to be immortal like their own. The extent of this country is unknown. It is governed by four powerful princes, all bearing the

Saraeolets name of Fouquet. The least confiderable, according to Sarcoce's, the testimony of the Saracolets, is that of Tuago, who can affemble 30,000 horse, and whose subjects occupy a territory two hundred leagues in extent, as well on the Senegal as on the tract that reaches beyond the Felou; a rock which, according to the fame report, forms cataracts, from whence proceed the Senegal and the river

Gambia, equally confiderable.

SARAGOSSA, a city of Spain, in the kingdom of Arragon, with an archbithop's fee, an university, and a court of inquisition. It is said to have been built by the Phoenicians; and the Romans fent a colony here in the reign of the emperor Auguslus, whence it had the name of Caefar Augustus, which by corruption has been changed into Saragossa. It is a large, handsome, and well-built town. The streets are long, broad, well paved, and very clean, and the houses from three to fix ftories high. It is adorned with many magnificent buildings; and they reckon 17 large churches, and 14 handfome monasteries, not to mention others less considerable. The river Ebro runs cross the place, dividing it into two; and on its banks is a handsome quay, which ferves for a public walk. The Holy-street is the largeft, and fo broad that it may be taken for a fquare; and here they have their bull-fights: in this street there are feveral noblemen's families, particularly that of the viceroy. The convents are handsome and richly adorned, as well as the churches. The cathedral church is a spacious building, after the Gothic taste; but the finest church is that of Nuestra Signora del Pilar, seated on the fide of the Ebro, and is a place of the greatest devotion in Spain. They tell us the Virgin appeared to St James, who was preaching the gospel, and left him her image, with a handsome pillar of jasper: it is still in this church, which they pretend is the first in the world built to her honour. This image stands on a marble pillar, with a little Jesus in her arms; but the place is fo dark, that it cannot be feen without the affiltance of lamps, which are 50 in number, and all of filver. These are also chandeliers and balustrades of massy The ornaments of this image are the richest that can be imagined, her crown being full of precious flones of an inestimable price; in short, there is scarce any thing to be feen but gold and jewels, and a vast number of people come in pilgrimage hither. The town-house is a sumptuous structure, adorned with fine columns: in the hall are the pictures of all the kings of Arragon; and in a corner of it St George on horseback, with a dragon of white marble under him. It is feated in a very large plain, where the Ebro receives two other rivers; and over it are two bridges, one of slone and the other of wood, which last has been thought the most beautiful in Europe. A victory was obtained here over the French and Spaniards in 1710, but it was abandoned by the allies foon after. It is 97 miles west by north of Tariagona, 137 weft of Barcelina, and 150 north-east of Madrid. W. Long. 0. 48. N. Lat. 41. 47.

SARCASM, in Rhetoric, a keen bitter expression which has the true point of filire, by which the orator fcoffs and inful s his er any : fuch as that of the Je vs to our Saviour; " He laved others, himfelf he cannot

SARANNE. See LILIUM.

SARCAGELE, in Singery, a spurious rupture or hernia, wherein the testicle is considerably tumefied or

indurated, like a scirrhus, or much enlarged by a fifthy Sarewal's excreteence, which is frequently attended with acute Sarcophapains, so as to degenerate at last into a cancerous dispofition. See SURGERY.

SARCOCOLLA, a concrete juice brought from Persia and Arabia, in small whitish-yellow grains, with a few of a reddiffi and fometimes of a deep red colour mixed with them; the whitest tears are preferred, as being the frethest: its taste is bitter, accompanied with a dull kind of fweetness. See CHEMISTRY.

SARCOLOGY, is that part of anatomy which treats of the foft parts, viz. the muscles, intestines, arteries,

veins, nerves, and fat.

SARCOMA, in Surgery, denotes any fleihy excref-

SARCOPHAGUS, in antiquity, a fort of stone coffin or grave, wherein the ancients deposited the bodies of the dead which were not intended to be hurnt.

The word, as derived from the Greek, literally fignifies fle/h-eater; because originally a kind of stone was used for tombs, which quickly confumed the bodies.

See the following article.

One of the most celebrated specimens of antiquity is the great farcophagus, which is commonly called the tomb of Alexander the Great. It fell into the hands of the British at the capitulation of Alexandria in Egypt in 1801, is now depolited in the British Museum, and is thus described by a writer in the Monthly Magazine\*. Vol. xxvic.

" It was brought from the mosque of St Athanasius, p. 42. at Alexandria, where it had been transformed, by the Mahometans, into a kind of refervoir, confecrated to contain the water for their pious ablutions. It is of confiderable magnitude, and would form an oblong rectangle, were not one of the ends or shorter sides of the parallelogram rounded fomewhat like a bathing tub. It is probable that formerly it was covered with a lid, but no trace of it is now visible; but is entirely open like an immense laver, of one single piece of beautiful marble, spotted with green, yellow, reddish, &c. on a ground of a fine black, of the species called breccia, a fort of pudding stone, composed of agglutinated fragments of various fizes, which are denominated according to their component parts. This comes under the class of calcareous breccias. But what renders this magnificent fragment of antiquity peculiarly interesting, is the prodigious quantity of small hieroglyphic characters, with which it is feulptured both within and without, as you may perceive by the figure. It would employ me nearly a month to make faithful copies of them : their shape and general appearance is pretty fairly given in the figure; but it can only ferve to convey to coccerve you an idea of the monument in one view. A correct and feithful copy of all the hierogiyphics, though an Herculean talk, is a defideration; for it can be only by copying with ferupulous accur cy, and of a large

" Many men of science and learning, have exam and this memento of Egyptian skill and industry; but no 3 R 2

which depends that of the hille y of a country, once for

highly celebrated. When that language fliall be un-

deritood, we may perlaps learn the original purpole of

this farcophagus, and the hillory of the puillint man

Sarapha- politice decision of its former application is yet found by the learned. Somini and Denon, who both closely and attentively examined it, have pronounced nothing de-cifive on the fubject. Dr Clark of Cambridge, an indefatigable and learned antiquary, has afferted that the farcophagus of the muleum really was the tomb of Alexander; but it requires more talents than I posses, to remove the obstacles that withstand the clear intelligibi-

lity of this invaluable antique." SARCOPHAGUS, or Lapis Affins, in the natural hiftory of the ancients, a flone much used among the Greeks in their fepultures, is recorded to have always perfectly confumed the flesh of human bodies buried in it in forty days. This property it was much famed for, and all the ancient naturalists mention it. There was another very fingular quality also in it, but whether in all, or only in fome peculiar pieces of it, is not known: that is, its turning into stone any thing that was put into vessels made of it. This is recorded only by Mutianus and Theophrastus, except that Pliny had copied it from these authors, and some of the later writers on these subjects from him. The account Mutianus gives of it is, that it converted into stone the thoes of persons buried in it, as also the utenfils which it was in fome places customary to bury with the dead, particularly those which the person while living moth delighted in. The utenfils this author mentions, are fuch as must have been made of very different materials; and hence it appears that this stone had a power of confuming not only flesh, but that its petrifying quality extended to fubitances of very different kinds. Whether ever it really poffessed this last quality has been much doubted; and many, from the feeming improbability of it, have been afraid to record it. What has much encouraged the general difbelief of it is, Mutianus's account of its taking place on substances of very different kinds and textures; but this is no real objection, and the whole account has probably truth in it. Petrifactions in those early days might not be diftinguished from incrustations of sparry and stony matter on the surfaces of bodies only, as we find they are not with the generality of the world even to this day; the incrustations of spar on mosses and other substances in some of our springs, being at this time called by many petrified moss, &c. and incrustations like these might easily be formed on fubstances enclosed in vessels made of this stone, by water passing through its pores, dislodging from the common mass of the stone, and carrying with it particles of fuch spar as it contained; and afterwards falling in repeated drops on whatever lay in its way, it might again deposit them on such substances in form of incrustations. By this means, things made of ever fo different matter, which happened to be inclosed, and in the way of the passage of the water, would be equally incrusted with and in appearance turned into stone, without regard to the different configuration of their pores and

The place from whence the ancients tell us they had this stone was Assos, a city of Lycia, in the neighbourhood of which it was dug; and De Boot informs us, that in that country, and in fome parts of the East, there are also stones of this kind, which, if tied to the bodies of living persons, would in the same man-ner consume their slesh. Hill's Notes on Theophrassus,

SARCOTICS, in Surgery, medicines which are sup- Sarroties posed to generate fiesh in wounds.

SARDANAPALUS, the last king of Assyria, Sardinia. whose character is one of the most infamous in history. He is faid to have funk fo far in depravity, that, as far as he could, he changed his very fex and nature. He clothed himfelf as a woman, and fpun amidft companies of his concubines. He painted his face, and behaved in a more lewd manner than the most lascivious harlot. In short, he buried himself in the most unbounded senfuality, quite regardless of fex and the dictates of nature. Having grown odious to all his fubicets, a rebellion was formed against him by Arbaces the Mede and Belefis the Babylonian. They were attended, however, with very bad fuccess at first, being defeated with great slaughter in three pitched battles. With great difficulty Belefis prevailed upon his men to keep the field only. five days longer; when they were joined by the Bachians, who had come to the affiftance of Sardanapalus, but had been prevailed upon to renounce their allegiance to him. With this reinforcement they twice deteated the troops of Sardanapalus, who that himfelf up in Nineveh the capital of his empire. The city held out for three years; at the end of which, Sardanapalus finding himfelf unable to hold out any longer, and dreading to fall into the hands of an enraged enemy, retired into his palace, in a court of which he caused a vail pile of wood to be raifed; and heaping upon it all his gold and filver, and royal apparel, and at the fame time inclosing his eunuchs and concubines in an apartment within the pile, he fet fire to it, and fo destroyed himself and all together.

SARDINIA, an ifland of the Mediterranean, bounded by the flrait which divides it from Corfica on the north; by the Tufcan fea, which flows between thisisland and Italy, on the east; and by other pases or the Mediterranean fea on the fouth and well. It is about 140 miles in length and 70 in breadth, and contains 420,000 inhabitants. The revenue arifes chiefly from a duty upon falt, and is barely fufficient to defray the expences of government; but it certainly might be confiderably augmented, as the foil produces wine, corn, and oil, in abundance. Most of the falt that is exported is taken by the Danes and Swedes; the English formerly took great quantities for Newfoundland, but having found it more convenient to procure it from Spain and Portugal, they now take little or none. A profitable tunny fishery is carried on at the fouth west part of the island, but it is monopolized by the proprietors of the adjoining land. Wild boars abound in the hilly parts of the island, and here are some few deer, not so large as those in Britain, but in colour and make exactly the same. Beeves and sheep are also common, as well as horses.

The feudal fystem still subsists in a limited degree, and titles go with their estates, fo that the purchaser of the latter inherits the former. The regular troops feldom exceed 2000 men; but the militia amount to near 26,000, of whom 11,000 ste cavalry. Their horics are fmall, but uncommonly active. In a charge, we fould beat them; but, on a march, they would be superior to us. The country people are generally armed; but notwithflanding their having been fo long under the Spanish and Italian government, affassinations are by no means frequent; and yet by the laws of the country, if Sard mins.

Sard'a's a man flabs and her without premaditated malice, within four fours after quarrelling with him, he is not liable to be hauged. On le other hand, the church affords no protection to the guilty. The Sardinians are not at all Ligotted; and, next to the Spaniards, the English are their favourites. This island was formerly subject to the duke of Savoy, who enjoyed the title of king of Sardinia. See CAGLIARI. It is now under the dominion of the French.

> There is in this island a pleasing variety of hills and valleys, and the foil is generally fruitful; but the inhabitants are a flothful generation, and cultivate but a little part of it. On the coast there is a fishery of anchovies and coral, of which they fend large quantities to Genoa and Leghorn. This illand is divided into two parts; the one, called Capo di Cagliari, iles to the fouth; and the other Capo di Lugary, which is feated to the north. The principal towns are Cagliari the capital, Oristagno,

and Saffari.

SARDIS, or SARDES, now called Sards, or Sart, is an ancient town of Natolia in Afia, about 40 miles east of Smyrna. It was much celebrated in early aptiquity. was enriched by the fertility of the foil, and had been the capital of the Lydian kings. It was feated on the fide of Mount Tmolus; and the citadel, placed on a lofty hill, was remarkable for its great firength. It was the feat of King Creefus, and was in his time taken by Cyrus; after which the Perfian fatrapas or commandant refided at Sardis as the emperor did at Sufa. The city was also taken, burnt, and then evacuated by the Milefians in the time of Darius, and the city and fortrels furrendered on the approach of Alexander after the battle of Granicus. Under the Romans Sardis was a very confiderable place till the time of Tiberius Cafar, when it fuffered predigiously by an earthquake, The munificence of the emperor, however, was nobly exerted to repair the various damages it then fuffained. Julian attempted to reifore the heathen worship in the place. He erested temporary alters where none had been left, and repaired the temples if any veftiges remained. In the year 400 it was plundered by the Goths, and it fuffered confiderably in the fubfequent troubles of Afia. On the incursion of the Tartars in 1304, the Farks were permitted to occupy a portion of the citadel. separated by a strong wall with a gate, and were afterwards murdered in their fleep. The fite of this once noble city is now green and flowery, the whole being reduced to a poor village, containing nothing but wretched huts. There are, however, some curious remains of antiquity about it, and fome ruins which display its ancient grandeur. See Chandler's Travels in Afia Minor,

There is in the place a large caravanfary, where travellers may commodiously lodge. The inhabitants are generally shepherds, who lead their sheep into the fine pastures of the neighbouring plain. The Turks have a mosque here, which was a Christian church, at the gate of which there are several columns of polished marble. There are a few Christians, who are employed in gar-

dening. E. Long. 28. 5. N. Lat. 37. 51.

SARDONIUS atsus, Sardonian Laughter; a convultive involuntary laughter; thus named from the herba fardonia, which is a faecies of ranunculus, and is faid to produce fuch convulfive motions in the cheeks as refemble those motions which are observed in the face during a fit of laughter. This complaint is fometimes fpee- Sardonye dily fatal. If the ranunculus happens to be the caule, the cure muit be attempted by means of a vomit, and frequent draughts of hydromel with milk.

SARDONYX, a precious flone confifting of a mixture of the calcedony and carnelian, fometimes in fruitabut at other times blended together. See MINERA-

SARIMPATAM, a country of Indoftan, lying at the back of the dominions of the Samorin of Malabar, and which, as far as we know, was never subdued by any foreign power. Mr Grofe relates, that "it has been constantly a maxim with the inhabitants of this country never to make any but a defensive war; and even then, not to kill any of their adverfaries in battle. but to cut off their nofes. To this fervice the military were peculiarly trained up, and the dread of the deformity proved fufficiently firong to keep their neighbours, not much more martial than themselves, from effectually attacking them."

SARMENTOSÆ (from farmentum, a long floot like that of a vine); the name of the 11th class in Linnœus's Fragments of a Natural Method, confifting of plants which have climbing stems and branches, that, like the vine, attach themselves to the bodies in their neighbourhood for the purpole of support. See Bo-

SAROS, in chronology, a period of 223 lunar months. The etymology of the word is faid to be Chaldean, fignifying restitution, or return of ecliples; that is, conjunctions of the fun and moon in nearly the same place of the ecliptic. The Saros was a cycle like to that of

SAROTHRA, a genus of plants, belonging to the pentandria class; and in the natural method ranking under the 20th order, Rotaceae. See BOTANY Index.

SARPLAR of WOOL, a quantity of wool, otherwife called a pocket, or half fack; a fack containing 30 tod; a tod two stone; and a stone 14 pounds .- In Scotland it is called farpliath, and contains 80 flone.

SARRACONIA, a genus of plants belonging to the polyandria class; and in the natural method ranking under the 54th order, Mifcellanea. See BOTANY In-

SARRASIN, or SARRAZIN, in fortification, a kind of portcullis, otherwise called a berse, which is hung with ropes over the gate of a town or fortress, to be let fall in cale of a furprile

SARSAPARILLA. See SMILAN, BOTANY and MATERIA MEDICA Index.

SARTORIUS, in ANATOMY. See there, Table of

the Mufeles.

OLD SARUM, in Wilts, about one mile north of New Sarum or Salifbury, has the ruins of a fort which belonged to the ancient Britons; and is said also to have been one of the Roman stations. It has a double intrenchment, with a deep ditch. It is of an orbicular form, and has a very august look, being erccted on one of the most elegant plans for a fortress that can be imained. In the north-west angle stood the palace of the bishop, whose see was removed hither from Wilton and Sherborn; but the bithop quarrelling with King Stephen, he feized the callle and put a garrifon into it, which was the principal cause of its destruction, is the fee was from after removed from hence to clifbary in

1210. The area of this ancient city is fituated on an artificial hill, whose walls were three yards thick, the ruins of which in many places in the circumference are still to be feen, and the tracks of the streets and cathedral church may be traced out by the different colour of the corn growing where once the city flood. Here fynods and parliaments have formerly been held, and hither were the states of the kingdom summoned to swear fidelity to William the Conqueror. Here also was a palace of the British and Saxon kings, and of the Roman emperors; which was deferted in the reign of Henry III. for want of water, so that one farm house is all that is left of this ancient city; vet it is called the Borough of Old Sarum, and fends two members to parliament, who are chosen by the proprietors of certain adjacent lands.

In February 1705 a fubterraneous passage was discovered at this place, of which we have the following account in the Gentleman's Magazine for March, in a letter dated Salifbury, Feb. 10. " Some persons of Salifbury on Saturday last went to the upper verge of the fortification (the citadel), and on the right hand, after they had reached the fummit, discovered a large hole. They got a candle and lantern, and went down a flight of fleps for more than 30 yards. It was an arched way feven feet wide, neatly chiffeled out of the folid rock or chalk. It is probable the crown of the arch gave way from the fudden thaw, and fell in. There is a great deal of rubbish at the entrance. It appears to be between fix and feven feet high, and a circular arch overhead all the way. These particulars I learned from the person who himself explored it; but was afraid to go farther left it might fall in again and bury him. He thinks it turns a little to the right towards Old Sarum boule, and continues under the fosse till it reached the outer verge. The marks of a chiffel, he fays, are vifible on the fide. There are two large pillars of fquarefrome at the entrance, which appear to have had a door at foot. They are 18 inches by 27, of good free-stone, and the mason work is extremely neat. The highest part of the archway is two feet below the furface of the ground.

" It is all now again filled up by order of farmer Whitechurch, who rents the ground of Lord Camelford, and thinks curiofity would bring fo many people there as to tread down his grafs whenever grafs shall be there. I went into it 30 yards, which was as far as I could get for the rubbish. I measured it with a line, and found it extend full 120 feet inwards from the two pillars supposed to be the entrance; then onwards it appeared to be filled to the roof with rubbish. By meafuring with the same line on the surface of the earth, I found it must go under the bottom of the outer bank of the outer trench; where I think the opening may be found by digging a very little way. Whether it was a Roman or a Norman work it is difficult to fay; but it certainly was intended as a private way to go into or out of the castle; and probably a fort or strong castle was built over the outer entrance. I looked for inscriptions or coins, but have not heard of any being found."

SASAFRAS. See LAURUS, BOTANY and MATERIA MEDICA Index.

SASHES, in military dress, are badges of distinction around their by the officers of most nations, either round their

wailt or over their fhoulders. Those for the British army were made of crimion fills; for the Imperial army crimion and gold; for the Prufilian army black filk and filver; the Hanoverians yellow filk; the Portuguese crimion filk with blue rafiels.

SASINE, or Seisin. See Law, N° clxiv. 15. &c. SASSA. See Myrrh, Opocalpasum, Materia Medica Index, and Bruce's Travels, vol. v. p. 27.

SATAN, a name very common in Scripture, means the devilor chief of the fallen angels. See DEVIL.

SATELLITE, in Aftronomy, the fame with a fecondary planet or moon.

SATIRE. See SATYR.

SATRAPA, or SATRAPES, in Persian antiquity, denotes an admiral; but more commonly the governor of a province.

SATTIN, a gloffy kind of filk fluff, the warp of which is very fine, and flands so as to cover the coarser woof.

woof.

SATTINET, a flight thin kind of fattin, which is commonly flriped, and is employed for different purpoles

of female drefs.

SATURANTS, in Anatomy, the fame with AESOR-

SATURANTS, in Anatomy, the same with Arson BENTS.

SATURATION, in Chemistry, is the impregnating an acid with an alkali, or vice verfa, till either receive no more, and the mixture then become neutral.

SATURDAY, the feventh and laft day of the week, fo called from the idol Seater, worshipped on this day by the ancient Saxons, and thought to be the fame as the Saturn of the Latins.

SATUREIA, SAVORY, a genus of plants belonging to the didynamia class; and in the natural method ranking under the 42d order, Verticillatæ. See BOTANY Index.

SATURN, in Aftronomy, one of the planets of our folar fystem, revolving at the distance of more than 900 millions of miles from the sun. See ASTRONOMY Index.

SATURN, in Chemistry, an appellation formerly given

SATURN, in *Heraldry*, denotes the black colour in blazoning the arms of fovereign princes.

SATURN, one of the principal of the Pagan deities, was the fon of Coelus and Terra, and the father of Jupiter. He deposed and castrated his father; and obliged his brother Titan to refign his crown to him, on condition of his bringing up none of his male iffue, that the fuccession might at length devolve on him. For this purpose he devoured all the fons he had by his wife Rhea or Cybele: but the bringing forth at one time Jupiter and Juno, the prefented the latter to her husband, and fent the boy to be nursed on Mount Ida; when Saturn being informed of her having a fon, demanded the child; but in his stead his wife gave him a stone swaddled up like an infant, which he instantly swallowed. Titan finding that Saturn had violated the contract he had made with him, put himfelf at the head of his children, and made war on his brother, and having made him and Cybele prisoners, confined them in Tartarus: but Jupiter being in the mean time grown up, raised an army in Crete, went to his father's affiltance, defeated Titan, and reftored Saturn to the throne.

Saturn Some time after, Saturn being told that Jupiter intended to dethrone him, endeavoured to prevent it; but the Satyavra- latter being informed of his intention, deposed his father, and threw him into Tartarus. But Saturn escaping from thence fled into Italy, where he was kindly received by Janus king of the country, who affociated him to the government: whence Italy obtained the name of Saturnia Tellus; as also that of Latium, from lates, "to lie hid." There Saturn, by the wisdom and mildness of his government, is faid to have produced the golden age.

Saturn is represented as an old man with four wings, armed with a feythe; fometimes he is delineated under the figure of a ferpent with its tail in its mouth. This is emblematic of the feafons, which roll perpetually in the same circle. Sometimes also Saturn is painted with a fand-glass in his hand. The Greeks say, that the flory of his mutilating his father and destroying his children is an allegory, which fignifies, that Time devours the past and present, and will also devour the future. The Romans, in honour of him, built a temple, and celebrated a festival which they called Saturnalia. During this feltival no business or profession was allowed to be carried on except cookery; all distinctions of rank ceased; flaves could say what they pleased to their masters with impunity; they could even rally them with their faults before their faces.

SATURNALIA, in Roman antiquity, a festival observed about the middle of December, in honour of the god Saturn, whom Lucan introduces giving an account of the ceremonies observed on this occasion, thus. "During my whole reign, which lasts but for one week, no public business is done; there is nothing but drinking, finging, playing, creating imaginary kings, placing fervants with their masters at table, &c. There shall be no disputes, reproaches, &c. but the rich and poor, mafters and flaves, thall be equal," &c.

On this festival the Romans sacrificed bare-headed,

contrary to their custum at other facrifices.

SATURNINE, an appellation given to persons of a melancholy disposition, as being supposed under the

influence of the planet Saturn.

SATYAVRATA, or MENU, in Indian mythology, is believed by the Hindoos to have reigned over the whole world in the earliest age of their chronology, and to have refided in the country of Dravira on the coast of the eastern Indian peninsula. His patronymic name was Vaivafwata, or child of the fun. In the Bhagavat we are informed, that the Lord of the universe, intending to preserve him from the sea of destruction, caused by the depravity of the age, thus told him how he was to act. " In feven days from the present time, O thou tamer of enemies, the three worlds will be plunged in an ocean of death; but, in the midt of the deilroying waves, a large veffel, fent by me for thy nfe, shall stand before thee. Then shalt thou take all medicinal herbs, all the variety of feeds; and, accompanied by feven faints, encircled by pairs of all brute animals, thou shalt enter the spacious ark and continue in it, secure from the flood on one immense ocean without light, except the radiance of thy holy companions. When the ship shall be agitated by an impetuous wind, thou shalt fasten it with a large sea-serpent on my horn; for I will be near thee: drawing the veffel, with thee and thy attendants, I will remain on the ocean, O chief of

men, until a night of Brahmá shall be completely ended. Satyavra-Thou fhalt then know my true greatness, rightly named the fupreme Godhead; by my favour, all thy queltions thall be answered, and thy mind abundantly inflructed." All this is faid to have been accomplished; and the flory is evidently that of Noah difguifed by Afiatic fiction and allegory. It proves, as Sir William Jones has rightly observed, an ancient Indian tradition of the universal deluge described by Moses; and enables us to trace the connexion between the eaflern and western traditions relating to that event. The same learned author has shown it to be in the highest degree probable. that the Satuavrata of India is the Cronus of Greece and the Saturn of Italy. See SATURN; and Ahatic Refearches, vol. i. p. 230, &c.

SATYR, or SATIRE, in matters of literature, a difcourse or poem, exposing the vices and follies of man-

kind. See POETRY, Part II. fect. x.

The chief fatirifts among the ancients are, Horace, Juvenal, and Perfius: those among the moderns, are, Regnier and Boileau, in French; Butler, Dryden, Rocheller, Buckingham, Swift, Pope, Young, &c. among the English; and Cervantes among the Spaniards.

SATYRIASIS. See MEDICINE Index.

SATYRIUM, a genus of plants belonging to the gynandria class; and in the natural method ranking under the 42d order, Verticillatie. See BOTANY Index.

SATYRS, in ancient mythology, a species of demigods who dwelt in the woods. They are represented as monflers, half-men, and half-goats; having horns on their heads, a hairy body, with the feet and tail of a goat. They are generally in the train that follows Bacchus. As the poets supposed that they were remarkable for piercing eyes and keen raillery, they have placed them in the same pictures with the Graces, Loves,

and even with Venus herfelf.

SAVAGE, RICHARD, one of the most remarkable characters that is to be met with perhaps in all the records of biography, was the ion of Anne countels of Macclesfield by the earl of Rivers, according to her own confession; and was born in 1698. This confession of adultery was made in order to procure a separation from her husband the earl of Macclesfield : yet, having obtained this defired end, no fooner was her fpurious offspring brought into the world, than, without the dread of thame or poverty to accuse her, the discovered the resolution of disowning him; and, as long as he lived, treated him with the most unnatural crucity. She delivered him over to a poor woman to educate as her own; prevented the earl of Rivers from leaving him a legacy of 6000l. by declaring him dead: and in effect deprived him of another legacy which his godmother Mrs Lloyd had left him, by concealing from him his birth, and thereby rendering it impossible for him to profecute his claim. She endeavoured to fend him fecretly to the plantations; but this plan being either laid afide or frustrated, she placed him apprentice with a shoemaker. In this fituation, however, he did not long continue: for his nurse dying, he went to take care of the effects of his supposed mother; and found in her boxes some letters which discovered to young Savage his birth, and the cause of its concealment.

From the moment of this discovery it was natural for. him to become diffatisfied with his fituation as a thormaker. He now conceived that he had a right to thate Savage. in the affluence of his real mother; and therefore he directly, and perhaps indifcreetly, applied to her, and made use of every art to awaken her tenderness and at-tract her regard. But in vain did he folicit this unnatural parent: the avoided him with the utmost precaution, and took measures to prevent his ever entering her house on any pretence whatever.

Savage was at this time so touched with the discovery of his birth, that he frequently made it his practice to walk before his mother's door in hopes of feeing her by accident; and often did he warmly folicit her to admit him to fee her; but all to no purpofe: he could neither

foften her heart nor open her hand.

Mean time, while he was affiduously endeavouring to rouse the affections of a mother in whom all natural affection was extinct, he was deftitute of the means of support, and reduced to the miseries of want. We are not told by what means he got rid of his obligation to the shoemaker, or whether he ever was actually bound to him; but we now find him very differently employed in order to procure a fubfiftence. In fhort, the youth had parts, and a strong inclination towards literary purfuits, especially poetry. He wrote a poem; and afterwards two plays, Woman's a Riddle, and Love in a Veil: but the author was allowed no part of the profits from the first; and from the second he received no other advantage than the acquaintance of Sir Richard Steele and Mr Wilks, by whom he was pitied, careffed, and relieved. However, the kindness of his friends not affording him a constant supply, he wrote the tragedy of Sir Thomas Overbury; which not only procured him the efteem of many persons of wit, but brought him in 2001. The celebrated Aaron Hill, Esq; was of great service to him in correcting and fitting this piece for the flage and the prefs; and extended his patronage still farther. But Savage was, like many other wits, a bad manager, and was ever in diffress. As fast as his friends rarfed him out of one difficulty, he sunk into another; and, when he found himfelf greatly involved, he would ramble about like a vagabond, with fcarce a shirt on his back. He was in one of these situations during the time that he wrote his tragedy above-mentioned : without a lodging, and often without a dinner: fo that he used to scribble on scraps of paper picked up by accident, or begged in the fliops, which he occasionally flepped into, as thoughts occurred to him, craving the favour of pen and ink, as it were just to take a memorandum.

Mr Hill also earnestly promoted a subscription to a volume of Miscellanies, by Savage; and likewise furnished part of the poems of which the volume was compofed. To this miscellany Savage wrote a preface, in which he gives an account of his mother's cruelty, in a very uncommon firain of humour.

The profits of his Tragedy and his Miscellanies together, had now, for a time, fomewhat raifed poor Savage both in circumstances and credit; so that the world just hegan to behold him with a more favourable eye than formerly, when both his fame and life were endangered by a most unhappy event. A drunken frolic in which he one night engaged, ended in a fray, and Savage unfortunately killed a man, for which he was condemned to be hanged; his friends earnestly folicited the mercy of the crown, while his mother as earnestly exerted herfelf to prevent his receiving it. The countefs of Hertford at length laid his whole cafe before Savage Queen Caroline, and Savage obtained a pardon.

Savage had now loft that tenderness for his mother which the whole feries of her cruelty had not been able wholly to reprefs; and confidering her as an implacable enemy, whom nothing but his blood could fatisfy, threatened to harafs her with lampoons, and to publish a copious nariative of her conduct, unless the centented to allow him a pension. This expedient proved successful; and the lord Tyrconnel, upon his promise of laying afide his delign of exposing his mother's cruelty, took him into his family, treated him as an equal, and engaged to allow him a penfion of 2001. a-year. This was the golden part of Savage's life. He was courted by all who endeavoured to be thought men of genius, and carefled by all who valued themselves upon a refined tafte. In this gay period of his life he published the Temple of Health and Mirth, on the recovery of Lady Tyrconnel from a languishing illness; and The Wanderer, a moral poem, which he dedicated to Lord Tyrconnel, in strains of the highest panegyric : but these praifes he in a fhort time found himself inclined to retract, being discarded by the man on whom they were bestowed. Of this quarrel Lord Tyrconnel and Mr Savage affigued very different reasons. Our author's known character pleads too firongly against him; for his conduct was ever fuch as made all his friends, fooner or later, grow weary of him, and even forced most of them to become his enemies.

Being thus once more turned adrift upon the world, Savage, whose passions were very strong, and whose gratitude was very fmall, became extremely diligent in exposing the faults of Lord Tyrconnel. He, moreover now thought himfelf at liberty to take revenge upon his mother .- Accordingly he wrote The Baffard, a poem, remarkable for the vivacity of its beginning (where he finely enumerates the imaginary advantages of base birth), and for the pathetic conclusion, wherein he recounts the real calamities which he fuffered by the crime of his parents .- The reader will not be displeased with a transcript of some of the lines in the opening of the poem, as a specimen of this writer's spirit and man-

ner of verification.

Bleft be the baffard's birth! thro' wondrous ways, He flines eccentric like a comet's blaze. No fickly fruit of faint compliance he; He! stamp'd in nature's mint with ecstafy! He lives to build, not boast, a gen'rous race; No tenth transmitter of a foolish face. I-e, kindling from within, requires no flame, He glories in a baftard's glowing name. -Nature's unbounded fon, he stands alone, His heart unbias'd, and his mind his own. -O mother! vet no mother!-'tis to you My thanks for fuch diffinguish'd claims are due.

This poem had an extraordinary fale; and its appearance happening at the time when his mother was at Bath, many persons there took frequent opportunities of repeating paffages from the Baftard in her hearing. This was perhaps the first time that ever she discovered a fense of shame, and on this occasion the power of wit was very conspicuous: the wretch who had, without scruple, proclaimed herfelf an adulteress, and who had first endeavoured to starve her son, then to transport Savage. him, and afterwards to hang him, was not able to bear the reprefentation of her own conduct, but fled from reproach, though the felt no pain from guilt; and left Bath with the utmoit hafte, to thelter herielf among the crowds of London (a.).

Some time after this, Savage formed the refolution of applying to the queen; who having once given him life, he hoped the might farther extend her goodnefs to him, by enabling him to support it.—With this view, he published a poem on her birth-day, which he entitled The Volunter-Laureet; for which the was pleafed to

fend him 501, with an intimation that he might annually expect the fame bounty. But this annual allowance was nothing to a man of his ftrange and fingular extravagance. His ufund cultom was, as foon as he had received his penfion, to difappear with it, and fecrete himfelf from his most intimate friends, till every stilling of the 501, was sport; but he would never inform any person where he had been, or in what manner his money had been difficulted.—From the reports, however, of some, who found means to penetrate his haunts,

(A) Mr Boswell, in his life of Dr Johnson, has called in question the story of Savage's birth, and grounded his fulpicion on two mistakes, or, as he calls them, falschoods, which he thinks he has discovered in his friend's memoirs of that extraordinary man. Johnson has said, that the earl of Rivers was Savage's godfather, and gave him his own name; which, by his direction, was inferted in the register of the parish of St Andrew's, Holborn. Part of this, it feems, is not true; for Mr Boswell carefully inspected that register, but no such entry is to be found. But does this omiffion amount to a proof, that the perion who called himself Richard Savage was an impostor, and not the fon of the earl of Rivers and the counters of Macclesfield? Mr Boswell thinks it does; and, in behalf of his opinion, appeals to the maxim, falfum in uno, falfum in omnibus. The folidity of this maxim may be allowed by others; but it was not without furprife that, on fuch an occasion, we found it adopted by the biographer of Johnson. To all who have compared his view of a celebrated cause, with Stuart's letters on the same subject addressed to Lord Mansfield, it must be apparent, that, at one period of his life, he would not have deemed a thousand such mistakes sufficient to invalidate a narrative otherwise fo well authenticated as that which relates the birth of Savage. The truth is, that the omiffion of the name in the register of St Andrew's may be easily accounted for, without bringing against the wretched Savage an accufation of imposture, which neither his mother nor her friends dated to urge when provoked to it by every possible motive that can influence human conduct. The earl of Rivers would undoubtedly give the direction about registering the child's name to the same person whom he entrusted with the care of his education; but that person, it is well known, was the countels of Macclesfield, who, as the had refolved from his birth to diffown her fon, would take care that the direction should not be obeyed.

That which, in Johnfon's life of Savage, Mr Bofwell calls a fecond failchood, feems not to amount even to a miltake. It is there flated, that "Lady Macelesfield having lived for fome time upon very uneafty terms with her hulband, thought a public confession of adultery the most obvious and expeditious method of obtaining her liberty." This Mr Bofwell thinks cannot be true; because, having peruded the journals of both houses of parliament at the period of her divorce, he there found it authentically adectained, that fo far from voluntarily submitting to the ignominous charge of adultery, the made a strenuous defence by her counsel. But what is this to the purpose? Johnfon has nowhere faid, that the confession for adultery at her bouse of parliament, but only that her confession was public: and as he has taught us in his Dictionary, that whatever is notorious or generally known is public; public, in his fense of the word, that confession certainly was, if made to different individuals, in faich a manner as showed that she was not anxious to conceal it from her husband, or to prevent its notoriety. She might, however, have very cogent reasons for denying her guilt before parliament, and for making as stremous defence by her counsel; as indeed, had the acted chervise, it is very little probable that her great fortune would have been restored to her, or that she could have obtained a second husband.

But Mr Boswell is of opinion, that the person who assumed the name of Richard Savage was the son of the shoemaker under whose care Lady Macclessfield's child was placed; because "his not being able to obtain payment of Mrs Lloyd's legacy must be imputed to his conscionsfies that he was not the real person to whom that legacy was left." He must have a willing mind who can admit this argument as a proof of imposlure. Mrs Lloyd died when Savage was in his 10th year, when he certainly did not know or suspect that he was the person for whom the legacy was intended, when he had none to prosecute his claim, to shelter him from oppression, or to call in law to the affistance of justice. In such circumstances he could not have obtained payment of the money, unless the executors of the will had been inspired from heaven with the knowledge of the person to whom it was due.

To thefe and a thousand such idle eavils it is a sufficient answer, that Savage was acknowledged and patronized as Lady Macclessield's son by Lord Tyrconnel, who was that lady's nephew; by Sir Richard Steele, the intimate friend of Colonel Brett, who was that lady's scond husband; by the queen, who, upon the authority of that lady and her creatures, once thought Savage capable of entering his mother's house in the night with an intent to murder her; and in effect by the lady herself, who at one time was prevailed upon to give him colo and who side before the fatire of the Bastand, without offering, cither by herself or her friends, to deny that the author of that poem was the person whom he called himself, or to infinuate so much as that he might possibly be the son of a shoemaker. To Mr Boswell all this seems strange: to others, who look not with so keen an eye for suppositious births, we think it must appear convincing.

Sarage, it would feem that he expended both his time and his cash in the most fordid and despicable sensuality; particularly in eating and drinking, in which he would indulge in the most unfocial manner, fitting whole days and nights by himfelf, in obfcure houses of entertainment, over his bottle and trencher, immerfed in filth and floth, with fcarce decent apparel; generally wrapped up in a horseman's great coat; and, on the whole, with his very homely countenance, altogether, exhibiting an object the most disgusting to the fight, if not to some other

> His wit and parts, however, still raised him new friends as fast as his behaviour lost him his old ones. Yet fuch was his conduct, that occasional relief only furall attempts made by his friends to fix him in a decent way. He was even reduced fo low as to be destitute of a lodging; infomuch that he often paffed his nights in ers; fometimes in ceilars amidst the riot and filth of the most profligate of the rabble; and not feldom would be walk the fireets till he was weary, and then lie down in fummer on a bulk, or in winter with his affociates among

the ashes of a glass-house.

Yet, amidit all his penury and wretchedness, had this man fo much pride, and fo high an opinion of his own therit, that he ever kept up his foirits, and was always ready to reprefs, with forn and contempt, the least appearance of any flight or indignity towards himfelf, in the behaviour of his acquaintance; among whom he looked upon none as his superior. He would be treated as an equal, even by perfons of the highest rank. We have an inflance of this prepofterous and inconfiftent pride, in his refusing to wait upon a gentleman who was defirous of relieving him when at the lowest ebb of distress, only because the melinge signified the gentleman's delire to fee him at nine in the morning. Savage could not bear that any o e should presume to absolutely rejected the proffered kindness. This life, unhappy as it may be already imagined, was yet rendered more unhappy, by the death of the queen, in 1738; which stroke deprived him of all hopes from the court. His pension was discontinued, and the infolent manner in which he demanded of Sir Robert Walpole to have it reflored, for ever cut off this confiderable fupply; which possibly had been only delayed,

His diffress became now fo great, and so notorious, that a scheme was at length concerted for procuring him a permanent relief. It was proposed that he thould retire it to Wale, with an allowance of 50l. per arnom, on which he we to live privately in a cheap place, for ever quitting his town-haunts, and refigning all farther pretentions to frme. This offer he feemed gladly to accept; but his intentions were only

in order to big it upon the stage.

In 1739, he fet out in the Bridol flage-coach for Swanf v, and was furnished with 1; guineas to bear the ex ence of his jumey. But, on the 14th day after his dry rive, his fries and benefactors, the principal of wh m was to other than the great Mr Pope, who

expected to hear of his arrival in Wales, were surprised Savage with a letter from Savage, informing them that he was yet upon the road, and could not proceed for want of money. There was no other method than a remittance: which was fent him, and by the help of which he was enabled to reach Brittol, from whence he was to proceed to Swanfey by water. At Briftol, however, he found an embargo laid upon the shipping; so that he could not immediately obtain a paffage. Here, therefore, being obliged to stay for some time, he, with his inhabitants, that he was frequently invited to their houfes, diftinguished at their public entertainments, and treated with a regard that highly flattered his vanity, and therefore easily engaged his affections. At length, with great reluctance, he proceeded to Swanfey; where he lived about a year, very much diffatisfied with the diminution of his falary; for he had, in his letters, treated his contributors to infolently, that most of them withdrew their subscriptions. Here he finished his tragedy, and refolved to return with it to London; which was strenuously opposed by his great and constant friend Mr Pope; who proposed that Savage should put this play into the hands of Mr Thomson and Mr Mallet, in order that they might fit it for the stage, that his friends should receive the profits it might bring in, and that the author should receive the produce by way of annuity. This kind and prudent icheme was rejected by Savage with the utmost contempt .- He declared he would not fubmit his works to any one's correction; and that he should no longer be kept in leading strings. Accordingly he foon returned to Bristol in his way to London; but at Bristol, meeting with a repetition of the same kind treatment he had before found there, he was tempted to make a fecond flay in that opulent city for some time. Here he was again not only carefled and treated, but the fum of gol. was raifed for him, with which it had been happy if he had immediately departed for London: But he never confidered that a frequent repetition of fuch kindness was not to be expected, and that it was possible to tire out the generofity of his Briftol friends, as he had before tired his friends every where elfe. In short, he remained here till his company was no longer welcome. His vifits in every family were too often repeated; his wit had loft its novelty, and his irregular behaviour grew troublesome. Necessity came upon him before he was aware; his money was fpent, his clothes were worn out, his appearance was shabby; and his presence was difgustful at every table. He now began to find every man from home at whose house he called; and he found it distinct to obtain a dinner. Thus reduced, it would have been prudent in him to have withdrawn from the place; but prudence and Savage were never acquainted. He staid, in the midst of poverty, hunger, and contempt, till the miftress of a coffee-house, to whom he owed about eight pounds, arrefted him for the debt. He remained for some time, at a great expence, in the house of the sheriff's orlicer, in hopes of

But it was the fortune of this extraordinary mortal always to find more friends than he deferved. The keeper of the prilon took compassion on him, and greatly fostened the rigours of his confinement by every kind of indulgence; he supported him at his own table, gave him a commodious room to himfelf, allowed him to thand at the door of the waol, and even frequently took him into the fields for the benefit of the air and fhips in this place than he had usually fuffered during the greatest part of his life.

While he remained in this not intolerable prison, his ingratitude again broke out, in a bitter fatire on the city of Briftol; to which he certainly owed great obligations, notwithstanding the circumstances of his arrest; which was but the act of an individual, and that attended with no circumitances of injuffice or cruelty. This fatire he entitled London and Briftol delineated; and in it he abused the inhabitants of the latter, with such a fpirit of refentment, that the reader would imagine he had never received any other than the most injurious

treatment in that city.

When Savage had remained about fix months in this hospitable prison, he received a letter from Mr Pope, ing a charge of very atrocious ingratitude. What were the particulars of this charge we are not informed; but, from the notorious character of the man, there is reafon to fear that Savage was but too justly accused. He, however, folemply proteited his innocence; but he was very unufually affected on this occasion. In a few days after, he was feized with a diforder, which at first was not suspected to be dangerous: but growing daily more languid and dejected, at last a fever seized him; and he expired on the 1st of August 1743, in the 46th year of his age.

Thus lived, and thus died, Richard Savage, Efg. leaving behind him a character strangely chequered with vices and good qualities. Of the former we have feen a variety of inflances in this abiltract of his life; of the latter, his peculiar fituation in the world gave him but few opportunities of making any confiderable display. He was, however, undoubledly a man of excellent parts; and had he received the full benefits of a liberal education, and had his natural talents been cultivated to the best advantage, he might have made a respectable figure in life. He was happy in a quick difcernment, a retentive memory, and a lively flow of wit, which made his company much coveted; nor was his judgement both of writings and of men inferior to his wit: but he was too much a flave to his passions, and his pasfions were too eafily excited. He was warm in his friendships, but impla-able in his earnity; and his greatfavours which he thought it their duty to confer on him: it is therefore t e let to be wondered at, that he never rightly eftime the kindness of his many friends and benefactors, or merved a grateful and due fense of their generally tow to in

The works of his original writer, after having long

mirable Memoirs of Savage, written by Dr Samuel Savage.

SAVAGE is a word fo well understood as scarcely to require explanation. When applied to inferior animals, it denotes that they are wild, untamed, and cruel; when applied to man, it is of much the fame import with barbarian, and means a person who is untaught and uncivilized, or who is in the rude state of uncultivated nature. That fuch men exist at prefent, and have existed in most ages of the world, is unaeniable; but a question the determination of which is of confiderable importance in developing the nature of man, and afcertaining the qualities and powers of the human mind. Upon this fubject, as upon most others, opinions are very various, and the fyftems built upon them are confequently very contradictory. A large fect of ancient philosophers maintained that man fprung at first from the earth like his brother vegetables; that he was without ideas and without speech; and that many ages clapsed before the race acquired the use of language, or attained to greater knowledge than the beails of the forest. Other fects again, with the vulgar, and almost all the poets, maintained that the first mortals were wifer and happier, and more powerful, than any of their offspring; that mankind, instead of being originally savages, and rising to the state of civilization by their own gradual and progressive exertions, were created in a high degree of perfection; that, however, they degenerated from that state, and that all nature degenerated with them. Hence the various ages of the world have almost everywhere been compared to gold, filver, brals, and iron, the golden having been always supposed to be the first

Since the revival of letters in Europe, and ef ecially during the prefent century, the same question has been much agitated both in France and England, and by far fcience have declared for the original favagitm of men-Such of the ancients as held that opinion were counternanced by the atheiftic cosmogony of the Phænicians, and by the early hiltory of their own nations; the moderns build their fystem upon what they suppose to be the constitution of the human mind, and upon the late improvements in arts and sciences. As the question must finally be decided by historical evidence, before we make our appeal to facts, we shall consider the force of the modern reasonings from the supposed innate powers of the human mind; for that reasoning is totally different from the other, and to blend them together would on prevent the reader from having an adequate conception of either.

Upon the supposition that all mankind were original-Iv favages, deflitute of the use of speech, and, in the firstest sense of the words, mutum et turpe pecur, the great diffi ulty is to conceive how they could emerge vilized. The modern advocates for the universality of human mind enflowed, and by which the favage is, tween right and wrong, and prompted to do every thing

Savage. of what will contribute, in the first instance, to the ease

and accommodations of life. These inflinets, they think, brought machind together, when the reasoning faculty, which had litherto been dormant, being now roufed by the collisions of fociety, raide its observations upon the confequences of their different actions, taught them to avoid fuch as experience showed to be pernicious, and thus was the progress of civilization begun. But this theory is opposed by objections which we know not how to obviate. The bundle of inflincts with which has to amply furnished the human mind is a mere chimera. (See Instruct). But granting its reality, it is by no means fufficient to produce the confequences which are derived from it. That it is not the parent of language, we have shown at large in another place (see LANGUAGE, No 1-7.); and we have the confession of some of the ablest advocates for the original favagism of man, that large focieties must have been formed before language could have been invented. How focieties, at least large societies, could be formed and kept together without language, we have not indeed been told; but we are affured by every historian and every traveller of credit, that in such societies only have mankind been found civilized. Among known favages the focial florge is very much confined; and therefore, had it been in the first race of men of as enlarged a nature, and as safe a guide, as the inflinctive philosophers contend that it was, it is plain that those men could not have been favages. Such an appetite for fociety, and fuch a director of conduct, instead of enabling mankind to have emerged from favagifm, would have effectually prevented them from ever becoming favage; it would have knit them together from the very first, and furnished opportunities for the progenitors of the human race to have begun the process of civilization from the moment that they dropt from the hands of their Creator. Indeed, were the modern theories of internal fenses and focial affections well founded, and were these senses and affections sufficient to have impelled the first men into society, it is not easy to be conceived how there could be at this day a favage tribe on the face of the earth. Natural causes, operating in the same direction and with the same force, must in every age produce the same offects; and if the locial affections of the first mortals impelled them to fociety, and their reasoning faculties immediately commenced the process of civilization, surely the same affections and the same faculties would in a greater or less degree have had the same effect in every age and on every tribe of their numerous offspring; and we should everywhere observe mankind advancing in civilization, inflead of flanding flill as they often do, and fometimes retreating by a retrograde motion. however, is far from being the case. Hordes of savages exist in almost every quarter of the globe; and the Chinese, who have undoubtedly been in a state of civilization for at least 2000 years, have during the whole of that long period been abfolutely stationary, if they have not loft some of their ancient arts. (See PORCELAIN). The origin of civilization, therefore, is not to be looked for in human inflincts or human propenfities, carrying men forward by a natural progress; for the supposition of fuch propenfities is contrary to fact; and by fact and historical evidence, in conjunction with what we know of the nature of man, must this great question be Savage.

In the article RELIGION, No 7. it has been shewn that the first men, if left to themselves without any instruction, instead of living the life of savages, and in process of time advancing towards civilization, must have perished before they acquired even the use of some of their fendes. In the fame article it has been shown (No 14-17.), that Mofes, as he is undoubtedly the oldest historian extant, wrote likewise by immediate inipiration; and that therefore, as he represents our first parents and their immediate descendants as in a state far removed from that of favages, it is vain to attempt to deduce the originality of such a state from hypothetical theories of human nature. We have, indeed, heard it observed by some of the advocates for the antiquity and universality of the savage state, that to the appeal to revelation they have no objection, provided we take the Mofaic account as it stands, and draw not from it conclusions which it will not support.

They contend, at the fame time, that there is no argument fairly deducible from the book of Genefis which militates against their position. Now we beg leave to remark, that besides the reasoning which we have already used in the article just referred to, we have as much positive evidence against their position as the nature of the Mofaic history could be supposed to af-

We are there told that God created man after his own image; that he gave him dominion over every thing in the fea, in the air, and over all the earth; that he appointed for his food various kinds of vegetables; that he ordained the Sabbath to be observed by him, in commemoration of the works of creation; that he prepared for him a garden to till and to drefs; and that, as a test of his religion and submission to his Creator, he forbade him, under fevere penalties, to eat of a certain tree in that garden. We are then told that God brought to him every animal which had been created; and we find that Adam was fo well acquainted with their feveral natures as to give them names. When, too, an helpmate was provided for him, he immediately acknowledged her as bone of his bone, flesh of his flesh, and called her woman, because she was taken out of man.

How these facts can be reconciled to a state of ignorant favagifm is to us absolutely inconceivable; and it is indeed strange, that men who profess Christianity should appeal to reason, and stick by its decision on a question which revelation has thus plainly decided against them. But it is agreeable to their theory to believe that man role by flow steps to the full use of his reasoning powers. To us, on the other hand, it appears equally plaufible to suppose that our first parents were created, not in full maturity, but mere infants, and that they went through the tedious process of childhood and youth, &c. as to suppose that their minds were created weak, uninformed, and uncivilized, as are those of fa-

But if it be granted that Adam had a tolerable share of knowledge, and fome civilization, nothing can be more natural than to suppose that he would teach his descendants what he knew himself; and if the Scriptures are to be believed, we are certain that fome of them possessed more than favage knowledge, and better Savage. than favage manners. But inflead of going on to fur-

ther perfection, as the theory of modern philosophers would lead us to fuppole, we find that mankind degenerated in a most association degree; the causes of which we have already in part developed in the article POLY-

THEISM, Nº 4, &c.

This early degeneracy of the human race, or their fudden progrefs towards ignorance and favagiim, appears to lead to an important confequence. If men to very foon after their creation, poffetling, as we have feen they did, a confiderable thare of knowledge and of civilization, inflead of improving in either, degenerated in both refpects, it would not appear that human nature has that flrong propenfity to refinement which many philosophers imagine; or that had all men been originally favage, they would have civilized themselves by their own exertions.

Of the ages before the flood we have no certain account anywhere but in Scripture; where, though we find mankind represented as very wicked, we have no reason to suppose them to have been absolute savages. On the contrary, we have much reason, from the short account of Moses, to conclude that they were far advanced in the arts of civil life. Cain, we are told, built a city; and two of his early descendants invented the harp and organ, and were artificers in brafs and iron. Cities are not built, nor munical inftruments invented, by favages, but by men highly cultivated : and furely we have no reason to suppose that the righteous posterity of Seth were behind the apostate descendants of Cain in any branch of knowledge that was really useful, That Noah and his family were far removed from favagim, no one will controvert who believes that with them was made a new covenant of religion; and it was unquestionably their duty, as it must otherwise have been their wish, to communicate what knowledge they possesfed to their posterity. Thus far then every confishent Christian, we think, must determine against original and

universal savagism. In the preliminary discourse to Sketches of the Hiftory of Man, Lord Kames would infer, from some facts which he flates, that many pairs of the human race were at first created, of very different forms and natures, but all depending entirely on their own natural talents. But to this flatement he rightly observes, that the Mofaic account of the Creation opposes insuperable objections. " Whence then (fays his Lordship) the degeneracy of all men into the favage state & To account for that difmal catastrophe, mankind mutt have fuffered some dreadful convulsion." Now, if we mistake not, this is taking for granted the very thing to be proved. We deny that at any period fince the creation of the world, all men were funk into the state of favages; and that they were, no proof has yet been brought, nor do we know of any that can be brought, unless our fashionable philosophers choose to prop their theories by the buttress of Sanchoniatho's Phenician colmogony. (See Sanchoniatho). His Lordship. however, goes on to fay, or rather to fuppole, that the confusion at Babel, &c. was this dreadful convulsion: For, fays he, " by confounding the language of men, and feattering them abroad upon the face of all the earth, they were rendered favages," Here again we have a positive affertion, without the least shadow of proof; for it does not at all appear that the confusion of

language, and the fouttering abroad of the people, was Savagea circumstance such as could induce universal savagifin, There is no reason to think that all the men then alive were engaged in building the tower of Babel; nor does of those who were engaged in it was so much changed as the reader is apt to infer from our English verfion. (See PHILOLOGY, Nº 8-16.). That the builders were feattered, is indeed certain; and if any of them were driven, in very fmall tribes, to a great diliance from their brothren, they would in process of time inevitably become favages. (See POLYTHELM, No 4-6, and LANGUAGE, No 7.); but it is evident, from the Scripture account of the peopling of the earth, that the defcendants of Shem and Japheth were not fcattered over the face of all the earth, and that therefore they could not be rendered favage by the cataftrophe at Babel. In the chapter which relates that wonderful event, the generations of Shem are given in order down to Abram; but there is no indication that they had fuffered with the builders of the tower, or that any of them had degenerated into the flate of favages. On the contrary, they appear to have possessed a considerable degree of knowledge; and if any credit be due to the tradition which represents the father of Abraham as a statuary, and himself as skilled in the science of astronomy, they must have been far advanced in the arts of refinement. Even fuch of the posterity of Ham as either emigrated or were driven from the plain of Shinar in large bodies, io far from finking into favagifm, retained all the accom: lithments of their antediluvian ancestors, and became afterwards the instructors of the Greeks and Romans. This is evident from the history of the Egyptians and other eastern nations, who in the days of Abraham were powerful and highly civilized. And that for many ages they did not degenerate into barbarifm, is apparent from its having been thought to exalt the character of Moses, that he was learned in all the wisdom of the Egyptians, and from the wildom of Solomon having been faid to excel all the wildom of the east country and of Egypt.

Thus decided are the Scriptures of the Old Testament against the universal prevalence of savagism in that period of the world; nor are the most authentic Pagan writers of antiquity of a different opinion. Molchus the Phenician \*, Democritus, and Epicurus, appear to be \* Strabe, the first champions of the savage state, and they are lib. wii. followed by a numerous body of poets and rhapfodifts, Diog. Laersamong the Greeks and Romans, who were unquestion-et Vita ably devoted to fable and fiction. The account which Epicuri. they have given of the origin of man, the reader will find in another place (fec THEOLOGY, Part I. fect. 1.) : But we hardly think that he will employ it in support of the fashionable doctrine of original favagism. Again t the wild reveries of this school are posted ail the leaders of the other fects, Greeks and barbarians; the philofophers of both Academies, the fages of the Italian and Alexandrian schools; the Magi of Persia; the Bramins of India, and the Druids of Gaul, &c. The testimony of the early historians among all the ancient nations, indeed, who are avowedly fabulifts, is very little to be depended on, and has been called in question by the most judicious writers of Pagan antiquity. (See Plutarch Vita Thef. fub mit.; Thucyd. 1. 1. cap. 1.; Strabo, 1. 11. p. 507.; Livy Pref. and Varro ap. August. de Ci.

Sav. t. Dei). The more populous and extensive kingdoms and focieties were civilized at a period prior to the records of profane hillory : the prefumption, therefore, without taking revelation into the account, certainly is, that they were civilized from the beginning. This is rendered further probable from other circumitances. To account for their fystem, the advocates of savagism are obliged, as we have feen, to have recourse to numerous suppositions. They imagine, that fince the creation dreadful convultions have happened, which have spread ruin and devastation over the earth, which have destroyed learning and the arts, and brought on favagifm by one fudden blow. But this is reasoning at random, and without a veitige of probability: for the only convulsion that can be mentioned is that at Babel, which we have already

> fhown to be inadequate. Further, it does not appear that any people who were once civilized, and in process of time had degenerated into the favage or barbarous state, have ever recovered their prittine condition without foreign aid. From whence we conclude, that man, once a favage, would never have raifed himfelf from that hopeless thate. This appears evident from the hittory of the world; for that it requires strong incitements to keep man in a very high thate of knowledge and civilization, is evident from what we know of the numerous nations which were famed in antiquity, but which are now degenerated in an aftonishing degree. That man cannot, or, which is the fame thing, has not rifen from barbarism to civilization and science by his own efforts and natural talents, appears further from the following facts. The rudiments of all the learning, religion, laws, arts, and fciences, and other improvements that have enlightened Europe, a great part of Asia, and the northern coast of Africa, were fo many rays diverging from two points, on the banks of the Euphrates and the Nile. In proportion as nations receded from these two sources of humanity and civilization, in the fame proportion were they more and more immerfed in ignorance and barbarism. The Greeks had made no progress towards civilization when the Titans first, and afterwards colonies from Egypt and Phenicia, taught them the very elements of fcience and urbanity \*. The aborigines of Italy were in the fame state prior to the arrival of the Pelasgi, and the colonies from Arcadia and other parts of Greece. Spain was indebted for the first seeds of improvement to the commercial spirit of the Phenicians. The Gauls, the Britons, and the Germans, derived from the Romans all that in the early periods of their history they knew of science, or the arts of civil life, and so on of other nations in antiquity. The fame appears to be the case in modern times. The countries which have been discofrom which, if they have emerged at all, it has been exactly in proportion to their connection with the inhafank in important, during the reign of monkery, did not recover by the chorts of its own inhabitants. Had not the Greeks. 10 o in the 15th century took refuge in Italy from the cruelty of the Turks, brought with them their ancient books, and taught the Italians to the favor flat, and the innate powers of the human mit J, hid at this day been gross and ignorant Grages

ourielyes, incapable of reasoning with accuracy upon Savage, any subject. That we have now advanced far before our matters is readily admitted; for the human mind. when put on the right track, and fourred on by emulation and other incitements, is capable of making great improvements: but between improving science, and and emerging from lavagilm, every one perceives there is an immente difference.

Lord Kames observes, that the people who inhabit a grateful foil, where the necessaries of life are easily procured, are the first who invent useful and ingenious arts, and the first who figure in the exercises of the mind. But the Egyptians and Chaldeans, who are thought to support this remark, appear from what we have feen to have derived their knowledge from their antediluvian progenitors, and not from any advantages of situation or strength of genius. Besides, the inhabitants of a great part of Africa, of North and South America, and of many of the itlands lately discovered, live in regions equally fertile, and equally productive of the necessaries of life, with the regions of Chaldea and Egypt; yet these people have been savages from time immemorial, and continue still in the same state. The Athenians, on the other hand, inhabited the most barren and ungrateful region of Greece, while their perfection in the arts and sciences has never been equalled. The Norwegian colony which fettled in Iceland about the beginning of the 8th century, inhabited a most bleak and barren foil, and yet the fine arts were eagerly cultivated in that dreary region when the rest of Europe was funk in ignorance and harbanism. Again, there are many parts of Africa, and of North and South America, where the foil is neither fo luxuriant as to beget indolence, nor so barren and ungrateful as to depress the spirits by labour and poverty; where, notwithstanding, the inhabitants still continue in an uncultured state. From all which, and from numerous other inflances which our limits permit us not to bring forward, we infer that some external influence is necessary to impel favages towards civilization; and that in the history of the world, or the nature of the thing, we find no instance of any people emerging from barbarism by the progressive efforts of their own genius. On the contrary, as we find in focieties highly cultivated and luxurious a strong tendency to degenerate, so in favages we not only find no mark of tendency to improvement, but rather a rooted aversion to it. Among them, indeed, the foc'al appetite never reached beyond their own horde. It is, therefore, too weak and too confined to dispose them to unite in large communities; and of courfe, had all mankind been once in the favage state, they never could have arrived at any confiderable degree of civilization.

Instead of trusting to any such natural progress, as is contended for, the Providence of Heaven, in pity to the human race, appears at different times, and in different countries, to have raifed up some persons endowed with superior talents, or, in the language of poetry, fome heroes, demi-gods, or god-like men, who having civilized, by useful inventions, legislation, religious institutions, and moral arrangements, fowed the tirst feeds of civilization among the hordes of wandering difunited barbarians. Thus we find the Chinese look up to their Fohee, the Indians to Brahma, the Perfians

# See Ti-

Savage to Zoroaster, the Chaldeans to Oanes, the Egyptians to Thoth, the Phenicians to Melicerta, the Scandina-Savanna-la-vians to Odin, the Italians to Janus, Saturn, and Picus, and the Peruvians to Manco. In later times, and almost within our own view, we find the barbarous nations of Ruffia reduced to fome order and civilization by the aftonithing powers and exertions of Peter the Great. The endeavours of fucceeding monarchs, and especially of Catharine II. have powerfully contributed to the improvement of this mighty empire. In many parts of it, however, we still find the inhabitants in a state very little superior to savagism; and through the most of it, the lower, and perhaps the middling orders, appear to retain an almost invincible aversion to \*See Ruffia. all further progrets \*. A fact which, when added to numerous others of a fimilar nature which occur in the history of the world, feems to prove indifputably that there is no fuch natural propenfity to improvement in the human mind as we are taught by some authors to believe. The origin of favagifm, if we allow mankind to have been at first civilized, is easily accounted for by natural means: The origin of civilization, if at any period the whole race were favages, cannot, we think, be accounted for otherwise than by a miracle, or repeated miracles.

To many persons in the present day, especially, the doctrine we have now attempted to establish will appear very humiliating; and perhaps it is this alone that has prevented many from giving the subject to patient a hearing as its importance feems to require. It is a fashionable kind of philosophy to attribute to the human mind very pre-eminent powers ; which fo flatter our pride, as in a great measure, perhaps, to pervert our rea-The history of the fon, and blind our judgement. world, and of the dispensations of Gud to man, are certainly at variance with the popular doctrine respecting the origin of civilization: for if the human mind be possessed of that innate vigour which that doctrine attributes to it, it will be extremely difficult to account for those numerous facts which seem with irresittible evidence to proclaim the contrary; for that unceafing us; and for those various and important revelations He was vouchfafed to us. Let us rejoice and be thankful that we are men, and that we are Christians; but let not a vain philosophy tempt us to imagine that we are angels or gods.

SAVAGE Island, one of the small islands in the South fea, lying in S. Lat. 19. 1. W. Long. 169. 37. It is about feven leagues in circuit, of a good height, and has deep water close to its shores. Its interior parts are supposed to be barren, as there was no foil to be feen upon the coaft; the rocks alone supplying the trees with humidity. The inhabitants are exceedingly warlike and fierce, to that Captain Cook could not have any inter-

SAVANNA LA MAR, a town of Jam ica, fituated in the county of Cornwall in that ident .- It is the this about one hundred other houses. It belongs to

SAVANNAH, formerly the capital of Georgia in Savan ah, North America, fituated on a river of the fame name, and 17 miles from its mouth, in W. Long. 80, 20, N. Lat. 32. o. This town is regularly built in form of a parallelogram.

SAVARY, JAMES, an eminent French writer on the Being bred to merchandile, he continued in trade until 1658; when he left off the practice, to cultivate the theory. He had married in 1650; and in 1660, when the king declared a purpose of affirming privileges and penfions to fuch of his subjects as had twelve children alive, Mr Savary was not too rich to put in his claim to the royal bounty. He was afterwards admitted of the council for the reformation of commerce; and the orders which passed in 1670 were drawn up by his inftructions and advice. He wrote Le Parfait Negociant, 4to; and, Avis et conseils sur les importantes matieres du Commerce, in 410. He died in 1690; and out of 17 children whom he had by one wife, left 11. Two of his fons, James and Philemon Lewis, laboured jointly on a great work, Dictionnaire Univerfelle du Commerce. 2 vols folio. This work was begun by James, who was inspector general of the manufactures at the customhouse, Paris; who called in the affistance of his brother Philemon Lewis, although a canon of the royal church of St Maur; and by his death left him to finish it. This work appeared in 1723, and Philemon afterwards added a third supplemental volume to the former. Poflethwayte's English Dictionary of Trade and Com-

SAVARY, an eminent French traveller and writer. was born at Vitre, in Brittany, about the year 1748. He studied with applause at Rennes, and in 1776 travelled into Egypt, where he remained almost three years. numents, and in examining the national manners. After making himfelf acquainted with the knowledge and philosophy of Egypt, he visited the islands in the Archipelago, where he fpcnt 18 months. On his return to France, in 1780, he published, I. A Translation of the Koran, with a fliort Life of Mahomet, in 1783, 2 vols Svo. 2. The Morality of the Koran, or a colwork extracted from his translation, which is executed both elegant and faithful. 3. Letters on Egypt, in 3 vols 8vo, in 1785. In these the author makes his obders inter-thing arry thing he relates. His deferiations too much ornamented. He has been july centured for painting modern Egypt and its inhabitants in too high colours. These letters, however, were bought up Paris of a malady contract d from too intente application. A tenfible o'Ar ction in the right lobe of the

from Savary,

known that when the organization of one of the viceera has been much deranged, deep traces of it will ever remain. His active mind, however, made him regardless of his health, and he conceived it his duty to profit by those appearances of recovery which he experienced at the close of the summer and the beginning of autumn, to put into order his travels into the islands of the Archipelago, intended as a continuation of his letters on Egypt. His warmth of temper was exalperated by fome lively criticisms which had been made on his former productions, and he gave himself up to study with a degree of activity of which the confequences were fufficiently obvious. An obstruction in the liver again took place, and made a new progress; his digestion became extremely languid; fleep quite forfook him, both by night and by day; a dry and troublesome cough came on; his face appeared bloated, and his legs more and more inflamed. The use of barley-water and cream of tartar still however promoted, in some degree, the urinary fecretions, and afforded fome little glimmering of hope. In this fituation he returned to Paris in the beginning of the year 1788, to attend to the publication of his new work concerning the illands of the Archipelago, particularly the ifle of Candia. He had then all the fymptoms of a dangerous dropfy, which became still more alarming from the very exhausted state of the vifeera. The right lobe of the liver was extremely hard and fenfible. The patient had shiverings without any regular returns, and his strength was undermined by a hectic fever. At the same time still more uneasy symptoms took place, those of a dropsy in the chest; but the circumstances which destroyed all hope, and announced his approaching diffolution, were a fevere pain in the left fide, with a very troublesome cough, and a copious and bloody expectoration (in hepaticis, fays Hippocrates, Sputum cruentum mortiferum); his respiration became more and more difficult; his strength was exhausted, and his death took place on the 4th of February 1788, attended with every indication of the most copious overflowing in the cheft, and of an abfeefs in the liver .-Thus was destroyed, in the vigour of his age, an author whose character and talents rendered him worthy of the

Mr Savary's genius was lively and well cultivated; his heart warm and benevolent; his imagination vigorous; his memory retentive. He was cheeriul and open; and had fo great a talent for telling a ftory, that his company was not lefs agreeable than influctive. He did not mingle much with the world, but was fatisfied with performing well the duties of a fon, of a brother, and of a friend.

"SAUCISSE, or SAUCISSON, in mining, is a long pipe or bag, made of cloth well pitched, or fometimes of leather, of about an inch and a half diameter, filled with powder, going from the chamber of the mine to the entrance of the gallery. It is generally placed in a wooden pipe called an anget, to prevent its growing damp. It ferves to give fire to mines, caiffons, bomb-chefts, &c.

Saucisson, is likewife a kind of fafcine, longer than the common ones: they ferve to raife batteries and to repair breaches. They are also used in making epathements, in stopping passages, and in making traverses over a wet ditch, &cc.

SAVI., a river of Germany, which has its fource in Upper Carniola, on the frontiers of Carinthia. It runs

through Carniola from west to east, afterwards separates Saverdroog Schwonia from Croatia, Bosnia, and part of Servia, and then falls into the Danube at Belgrade.

SAVENDROOG, a throng fortress of Hindustan, in the Mysore kingdom. It is fusuated on the funmit of a vall rock, measuring about half a mile in perpendicular height, its base being upwards of eight miles in circumference, and divided by a chasm at the top, by which it is formed into two hills, each having a peculiar kind of defence. They answer the purpose of two citadels which are capable of being maintained, independent of the lower works, which are remarkably strong. It was, however, taken by the gallantry of British troops in the year 1791, after a stege of seven days continuance. It is 18 niles west of Bangalore. See INDIA, N° 167.

SAVER-KROUT. See KROUTE.

SAVERNAKE-FOREST, is fituated near Marlborough in Wilthire, and is 12 miles in circumference,
well flocked with deer, and delightful from the many
vitas cut through the woods and coppices with which it
abounds. Eight of these visas meet, like the rays of a
slar, in a point near the middle of the forest, where an
octagon tower is erected to correspond with the vissas;
through one of which is a view of Tottenham Park,
Lord Allesbury's seat, a stately edifice erected after the
model, and under the direction, of our modern Vitruius,
the earl of Burlington, who to the strength and convenience of the English architecture has added the clegance of the Italian.

SAVILE, SIR GEORGE, afterwards marguis of Halifax, and one of the greatest statesmen of his time, was born about the year 1630; and some time after his return from his travels was created a peer, in confideration of his own and his father's merits. He was a firenuous opposer of the bill of exclusion; but proposed fuch limitations of the duke of York's authority, as should disable him from doing any harm either in church or state, as the taking out of his hands all power in ecclefiaftical matters, the disposal of the public money, and the power of making peace and war; and lodging these in the two houses of parliament. After that bill was rejected in the house of lords, he pressed them, though without success, to proceed to the limitation of the duke's power; and began with moving, that during the king's life he might be obliged to live five hundred miles out of England. In August 1682 he was created a marquis, and foon after made privy-feal. Upon King James's accession, he was made president of the council; but on his refufal to confent to the repeal of the test, he was dismissed from all public employments. In that affembly of the lords which met after King James's withdrawing himfelf the first time from Whitehall, the marquis was chosen their president and upon the king's return from Feversham, he was fent, together with the earl of Shrewsbury and lord Delamere, from the prince of Orange, to order his majesty to quit the palace at Whitehall. In the convention of parliament he was chosen speaker of the house of lords, and strenuously supported the motion for the vacancy of the throne, and the conjunctive fovereignty of the prince and princess; upon whose accession he was again made privyfeal. Yet, in 1689, he quitted the court, and became a zealous opposer of the measures of government till his death, which happened in April 1695. The Rev. Mr. Grainger Savifie. Grainger observes, that " he was a person of unsettled principles, and of a lively imagination, which fometimes got the better of his judgement. He would never lofe his jett, though it spoiled his argument, or brought his fincerity or even his religion in question. He was defervedly celebrated for his parliamentary talents; and in the famous contest relating to the bill of exclusion was thought to be a match for his uncle Shaftsbury. The pieces he has left us thow him to have been an ingenious, if not a masterly writer; and his Advice to a Daughter contains more good fense in fewer words than is, perhaps, to be found in any of his contemporary authors." His lordship also wrote, The Anatomy of an Equivalent; a Letter to a Diffenter; a Rough Draught of a New Model at Sea; and Maxims of State; all which were printed together in one volume 8vo .-Since these were also published under his name the Character of King Charles II. 8vo; the Character of Bithop Burnet, and Historical Observations upon the reigns of Edward I. II. III. and Richard II. with Remarks upon their faithful Counsellors and false Favourites.

SAVILLE, SIR HENRY, a learned Englishman, was the fecond fon of Henry Saville, Efg. and was born at Bradley, near Halifax, in Yorkshire, November the 30th, 1549. He was entered of Merton College, Oxford, in 1561, where he took the degrees in arts, and was chosen fellow. When he proceeded master of arts in 1570, he read for that degree on the Almagest of Ptolemy, which precured him the reputation of a man eminently skilled in mathematics and the Greek language; in the former of which he voluntarily read a public lecture in the univerfity for fome time.

In 1578 he travelled into France and other countries; where, diligently improving himfelf in all ufeful learning, in languages, and the knowledge of the world, he became a most accomplished gentleman. At his return, he was made tutor in the Greek tongue to Queen Eli-

zabeth, who had a great efteem for him.

In 1585 he was made warden of Merton College, which he governed 36 years with great honour, and improved it by all the means in his power .- In 1596 he was cholen provoft of Eton College; which he filled with many learned men .- James I. upon his accession to the crown of England, expressed a great regard for him, and would have preferred him either in church or flate; but Saville declined it, and only accepted the ceremony of knighthood from the king at Windsor in 1604. His only fon Henry dying about that time, he thenceforth devoted his fortune to the promoting of learning. Among other things, in 1619, he founded, in the university of Oxford, two lectures, or professorfhips, one in geometry, the other in aftronomy; which he endowed with a falary of 160l. a-year each, belides a legacy of 600l. to purchase more lands for the same tife. He also furnished a library with mathematical books, near the mathematical school, for the use of his professors; and gave 100l. to the mathematical chest of his own appointing; adding afterwards a legacy of 401. a-year to the same cheft, to the university, and to his profesfors jointly. He likewise gave 1201. towards the new building of the schools, beside several rare manufcripts and printed books to the Bodleian library; and a good quantity of Greek types to the printing press at Oxford.

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After a life thus spent in the encouragement and Saville promotion of science and literature in general, he died at Eton College the 19th of February 1622, in the 73d. year of his age, and was buried in the chapel there. On this occasion, the university of Oxford paid him the greatest honours, by having a public speech and verses made in his praise, which were published bon after in 4to, under the title of Ultima Linea Savilit.

The highest encomiums were bestowed on Saville by all the learned of his time : by Cafaubon, Mercerus, Meibomius, Joseph Scaliger, and especially the learned Bithop Montague; who, in his Diatribæ upon Selden's History of Tythes, styles him, " that magazine of learning, whose memory fliall be honourable amongit not only the learned, but the righteous for ever." His

works are,

1. Four Books of the Histories of Cornelius Tacitus. and the Life of Agricola; with Notes upon them, in folio, dedicated to Queen Elizabeth, 1581 .- 2. A. View of certain Military Matters, or Commentaries concerning Roman Warfare, 1598 .- 3. Rerum Anglicarum Scriptores post Bedam, &c. 1596. This is a collection of the best writers of our English history; to which he added chronological tables at the end, from Julius Cæfar to William the Conqueror .- 4. The Works of St Chryfostom, in Greek, in 8 vols folio, 1613, This is a very fine edition, and composed with great cost and labour. In the preface he says, " that having himself visited, about 12 years before, all the public and private libaries in Britain, and copied out thence whatever he thought useful to this design, he then sent some learned men into France, Germany, Italy, and the East, to transcribe such parts as he had not already, and to collate the others with the best manuscripts." At the fame time, he makes his acknowledgments to feveral eminent men for their affiftance; as Thuanus, Velferus, Schottus, Cafaubon, Ducæus, Gruter, Hoeschelius, &c. In the 8th volume are inferted Sir Henry Saville's own notes, with those of other learned men. The whole charge of this edition, including the feveral fums paid to learned men, at home and abroad, employed in finding out, transcribing, and collating the best manuscripts, is faid to have amounted to no lefs than 8000l. Several editions of this work were afterwards published at Paris. -5. In 1618 he published a Latin work, written by Thomas Bradwardin, archbishop of Canterbury, against Pelagius, entitled, De Caufa Dei contra Pelagium, et de virtute causarum; to which he prefixed the life of Bradwardin .- 6. In 1621 he published a collection of his own Mathematical Lectures on Euclid's Elements, in 4to .- 7, Oratio coram Elizabetha Regina Oxonice habita, anno 1502. Printed at Oxford in 1658, in 4to. -8. He translated into Latin King James's Apology for the Oath of Allegiance. He also left several manuscripts behind him, written by order of King James; all which are in the Bodleian library. He wrote notes likewife upon the margin of many books in his library, particularly Eufebius's Ecclefiaftical Hiftory; which were afterwards used by Valesius, in his edition of that work in 1659 .- Four of his letters to Camdon are published by Smith, among Camden's Letters, 1691,

SAVIN, in Botany. See JUNIPERUS, BOTANY

SAVIOUR, an appellation peculiarly given to Jefus

Saul || |Saunderfon

Chrift, as being the Meffiah and Saviour of the world.

Grder of St SAFIDUR, a religious order of the Romith church, founded by St Bridget, about the year 1345, and so called from its being pretended that our Saviour himself declared its conditution and rules to the foundress. According to the conditutions, this is grincipally founded for religious women who pay a particular honour to the holy virgin; but there are some monks of the order, to admissiler the facrament and spiritual adilitance to the nuns.

SAUL the fon of Kith, of the tribe of Benjamin, was the first king of the tractites. On account of his disobedient conduct, the kingdom was taken from his family, and given to David. See the First Book of

Samuel.
Saul. otherwife called Paul. See Paul.

SAUMUR, a confiderable town of France, in the department of Maine and Loire, and capital of the Saumarois, with an ancient castle. The town is small, but pleafantly fituated on the Loire, across which is a long bridge, continued through a number of islands. Saumur was anciently a most important pass over the river, and of confequence was frequently and fiercely disputed by either party, during the civil wars of France in the fixteenth century. The fortifications are of great firength, and Henry IV. on the reconciliation which took place between him and Henry III. near Tours, in 1589, demanded that Saumur flould be delivered to him, as one of the cities of fafety. The castle overlooks the town and river. It is built on a lofty eminence, and has a venerable and magnificent appearance, and was lately used as a prison of state, where persons of rank were frequently confined. The kings of Sicily, and dukes of Anjou of the house of Valois, who descended from John king of France, often relided in the castle of Saumur, as it constituted a part of their Angevin dominions. E. Long. o. 2. N. Lat. 47, 15.

SAUNDERS, a kind of wood brought from the East Indies, of which there are three kinds; white, yellow, and red. See PTEROCARPUS and SANTALUM, BOTANY

Index.

SAUNDERSON, DR ROBERT, an eminent casuift, was born at Rotherham in Yorkshire on the 19th September 1587, and was descended of an ancient family. He attended the grammar-school at Rotherham, where he made fuch wonderful proficiency in the languages, that at 13 it was judged proper to fend him to Lincoln college, Oxford. In 1608 he was appointed logic reader in the same college. He took orders in 1611, and was promoted fuccessively to several benefices. Archbishop Laud recommended him to King Charles I. as a profound cafuift; and that monarch, who feems to have been a great admirer of cashistical learning, appointed him one of his chaplains in 1631. Charles proposed several cases of conscience to him, and received fo great farisfaction from his answers, that at the end of his month's attendance he told him, that he would wait with impatience during the intervening 11 months, as he was refolved to be more intimately acquainted with him, when it would again be his turn to officiate. The king regularly attended his fermons, and was wont to fay, that " he carried his ears to hear other preachers, but his conscience to hear Mr Saunderfon.

In 1642 Charles created him regius profesior of di-Saunde fon. vinity at Oxford, with the canonry of Christ church annexed: but the civil wars prevented him till 1646 from entering on the office; and in 1648 he was ejected by the vifitors which the parliament had commissioned. He must have stood high in the public opinion; for in the fame year in which he was appointed professor of divinity, both houses of parliament recommended him to the king as one of their truftees for fettling the affairs of the church. The king, too, reposed great confidence in his judgement, and frequently confulted him about the state of his affairs. When the parliament proposed the abolition of the epifcopal form of church-government as incompatible with monarchy, Charles defired him to take the fubject under his confideration, and deliver his opinion. He accordingly wrote a treatife entitled, Episcopacy as established by law in England not prejudicial to regal power. At taking leave, the king advised him to publith Cases of Conscience: he replied, that "he was now grown old and unfit to write cases of confcience." The king said, "it was the simplest thing he ever had heard from him; for no young man was fit to be a judge, or write cales of conscience." Walton, who wrote the life of Dr Saunderfon, informs us, that in one of these conferences the king told him (Dr Saunderson), or one of the rest who was then in company, that "the remembrance of two errors did much affect him; which were his affent to the earl of Strafford's death, and the abolifhing of epifcopacy in Scotland; and that if God ever restored him to the peaceable possession of his crown, he would prove his repentance by a public confession and a voluntary penance, by walking barefoot from the Tower of London, or Whitehall, to St Paul's church, and would defire the people to intercede with God for his pardon."

Dr Saunderson was taken pissoner by the parliament's troops and conveyed to Lincoln, in order to procure in exchange a Purtan divine named Clark, whom the king's army had taken. The exchange was agreed to, on condition that Dr Saunderson's living should be reflored, and his person and property remain unmoletted. The first of these demands was readily complied with: and a slipulation was made, that the second should be observed; but it was impossible to restrain the licentiousness of the soldiers. They entered his church in the time of divine service, interrupted him when reading prayers, and even had the audacity to take the common prayers book from him, and to tear

it to pieces.

The honourable Mr Boyle, having read a work of Dr Saunderion's entitled De pramenti obligatione, was fo much pleafed, that he inquired at Bishop Barlow, whether he thought it was possible to prevail on the author to write Cases of Conscience, if an honorary penfion was affigned him to enable him to purchase books, and pay an amanuenis. Saunderfon told Barlow, "that if any future tract of his could be of any use to mankind, he would cheerfully set about it without a pension." Boyle, however, sent him a prefent of 521. Sensible no doubt, that, like the other royalitis, his sinances could not be great. Upon this Saunderson published his book.

When Charles II. was reinstated in the throne, he recovered his professoring and canonry, and soon after was promoted to the bishopric of Lincoln. During

the

Saunderfore the two years and a half in which he poffessed this new office, he spent a conductable sum in augmenting poor vicarages, in repairing the palace at Bugden, &c. He died January 20, 1662-3, in his 76th year.

He was a man of great acutencis and folid judgement. "That thaid and well-weighed man Dr Saunderson (favs Dr Hammond) conceives all things deliberately, dwells upon them discreetly, discerns things that differ exactly, paffeth his judgement rationally, and expresses it aptly, clearly, and honeftly." Being afked, what books he had read most? he replied, that " he did not read many books, but those which he did read were well chosen and frequently perused." These, he said, were chiefly three, Ariftotle's Rhetoric, Aquinas's Se-canda Secundae, and Tully's Works; especially his Offiees, which he had not read over less than 20 times, and could even, in his old age, recite without book." He added, that " the learned civilian Dr Zouch had written Elementa juris prudentia, which he thought he could also fay without book, and that no wife man could read it too often." He was not only converfant with the fathers and schoolmen, with casuiffical and controverfial divinity; but he was well acquainted with all the histories of the English nation, was a great antiquary, had fearched minutely into records, and was

It will now be proper to give a thort account of his works. 1. In 1615 he published Logicae Artis Compendium, which was the fystem of lectures he had delivered in the University when he was logic-reader. 2. Sermons, amounting in number to 36, printed in 1681, folio, with the author's life by Walton. 3. Nine Cases of Conscience resolved; first collected in one volume, in 1678, 8vo. 4. De juramenti obligatione. This book was translated into English by Charles I. while a prifoner in the ifle of Wight, and printed at London in 1665, 8vo. 5. De Obligatione confrientia. 6. Censure of Mr Antony Ascham his book of the confusions and revolutions of government. 7. Pax Ecclefice concerning Predestination, or the five points. 8. Episcopacy, as established by law in England, not prejudicial to the regal power, in 1661. Befides thefe, he wrote two Difcourses in defence of Usher's writings.

well skilled in heraldry and genealogy.

SAUNDERSON, Dr Nicholas, was born at Thurlstone in Yorkshire in 1682, and may be considered as a prodigy for his application and fuccess in mathematical literature in circumstances apparently the most unfavourable. He loft his fight by the fmallpox before he was a year old. But this difatter did not prevent him from fearching after that knowledge for which nature had given him fo ardent a defire. He was initiated into the Greek and Roman authors at a free school at Penniston. After spending some years in the study of the languages, his father (who had a place in the excise) began to teach him the common rules of arithmetic. He foon furpaffed his father; and could make long and difficult calculations, without having any fenfible marks to affift his memory. At 18 he was taught the principles of algebra and geometry by Richard West of Undoorbank, Efq. who, though a gentleman of fortune, yet, being strongly attached to mathematical learning, readily undertook the education of fo uncommon a genius. Saunderson was also assisted in his mathematical studies by Dr Nettleton. These two gentlemen read books to him and explained them. He was next fent to a private academy at Attercliff near Shelfield, where Sauwlerf begin and metaphytics were chiefly taught. But thele feiences not fuiting his turn of mind, he foon left the academy. He lived for forme time in the country without any influence; but fuch was the vigour of his own mind, that few intructions were necessary: he only required books and a reader.

His father, befides the place he had in the excise. possessed also a small estate; but having a numerous family to support, he was unable to give him a liberal education at one of the universities. Some of his friends, who had remarked his peripicuous and interesting manner of communicating his ideas, proposed that he thould attend the univerfity of Cambridge as a teacher of mathematics. This propofal was immediately put in execution; and he was accordingly conducted to Cambridge in his 25th year by Mr Joshua Dunn, a fellowcommoner of Christ's college. Though he was not received as a member of the college, he was treated with great attention and respect. He was allowed a chamber, and had free accels to the library. Mr Whiston was at that time profesior of mathematics; and as he read lectures in the way that Saunderson intended, it was naturally to be supposed he would view his project as an invation of his office. But, instead of meditating any opposition, the plan was no fooner mentioned to him than he gave his confent. Saunderion's reputation was foon fpread through the university. When his lectures were announced, a general curiofity was excited to bear fuch intricate mathematical fubjects explained by a man who had been blind from his infancy. The subject of his lectures was the Principia Mathematica, the Optics, and Arithmetica Universalis of Sir Isaac Newton. He was accordingly attended by a very numerous audience. It will appear at first incredible to many that a blind man should be capable of explaining optics, which requires an accurate knowledge of the nature of light and colours; but we must recollect, that the theory of vision is taught entirely by lines, and is fubject to the rules of geometry.

While thus employed in explaining the principles of the Newtonian philotophy, he became known to its illuttrious author. He was also intimately acquainted with Halley, Cotes, De Moivre, and other eminent mathematicians. When Whiston was removed from his profesforship, Saunderson was universally allowed to be the man best qualified for the fuccession. But to enjoy this office, it was necessary, as the statutes direct, that he should be promoted to a degree. To obtain this privilege the heads of the univerfity applied to their chancellor the duke of Somerfet, who procured the royal mandate to confer upon him the degree of mafter of arts. He was then elected Lucasian professor of mathematics in November 1711. His inauguration speech was composed in classical Latin, and in the style of Cicero, with whole works he had been much converfant. He now devoted his whole time to his lectures, and the instruction of his pupils. When George II, in 1728, vifited the univerfity of Cambridge, he expressed a defire to fee Professor Saunderson. In compliance with this defire, he waited upon his majefty in the fenate-house, and was there, by the king's command, created doctor of laws. He was admitted a member of the Royal Society in 1736.

Saunderson was naturally of a vigorous constitution,

Sande fon but having confined himfelf to a federary life, he at

length became scorbusic. For several years he felt a numbness in his limbs, which, in the spring of 1739, brought on a mortification in his foot; and, unfortunately, his blood was fo vitiated by the fcurvy, that affiltance from medicine was not to be expected. When he was informed that his death was near, he remained for a little space calm and filent; but he soon recovered his former vivacity, and converfed with his usual eafe. He died on the 19th of April 1739, in the 57th year of his age, and was buried at his own request in the chancel at Boxworth.

He married the daughter of the reverend Mr Dickens, rector of Boxworth, in Cambridgeshire, and by

her had a fon and danghter.

Dr Saunderson was rather to be admired as a man of wonderful genius and affiduity, than to be loved for amiable qualities. He fpoke his fentiments freely of characters, and praifed or condemned his friends as well as his enemies without referve. This has been afcribed by fome to a love of defamation; but perhaps with more propriety it has been attributed by others to an inflexible love of truth, which urged him upon all occasions to speak the sentiments of his mind without disguife, and without confidering whether this conduct would please or give offence. His sentiments were supposed unfavourable to revealed religion. It is faid; that he alleged he could not know God, because he was blind, and could not fee his works; and that, upon this, Dr Holmes replied, " Lay your hand upon yourfelf, and the organization which you will feel in your own body will dislipate so gross an error." On the other hand, we are informed, that he had defired the facrament to be given him on the evening before his death. He was, however, feized with a delirium, which rendered this impossible.

He wrote a fystem of algebra, which was published, in 2 volumes 4to, at London, after his death, in the year 1740, at the expence of the university of Cambridge.

Dr Saunderson invented for his own use a Palpable Arithmetic; that is, a method of performing operations in arithmetic folely by the fense of touch. It confished of a table raifed upon a fmall frame, so that he could apply his hands with equal eafe above and below. On this table were drawn a great number of parallel lines which were croffed by others at right angles; the edges of the table were divided by notches half an inch diffant from one another, and between each notch there were five parallels; fo that every square inch was divided into a hundred little squares. At each angle of the fquares where the parallels interfected one another, a hole was made quite through the table. In each hole he placed two pins, a big and a fmall one. It was by the various arrangements of the pins that Saunderson performed his operations. A description of this method of making calculations by his table is given under the article BLIND, No 38. though it is there by mistake faid that it was not of his own invention.

His fense of touch was so perfect, that he could difgover with the greatest evactness the slightest inequality of furface, and could diffinguish in the most finished works the fmallest overfight in the polish. In the cabinet of medals at Cambridge he could fingle out the Roman medals with the utmost correctness; he could also perceive the flighted variation in the atmosphere. One

day, while fome gentlemen were making observations on Saunderston the fun, he took notice of every little cloud that paffed over the fun which could interrupt their labours. When Savona alac any object paffed before his face, even though at some diffance, he discovered it, and could guess its fize with considerable accuracy. When he walked, he knew when he paffed by a tree, a wall, or a house. He made these diffinctions from the different ways his face was affected by the motion of the air.

His mufical ear was remarkably acute; he could diflinguish accurately to the fifth of a note. In his youth he had been a performer on the flute; and he had made fuch proficiency, that if he had cultivated his talents in this way, he would probably have been as eminent in music as he was in mathematics. He recognized not only his friends, but even those with whom he was flightly acquainted, by the tone of their voice; and he could judge with wonderful exactness of the fize of any

apartment into which he was conducted.

SAVONA, a large, handsome, populous, and strong town of Italy, in the territory of Genoa, with two caltles, and a bishop's fee. It contains several handsome churches and well-built ffructures. It was taken by the king of Saidinia in 1746, at which time it had a capacious harbour; but the people of Genoa, being afraid that it would hurt their own trade, choked it up. It is feated on the Mediterranean fea, in a well-cultivated country, abounding in filk and all kinds of good fruits

E. Long. 8. 14. N. Lat. 44. 21. SAVONAROLA, JEROME, a famous Italian monk. was born at Ferrara in 1452, and descended of a noble family. At the age of 23 he affumed the habit of a Dominican friar, without the knowledge of his parents, and diftinguished himself in that order by his piety and ability as a preacher. Florence was the theatre where he chose to appear; there he preached, confessed, and wrote. He had address enough to place himself at the head of the faction which opposed the family of the Medici. He explained the Apocalypse, and there found a prophecy which foretold the destruction of his opponents. He predicted a renovation of the church, and declaimed with much feverity against the clergy and the court of Rome. Alexander VI. excommunicated him. and prohibited him from preaching. He derided the anathemas of the pope: yet he forbore preaching for fome time, and then refumed his employment with more applause than before. The pope and the Medici family then thought of attacking him with his own weapons. Savonarola having posted up a thess as a subject of difputation, a Franciscan, by their instigation, offered to prove it heretical. The Franciscan was seconded by his brother friars, and Savonarola by his; and thus the two orders were at open war with each other. To fettle the dilpute, and to convince their antagonists of the superior fanctity of Savonarola, one of the Dominicans offered to walk through a fire; and in order to prove his wickednels, a Franciscan agreed to the same experiment. The multitude, eager to witness so extraordinary a spectacle. urged both parties to come to a decision; and the magiftrates were constrained to give their consent. Accordingly, Saturday the 7th of April 1498 was fixed for the trial. On that day the champions appeared; but when they faw one another in cold blood, and beheld the wood in flames, they were feized with fear, and were very anxious to escape by any subterfuge the immi-

Saronarola nent danger into which they had rashly thrown themfelves. The Dominican pretended he could not enter the flames without the host in his band. This the magittrates obitinately refused to allow; and the Dominican's fortitude was not put to the test. The Franciscans incited the multitude against their opponents, who accordingly affaulted their monattery, broke open the gates which were that against them, and entered by force. Upon this, the magistrates thought it necessary to bring Savonarola to trial as an impostor. He was put to the torture, and examined; and the answers which he gave fully evinced that he was both a cheat and a fanatic. He poatled of having frequent conversations with God, and found his brother friars credulous enough to believe him. One of the Dominicans, who had thared in his fufferings, affirmed, that he faw the Holy Ghost in the shape of a dove, with feathers of gold and filver, twice in one day alight on the shoulder of Savonarola and peck his ear; he pretended also that he had violent combats with demons. John Francis Picus earl of Mirandula, who wrote his life, affures us, that the devils which infelled the convent of the Dominicans trembled at the fight of Friar Jerome, and that out of vexation they always suppressed some letters of his name in pronouncing it. He expelled them from all the cells of the monaitery. When he went round the convent fprinkling holy water to defend the friars from the infults of the demons, it is faid the evil spirits fpread thick clouds before him to prevent his paffage .-At length, the pope Alexander VI. fent the chief of the Dominicans, with Bishop Romolino, to degrade him from holy orders, and to deliver him up to the fecular judges with his two fanatical affociates. They were condemned to be hanged and burned on the 23d May 1498. Savonarola submitted to the execution of the fentence with great firmness and devotion, and without uttering a word respecting his innocence or his guilt. He was 46 years of age. Immediately after his death, his Confestion was published in his name. It contained many extravagancies, but nothing to deferve fo fevere and infamous a punishment. His adherents did not fail to attribute to him the power of working miracles; and fo firong a veneration had they for their chief, that they preferved with pious care any parts of his body which they could fnatch from the flames. The earl of Miran. dula, the author of his life, has described him as an eminent faint. He gravely informs us, that his heart was found in a river; and that he had a piece of it in his possession, which had been very useful in curing diseases, and ejecting demons. He remarks, that many of his persecutors came to a miserable end. Savonarola has also been defended by Father Quetif, Bzovius, Baron, and other religious Dominicans.

He wrote a prodigious number of books in favour of religion. He has left, 1. Sermons in Italian; 2. A Treatile entitled, Triumphus crucis; 3. Eruditorum Confesforum, and feveral others. His works have been publithed at Leyden in 6 vols 12mo.

SAVORY, See SATUREIA, BOTANY Index.

SAVOUR. See TANKE.

SAVOY, formerly a duchy, now a department of France, lying between the latter and Italy, and which takes its name from the Latin Sabaadia, altered afterwards to Saboia, and Sobojia.

This country was anciently inhabited by the Celtes,

whose descendants therein were subdivided into the Al- Savoy: lobroges, Nantuates, Veragri, Seduni, Salassi, Centrones, Garocelli, and fome others of inferior note .- Of all their the Allubroges were the mott confiderable. The reduction of these tribes, in which Julius Caesar had made a great progress, was completed under Augustus. Afterwards this country thered the fate of the rest of the wettern empire, and was overrun by the northern barbarians. The Burgundians held it a confiderable time; but when or how it first became a distinct carldom under the present family, is what historians are not agreed about : thus much, however, is certain, that Amadreus I. who lived in the 12th century, was count of it. In 1416, Amadæus VIII. was created by the emperor Sigilmund duke of Savov; and Victor Amadaus first took the title of king of Sicily, and afterwards of Sardinia. See SARDINIA. Savoy was lately conquered by the French, and added to the republic as the 80th department. As this arrangement, though decreed by the convention to last for ever, may probably be of short duration, we shall write of the duchy as of an independent state. Savoy, then, is bounded to the fouth by France and Piedmont; to the north by the lake of Geneva, which separates it from Switzerland; to the west, by France; and to the east, by Piedmont, the Milanese, and Switzerland; its greatest length being about 88 miles, and breadth about 76.

As it lies among the Alps, it is full of lofty mountains, which in general are very barren: many of the highest of them are perpetually covered with ice and fnow. The fummit of those called Montagnes Maudites, "the curfed mountains," are faid to be more than two English miles in perpendicular height above the level of the lake of Geneva, and the level itself is much higher than the Mediterranean. In some few of the valleys there is corn land and pasture, and a good breed of cattle and mules; and along the lake of Geneva, and in two or three other places, a tolerable wine is produced. Mount Senis or Cenis, between Savoy and Piedmont, over which the highway from Geneva to Turin lies, is as high, if not higher, than the Montagnes Maudites; but of all the mountains of the Alps, the highest is Mount Rochmelon, in Piedmont, between Fertiere and Novalefe. The roads over these mountains are very tedious, difagreeable, and dangerous, especially as huge maffes of fnow, called by the Italians avalanches, and fragments of rocks, frequently roll down into them from the impending precipices. The way of travelling is either in siedges, chairs, or on the backs of mules : in fome places the path on the brink of the precipices is fo narrow, that there is but just room for a single person to pass. It begins to snow on these mountains commonly about the beginning of October. In fummer, in the months of July, August, and September, many of them yield very fine grass, with a great variety of flowers and herbs; and others boxwood, walnuts, chefnuts, and pines. The height and different combinations of these mountains, their towering fummits rifing above one another, and covered with fnow, the many cataracts or falls of water, the noise and rapidity of the river Arc, the froth and green tincture of its water, the echoes of its numerous streams tumbling from cliff to cliff, form altogether a very romantic scene. These mountainous tracts, notwithstanding their height, are not altogether free from thunder in fummer, and are also much expofed to thick clouds, which fometimes fettle unexpectedly on them, and continue feveral days. There are fome wolves among the thickets; and they abound with hares, rupicapras or chamois, and marmottes. In the lower parts of Savov, there are also bears, wild boars, deer, and rabbits; and among the defolate mountains are found great quantities of rock-crystal. In the glacieres or ice-valleys, between the high mountains, the air is extremely cold, even in the months of July and August. The furface of these ice-valleys looks like a sea or lake, which, after being agitated by fierce and contrary winds, has been frozen all at once, intersperfed with hideous cracks and chafms. The noise of these cracks, when first made by the heat of the noon-day fun, and reverberated by the furrounding rocks and mountains, is aftonishing. The height of the impending mountains is fuch, that the fun's rays feldom reach the ice valleys, except a few hours in the middle of fummer. The avalanches or fnow-balls, which the least concustion of the air will occasion, tumble down the mountains with amazing rapidity, continually increasing, and carrying all before them. People have been taken out alive, after being buried feveral days under them. The mountainous nature of this duchy renders the plough an ufeless instrument of agriculture. The peasants break up the hungry foil with the pickaxe and fpade, and to improve it carry up mould and dung in baskets. For the purpose of preserving it from drought in the spring and fummer, they cut fmall refervoirs above it, the water of which may be let out at will; and to prevent the earth from giving way, break the declivity of the mountains by building walls on the fide for its support, which frequently assume the appearance of ancient fortification, and are a very pleasing deception to travellers. The Savoyards carry their better fort of cheese into Piedmont, as the flavour is much effeemed there; but they gain more by their fkins of bears, chamois, and bouquetins (a species of the wild goat), or by the sale of growfe and pheafants, which they carry in great numbers to Turin.

The chief rivers are the Rhone, which, on the fide of Geneva, feparates Savoy from France; the Arve, which has fome particles of gold in its fands; the Ifere, the Seran, the Siers, and the Arc. There are allo a great many lakes in this country, which yield plenty of fifth, but none of them are very large, together with medicinal and reciprocating fprings and hot baths.

The language of the common people is a corrupt French; but the better fort, and those that live in the great cities, speak as good French as they do in Paris it-

In their temper, however, and difposition, the Savoyards resemble the Germans more than the French, retaining still much of the old German honesty and simplicity of manners, which no doubt is partly owing to the poverty and barrenness of the country. To this also, joined to their longesity and the fruitfulness of their women, which are the effects of their cheerful disposition, healthy air, activity, temperance, and sobriety, it is owing that great numbers of them are obliged to go abroad in quest of a livelihood, which they earn, those at least who have no trades, by showing marmottes, cleaning thoes, sevening chimureys, and the like. It is faid, that there are g-nerally about 18,000 of them,

young and old, about Paris. In fummer they lie in the Savot, freets, and in winter, 40, 50, or 60 of them lodge to gether in a room : they are so honest that they may be trufted to any amount. The children are often carried abroad in balkets before they are able to walk. In many villages of Savoy there is hardly a man to be feen throughout the year, excepting a month or two. Those that have families generally fet out and return about the fame feafon, when their wives commonly lie in, and they never fail to bring home feme part of their fmall earnings. Some of them are fuch confummate mafters of economy, that they fet up shops and make fortunes, and others return home with a competency for the reit of their days. An old man is often dispatched with letters, little prefents, and fome money, from the younger fort, to their parents and relations, and brings back with him fresh colonies, letters, messages, and news, The cultivation of their grounds, and the reaping and gathering in of the harvest and vintage, are generally left to the women and children; but all this is to be understood of the mountainous parts of Savov. Great numbers of the mountaineers of both fexes are faid to be lame and deformed; and they are much subject to a kind of wens, which grow about their throats, and very much disfigure them, especially the women; but that is the only inconvenience they feel from them.

The nobility of Savoy, and the other dominions of the king of Sardinia, labour under great hardhips and reflrictions, unheard of in other countries, which we have not room here to particularize. A minute account of them will be found in Mr Keyfler's Travels. In fhort, the king has left neither liberty, power, nor much property, to any but himfelf and the clergy, whose overgrown wealth he has also greatly curtailed.

No other religion is professed or tolerated in Savoy but that of the church of Rome. The decrees, however, of the council of Trent are not admitted; nor are the churches asylums for malesactors.

This duchy is divided into those of Chablais, Genevois, and Savoy Proper, the counties of Tarantaise and Maurienne, and the barony of Faucigny.

SAURIN, JAMES, a celebrated preacher, was born at Nilmes in 1677, and was the fon of a protestant lawyer of confiderable eminence. He applied to his itudies with great fuccess; but at length being captivated with a military life, he relinquished them for the profession of arms. In 1694 he made a campaign as a cadet in Lord Galloway's company, and foon afterwards obtained a pair of colours in the regiment of Colonel Renault which ferved in Piedmont. But the duke of Savoy having made peace with France, he returned to Geneva, and refumed the study of philosophy and theology under Turretin and other profesiors. In 1700 he vifited Holland, then came to England, where he remained for feveral years, and married. In 1705 he returned to the Hague, where he fixed his residence, and preached with the most unbounded applause. To an exterior appearance highly prepoffelling, he added a firong harmonious voice. The fublime prayer which he recited before his fermon was uttered in a manner highly affecting. Nor was the attention excited by the prayer diffipated by the fermon: all who heard it were charmed; and those who came with an intention to criticife, were carried along with the preacher and forgot their defign. Saurin had, however, one

fault in his delivery; he did not manage his voice with fufficient kill. He exhaulted himfelf fo much in his prayer and the beginning of his fermon, that his voice grew feeble towards the end of the fervice. His fermons, efpecially those published during his life, are diffinguished for justiness of thought, force of reasoning, and an eloquent unaffected flyle.

The first time that the celebrated Abbadie heard him preach, he exclaimed, "Is it an angel or a man who foeaks!" Saurin died on the 30th of December 1730,

aged 53 years.

He wrote, 1. Sermons, which were published in 12 vols 8vo and 12mo; fome of which difplay great genius and eloquence, and others are composed with negligence. One may observe in them the imprecations and the averfion which the Calvinifts of that age were wont to utter against the Roman Catholics. Saurin was, notwith-standing, a lover of toleration: and his fentiments on this fubject gave great offence to lome of his fanatical brethren, who attempted to obfcure his merit, and embitter his life. They found fault with him because he did not call the pope Antichriff, and the Romith church the whore of Babylon. But these prophetic metaphors, however applicable they may be, were certainly not intended by the benevolent religion of Jesus to be bandied about as terms of reproach; which would teach those to rail who use them, and irritate, without convincing, those to whom they were applied.

Saurin, therefore, while he perhaps interpreted these metaphors in the same way with his opposers, discovered more of the moderation of the Christian spirit. Five volumes of his sermons were published in his life, the

rest have been added fince his decease.

2. Difcourfes Hiftorical, Critical, and Moral, on the most memorable Events of the Old and New Testament. This is his greatest and most valuable work. It was printed first in two volumes folio. As it was left unfantised, Beaufobre and Roques undertook a continuation of it, and increased it to four volumes. It is full of learning: it is indeed a collection of the opinions of the best authors, both Christian and Heathen; of the philosophers, historians, and critics, on every subject which the author examines.
3. The State of Christianity in France, 1725, 8vo. In this book he discusses many important points of controverly, and calls in question the truth of the miracle said to be performed on La Fosse at Paris.
4. An Abridgement of Christian Theology and Morality, in the form of a Catechism, 1722, 8vo. He afterwards published an abridgement of this work.

A Differtation which he published on the Expediency of fometimes difguifing the Truth, raifed a multitude of enemies against him. In this discourse his plan was, to state the arguments of those who affirm that, in certain case, it is lawful to disguise truth, and the answers of those who maintain the contrary. He does not determine the question, but seems, however, to incline to the first opinion. He was immediately attacked by several adversaries, and a long controversy enduct; but his doctrines and opinions were at length publicly approved of by the synoso of Campen and of

the Hague.

The subject of this controversy has long been agitated, and men of equally good principles have supported opposite sides. It would certainly be a dangerous maxim

that falkhood can ever be lawful. There may, indeed, Saurir, be particular cases, when the motives to it are of such a nature as to drainsh its criminality in a high degree; but to lessen its guilt is a very different thing from justifying it by the laws of morality.

SAURIN, Joseph, a geometrician of the academy of Sciences at Paris, was born at Courtoufon in the principality of Orange, in 1659. His father, who was a minister at Grenoble, was his first preceptor. He made rapid progress in his studies, and was admitted minister of Eure in Dauphiny when very young: but having made use of some violent expressions in one of his fermons, he was obliged to quit France in 1683. He retired to Geneva, and thence to Berne, where he obtained a confiderable living. He was fcarcely fettled in his new habitation, when fome theologians raifed a perfecution against him. Saurin, hating controverty, and difguffed with Switzerland, where his talents were entirely concealed, repaired to Holland. He returned foon after to France, and furrendered himfelf into the hands of Boffuet bishop of Meaux, who obliged him to make a recantation of his errors. This event took place in 1690. His enemies, however, suspected his fincerity in the abjuration which he had made. It was a general opinion, that the defire of cultivating science in the capital of France had a greater effect in producing this change than religion. Saurin, however, speaks of the reformers with great asperity, and condemns them for going too far. "Deceived in my opinions concerning the rigid system of Calvin, I no longer regarded that reformer in any other light but as one of those extravagant geniuses who are carried beyond the bounds of truth. Such appeared to me in general the founders of the reformation; and that just idea which I have now obtained of their character has enabled me to shake off a load of prejudices. I saw in most of the articles which have separated them from us, fuch as the invocation of faints, the worthip of images, the distinction of meats, &c. that they had much exaggerated the inevitable abuses of the people, and insputed these to the Romish church, as if fanctioned by its doctrines. Befides, that they have mifrepresented those doctrines which were not connected with any abuse. One thing which furprifed me much when my eves began to open, was the false idea, though in appearance full of respect, for the word of God, which the reformers entertained of the perfection and peripicuity of the Holy Scriptures, and the manifest misinterpretation of passages which they bring to support that idea (for that mifinterpretation is a point which can be proved). Two or three articles still raised some objections in my mind against the Romish church; to wit, Transubstantiation, the adoration of the facrament, and the infallibility of the church. The adoration of the facrament I confidered as idolatry, and, on that account, removed from her communion. But foon after, the Exposition of the bishop of Meaux, a work which can never be sufficiently admired, and his Treatise concerning changes, reverled all my opinions, and rendered me an enemy to the Reformation." It is faid also, that Saurin, appeafed his confcience by reading Poiret's Cogitationes rationales. This book is written with a vew to vindicate the church of Rome from the charge of

If it was the love of diffinction that induced Saurin to

Saurin Sauffire.

return to the Romith church, he was not disappointed; for he there met with protection and support. He was favourably received by Louis XIV. obtained a pension from him, and was treated by the Academy of Sciences with the most flattering respect. At that time (1717), geometry formed his principal occupation. He adoined the Journal des Scavans with many excellent treatifes; and he added to the memoirs of the Academy many interesting papers. These are the only works which he has left behind him. He died at Paris on the 20th December 1737, in his 78th year, of a fever. He married a wife of the family of Croufas in Switzerland, who bore him a fon, Bernard Joseph, diftinguished as a writer for the theatre.

Saurin was of a bold and impetuous spirit. He had that lofty deportment which is generally mistaken for pride. His philosophy was authere; his opinions of men were not very favourable; and he often delivered them in their presence: this created him many enemies. His memory was attacked after his decease. A letter was printed in the Mercure Suiffe, faid to be written by Saurin from Paris, in which he acknowledges that he had committed feveral crimes which deferved death. Some Calvinist ministers published in 1757 two or three pamphlets to prove the authenticity of that letter; but Voltaire made diligent enquiry not only at the place where Saurin had been discharging the sacerdotal office, but at the deans of the clergy of that department, They all exclaimed against an imputation so opprobrious. It must not, however, be concealed, that Voltaire, in the defence which he has published in his general history of Saurin's conduct, leaves some unfavourable impreffions upon the reader's mind. He infinuates, that Saurin facrificed his religion to his interest; that he played upon Boffuet, who believed he had converted a clergyman, when he had only given a little fortune to a philosopher.

SAURURUS, a genus of plants belonging to the heptandria class; and in the natural method ranking under the fecond order, Piperita. See BOTANY Index.

SAUSSURE, HORACE BENEDICT DE, a celebrated naturalist, was a native of Geneva, and born in 1740. His father was an intelligent farmer, who lived at Conches, about half a league from Geneva, which no doubt contributed, in addition to his active education, to increase the physical strength of young Sausfure, so requifite for a naturalist who intends to travel. He went daily to town for public instruction; and as he lived at the foot of a mountain, he frequently amufed himfelf in afcending its steep and rugged sides. Thus environed by the phenomena of nature, and affilled by fludy, it was to be expected that he would foon conceive a predilection for natural history. Botany was his most early and favourite study, a taste which was powerfully encouraged by his local fituation, and was the means of introducing him to the acquaintance of the great Haller, to whom he paid a visit in 1764, and was astonished at his intimate acquaintance with every branch of the natural sciences.

His attachment to the fludy of the vegetable kingelom was also increased by his connection with Bonnet, who had married his aunt, and who put a proper estimate on the talents of his nephew. He was at that time engaged in the examination of the leaves of plants, to which Sauffure was also induced to turn his attention, and published the result of his refearches under the title Saussiane of Observations on the Bark of Leaves. About this time the philosophical chair at Geneva became vacant, and was given to Saussure at the age of 21. Rewards conferred so early have been thought to extinguish in some a zeal for the increase of knowledge, but this was not the case with de Saussure, who taught physics and logic alternately with equal fuccefs. For physics, however, he had the greatest taste, as affording the means of profecuting the study of chemistry, mineralogy, and other kindred sciences.

He now began his travels through the mountains, not for the purpole of studying, as formerly, their flowery decorations, but their conflituent parts, and the disposition of their masses. During the first fifteen years of his profesforship, he was alternately engaged in discharging the duties of his office, and in traverfing the mountains in the vicinity of Geneva; and in this period his talents as a great philosopher were fully displayed. He extended his refearches on one fide to the banks of the Rhine, and on the other to the country of Piedmont, He travelled to Auvergne to examine the extinguithed volcanoes, going afterward to Paris, England, Holland, Italy and Sicily. It is proper to remark that these were not mere journeys, but were undertaken purely with the view of studying nature; and in all his journeys he was furrounded with fuch instruments as would be of service to him; together with plans of his procedure previously drawn up. Readily will our readers believe this great philosopher when he afferts, that he found such a method extremely beneficial.

The first volume of his travels through the Alps was published in 1779, which contains a circumstantial defcription of the environs of Geneva, and an excursion as far as Chamouni, a village at the foot of Mont-Blanc. It contains a description of his magnetometer, with which philosophers will probably be delighted. In proportion as he examined mountains, the more was he perfuaded of the importance of mineralogy; and that he might fludy it with advantage, he acquired a knowledge of the German language. In the last volumes of his travels, the reader will fee how much new mineralogical knowledge he had acquired.

During the troubles which agitated Geneva in 1782, he made his beautiful and interesting experiments on hygrometry, which he published in 1783. This has been pronounced the best work that ever came from his pen, and completely established his reputation as a philosopher. De Saussure refigned his chair to his pupil and fellow labourer, Pictet, who discharged the duties of his office with reputation, although rendered difficult to him by succeeding so great a man. He projected a plan of reform in the education of Geneva, the defign of which was, to make young people acquainted with the natural fciences and mathematics at an early period, and wished that their physical education should not be neglected, for which purpose he proposed gymnastic exercifes. This plan found admirers in the city, but the poverty of its funds was an obstacle in the way of any important innovation. It was dreaded too, that if established forms were changed, they might be altered for the worfe.

The attention of De Sausfure was not wholly confined to public education, for he superintended the education of his own two fons and a daughter, who have fince

Sauffare fince proved themselves worthy of tuch a father and preceptor. In 1786, he published his fecond volume of travels, containing a deferition of the Alps around e e of a mi eralogit, genos t, and philosopher. It contains forme valuable experiments on electricity, and a per ect we have. To him we are indebted for a cyaheavens, which is found to vary ar ording to the leight of the observer: his diaphanometer for measuring the transparency of the atmosphere; and his ane numeter f r ai ertaining the force of the winds. He founded is indebted for the flate of prosperity it has reached to the day of his death, and the prefervation of it in

prosperity constituted one of his fondest withes. In 1794, the health of this eminent man began rapidly to decline, and a fevere stroke of the palfy almost deprived him totally of the use of his limbs. Such a condition was no doubt painful to fuch a man; but his intellects still preserved their original activity, and he prepared for the press the two last volumes of his travels, which appeared in 1796. They contain a great mass of new facts and o servations of the last importance to physical science. During his illness he pub-lished Observations on the Fusibility of Stones by means of the B'ow pipe. He was in general a Neptunian, aferibing the revolutions of our globe to water, and admitting the possibility of mountains having been thrown up by elastic fluids disengaged from the cavities of the earth. In the midth of his rapid decline he cherished the hopes of recovery; but his strength was exhausted; a languor fucceeded the vigour which he had formerly enjoyed; his flow pronunciation did not correspond with the vivaci y of his mind, and was a melancholy contrast to the pleafattness which he had formerly exhibited. He tried in vain to procure the re-establishment of his health, for all the remedies prefcribed by the ableft physicians were wholly ineffectual. His mind afterwards loft its activity, and on the 22d of March 1700. he finished his mort I career, in the 59th year of his age, lamented by a family to whom he was dear,by a country to which he had done honour, -and by Europe, the knowledge of which he had extended.

SAUVAGESIA, a genus of plants belonging to with the fe of which the order is doubtful. See Bo-

SAUVEUR, Joseph, an eminent French mathematician, born at La Fleche in 1652. He was abso-I stely dumb until he was feven years of age; and even to permit him to fpeak without great deliberation. Mathematics were the only fludies he had any relish for. and these he cultivated with extraordinary success; so that he commenced teacher at 20 years of age, and was fo foon in vogue, that he had Prince Eugene for his scholar. He became mathematical professor in the royal college in 1686; and ten years after was admitted a member of the Academy of Sciences. He died in 1716; and his writings, which confift rather of detached papers than of connected treatifes, are all inferted in the Memoirs of the Academy of Sciences. Vol. YVIII. Part II.

He was twice married; and by the last wife had a ton. Sauv ur who, like himfelf, was dumb for the first feven years

SAW', an influment which ferves to cut into pieces feveral folid matters; as wood, it ne, ivory, &c.

The bift is me of tempered iteel ground bril hence the fall, beides their being fluir, are likewife found annother than the latt. They are known to be well I man red by the this bending of the blade; and

The lapidaries, too, have their faw, as well as the workmen in mofaic; but of all mechanics, none have fo many faws as the joiners, the chief of which are the following. The pit-faw, which is a large two handed faw, employed for fawing timber in pits, and chiefly used by the fawers. The whip-law, which has likewise two handles, used in fawing such large pieces as the hand faw will not easily reach. The hand faw is made to be used by an individual, of which there are different kinds, as the frame faw, which is furnished with cheeks. By the twifted cords which pass from the upper parts of there cheeks, and the tongue in the middle of them, the upper ends are drawn closer together, and the lower let further afunder. The tenon-faw, which being very pass-faw, which is very 'mall, and its teeth usually not fet; its afe is to cut a round, or any other compasskerf, on which account the edge is made broad, and the back thin, that it may have a compals to turn in.

At an early period, the trunks of trees were split with wedges into as many and as thin pieces as possible; were hewn on both fides to the proper fize. This fimple and watteful manner of making boards has been still continued in some places to the present day. Peter the Great of Russia endeavoured to put a stop to it, by forbidding hewn deals to be transported on the river Neva. The faw, however, though fo convenient and beneficial, has not been able to banish entirely the practice of splitting timber used in building, or in making furniture and utenfils; for we do not speak here of firewood; and indeed it must be allowed that this method is attended with peculiar advantages which that of fawing can never poffels. The wood-folitters perform their work more expeditiously than fawers, and split timber is much fironger than that which has been fawn; for the fiffure follows the grain of the wood, and leaves it who'e; whereas the faw, which proceeds in the line chalked out for it, divides the fibres, and by thefe means lessens its cohesion and folidity. Split timber, many purpofes to which it is applied this is not injurious, and these faults may sometimes be amended. As rection, thin boards particularly, can be bent much better. This is a great advantage in making pipe staves, or fieve frames, which require still more art. and in forming various in plements of a fimilar kind.

Our common fav, which requires only to be guided by the half, howe er simple it may be, was not known been inferted in their mythology by the Greeks, with a

piece, in which, among their gods, they honoured the greatest benefactors of the earliest ages. By some he is called Talus, and by others Perdix. None except Pliny make Dædalus the inventor; but Hardouin, in the puffage where this occurs, reads Talus for Dædalus. Talus is the name of the inventor according to Diodorus Siculus, Apollodorus, and others. He was the fon or Diedalus's fifter, and was by his mother placed under the tuition of her brother, to be instructed in his art. blaving found the jaw-bone of a fnake, he employed it to cut through a finall piece of wood; and by thefe means was induced to fabricate a fimilar instrument of iron, that is, to make a faw. This invention, by which labour is greatly facilitated, excited the envy of his mafler, and prompted him to put Talus privately to death. Being afked, when burying the body, what he was depositing in the earth, he replied, a ferpent. This ambiguous answer discovered the murder; and thus a snake was the cause of the invention, of the murder, and of its being brought to light. By others the inventor is called Perdix, who is supposed to have been the fon of a fifter of Dædalus. Perdix did not employ the jawbone of a fnake for a faw, but the back-bone of a fifh, as is mentioned by Ovid.

The faws of the Grecian carpenters had the fame form, and were made with equal ingenuity as the fame instruments at present. This appears from a painting preferved among the antiquities of Herculaneum. Two genii are represented at the end of a bench, confisting of a long table refting on two four-footed flools; and the piece of wood to be fawn through is fecured by cramps. The faw with which the genii are at work bears a striking resemblance to our frame-saw. It confifts of a fquare frame, having a blade in the middle, the teeth of which are perpendicular to the plane of the frame. The piece of wood to be fawn extends beyond the end of the bench, and one of the workmen appears flanding, and the other fitting on the ground. The arms in which the blade is faftened, have the fame form as that given to them at present. In the bench are seen holes, in which the cramps holding the timber are fluck. They are shaped like the figure 7; and the ends of them reach below the boards which form the top of it.

SAW fish. See PRISTIS, ICHTHYOLOGY Index.

SAW Mills. The most beneficial improvement of the operation of fawing was the invention of faw-mills, which are driven either by water or by wind. Mills of the first kind were creeded so early as the fourth century, in Germany, on the small river Ruer. The art of cutting marble with a few is very ancient. According to Pliny, it was invented in Caria. Stones of the foaprock kind, which are fofter than marble, were fawn at that period; but it appears that the harder kinds of stone were also then fawn; for we are informed respecting the discovery of a building which was encrusted with cut agate, carnelian, lapis lazuli, and amethyfts. There is, however, no account in any of the Greek or Roman writers of a mill for fawing wood; and as modern authors speck of saw-mills as new and uncommon, it appears that the oldest construction of them has been forgotten, or that fome interesting improvement has made them appear entirely new.

Becher fays that faw-mills were invented in the 17th century, which is a millake; for when the infant Henry

fent people to fettle in the island of Madeira, discovered Saw-mills. in 1420, he gave orders for law-mills to be erected, for the purpose or fawing into deals the various forcies of excellent timber with which the island abounded, and which were atterwards exported to Portugal. There was a faw-mill in the city of B. effau about the year 1427, producing a yearly rent of three merks; and in 1.100, the magnitrates of Erfurt purchased a forest, in which they crected a faw mill, beiides renting another in the neighbourhood. The first faw-mill in Norway was erected about the year 1530. In the year 1552 there was a faw-mill erected at Joachimfthal, the property of a mathematician called Jacob Geufen. In 1555. the bithop of Ely, ambaffador from Queen Mary of England to the court of Rome, having ieen a faw-mill in the vicinity of Lyons, the writer of his travels gave a particular description of it. The first faw mill was erected in Holland at Saardam in 1506, the invention of which is ascribed to Cornelius Cornelissen.

The first mill of this kind in Sweden was erected in the year 1653. At present, that kingdom possesses the largest perhaps ever constructed in Europe, where a water-wheel, 12 seet broad, drives at the same time 72

faus.

In England, faw-mills had at firlt a similar fate with printing in Turkey, the ribbon-loom in the dominions of the church, and the crane at Straiburg. When attempts were made to introduce them, they were violently opposed, because it was apprehended that the fawers would thus be deprived of the means of procuring subfiltence. An opulent merchant in 1767 or 1768, by defire of the Society of Arts, caused a saw-mill to be erected at Limehouse, driven by wind; but it was demolished by the mob, and the damage was suffained by the nation, while some of the rioters were punished. This, however, was not the only mill of the kind then in Britain; for at Leith these was one driven by wind, some years before.

Saw-mills are very common in America, where the moving power is generally water. Some have been confiructed on a very extensive plan; one in particular, we have been informed, has been erected in the province of New Brunswick, in British America, for the purpose of cutting planks for the English market. This machine works 15 faws in one frame, and is capable, it is faid, of cutting annually not fewer than 8,000,000

feet of timber.

The mechanism of a fawing mill may be reduced to three principal things; the first, that the saw is drawn up and down as long as is necessary, by a motion communicated to the wheel by water; the second, that the piece of timber to be cut into boards is advanced by an uniform motion to receive the strokes of the saw; for here the wood is to meet the saw, and not the saw to follow the wood, therefore the motion of the wood and that of the saw ought immediately to depend the one on the other; the third, that where the saw has cut through the whole length of the piece, the whole machine slopes of itself, and remains immoveable; less that wing no obstacle to surmount, the moving power should turn the wheel with too great velocity, and break some part of the machine.

Saw mills have been diffinguished into two kinds, viz. those which have a reciprocating and those which have a rotatory motion.

Plate ccccLxix.

Fig. 1. represents the elevation of a reciprocating faw-mill. AA is the fluft or axle, upon which is fixed the wheel BB (of 174 or 18 feet diameter), containing AD buckets to receive the water by which it is impelled. CC a wheel fixed upon the tame that containing c6 teeth, to drive the pinion No 2, having 22 teeth, which is fattened upon an iron axle or fpindle, having a coupling box on each end that turns the cranks, as DD, round; one end of the pole E is put on the crank, and its other end moves on a joint or iron bolt at F, in the lower end of the frame GG. The crank DD being turned round in the hole E, moves the frames GG up and down, and these having taws in them, by this motion cut the wood. The pinion, No 2. may work, two, three, or more cranks, and thus move as many frames of faws. No 3, an iron wheel having augular teeth, which one end of the iron K takes hold of, while its other end rolls on a bolt in the lever HIH. One end of this lever moves on a bolt at I, the other end may lie in a notch in the frame GG io as to be perhed up and down by it. Thus the catch K pulls the wheel round, while the catch L falls into the teeth and prevents it from going backwards. Upon the axie of No 3, is also fixed the pinion No 4. taking into the teeth in the under edge of the iron bar, that is faltened upon the frame TT, on which the wood to be cut is laid: by this mean the frame TT is moved on its rollers SS, along the fixed frame UU; and of course the wood fastened upon it is brought forward to the faws as they are moved up and down by reason of the turning round of the crank DD. VV, the machine and handle to raise the sluice when the water is to be let upon the wheel BB to give it motion. By pulling the rope at the longer arm of the lever M, the pinion No 2, is put into the hold or grip of the wheel CC, which drives it; and by pulling the rope R, this pinion is cleared from the whicel. No 5, a pinion containing 24 teeth, driven by the wheel CC, and having upon its axle a fheave, on which is the rope PP, passing to the theave No 6. to turn it round; and upon its axle is fixed the pinion No 7. acting on the teeth in an iron bar upon the frame TT, to roll that frame backwards when empty. By pulling the rope at the longer arm of the lever N, the pinion No 5. is put into the hold of the wheel CC; and by pulling the rope O it is taken off the hold. No 8, a wheel fixed upon the axle No o, having upon its periphery angular teeth, into which the catch No 10, takes; and being moved by the lever attached to the upper part of the frame G, it pushes the wheel No 8. round; and the catch No 11. falls into the teeth of the wheel, to prevent it from going backwards while the rope rolls in its axle, and drags the logs or pieces of wood in at the door Y, to be laid upon the moveable frames TT, and carried forward to the faws to be cut. The catches No 10, 11. are easily thrown out of play when they are not wanted. The gudgeons in the shafts, rounds of the cranks, spindles, and pivots, should all turn round in cods or bushes of brass. Z, a door in one end of the mill-house at which the wood is conveyed out when cut. WW, walls of the mill house. OO, the couples or framing of the roof. XXX, &c. windows to admit light to the house.

Saw-mills for cutting blocks of stone are generally, though not always, moved horizontally: the horizontal alternate motion may be communicated to one or more

faws, by means of a rotatory motion, either by the use Saw-mill of cranks, &c. or in some such way as the following. Let the horizontal wheel ABDC (fig. 2.) drive the pi. Fig. 2. nion Op N, this latter carrying a vertical pin P, at the dillance of about one-third of the diameter from the centre. This pinion and pin are represented separately in fig. 3. Let the frame WSTV, carrying four faws, Fig. 5. marked 1, 2, 3, 4, have wheels V, T, W, W, each running in a groove or rut, whose direction is parallel to the proposed direction of the faws : and let a transverse groove PR, whose length is double the distance of the pin P from the centre of the pinion, be cut in the faw frame to receive that pin. Then, as the great wheel revolves, it drives the pinion, and carries round the pin P: and this pin, being compelled to flide in the ilraight groove PR, while by the rotation of the pinion on which it is fixed its diffance from the great wheel is constantly varying, it causes the whole saw frame to approach to and recede from the great wheel alternately, while the grooves in which the wheels run confine the frame fo as to move in the direction TI, Vv. Other blocks of Rone may be fawn at the fame time by the motion of the great wheel, if other pinions and frames running off in the directions of the respective radii EB, E.A. EC, be worked by the teeth at the quadrantal points B, A, and C. And the contrary efforts of thefe four frames and pinions will tend to fosten down the jolts, and equalize the whole motion.

The fame contrivance, of a pin fixed at a fuitable distance from the centre of a wheel, and fliding in a groove, may ferve to convert a reciprocating into a sotatory motion: but it will not be preferable to the containty in the contribution of the contribution.

mon conversion by means of a crank.

When faws are used to cut the less of flone into pieces having cylindrical furfaces, a famili addition is made to the apparatus. See figs 4 and 5. The faw, inflead of Fig-4. & 5 being allowed to fall in a vertical groove as it cuts the block, is attached to a lever or beam FG, fufficiently flrong; this lever has feveral bules pieced through it, and fo has the vertical piece ED, which is likewise moveable towards either fide of the frame in prooves in the top and bottom pieces AL, DM. Thus, the length KG of the radius can be varied at pleadure, to full the curvature of NO; and as the faw is moved to and fro by proper machinery, in the direction CB, BC, it works lower and lower into the block, while, being confined by the beam FG, it cuts the cylindrical portion from the block P as required.

When a completely cylindrical pillar is to be cut out of one block of itone, the first thing will be to afcertain in the block the position of the axis of the cylinder: then lay the block to that fuch axis shall be parallel to the horizon, and let a cylindrical hole of from one to two inches diameter be bored entirely through it. Let an iron bar, whose diameter is rather less than that of this tube, be put through it, having just room to slide freely to and fro as occasion may require. Each end of this bar should terminate in a screw, on which a nut and frame may be fattened: the nut frame should carry three flat pieces of wood or iron, each having a flit running along its middle nearly from one end to the other, and a feren and handle must be adapted to each slit: by these means the frame-work at each end of the bar may readily be fo adjusted as to form equal isosceles or equilateral triangles; the iron bar will connect two cor-

3 U 2

responding

mil. responding angles of these triangles, the saw to be used two other corresponding angles, and another bar of iron or of wood the two remaining angles, to give fufficient strength to the whole frame. This construction, it is obvious, will enable the workmen to place the faw at any proposed distance from the hole drilled through the middle of the block; and then, by giving the alternating motion to the faw frame, the cylinder may at length be cut from the block, as required.

If it were proposed to faw a conic frustum from such a block, then let two frames of wood or iron be fixed to those parallel ends of the block which are intended to coincide with the bases of the frustum, circular grooves being previously cut in these frames to correspond with the circumferences of the two ends of the proposed frustum; the faw being worked in these grooves will manifestly cut the conic surface from the block. This, we believe, is the contrivance of Sir George Wright.

The best method of drilling the hole through the middle of the proposed cylinder seems to be this: on a carriage running upon four low wheels let two vertical pieces (each having a hole just large enough to admit the borer to play freely) be fixed two or three feet afunder, and so contrived that the pieces and holes to receive the borer may, by forews, &c. be raifed or lowered at pleafure, while the borer is prevented from sliding to and fro by floulders upon its bar, which are larger than e heles in the vertical pieces, and which, as the borer revolves, press against those pieces: let a part of the boring bar between the two vertical pieces be fquare, and a grooved wheel with a fquare hole of a fuitable ize be placed upon this part of the bar; then the rotetory motion may be given to the bar by an endless cand which shall pass over this grooved wheel and a beel of a much larger diameter in the same plane, the latter wheel being turned by a winch handle in the usual way. See boring of ORDNANCE.

Circular faws, acting by a retatory motion, have been good used in veneering. They were introduced into Wis country, we believe, by General Bentham, and are now used in the dock yard at Portsmouth, and in a adopted as might be wished, considering how well they are cal ulated to abridge labour, and to accomplish itk me to perform in the ufual way. Circular faws inclined planes; and the timber to be cut may be laid upon a plane inclined in any direction; fo that it may be fawn by lines making any angle whatever, or at any prop fed dittance from each other. When the faw is fixed at a certain angle, and at a certain diffance from the edge of the frame, all the pieces will be cut of the fame fize, without marking upon them by a chalked Fire, merely by causing them to be moved along and keeping one fide in contact with the fide of the frame; for ther, as they are brought one by one to touch the

mount to fix d wall a one of the e, intended for cutting and horing tenons of d in this next man's holl or matts, is recented in 1. 6. NOI Oh is a hollow for me, under which is part of the wheel-work of the horse-mill. Saw-mill -A, B, D, C, E, F, are pulleys, over which pass straps or endless bands, the parts of which out of fight run, upon the rim of a large vertical wheel: by means of this simple apparatus, the faws S, S', are made to revolve upon their axles with an equal velocity, the fame band passing round the pulleys D, C, upon those axles; and the rotatory motion is given to the borer G by the band passing over the pulley A. The board I is inclined to the borizon in an angle of about 30 degrees; the plane of the faw S' is parallel to that of the board I. and about a quarter of an inch diffant from it, while the plane of the faw S is vertical, and its lowest point at the same distance from the board I. Each piece of wood K out of which the tenon is to be cut is four inches long, an inch and a quarter broad, and 5-eighths of an inch thick. One end of fuch piece is laid fo as to flide along the ledge at the lower part of the board I; and as it is pushed on, by means of the handle H, it is first cut by the faw S', and immediately after by the faw S: after this the other end is put lowest, and the piece is again cut by both faws: then the tenon is applied to the borer G, and as foon as a hole is pierced through it, it is dropped into the box beneath. By this process, at least 30 tenons may be completed in a minute, with greater accuracy than a man could make one in a quarter of an hour, with a common hand faw and gimblet. The like kind of contrivance may, by flight alterations, be fitted for many other purposes, particularly all fuch as may require the speedy fawing of agreat number of pieces into exactly the same fize and

SAXE, MAURICE COUNT of, was born the 13th October 1696. He was the natural fon of Frederic Augustus II. elector of S xony, and king of Poland, and of the counters of Konigfmarc, a Swedish lady, celebrated both for her wit and beauty. He was educated along with Frederic Augustus the electoral prince. afterwards king of Poland. His infancy announced the future warrior. Nothing could prevail on him to apply to his studies but the promise of being allowed, after he had finished his task, to mount on horseback, or ex-

He ferved his first campaign in the army commanded only twelve years old. He fignalized himself at the fieges of Tournay and Mons, and particularly at the battle of Malplaquet. In the evening of that memorable day, he was heard to fay, " I'm content with my day's work." During the campaign of 1710, Prince Eugene and the duke of Marlborough made many public encomiums on his merit. Next year the young count accompanied the king of Poland to the fiege of Stralfund, the firengest place in Pomerania, and difplayed the greatest intropidity. He swam across the river in fight of the enemy, with a pistol in his hand. His valour shone no less conspicuously on the bloody day of Gaedelbufck, where he commanded a regiment of cavalry. He had a horse killed under him, after he had three times rallied his regiment, and led them on to the

Soon after that campaign, his mother prevailed on him to marry the countels of Lubin, a lady both rich and beautiful. This union lafted but a flort time. In a step of which he afterwards repented. The countefs left him with regret; but this did not prevent her from marrying foon after. The count of Saxe was too fond of pleasure and variety to submit to the duties which marriage impofes. In the midft, however, of the plcafures in which he fometimes indulged, he never loft fight of his profession. He carried along with him wherever he went a library of military books; and even when he feemed most taken up with his pleafures, he never failed to fpend an hour or two in private iludy.

had an army of 15,000 men under the command of Prince Eugene. Young Count Saxe was present at the fiege of Belgrade, and at a battle which the prince gained over the Turks. On his return to Poland in 1718,

he was made a knight of the golden eagle.

The wars in Europe being concluded by the treaties of Utrecht and Paffarowitz, Count Saxe went to France, He had always professed a partiality for that country. French, indeed, was the only foreign language which during his infancy he was willing to learn. He fpent his whole time during the place in studying mathematics, fortification, and mechanics, sciences which exactly fuited Lis genius. The mode of exercifing troops had Aruck his attention when very young. At 16 he invented a new exercise, which was taught in Saxary with the greatest success. Having obtained a regiment in France in 1722, he formed it himself according to his new plan. From that moment the Chevaler Folord, an excellent judge of military talents, predicted that he would be a great man.

In 1726 the states of Courland chose him for their fovereign. But both Poland and Russia role in arms to oppose him. The Czarina wished to bestow the duchy on Merzikoff, a happy adventurer, who from a the new-chosen duke in his palace. Count Saxe, who trepidity. The rege was raifed, and the Ruffians obliged to retreat. Soon after he retired to Ufmsiz, and prepared to defend his people against the two howile nations. Here he remained with only 300 mm, till the Ruffian general a prouched at the head of 4000 to force his retreat. That general invited the count to a conference, during which he intended to furprife him, and take him pri n.r. The count, in rn. d of the plot, repreached him for his baleness, and broke up the conference. About this time he wrote to I rance for actress, pawned her jewels and plate, and fent him the fum of 40,000 livres. This actress had formed it mind theatre, which he ret incd ev n in the carno. The minions, and i tire into France. It is id that A me Iwanowa, due le dome er of Card nd, and le al 1. The dim in dos fixing his a very protion — The limitary loft the proof Control Lat the

throne of Ruffia itfelf, which that princels afterwards Save

Count Saxe, thus ftript of his territories, devoted himself for some time to the study of mathematics. He This book is written in an incorrect but forcible flyle; it is full of remarks both new and profound, and is courlly uf ful to the foldier and the general

kindled a new war in Europe. His brother, the elector of Saxony, offered him the command of all his forces, but he preferred the French fervice, and repaired to the marechal of Berwick's army, which was encamped on the Rhine. "Count," faid that general, who was preparing to attack the enemy's entrenchments at Etlinghen, " I was going to fet d for 2000 men, but your began, the count, at the head of a regiment of grenadiers, forced the enemy's lines, and by his bravery decided the victory. He behaved at the fiege of Philipf-Lurgh with no lefs intrepidity. For these services he

of Charles VI. emperor of Germany kindled a new war

Prague was beinged by the cou. t of Save in 1741, Prague. It was taken a few days after the trenches were opered. This fuccess gave so much by to the letter to the conqueror with his own hand:

was, in 1734, rewarded with the rank of lieutenant-

In 1744 he was made marechal of France, and comthat compaign he difflayed the greatest military conduct. Though the enemy was lepecior in number, i.e

In January 1745, an alliance was concluded at Warof the States General, meeting Marechal Saxe one day at Ver/ailles, asked his opinion of that trea v. "I think (rays he), that if the king my mafter would give was not a bigwado; the marechal was capable of per-

tries. A gold an feeing the feeble conttion in which he left Paris, afted him how he could in that fito at on undertake to great an enterprife. " The question on after the opening of the coursing, the battle of is sted on barrick, then hie was is very week

Sare

and Bruffels: This last city was taken on the 28th February 1746; and very foon after the king fent to the marechal a letter of naturalization conceived in the moll flattering terms. The fucceeding campaigns gained him additional honours. After the victory of Raucoux, which he gained on the 11th October 1746, the king of France made him a prefent of fix pieces of cannon. He was, on the 12 h of January of the following year, created marcchal of all the French armies, and, in 1748, commander-general of all those parts of the Netherlands

Holland now began to tremble for her fafety. Maeftricht and Bergen-op-Zoom had already fallen, and nothing but misfortunes seemed to attend the further profecution of the war. The States General, therefore, offered terms of peace, which were accepted, and a treaty

concluded on the 18th October 1748.

Marechal Saxe retired to Chambord, a country feat which the king of France had given him. Some time after he went to Berlin, where the king of Pruffia received him as Aix ander would have received Carar .-On his return to France, he spent his time among men of learning, artists, and philosophers. He died of a fever, on the 30th November 1750, at the age of 54. Some days before his death, talking to M. Senac his

physician about his life, "It has been (fays he) an excellent dream." He was remarkably careful of the lives of his men. One day a general officer was pointing out to him a post which would have been of great use. "It will only cost you (fays he) a dozen grenadiers. "That would do very well," replied the marechal,

" were it only a dozen lieutenant-generals."

It was impossible for Marechal Saxe, the natural brother of the king of Poland, elected fovereign of Courland, and possessed of a vigorous and restless imagination, to be destitute of ambition. He constantly entertained the notion that he would be a king. After lofing the crown of Ruffia by his incontancy in love, he formed, it is faid, the project of affembling the Jews, and of being the fovereign of a nation which for 1700 years had neither poffelled chief nor country. When this chimerical idea could not be realized, he cast his eyes upon the kingdom of Cossica. After failing in this project also, he was bufily employed in planning a fettlement in some part of America, particularly Brazil, when death furprifed him.

He had been educated and died in the Lutheran religion. " It is a pity (faid the queen of France, when fire heard of his death) that we cannot fay a fingle De profundis (trayer for the dead ) for a man who has made us fing fo many Te Deums." All France la-

mented his death.

By his will, which is dated at Paris, March 1. 1748, he directed that his body should be buried in quicklime: " that nothing (lays he) may remain of me in this world but the remembrance of me among my friends," These orders, however, were not complied with; for his body was embalmed, but into a leaden coffin, which was included in another of copper, and this covered

with one of wood, bound about with from. His heart was put into a filver gilt box, and his entrails into another coffin. Louis XV. was at the charge of his fu-Grammatineral. By his order his copple was interred with great pomp and fplendor in the Lutheran church of St 1 ho-

mas, at Strafburg, on the 8th February 1751.

The marechal was a man of ordinary flature, of a tobust constitution, and extraordinary strength. To an afacet, noble, warlike, and mild, he joined the ex-cellent qualities of the heart. Affaile in his manners, and disposed to sympathize with the unfortunate, his generofity fometimes carried him beyond the limits of his fortune. On his death-bed he reviewed the errors of his life with remorfe, and expressed much peni-

The best edition of his Reveries was printed at Paris 1757, in two vols 4to. It was compared with the greatest attention with the original manuscript in the king's library. It is accompanied with many defigns exactly engraved, and a Life of the Author. The Life of Marechal Saxe was written by M. d'Espagnac, two vols 1 2mo. This history is written in the panegyrical flyle. The author is, however, impartial enough to remark, that in the three battles upon which the reputation of Marechal Saxe is founded, he engaged in the most favourable circumstances. " Never did a general (fays he) stand in a more advantageous fituation. Honoured with the confidence of the king, he was not restrained in any of his projects. He always commanded a numerous army : his foldiers were fleady, and his officers polfeffed great merit,"

SAXIFRAGA, SAXIFRAGE, a genus of plants belonging to the decandria ciass; and in the natural method ranking under the 13th order, Succulentæ. See

SAXO-GRAMMATICUS, descended from an illustrious Coxe's Tra-Danith (A) family, was born about the middle of the vels into 12th century. Stephens, in his edition of Saxo Gram-Denmark. maticus, printed at Soroë, indubitably proves, that he must have been alive in 1156, but cannot ascertain the exact place and time of his birth. See Stephens's Prolegomena to the Notes on Saxo-Grammaticus, p. 8, to 24; also Holberg, vol. i. p. 269; and Mallet's North. Antiq. vol. i. p. 4. On account of his uncommon learning, Saxo was diffinguished by the name of Grammaticus. He was proveft of the cathedral church of Roskild, and warmly patronized by the learned and warlike Abfalon, the celebrated archbishop of Lunden, at whose infligation he wrote the History of Denmark. His epitaph, a dry panegyric in bad Latin verses, gives no account of the era of his death, which happened, according to Stephens, in 1204. His history, confishing of 16 books, begins from the earliest account of the Danish annals, and concludes with the year 1186. According Holbers, to the opinion of an accurate writer, the first part, which relates to the origin of the Danes, and the reigns of the ancient kings, is full of fables; but the eight last books, and particularly those which regard the events of his own times, deserve the utmost credit. He wrote in Latin;

A' Some authors have erroncoully conjectured, from his name Saxo, that he was born in Saxony; but Saxe was to uncommon appellation among the ancient Danes. See Olaus Wormius Monumenta Danica, p. 186, and Stephens's Prolegomena, p. 10.

La in; the flyle, if we confider the barbarous age in Grammati- which he flourished, is in general extremely elegant, but rather too poetical for hillory. Mallet, in his Hiffoire de Dannemare, vol. i. p. 182, fays, "that Sperling, a writer of great erudition, has proved, in contradiction to the affertions of Stephens and others, that Saxo-Grammaticus was fecretary to Abfalon; and that the Saxo provoit of Rolkild was another person, and lived carlier."

SAXCNY, the name of two circles of the German empire, an electorate, and a duchy of the fame. The lower circle is bounded to the fouth by the circle of Upper Saxony, and a part of that of the Upper Rhine; to the north, by the duchy of Slefwick, belonging to the king of Denmark, and the Baltic; to the west, by the circle of Wellphalia and the North fea; and to the east by the circle of Upper Saxony. The states belonging to it are the dukes and princes of Magdeburg and Bremen, Zell, Grubenhagen, Calenburg, Wolfen-buttle, Halberiladt, Mecklenburg-Schwerin, Mecklenburg Guilro, Holftein-Gluckstadt, Holftein-Gottorf, Hildetheim, Saxe-Lawenburg; the archbishopric of Lubeck; the principalities of Schwerin, Ratzeburg, Blankenburg, Ranzau; the imperial cities of Lubeck, Getzlar, Muhlhaufen, Nordhaufen, Hamburg, and Bremen, The dukes of Bremen and Magdeburg are alternately directors and furnmoning princes; but, ever fince the year 1682, the diets which used generally to be held at Brunlwick or Lunenburg have been discontinued. Towards the army of the empire, which, by a decree of the empire in 1681, was fettled at 40,000 men, this circle was to furnish 1322 horsemen and 2707 foot; and of the 300,000 florins granted to the imperial cheft in 1707, its quota was 31,271 florins; both which affeffments are the fame with those of Upper Saxony, Burgundy, Swabin, and Westphalia. This circle at present nominates only two affelfors in the chamber judicatory of the empire, of one of which the elector of Brunswick-Lunenburg has the nomination, who must be a Luther-an, and is the ninth in rank. The inhabitants of this circle are almost all Lutherans.

The circle of Upper Saxony is bounded by that of Franconia, the Upper Rhine, and Lower Saxony; and also by the Baltic sea, Prussia, Poland, Silesia, Lusatia, and Bohemia. It is of great extent, and contains the following flates; viz. the electors of Saxony and Brandenburg, Saxe-Weimar, Saxe-Eifenach, Saxe-Cobourg, Save Gotha, Saxe-Altenburg, Saxe Querfurt, the Hither and Farther Pomerania, Camin, Anhalt, Quidlenburg, Gernrode, Walkenried, Schwarzburg, Sondershaufen, Schwarzburg-Rudolstadt, Mansfeld, Stolberg, Barby, the counts of Reuffen, and the counts of Schonberg. No diets have been held in this circle fince the year 1683. The elector of Saxony has always been the fole fummoning prince and director of it. Most of the inhabitants profess the Protestant religion. When the whole empire furnishes 40,000 men, the quota of this circle is 1322 horse and 2707 foot. Of the 300,000 florins granted by the empire in 1707, it contributed only 31,271 florins, 28 krui zers, being rated no higher than those of Westphalia, Lower Saxony, Swabia, and Burgundy, though it is much larger. Agreeable to a refolution and regulation in 1654, this circle nominates now only in the flow of the chamber-court.

The electorate conflits of the duchy of Saxony, the

greatest part of the margravate of Meissen, a part of Savony. the Vogtland, and the northern half of the landgravate of Thuringia. The Lufatias also, and a part of the country of Henneberg, belong to it, but are no part of this circle. The foil of the electoral dominions lying in this circle is in general exceeding rich and fruitful, vielding corn, fruits, and pulse in abundance, together with hops, flax, hemp, tobacco, anifeed, wild fatfron, wood; and in some places woad, wine, coals, porcelain clay, terra figillata, fullers-earth, fine thiver, various forts of beautiful marble, ferpentine flore, and almost all the different species of precions flones. Sulphur also, alum, vitriol, find, and free flone, fait-springs, amber, turf, cinnabar, quickfilver, antimony, bilmuth, arlenic, cobalt, and other minerals, are found it. This country, besides the above articles, contains likewise valuable mines of filver, copper, tin, lead, and iron; and abounds in many places with horned cattle, theep, horfes, and venifon. The principal rivers by which it is watered are the Elbe, the Schwerze-Elfler, the Mulde, the Saale, the Unstrut, the Weisse-Elster, and the Pleisse. These rivers, as well as the lakes and rivulets, abound in fish; and in the White-Eltler are found beautiful pearls. This electorate is extremely well cultivated and inhabited, and is faid to include about 250 great and fmall towns, upwards of 5000 villages, 106 royal manors, and near as many royal castles, besides private estates, and commanderies. The provincial diets here confitt of three classes. The first is composed of the prelates, the counts, and lords, and the two universities of Leipsic and Wittenberg. To the fecond belong the nobility in general, immediate or mediate, that is, fuch as thand immediately under the fief-chancery or the aulic judicatories, and fach as are immediately under the jurifdiction of the anitman. The third class is formed of the towns in general. The general provincial diets are ordinarily held every fix years; but there are others, called felection diets, which are convened commonly every two years. We would here observe, that not only these diets, but those in most of the other states of Germany, are at prefent extremely infignificant and unimportant, retaining little more than the fladow of their former power and privileges; for even the petty princes, though they depend upon their more potent neighbours, and must be careful not to give them any umbrage, are almost as abfolute in their respective territories as the grand seignior himself. As to religion, it was in this country that the reformation took its rife in the 16th century, to which it hath ever fince adhered, according to the doctrines of Luther \*. The two late electors, when they embraced & See Re-Popery in order to qualify themselves to be elected kings formation, of Poland, gave the most solemn affurances to their peo-no s. ple, that they would inviolably maintain the effablished religion and its professors in the full and free enjoyment of all their ecclefiaftical rights, privileges, and prerogatives whatfoever, in regard to churches, worthip, ceremonies, ulages, univerfities, schools, benefices, incomes, profits, jurifdictions, and immunities. The electoral families still continue Roman Catholics, though they have loft the crown of Poland, for which they at first embraced Popery. With respect to ecclesiastical matters, the country is divided into-parishes, and these again into fairitual infrections and confiltories, all fubordinate to the ecclefiattical council and upper confiftory of Drefden, in which city and Leipfic the Calvinitls and Roman Catholic enjoy the free exercise of their religion. Learning flourishes in this electorate; in which, bendes the free-schoo's and gymnasia in most of the chief towns. and printers of the greatest embence. A great variety of manufactures are also carried on in this country. The lace, paper, fine glasses and mirrors; porcelain, equal if not fuperior to that of China; iron, brafs, and fleel wares; manufactures of gold and filver, cotton, wool, and filk; gloves, caps, lats, and tapettry; in which, and the natural productions mentioned above, together with dveing, an important foreign commerce is carried on. A great addition has been made fince the year 1718 to the electoral territories, by the extinction of the collateral branches of Zeitz, Merfeburg, and Weiffenfels, whose dominions devolved to the elder electoral branch, descended from the margraves of Meissen. The first of thefe, who was elector of Saxony, was Frederick the

Cleve, and Berg, as also of Engern and Westphalia,

erch-marihal and elector of the Holy Roman empire, landgrave in Thuringia, margrave of Meissen, and of princely count of Henneberg, count of La Mark, Ravensberg, Barby, and Hanau, and lord of Ravenflein. Among the electors he is reckoned the fixth, us great-marshal of the empire, of which he is also viir, during an interregnum, in all places not subject to the vicariate of the count palatine of the Rhine. He oney of the fee of Mentz claims the directorium at the diet of the empire. His matricular affefiment, on ache pays for other diffricts and territories. To the chamber courts he contributes, each term, the fum of 1545 rix-dollars, together with 83 rix-dollars and 62 kruitzers on account of the county of Mansfeld. In this electorate, subordinate to the privy council, are various colleges for the departments of war, foreign affairs, the figether with high tribunals and courts of juffice, to which appeals lie from the inferior. The revenues of this elector are as confiderable as those of any prince in the empire, if we except those of the house of Austria. They arise from the ordinary and extraordinary subfidies of the flates; his own demelnes, confitting of 72 bailiwics; the impost on beer, and the fine porcelain filver mines, and the tenths of those that belong to parrevenue of betain 7-0,000l. and 800,000l. yet the electorate is at profest deeply in debt. The regular

The electoral circle, or the duchy of Saxony, is deaburg, and Ladatia. The principality of Anhalt lies across it, and divides it into two parts. Its greatest Saxony. length and breadth is computed at about 40 miles; but " ' it is a level by the Eibe, the Plack Elder, and the Mulee, it is markety fruitful, the toll for the most part confilling of and. It contrasts 241 ms, there beenales, 11 Superinter dencies, three into clions under one confiltory, and II prefecturates or diffricts. The prefent duchy of Saxony is not to be confounded with the old; for the latter was of a much greater extent. and contained in it those large tracks anciently called total circle was no part, but was taken by Albert the Bear, margrave of Salzwedel, from the Venedi. His from the emperor Frederic I. the name of duchy was given to this country; and the electoral dignity having been afterwards annexed to the duchy, it acquired thereby allo the name of the electoral circle.

The country of Saxony is remarkable for being the mother of the prefent English nation; but concerning the Saxons themselves, previous to that period, we have very few particulars. The Saxons (lays Mr Whitaker) have been derived by our historians from very different parts of the globe; India, the north of Afia, and the foreils of Germany. And their appellation has been equally referred to very different causes; the name of their Indian progenitor, the plundering disposition of their Afatic fathers, and the fhort hooked weapons of their warriors. But the real origin of the Saxons, and the genuine derivation of their name, feem clearly to be

In the earlier period of the Gallic hiftory, the Celtae of Gaul croffed the Rhine in confiderable numbers, and planted various colonies in the regions beyond it. Thus the Volce Techolages fettled on one fide of the Hercynian forest and about the banks of the Neckar, the Helvetil upon another and about the Rhine and Maine, the Boil beyond both, and the Senones in the heart of Germany. Thus also we see the Treviri, the Nervii, the Suevi, and the Marcomanni, the Quadi, the Venedi, and others, in that country; all plainly betrayed to be Gallic nations by the Gallic appellations which they bear, and all together possessing the greatest part of it. And, even as late as the conclusion of the first century, we find one nation on the eaftern fide of this great continent actually speaking the language of Gaul, and another upon the northern using a dialect nearly related to the British. But as all the various tribes of the Germans are confidered by Strabo to be genguou Fanalau, or genuine Gauls in their origin; fo those particularly that lived immediately beyond the Rhine, and are afferted by Tacitus to be indubitably native Germans, are expressly expressly declared by Dio to have been diffinguished by the equivalent appellation of Celtæ from the earliest period. And the broad line of nations, which extendcd along the ocean, and reached to the borders of S ythia, was all known to the learned in the days of Diodorus, by the fame fignificant appellation of Faxalas, or

Of these, the most noted were the Si Cambri and Cimbri; the former being feated near the channel of the Rhine, and the latter inhabiting the peninfula of

original;

Saxony, original; and show them to have been derived from the common flock of the Celtæ, and to be of the same Celtic kindred with the Cimbri of our own Somersetshire, and the Cymbri or Cambrians of our own Wales. The Cimbri are accordingly denominated Celtæ by Strabo and Appian. And they are equally afferted to be Gauls by Diodorus, to be the descendants of that nation which facked the city of Rome, plundered the temple of Delphi, and subdued a great part of Europe and some of Afia.

Immediately to the fouth of these were the Saxons, extending from the isthmus of the Cherlonefus to the current of the Elbe. And they were equally Celtic in their origin as their neighbours. They were denominated Ambrones as well as Saxons; and, as fuch, are included by Tacitus under the general appellation of Cimbri, and comprehended in Plutarch under the equal one of Celto-Scythie. And the name of Ambrones appears particularly to have been Gallic; being common to the Saxons beyond the Elbe, and the Ligurians in Cifalpine Gaul; as both found to their furprife, on the irruption of the former into Italy with the Cimbri. And, what is equally furprifing, and has been equally unnoticed by the critics, the Wesh distinguish England by the name of Loegr or Liguria, even to the present moment. In that irruption these Saxons, Ambrons, or Ligurians, composed a body of more than 30,000 men, and were principally concerned in cutting to pieces the large armies of Manlius and Caepio. Nor is the appellation of Saxons lefs Celtic than the other. It was originally the same with the Belgic Suesiones of Gaul; the capital of that tribe being now intitled Soifons by the French, and the name of the Saxons pronounced Saifen by the Welsh, Safon by the Scotch, and Safenach or Saxfenach by the Irish. And the Suessones of Gaul derived their own appellation from the position of their metropolis on a river, the stream at Soifons being now denominated the Aifne, and formerly the Axon; Ueston or Axon importing only waters or a river, and S-ueffon or S-ax-on on the waters or the river. The Sueffones, therefore, are actually denominated the Uessones by Ptolemy; and the Saxones are actually intitled the Axones by Lucan.

These, with their brethren and allies the Cimbri, having been more formidable enemies to the Romans by land, than the Samnites, Carthaginians, Spaniards, Gauls, or Parthians, in the fecond century applied themfelves to navigation, and became nearly as terrible by fea. They foon made themselves known to the inhabitants of the British isles by their piracies in the northern channels, and were denominated by them Lochlyn or Locklynach; lucd-lyn fignifying the people of the wave, and the d being quiescent in the pronunciation. They took possession of the Orkney islands, which were then merely large shoals of fand, uncovered with wood, and overgrown with rushes; and they landed in the north of Ireland, and ravaged the country. Before the middle of the third century they made a fecond descent upon the latter, disembarked a considerable body of men, and defigned the absolute subjection of the island. Before the conclusion of it, they carried their naval opera-tions to the fouth, infested the British channel with their little vessels, and made frequent descents upon the coasts. And in the fourth and fifth centuries, acting in conjunction with the Picts of Caledonia and the Scots of Ire-

land, they ravaged all the eastern and fouth-eastern shores of Britain, began the formal conquest of the country, and finally fettled their victorious foldiery in Lancathire.

SAY, or SAYE, in Commerce, a kind of ferge much used abroad for linings, and by the religious for shirts; with us it is used for aprons by several forts of artificers, being ufually dyed green.

SCAB. See ITCH and MEDICINE.

SCAB in Sheep, See SHEEP, Difeases of, under FARRIERY.

SCABIOSA, Scabious; a genus of plants belonging to the tetrandria class; and in the natural method ranking under the 48th order, Aggregatæ. See Bo-TANY Index.

SCABRITA, a genus of plants belonging to the tetrandria class. See BOTANY Index.

SCÆVOLA, C. Mucius, a young Roman of illustrious birth, is particularly celebrated in the Roman hiflory for a brave but unfuccefsful attempt upon the life of Porlena king of Hetruria, about the year before Christ 504. See the article Rome, No 71.

Scevola, a genus of plants belonging to the pentandria class. See BOTANY Index.

SCAFFOLD, among builders, an affemblage of planks and boards, fustained by tressels and pieces of wood fixed in the wall; whereon majons, bricklayers, &c. fland to work, in building high walls, and plasterers in plastering ceilings, &c.

SCAFFOLD, also denotes a timber-work raised in the manner of an amphitheatre, for the more commodious viewing any show or ceremony: it is also used for a stage raifed in some public place for the execution of criminals.

SCALA-NOVA, anciently Neapolis, called by the Turks Kou/badase, is fituated in a bay, on the slope of a hill, the houses rising one above another, intermixed with minarets and tall slender cypresses. "A street, through which we rode (fays Dr Chandler+), was hung + Travels with goat-skins exposed to dry, dyed of a most lively red, in Afia At one of the fountains is an ancient costin used as a ci- Minorstern. The port was filled with small craft. Before it is an old fortress on a rock or islet frequented by gulls and fea-mews. By the water-fide is a large and good khan, at which we paffed a night on our return. This place belonged once to the Ephefians, who exchanged it with the Samians for a town in Caria."

SCALADO, or SCALLADE, in the art of war, a furious affault made on the wall or rampart of a city, or other fortified place, by means of ladders, without carrying on

works in form, to fecure the men.

SCALD-CREAM, fometimes also called Clouted-cream: a curious method of preparing cream for butter, almost peculiar to Devonshire. Dr Hales, in Philosophical Transactions volume xlix. p. 342, 1755, Part I. gives fome account of the method of preparing this delicate and luxurious article; other writers also speak of it. With an elucidation or two, we shall nearly quote Mr Feltham's account from the Gentleman's Magazine, volume Ixi. Part II. It is there observed, that the purpose of making scald-cream is far superior butter than can be procured from the usual raw cream, being preferable for flavour and keeping; to which thole accultomed are fo partial, as feldom to eat any other. As leaden cifterns would not answer for scalding cream, the

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dairies mostly adopt brass pans, which hold from three to five gallons for the milk; and that which is put into thoic pens one morning, flands till the next, when, without disturbing it, it is fet over (on a trivet) a steady brifk wood fire, devoid of fmoke, where it is to remain from leven to fifteen minutes, according to the fize of the pan, or the quantity in it: the precife time of removing it from the fire must be particularly attended to, and is, when the furface begins to wrinkle or to gather in a little, showing signs of being near the agiration of boiling, which it must by no means do; it is then inflantly to be taken off, and placed in the dairy until the next morning, when the fine cream is thrown up, and may be taken for the table, or for butter, into which it is now foon converted by flirring it with the hand. Some know when to remove it from the fire by founding the pan with the finger, it being then less fonorous; but this can only be acquired by experience. Dr Hales observes, that this method of preparing milk takes off the ill tafte which it fometimes acquires from the cows feeding on turnips, cabbage, &c.

SCALDS, in the hittory of literature, a name given by the ancient inhabitants of the northern countries to their poets; in whose writings their history is record-

SCALE, a mathematical infrument confifting of feveral lines drawn on wood, brafs, filver, &c. and variously divided, according to the purposes it is intended to ferve; whence it acquires various denomina-

tions, as the plain scale, diagonal scale, plotting sale, &cc. SCALE, in Music, sometimes denominated a ganut, a diagram, a feries, an order, a diepe on. It confids of the regular gradations of found, by which a compofer or performer, whether in tilling or defeending, may pals from any given tone to another. These gradations are feven. When this order is repeated, the first note of the fecond is confentaneous with the lowest note of the latter; and fo through the whole octave. The fecond order, therefore, is justly estcemed only a repetition of the first. For this reason the scale, among the moderns, is fometimes limited to an octave; at other times extended to the compass of any particular voice or instrument. It likewife frequently includes all the practical gradations of mufical found, or the whole number of octaves employed in composition or execution, arranged in their natural order.

SCALE, in Architecture and Geography, a line divided into equal parts, placed at the bottom of a map or draught, to ferve as a common measure to all the parts of the building, or all the diffances and places of the map.

SCALENE, or Scalenous TRIANGLE, fealnum, in Geometry, a triangle whose sides and angles are uncanal. See GEOMETRY.

SCALENUS, in Anatomy. See there, Table of the

SCALIGER, Julius Cæsar, a learned critic, poet, physician, and philosopher, was born at the cast'e of Ripa, in the territories of Verona, in 1484; and is faid to have been descended from the ancient princes of Vezona, though this is not mentioned in the letters of natural zation he obtained in France in 15.8. He learned the first rudiments of the Latin tongue in his own country; and in his 12th year was prefented to the emperor Maximilian, who made him one of his

pages. He icroed that emperor 17 years, and gave Scaliger. figual proofs of his valour and conduct in feveral expeditions. He was present at the battle of Ravenna in April 1512, in which he had the misfortune to lofe his father Benedict Scaliger, and his brother Titus; on which his mother died with grief: when being reduced to necessitous circumstances, he entered into the order of the Franciscans, and applied himself to study at Bolegna; but foon after changing his mind with respect to his becoming a monk, he took arms again, and ferved in Picdmont; at which time a physician pertuaded him to fludy physic, which he did at his leifure hours, and alfo learned Greek; and at last the gout determined him, at 40 years of age, to abandon a military life. He soon after tettled at Agen, where he married, and began to apply himself sericully to his sucies. He learned first the French tongue, which he speke perfeetly in three months; and then made himself matter of the Gascon, Italian, Spanish, German, Hungarian, and Sclavonian : but the chief object of his fludies was polite literature. Meanwhile, he supported his family by the practice of physic. He did not publish any of his works till he was 47 years of age; when he foon gained a great name in the republic of letters. He had a graceful person, and so strong a memory, even in his elu age, that he dictated to his fon 200 ver'es which he had composed the day before, and retained with ut writing them cown. He was so charitatie, that his house was as it were an hospital for the poor and fick; and he had fuch an averfion to lying, that he would have no correspondence with those who were given to that vice; but, on the other hand, he had r uch vanity, and a famical spuit, which created him many e erries. He died of a retention of urine in 1558. He wrote in Lain, 1. A Treatile on the Art of Poetry. 2. Exercitations against Cardan: which works are not hefteemed. 3. Commertails on Arifold's Linery of Arimals, and on The refus on Pants. 4 Some Treatises on Physic. 5. Letters, O-rations, Poems, and other works, in Letin.

SCALLER, Joseph Johns, one of the most learned critics and writers of his time. He was the fon of the former, and was born at Agen in France in 1542. He fludied in the college of Ecurderux; after which his father took him under his own care, and employed him in transo iting his poems; Ly which means be obtained fuch a take for poetry, that before he was 17 years old he wrote a tragedy upon the fulfect of ments of flyle and fentiment. His father dving in 15:8, he went to Paris the year following, with a defign to apply himfelf to the Greek tengue. For this purpole he for two morths attended the lectures of Turnel us; but finding that in the usual counte he should be a long time in gaining his point, he flat hin felf up in his closer, and by conflan, application or two years gained a pertect knowledge of that he garge. After which he ap lied to the Hebrew, which he learned by himlelf with great facility. He made no less progress in the sciences; and his writings procured him the reputation of one of the greatest men of that or any other age. He embraced the reformed religion at 22 years of age. In 1 63, he attached himself to Lewis Calleignier de la Rech Pozay, whom he attended in feveral jeurneys; and in 1593, was invited to accept of the piace of honorary

profesior

Scaliger professor of the university of Leyden, which he complied with. He died of a dropfy in that city in 1609. He was a man of great temperance; was never married; and was fo close a student, that he often spent whole days in his study without eating; and though his circumitances were always very narrow, he constantly refused the presents that were offered him. He Hantly refused the prefents that were offered him. He published many works; the principal of which are, I. Notes on Seneca's Tragedies, on Varro, Aufonius, Pompeius Fellus, Sc. 2. His Latin Poems, 3. A Teatile de Emmadatione Temporum, 4. Eufebius's Chronicle, with Notes, 5. Canoner Ifogogici; and many other works. The collections emitted Scal gereina, were collected from his conversations by one of his friends; and being ranged into alphabetical order, were published by Ifaac Voffius.

SCALLOP. See OSTREA, CONCHOLOGY Index.

In the Highlands of Scotland, the great scallop shell is made use of for skimming milk. In old times, it had a more honourable place; being admitted into the halls of heroes, and was the cup of their festivity when the tribe affembled in the hall of their chieftain.

SCALPEL, in Surgery, a kind of knife used in ana-

tomical diffections and operations in furgery.

SCALPER, or SCALPING-IRON, a furgeon's in-

Arument used for scraping foul carious bones.

SCALPING, in military history, a barbarous cuflom, in practice among the Indian warriors, of taking off the tops of the fealps of the enemies skulls with their hair on. They preferve them as trophies of their victories, and are rewarded by their chiefs according to the number of fcalps they bring in.

SCALPRA DENTALIA, instruments used by furgeons to take off those black, livid, or yellow crusts which adhere to the teeth, and not only loofen and de-

strov them, but taint the breath.

SCAMMONY, a concreted vegetable juice of a species of convolvulus, partly of the refin, and partly of the gum kind. See Convolvulus, MATERIA MEDI-

SCANDALUM MAGNATUM, in Law, is a defamatory speech or writing to the injury of a person of dignity; for which a writ that bears the same name is

granted for the recovery of damages.

SCANDERBEG, the furname of George Castriot king of Albania, a province of Turkey in Europe, dependent on the Ottoman empire. He was delivered up with his three elder brothers as hostages, by their father, to Amurath II. fultan of the Turks, who poifoned his brothers, but spared him on account of his youth, being likewise pleased with his juvenile wit and amiable person. In a short time he became one of the most renowned generals of the age; and revolting from Amurath, be joined Hunniade Corvin, a most formidable enemy to the Ottoman power. He defeated the fultan's army, took Amurath's fecretary prisoner, obliged him to fign and feal an order to the governor of Croia, the capital of Albania, to deliver up the citadel and city to the bearer of that order, in the name of the fultan. With this forged order he repaired to Croia; and thus recovered the throne of his ancestors, and maintained the independency of his country against the numerous armies of Amurath and his fuccessor Mahommed II. who was obliged to make peace with this hero in 1461. He then went to the affiftance of Ferdinand of Arragon, at the request of Pope Plus II. Mander w. and by his afficiance Ferdinand gained a complete vic- beaudinatory over his enemy the count of Anjou. Scanderbeg died in 1167

SCANDEROON. See ALEXANDRETTA.

SCANDINAVIA, a general name for the countries of Norway, Sweden, and Denmark, anciently under the dominion of one prince. The inhabitan's of these countries, in former times, were excessively addicted to war. From their earliest years they applied themselves to the military art, and accustomed themselves to cold, fatigue, and hunger. Even the very foorts of youth and childhood were dangerous. They confifted in taking frightful leaps, climbing up the fleepest rocks, fighting naked with offensive weapons, wreflling with the utmost fury; fo that it was usual to see them grown up to be robust men, and terrible in the combat, at the age of 15. At this early age the young men became their own matters; which they did by receiving a fword, a buckler, and a lance. This ceremony was performed at fome public meeting. One of the principal men of the affembly named the youth in public; after which he was obliged to provide for his own subsifience, and was either now to live by hunting, or by joining in some incursion against the enemy. Great care was taken to prevent the young men from too early connections with the female fex; and indeed they could have no hope to gain the affection of the fair, but in proportion to the courage and address they had shown in their military exercises. Accordingly, in an ancient long, we find Bartholin, king of Norway, extremely furprifed that his mistress should prove unkind, as he could perform eight different exercises. The children were generally born in camps; and being inured from their infancy to behold nothing but arms, effusion of blood, and slaughter, they imbibed the cruel disposition of their fathers, and when they broke forth upon other nations, behaved rather like furies than like human creatures.

The laws of this people, in some measure, resembled those of the ancient Lacedemonians. They knew no virtue but bravery, and no vice but cowardice. The greatest penalties were inflicted on such as fled from battle. The laws of the ancient Danes declared fuch persons infamous, and excluded them from fociety. Among the Germans, cowards were fometimes fuffocated in mud; after which they were covered over with hurdles, to show, favs Tacitus, that though the punishment of crimes flould be public, there are certain degrees of cowardice and infamy which ought to be buried in oblivion. Frotho king of Denmark enacted, by law. that whoever folicited an eminent post ought upon all occasions to attack one enemy, to face two, to retire only one flep back from three, and never to make an actual retreat till affaulted by four. The rules of juflice themselves were adapted and warped to these prejudices. War was looked upon as a real and of justice, and force was thought to be an incontestable title over the weak, and a visible mark that God had intended them to be subject to the firong. They had no doubt but that the intentions of the Deity had been to elfablish the same dependence among men that takes place among inferior creatures; and, fetting out from this principle of the natural inequality among men, they had from thence inferred that the weak had no right

Scandina- to what they could not defend. This maxim was adopted with fuch rigonr, that the name of divine judgement was given not only to the judicatory combat, but to conflicts and battles of all forts; victory being, in their opinion, the only certain mark by which providence enables us to diftinguish those whom it has appointed to command others .- Laftly, Their religion, by annexing eternal happiness to the military virtues, gave the utmost possible degree of vigour to that propensity which these people had for war, and to their contempt of death, of which we thall now give fome instances. We are informed that Harold, furnamed Blaatand, or Blue-tooth, a king of Denmark, who lived in the beginning of the ninth century, had founded on the coalts of Pomerania a city named Julin or Jom/burg. To this place he fent a colony of young Danes, bestowing the government on a celebrated warrior called Palnatoko. In this colony it was forbidden to mention the word fear, even in the most imminent dangers. No citizen of Jomiburg was to yield to any number of enemies however great. The fight of inevitable death was not to be taken as an excuse for showing the smallest apprehension. And this legislator really appears to have eradicated from the minds of most of the youths bred up under him, all traces of that fentiment fo natural and fo univerfal, which makes men think on their destruction with horror. Nothing can show this better than a fingle fact in their history, which deferves to have place here for its fingularity. Some of them having made an irruption into the territories of a powerful Norwegian lord, named Haquin, were overcome in fpite of the obitinacy of their refiltance; and the most diftinguished among them being made prisoners, were, according to the cultom of those times, condemned to death. The news of this, far from afflicting them, was on the contrary received with joy. The first who was led to punishment was content to say, without changing countenance, and without expressing the least fign of fear, " Why should not the same happen to me as did to my father? He died, and so must I." A warrior, named Thorchill, who was to cut off the head of the fecond, having asked him what he felt at the fight of death, he answered, " that he remembered too well the laws of Jomiburg to utter any words that denoted fear." The third, in reply to the same question, said, " he rejoiced to die with glory; and that he preferred fuch a death to an infamous life like that of Thorchill's." The fourth made an answer much longer and more extraordinary. " I fuffer with a good heart; and the present hour is to me very agreeable. I only beg of you (added he, addressing himself to Thorehill) to be very quick in cutting off my head; for it is a queltion often debated by us at Jomsburg, whether one retains any fenfe after being beheaded. I will therefore grasp this knife in my hand; if, after my head is cut off, I strike it towards you, it will show I have not lost all fenfe; if I let it drop, it will be a proof of the contrary. Make hafte therefore, and decide the dispute." Thorchill, adds the historian, cut off his head in a most expeditious manner; but the knife, as might be expected, dropt from his hand. The fifth showed the fame tranquillity, and died rallying and icering his enemies. The fixth begged of Thorchill, that he might not be led to punishment like a sheep; " Strike the blow in my face (faid he), I will fit still without

thrinking; and take notice whether I once wink my Scandingeyes, or betray one fign of fear in my countenance; for we inhabitants of Jomfburg are used to exercise our- Scantling, selves in trials of this fort, to as to meet the stroke of death without once moving." He kept his promife before all the spectators, and received the blow without betraying the least fign of fear, or fo much as winking with his eyes. The feventh, fays the historian, was a very beautiful young man, in the flower of his age. His long hair, as fine as filk, floated in curls and ring-lets on his thoulders. Thorchill asked him, what he thought of death? " I receive it willingly (faid he), fince I have fulfilled the greatest duty of life, and have feen all those put to death whom I would not survive. I only beg of you one favour, not to let my hair be touched by a flave, or stained with my blood."

Neither was this intrepidity peculiar to the inhabitants of Jomiburg; it was the general character of all the Scandinavians, of which we shall only give this further instance. A warrior, having been thrown upon his back in wreftling with his enemy, and the latter finding himself without his a:ms, the vanquithed perfon promifed to wait, without changing his posture, till his antagonist fetched a sword to kill him; and he faithfully kept his word .- To die with his arms in his hand was the ardent wish of every free man; and the pleasing idea which they had of this kind of death led them to dread fuch as proceeded from old age and difeafe. The billory of ancient Scandinavia is full of instances of this way of thinking. The warriors who found themselves lingering in disease, often availed themselves of their sew remaining moments to shake off life, by a way that they supposed to be more glorious. Some of them would be carried into a field of battle, that they might die in the engagement. Others flew themselves: many procured this melancholy fervice to be performed by their friends, who confidered it as a most facred duty. "There is, on a mountain of Iceland, (lays the author of an old Iceland romance), a rock fo high, that no animal can fall from the top and live. Here men betake themselves when they are afflicted and unhappy. From this place all our anceilors, even without waiting for fickness, have departed into Eden. It is useless, therefore, to give ourselves up to groans and complaints, or to put our relations to needless expences, fince we can eafily follow the example of our fathers, who have all gone by the way of this rock."-When all these methods failed, and at last when Christianity had banished such barbarous practices. the disconsolate heroes consoled themselves by putting on complete armour as foun as they found their end approaching.

SCANDIX, SHEPHERD'S NEEDLE, or Venus Comb. a genus of plants, belonging to the pentandria class; and in the natural method ranking under the 45th order, Umbellatæ. See BOTANY Index.

SCANNING, in Paetry, the measuring of verse by feet, in order to fee whether or not the quantities be duly observed. The term is chiefly used in Greck and Latin verses. Thus an hexameter verse is scanned by refolving it into fix feet; a pentameter, by refolving it into five feet, &c.

SCANTLING, a measure, fize, or standard, by which the dimersions, &c. of things are to be determined. The term is particularly applied to the dimenfions

Scarbo-

Sicilies.

Scanto fions of any piece of timber, with regard to its breadth and thickness.

SCANTO, or SPAVENTO, a fudden impression of horror upon the mind and body. It is extremely dreaded by the inhabitants of Sicily; and the wild Travels in ideas of the vulgar part of the inhabitants respecting it are almost incredible, and their dread of a sudden shock is no less surpriting. There is scarce a symptom, disorder, or accident, they do not think may befal the human frame in confequence of the fcanto. They are perfuaded that a man who has been frightened only by a dog, a viper, scorpion, or any other creature, which he has an antipathy to, will foon be feized with the fame pains he would really feel, had he been torn with their teeth, or wounded with their venomous fling; and that nothing can remove these nervous imaginary pangs but a strong dose of dilena, a species of cantharides found in Sicily.

SCAPE-GOAT, in the Jewish antiquities, the goat which was fet at liberty on the day of folemn expiation. For the ceremonies on this occasion, see Levit. xvi,

5, 6, &c.

Some fav. that a piece of fearlet cloth, in form of a tongue, was tied on the forehead of the scape-goat.

Hoff. Lex. Univ. in voc. Lingua.

Many have been the disputes among the interpreters concerning the meaning of the word fcape-goat; or rather of azazel, for which fcape-goat is put in our version

Spencer is of opinion, that azazel is a proper name, fignifying the devil or evil diemon. See his reasons in his book De leg. Hebr. ritual. Differt. viii. Among other things, he observes, that the ancient Jews used to Substitute the name Samael for Azazel; and many of them have ventured to affirm, that at the feast of expiation they were obliged to offer a gift to Samael to obtain his favour. Thus also the goat, fent into the wilderness to Azazel, was understood to be a gift or oblation. Some Christians have been of the same opinion. But Spencer thinks that the genuine reasons of the ceremony were, 1. That the goat, loaded with the fins of the people, and fent to Azazel, might be a symbolical representation of the miserable condition of finners. 2. God fent the goat thus loaded to the evil dæmons, to flow that they were impure, thereby to deter the people from any conversation or familiarity with them. 3. That the goat fent to Azazel, fufficiently expiating all evils, the Ifraelites might the more willingly abstain from the expiatory facrifices of the Gentiles.

SCAPEMENT, in clock-work, a general term for the manner of communicating the impulse of the wheels to the pendulum. The ordinary scapements confist of the fwing-wheel and pallets only; but modern improvements have added other levers or detents, chiefly for the purposes of diminishing friction, or for detaching the pendulum from the pressure of the wheels during part of the time of its vibration. See WATCH-Work.

SCAPULA, in Anatomy, the shoulder, or shoulderbonc.

· Scapula, John, the reputed author of a Greek levicon, fludied at Laufanne. His name is recorded in the annals of literature, neither on account of his talents nor learning, nor virtuous industry, but for a gross act of difingenuity and fraud which he committed against an eminent literary character of the 16th century. Being Scapula employed by Henry Stephens as a corrector to his preis while he was publishing his Thefaurus linguæ Græcæ, Scapula extracted those words and explications which he reckoned most useful, comprised them in one volume, and published them as an original work, with his own

The compilation and printing of the Thefaurus had cost Stephens immense labour and expence; but it was fo much admired by those learned men to whom he had shown it, and seemed to be of such essential importance to the acquisition of the Greek language, that he reafonably hoped his labour would be crowned with honour, and the money he had expended would be repaid by a rapid and extensive fale. But before his work came abroad, Scapula's abridgement appeared; which, from its fize and price, was quickly purchased, while the Thesaurus itself lay neglected in the author's hands. The consequence was, a bankruptcy on the part of Ste-phens, while he who had occasioned it was enjoying the fruits of his treachery. Scapula's Lexicon was first printed in 1570, in 4to. It was afterwards enlarged, and published in folio. It has gone through feveral editions, while the valuable work of Stephens has never been reprinted. Its fuccess is, however, not owing to its superior merit, but to its price and more commodious fize. Stephens charges the author with omitting a great many important articles. He accuses him of misunderstanding and perverting his meaning; and of tracing out abfurd and trifling etymologies, which he himfelf had been careful to avoid. He composed the following epigram on Scapula:

Quidam smireprov me capulo tenus abdidit ensem Æger cram à Scapulis, sanus et huc redeo.

Doctor Busby, so much celebrated for his knowledge of the Greek language, and his fuccess in teaching it. would never permit his scholars at Westminster school. to make use of Scapula.

SCAPULAR, in Anatomy, the name of two pair. of arteries, and as many veins.

SCAPULAR, or Scapulary, a part of the habit of feveral religious orders in the church of Rome, worn over the gown as a badge of peculiar veneration for the Bleffed Virgin. It confifts of two narrow flips or breadths of cloth covering the back and the breaft, and hanging down to the feet .- The devotees of the scapulary celebrate its festival on the 10th of July.

SCARABÆUS, the BEETLE, a genus of infects of the coleoptera order. See Entomology Index.

SCARBOROUGH, a town of the north riding of Yorkshire, feated on a steep rock, near which are fuch craggy cliffs that it is almost inaccessible on every fide. On the top of this rock is a large green plain, with two wells of fresh water springing out of the rock. It is greatly frequented on account of its mineral waters called the Scarborough-Spa; on which account it is much improved in the number and beauty of the buildings. The fpring was under the cliff, part of which fell down in 1737, and the water was loft; but in clearing, away the ruins in order to rebuild the wharf, it was recovered, to the great joy of the town. The waters of, Scarborough are chalybeate and purging. The two wells are both impregnated with the same principles, in different proportions; though the purging well is the

matia.

most celebrated, and the water of this is usually called rough, the Scarborough water. When these waters are poured out of one glass into another, they throw up a number of air bubbles; and if they are shaken for some time in a phial close flopped, and the phial be fuddenly opened before the commotion ceases, they displode an elastic vapour, with an audible noise, which shows that they abound in fixed air. At the fountain they have a brifk, pungent chalybeate tafte; but the purging water taftes bitterifh, which is not usually the case with the chalybeate one. They lofe their chalybeate virtues by expofure and by keeping; but the purging water the foonest. They both putrefy by keeping; but in time recover their sweetness. Four or five half pints of the purging water drank within an hour, give two or three caly motions, and raife the fpirits. The like quantity of the chalvheate purges lefs, but exhilerates more, and paffes off chiefly by urine. These waters have been tound beneficial in hectic fevers, weaknesses of the stcmach, and indigeftion; in relaxations of the fyslem; in nervous, hysteric, and hypochondriacal disorders; in the green fickness, feurvy, rheumatifin, and aillematic complaints; in gleets, the fluor albus, and other preternatural evacuations; and in habitual coffiveness. Here are affemblies and balls in the same manner as at Tunbridge. It is a place of some trade, has a very good harbour, and fends two members to parliament. E. Long. 51, 18, N. Lat. 0. 3.

SCARDONA, a fea port town of Dalmatia, feated on the eaftern banks of the river Cherca, with a bishop's fee. It has been taken and retaken feveral times by the Turks and Venetians; and these last ruined the fortifications and its principal buildings in 1537; but they have

been fince put in a flate of defence. " No veftiges (fays Fortis) now remain visible of that ancient city, where the flates of Liburnia held their affembly in the times of the Romans. I however tranferibed thefe two beautiful inferiptions, which were difcovered fome years ago, and are preferved in the house of the reverend canon Mercati. It is to be hoped, that, as the population of Scardona continues increafing, new lands will be broken up, and confequently more frequent discoveries made of the precious monuments of antiquity. And it is to be wished, that the few men of letters, who have a share in the regulation of this reviving city, may bestow some particular attention on that article, so that the honourable memorials of their ancient and illustrious country, which once held so eminent a rank among the Liburnian cities, may not be loft, nor carried away. It is almost a shame, that orly fix legible infcriptions actually exist at Scardona; and that all the others, fince many more certainly must have been dug up there, are either miferally broken, or loft, or transported to Italy, where they lofe the greatest part of their merit. Roman coins are very frequentty found about Scardona, and feveral valuable ones were shown to me by that hospitable prelate Monsignor Trevitani, bishop and father of the rifing fettlement. One of the principal gentlemen of the place was fo kind as to give me feveral sepulchral lamps, which are marked by the name of Fortis, and by the elegant form of the letters appear to be of the hoft times. The repeated devaffations to wich Scardona has been exposed, have left it no traces of grandeur. It is now, however, beginning to rife again, and many merchants of Servia

and Bohia have fettled there, on account of the con- Scarificavenient lituation for trade with the upper previnces of Turkey. But the ciy has no fortifications, notwithflanding the affertion of P. Farlati to the contrary." Sano

E. Long. 17. 25. N. Lat. 43 55. SCARIFICATION, in Surgery, the operation of making feveral incifions in the fkin by means of lances or other inflruments, particularly the cupping inflrument. See SURGERY.

SCARLET, a beautiful bright red colour. See DYE-

ING Index.

In painting in water-colours, minium mixed with a little vermilion produces a good fearlet : but if a flower in a print is to be painted a fearlet colour, the lights as well as the flades should be covered with minium, and the shaded rarts finished with carmine, which will produce an admirable fearlet.

SCARLET Fover. See MEDICINE Index.

SCARP, in Fortification, is the interior talus or flope of the ditch next the place, at the foot of the ram-

SCARP, in Heraldry, the fearf which military commanders wear for ornament. It is borne fomewhat like a battoon finister, but is broader than it, and is continued out to the edges of the field, whereas the battoon is cut off at each end.

SCARPANTO, an island of the Archivelago, and one of the Sporades, lying to the fouth-west of the isle of Rhodes, and to the north-east of that of Candia. It is about 22 miles in length and 8 in breadth; and there are feveral high mountains. It abounds in cattle and game; and there are mines of iron, quarries of marble, with feveral good harbours. The Turks are mafters of it, but the inhabitants are Greeks.

SCARPE, a river of the Netherlands, which has its fource near Auligny in Artois, where it washes Arras and Douay; after which it runs on the confines of Flanders and Hainault, passing by St Amand, and a

little after falls into the Scheldt.

SCARRON, PAUL, a famous builefque writer, was the fon of a counfellor in parliament, and was born at Paris about the end of the year 1610, or in the beginning of the fucceeding year. His father marrying a fecond time, he was compelled to affume the ecclefiaffical profession. At the age of 24 he visited Italy, where he freely indulged in licentious pleafures. After his return to Paris he perfifted in a life of diffipation till a long and painful difease convinced him that his conflitution was almost worn out. At length when engaged in a party of pleasure at the age of 27, he lost the use of those legs which danced so gracefully, and of these hands which could paint and play on the lute with fo much elegance. In the year 1638 he was attending the carnival at Mons, of which he was a canon. Having dreffed himfelf one day as a favage, his fingular appearance excited the curiofity of the children of the town; They followed him in multitudes, and he was obliged to take shelter in a marsh This wet and cold situation produced a numbness which totally deprived him of the ule of his limbs; but notwithstanding this misfortune he continued gay and cheerful. He took up his refidence at Paris, and by his pleasant humour soon attracted to his house all the men of wit about the city. The loss of his health was followed by the lofs of his fortune. On the death of his father he entered into a process

Scarron, with his mother in-law. He pleaded the cause in a ludicrous manner, though his whole fortune depended on the decition. He accordingly loft the cause. Mademoifelle de Hautefort, compassionating his misfortunes, procured for him an audience of the oueen. The poet requested to have the title of Valetudinarian to her majetly. The queen failed, and Scarron confidered the fmile as the committion to his new office. He therefore assumed the title of Scarron, by the grace of God, unworthy valetudinarian to the queen.

Cardinal Mazarine gave him a pension of 100 crowns: but that minister having received didainfully the deslication of his Typhon, the poet immediately wrote a Mazarinade, and the pension was withdrawn. He then attached himself to the prince of Condé, and celebrated his victories. He at length formed the extraordinary refolution of marrying, and was accordingly, in 1651, married to Mademoifelle d'Aubigné (afterwards the famous Madame de Maintenon), who was then only 16 years of age. " At that time (fays Voltaire) it was confidered as a great acquifition for her to gain for a husband a man who was disfigured by nature, impotent, and very little enriched by fortune." When Scarron was que tioned about the contract of marriage, he faid he acknowledged to the bride two large invincible eyes, a very beautiful fliape, two fine hands, and a large portion of wit. The notary demanded what dowry he would give her? Immediately replied Scarron, " The names of the wives of kings die with them, but the name of Scarron's wife shall live for ever." She restrained by her modesty his indecent buffooneries. and the good company which had formerly reforted to his house were not less frequent in their visits. Scarron now became a new man. He became more decent in his manners and converfation: and his gaie'y, when tempered with moderation, was fill more agreeable, But, in the mean time, he lived with fo little economy, that his income was foon reduced to a fmill annuity and his marquifate of Oninet. By the marquifate of Quinct, he meant the revenue he derived from his publications, which were printed by one Quinet. He was accustomed to talk to his superiors with great freedom in his jocular flyle. In the dedication to his Don Japhet d'Armenie, he t'us addresses the king. " I shall endeavour to perfuade your majesty, that you would do yourfelf no injury were you to do me a fmall favour; for in that case I should become more gay: if I should become more gay, I should write sprightly comedies: and if I should write sprightly comedies, your majesty would be amu'ed, and thus your money would not be Ioit. All this appears to evident, that I fhould certainly be convinced of it if I were as great a king as I am now a poor unfortunate man."

Though Sc rron wrote comedies, he had neither time nor patience to fludy the rules and models of dramatic poetry. Aritlotle and Horace, Plantus and Terenec. would have frightened him; and perhaps he did not know that there was ever furh a person as Aristophanes. If faw an open path before him, and he followed it. It was the fashion of the times to pillage the Spanish writers. Sorrow was acquainted with that language, and he found it easier to use the materials which were already prepared, than to rack his brain in inventing a fubiret; a restraint to which a genius like his could not easily submit. As he borrowed liberally

from the Spaniin writers, a dramatic piece did not coft Scarren him much labour. His labour confided not in making his comie characters talk humoroully, but in keeping up ferious characters; for the serious was a foreign language to him. The great fuccels of his Jodelet Maitre was a valt allurement to him. The comedians who acted it eagerly requelled more of his productions. They were written without much toil, and they procured him large fums. They ferved to amufe him. If it be necellary to give more realons for Scarron's readiness to engage in thele works, abundance may be had. He dedicated his books to his fitter's greviound bitch; and when the failed him, he dedicated them to a certain Monfeigneur, whom he praifed higher, but did not much etteem. When the office of hilloriographer became vacant, he folicited for it without fuccefs. At length Fouquet gave him a penfin of 1600 livres. Chridina queen of Sweden having come to Paus, was anxious to fee Scarron. " I permit you (faid the to Scarron) to fail in ove with me. The queen of France has made you her valetudinarian, and I create you my Roland." Scarron did not long enjoy that title: he was feized with fo violent a hiecough, that every perfor thought he would have expired. "If I recover (he faid). I will make a fine latine on the hiccouch." His gaiety did not fortake him to the laft. Within a tew minutes of his death, when his domeffics were fliedding tears about him, " My good friends (favs he), I thall never make you weep to much for me as I have made you laugh," Just before exciring, he faid, "I could never believe before that it is to eafy to laugh at death," He died on the 14 h of October 1660, in the 51tl year of his age.

His works have been collected and published by Bruzen de la Martiniere, in 10 vols 12mo, 1737. l'here are, 1. The Eneid traveffied, in 8 books. It was afterwards continued by Moreau de Brafey. 2. Typhon, or the Gigantomachin. 3. Many comedies; a, Jodelet, or the Maller Valet; Jodelet cuffed; Don Japhet d'Armenie; The Rusculous Heir; Every Man his own Guardian; The Fool th Marquis; The Scholar of Salamanca; The Falle Appearance; The Prince Corfgire, a tragi-comedy. Befides thefe, He wrote other pieces in verse. 4. His Comic Romance in profe, which is the only one of his works that deferves attention. It is written with much purity and gaiety, and has contributed not a little to the improvement of the French language. Scarron had great pleasure in reading his works to his friends as he compoted them: he called it tiving his works. Segrais and another of his friends coming to him one day, " Take a chair (fays Scarron to them) and fit down, that I may examine my Comic Romance." When he observed the company laugh, " Very well (faid he), my book will be well to fired fince it makes perfors of such delicate taste lau h." Nor was he dethe only one of his works that Borleau could fi bmit to read. 5. Spanish Navels translated into French 6. A volume of Letters. 7. Poems; confiding of Songs, Epiffles, Stanzas, Oler, and lop grams. The whole colcan raise a 1 ugh in the most firious subjects; but his fallies are rath r those of a buffson than the effutions of ingenuity and taffe. He is continually falling into the mean and the obfcene. If we should make any exception in favour of fome of his comedies, of fome paffages in his Eneid traveflied, and his Comic Romance, we must acknowledge that all the rest of his works are only fit to be read by footmen and bussions. It has been faid that he was the most eminent man in his age for burlefue. This might make him an agreeable companion to those who choose to laugh away their time; but as he has lest nothing that can instruct posterity, he has but little tille to posthumous fame.

SCENE, in its primary fenfe, denoted a theatre, or the place where dramatic pieces and other public flows were exhibited; for it does not appear that the ancient poets were at all acquainted with the modern way of changing the feenes in the different parts of the play, in order to raife the idea of the perfons reprefented by the

actors being in different places.

The original scene for acting of plays was as simple as the representations themselves: it consisted only of a plain plot of ground proper for the occasion, which was in some degree shaded by the neighbouring trees, whose branches were made to meet together, and their vacancies supplied with boards, sticks, and the like; and to complete the shelter, these were sometimes covered with fkins, and fometimes with only the branches of other trees newly cut down, and full of leaves. Afterwards more artificial fcenes, or fcenical reprefentations, were introduced, and paintings used instead of the objects themselves. Scenes were then of three forts; tragic, comic, and fatiric. The tragic scene represented stately magnificent edifices, with decorations of pillars, flatues, and other things fuitable to the palaces of kings: the comic exhibited private houses with balconies and windows, in imitation of common buildings: and the fatiric was the representation of groves, mountains, dens, and other rural appearances; and these decorations either turned on pivots, or flid along grooves as those in our theatres.

To keep clofe to nature and probability, the feene should never be shifted from place to place in the course of the play: the ancients were pretty severe in this respect, particularly Terence, in some of whose plays the scene never shifts at all, but the whole is transacted at the door of some old man's house, whither with inimitable art he occasionally brings the actors. The French are pretty strict with respect to this rule; but the Engage.

lish pay very little regard to it.

Seene is also a part or division of a dramatic poem. Thus plays are divided into acts, and acts are again subdivided into feenes; in which sense the series properly the persons present at or concerned in the action on the flage at such a time: whenever, therefore, a new actor appears, or an old one disappears, the action is changed into other hands; and therefore a new scene then commences.

It is one of the laws of the flage, that the scenes be well connected; that is, that one succeed another in such a manner as that the stage be never quite empty till the

end of the act. See POETRY.

SCENOGRAPHY, (from the Greek, roun feere, and years defeription), in perfective, a reprefentation of a body on a perfective plane; or a defeription thereof in all fits dimensions, such as it appears to the eye. See PERSPECTURE

SCEPTIC, συηπτίκος, from συέπτομαι, "I confider, look about, or deliterate," properly fignifies confidera-

tive and inquilitive, or one who is always weighing reasons on one fide and the other, without ever deciding between them. It is chiefly applied to an ancient feet of philosophers founded by Pyrrho (fee Pyrrho), who, according to Laertius, had various other denominations. From their meiter they were called Pyrrhonians; from the diffinguithing teness or charafteritie of their philosophy they derived the name of Aporetici, from aragun, "to doubt?" from their fulpension and hefitation they were called ophetici, from aragun, "to flay or keep back:" and lattly, they were called zetetici or feekers, from their never getting beyond the fearch of truth.

That the sceptical philosophy is absurd, can admit of no dispute in the present age; and that many of the followers of Pyrrho carried it to the most ridiculous height, is no less true. But we cannot believe that he himself was fo extravagantly fceptical as has fometimes been afferted, when we reflect on the particulars of his life, which are still preserved, and the respectful manner in which we find him mentioned by his contemporaries and writers of the first name who flourished soon after him. The truth, as far as at this distance of time it can be discovered, seems to be, that he learned from Democritus to deny the real existence of all qualities in bodies, except those which are effential to primary atoms, and that he referred every thing elfe to the perceptions of the mind produced by external objects, in other words, to appearance and opinion. All knowledge of courfe appeared to him to depend on the fallacious report of the fenfes, and confequently to be uncertain; and in this notion he was confirmed by the general spirit of the Eleatic school in which he was educated. He was further confirmed in his fcepticifm by the fubtilties of the Dialectic schools, in which he had been instructed by the fon of Stilpo; choosing to overturn the cavils of fophistry by recurring to the doctrine of universal uncertainty, and thus breaking the knot which he could not unloose. For being naturally and habitually inclined to confider immoveable tranquillity as the great end of all philosophy, he was easily led to despise the diffensions of the dogmatists, and to infer from their endless disputes, the uncertainty of the questions on which they debated; controverfy, as it has often happened to others, becoming also with respect to him the parent of fcepticism.

Pyrrho's doctrines, however new and extraordinary, were not totally difregarded. He was attended by feveral fcholars, and fucceeded by feveral followers, who preserved the memory of his notions. The most eminent of his followers was Timon (fee Timon), in whom the public fuccession of professors in the Pyrrhonic school terminated. In the time of Cicero it was almost extinct, having suffered much from the jealousy of the dogmatitts, and from a natural aversion in the human mind to acknowledge total ignorance, or to be left in absolute darkness. The disciples of Timon, however, still continued to profess scepticism, and their notions were embraced privately at least by many others. The school itself was afterwards revived by Ptolæmeus a Cyrenian, and was continued by Ænesidemus a contemporary of Cicero, who wrote a treatife on the principles of the Pyrrhonic philosophy, the heads of which are preserved by Photius. From this time it was continued through a series of preceptors of little note to Sextus Empiricus, who also gave a summary of the sceptical doctrine.

A

Sceptic.

A fystem of philosophy thus founded on doubt, and clouded with uncertainty, could neither teach teness of any importance, nor presents a certain rule of conduct; and accordingly we find that the followers of sceptici in were guided entirely by chance. As they could form no certain judgement respecting good and evil, they accidentally learned the folly of on erly purching any apparent good, or of avoiding any apparent evil; and their minds of course settled into a state of undisturbed tranquillity, the grand postulatum of their fixtem.

In the schools of the sceptics we find ten dislinct topics of argument urged in support of the doctrine of uncertainty, with this precaution, however, that nothing could be positively afferted either concerning their number or their force. These arguments chiefly respect objects of sense: they place all knowledge in appearance; and, as the fame things appear very different to different people, it is impossible to fay which appearance most truly expresses their real nature. They likewife fay, that our judgement is liable to uncertainty from the circumstance of frequent or rare occurrence. and that mankind are continually led into different conceptions concerning the fame thing by means of cultom. law, fabulous tales, and established opinions. On all these accounts they think every human judgement is liable to uncertainty; and concerning any thing they can only aftert, that it feems to be, not that it is what it ferms.

This doubtful reasoning, if reasoning it may be called, the sceptics extended to all the sciences, in which they discovered nothing true, or which could be absolutely afferted. In all nature, in physics, morals, and theology, they found contradictory opinions, and inexplicable or incomprehenfille phenomena. In physics, the appearances they thought might be deceitful; and respecting the nature of God and the duties of morality, men were, in their opinion, equally ignorant and uncertain. To overturn the for hiftical arguments of these sceptical reasoners would be no difficult matter. if their reasoning were worthy of confutation. Indeed, their great principle is fufficiently, though thortly refuted by Plato, in these words. "When you say all things are incomprehensible (says he), do you comprehend or conceive that they are thus incomprehenfible, or do you not? If you do, then fomething is comprehenfible; if you do not, there is no reason we should believe you, fince you do not comprchend your own af-

But (cepticism has not been confined entirely to the ancients and to the followers of Pyrrho. Numerous to ptics have arilen also in modern times, varying in their principles, manners, and character, as chance, prejudice, vanity, weaknels, or indolence, prompted them. The great object, however, which they feem to have in view, is to overturn, or at leaft to weaken, the evidence of analogy, experience, and tellimony: though fome of them have even attempted to show, that the axioms of geometry are uncertain, and its demonstrations incoachifive. This lad attempt has not indeed been often made; but the chief aim of Mr Hume's philosophi al writings is to introduce doals into every branch of philifer, metophylifer, history, ethics, and the needlest to give a specimen of his realoning in from the discount of modern (cepticitin). The medicin formatt of them have Vot. XVIII. P.E. III.

been neticed ellewhere (fie MIRACLE, MELANT-SEED STORM AND ALL); and fuch of our readers as have any relifit for speculi tions of that nature can be no litrated as the same of them by the Dectors Read, Cam bed, Greecry, and Bestile, who have likewise exposed the weeker is of the sequence of the securings of Des Cartes, Malbrache, and other philosophers of great same in the same school.

SCEPTICISM, the doctrines and opinions of the

fceptics. See the preceding article.

SCEPTRE, a kind of royal staff, or batoon, b rne on folemn occasions by kings, as a bad e of their command and authority. Nicod derives the word rotte the Greek ounwiger, which he fays originally fignified " a javelin," which the ancient kings usually bore as a badge of their authority; that instrument being in very great veneration among the heathens. But ownareov does not properly fignify a javelin, but a flaff to reft up-on, from our la, innior, "I lean upon." Accordingly, in the simplicity of the earlier ages of the world, the sceptres of kings were no other than long walking-staves: and Ovid, in speaking of Jupiter, describes him as resting on his sceptre (Met. i. ver. 178.) The sceptre is an The Greek tragic and other poets put sceptres in the hands of the most ancient kings they ever introduce. Jutlin observes, that the sceptre, in its original, was a hafla, or fpear. He adds, that, in the most remote antiquity, men adored the hafter or fceptres as immortal gods; and that it was upon this account, that, even in his time, they still furnished the gods with sceptres .-Neptune's sceptre is his trident. Tarquin the Elder was the first who assumed the sceptre among the Remans. Le Gendre tells us, that, in the full race of the French the same height with the king who bore it, and crooked at one end like a crozier. Frequently inflead of a sceptre, kings are feen on medals with a palm in their hand. See REGALIA

SCHÆFFERA, a genus of plants belonging to the directa class; and in the natural method ranking with those that are doubtful. See BOTANY Index.

SCHAFFHAUSEN, the smallest canton of Switzerland, bounded on the north and west by Suabia, on the east by the canton of Zurich and the bishopric of Constance, and on the fouth by the same and Thurgau. It is about 15 miles long and o broad, and its population amounts to about 30,000. Its revenues are not extensive, as one proof of which the burgomaster or chief has not more than 150l. a year. The reformation was introduced before the middle of the 16th century. The clergy are paid by the flate, the hi heft incomes not exceeding 1001., and the lowest 401. annually. Sumptuary laws are in force, as well as in most other parts of particular occasions. Wine is their chief article of commerce, which they exchange with Suabia for corn, as this canton produces very little of that necessary article.

SCHAFFII VUSEN, a town of Switzerland, the metroj \*\*, of a canton of the fame n.me. It is feated on the thins, a dowes its origin to the interruption of the ravigation of that river by the cataract at Lauffer. It was at one cried in imperial town, and admitted a management of the ravigation of the r

Schaffhau member of the Helvetic confederacy in 1501; and its Sche territory forms the 12th canton in point of rank. The inh bitants of this town are computed at 6000, but the number of citizens or burgeffes is about 1600. From thefe were elected 85 members, who formed the great and little council; the fenate, or little council of 25, being entrufted with the executive power; and the great council finally deciding all appeals, and regulating the more important concerns of government. Though a frontier town, it has no garrison, and the fortifications are week; but it once had a famous wooden bridge over the Rhine, the work of one Ulric Grubenman, a carpenter. The fides and top of it were covered; and it was a kind of hanging bridge; the road was nearly level, and not carried as utual, over the top of the arch, but let into the middle of it, and there suspended. This curious bridge was burnt by the French, when they evacuated Schaffhausen, after being defeated by the Austrians, April 13. 1709. Schaffhausen is 22 nie Austrans, April 13, 1799. Schaffhaufen is 22 miles north by eaft of Zurich, and 39 eaft of Bafil. Long, 3°, 41' E. Lat. 47°, 39' N.
SCHALBEA, a genus of plants belonging to the didynamia class. See BOTANY Index.
SCHEDULE, a feroll of paper or parchment, annexed to a will leafe as the June 19.

S C H

nexed to a will, leafe, or other deed; containing an inventory of goods, or fome other matter omitted in the body of the deed .- The word is a diminutive of the Latin Scheda, or Greek ozion, a leaf or piece of

SCHEELE, CHARLES WILLIAM, was born on the 19th of December 1742, at Stralfund, where his father kept a fliop. When he was very young, he received the usual instructions of a private school; and was afterwards advanced to an academy. At a very early age he shewed a strong desire to follow the profestion of an apothecary, and his father suffered him to gratify his inclinations. With Mr Bauch, an apothecary at Gottenburg, he passed his apprenticeship, which was completed in fix years. He remained, however, fome time longer at that place, and it was there that he fo excellently laid the first foundations of his knowledge. Among the various books which he read, that treated of chemical fubjects, Kunckel's Laboratory feems to have been his favourite. He used to repeat many of the experiments contained in that work privately in the night, when the rest of the family had retired to rest. A friend of Scheele's had remarked the progress which he had made in chemistry, and had asked him by what inducements he had been at first led to study a science in which he had gained fuch knowledge? Scheele returned the following answer: " The first cause, my friend, arose from yourself. Nearly at the beginning of my apprenticeship you advised me to read Neuman's Chemistry; from the perusal of which I became eager to make experiments myfelf; and I remember very well how I mixed together, in a conferve glass, oil of cloves and furning acid of nitre, which immediately took fire. I fee also still before my eyes an unlucky experiment which I made with pyrophorus. Circumflances of this kind did but the more inflame my defire to repeat experiments." After Scheele's departure

from Gottenburg, in the year 1765, he obtained a place Scheele. with Kalstrom, an apothecary at Malmo. Two years afterwards he went from thence to Stockholm, and managed the thop of Mr Scharenberg. In 1773, he changed this appointment for another at Upfal, under Mr Loock. Here he was fortunately fituated : as, from his acquaintance with learned men, and from having free access to the university laboratory, he had opportunities of increasing his knowledge. At this place also he happily commenced the friendship which subsisted between him and Bergman. During his residence at this place, his Royal Highness Prince Henry of Prussia, accompanied by the Duke of Sudermania, visited Upsal, and chose this opportunity to fee the academical laboratory. Scheele was accordingly appointed by the university to exhibit some chemical experiments to them. This office he under-took, and shewed some of the most curious processes in chemistry. The two princes asked him many questions, and expressed their approbation of the answers which he returned to them. The duke asked him what countryman he was, and feemed to be much pleafed when Scheele informed him that he was born at Stralfund. At their departure they told the profeffor, who was prefent, that they should esteem it a favour if he would permit the young man to have free access to the laboratory, as often as he chose, to make experiments.

In the year 1777 Scheele was appointed by the Medical College to be apothecary at Koping. It was at that place that he foon shewed the world how great a man he was, and that no place or fituation could confine his abilities. When he was at Stockholm he shewed his acuteness as a chemist, as he discovered there the new and wonderful acid contained in the fluor spar. It has been confidently afferted, that Scheele was the first who discovered the nature of the aerial acid; and that whilst he was at Upfal he made many experiments to prove its properties. This circumstance might probably have furnished Bergman with the means of treating this subject more fully. At the same place he began the series of excellent experiments on that remarkable mineral fubstance, manganese; from which investigation he was led to make the very valuable and interesting discovery of exymuriatic acid At the same time he examined the

properties of ponderous earth.

At Koping he finished his differtation on Air and Fire; a work which the celebrated Bergman most warmly recommended in the friendly preface which he wrote for it. The theory which Scheele endeavours to prove in this treatife is, that fire confifts of pure air and phlogiston. According to more recent opinions (if inflammable air be phlogiston), water is composed of these two principles. Of these opinions we may say, in the words of Cicero, "Opiniones tam variae funt tamque inter se dissidentes ut alterum profecto fieri potest, ut earuna nulla, alterum certe, non potest ut plus una, vera sit." The author's merit in this work, exclusive of the encomiums of Bergman, was sufficient to obtain the approbation of the public; as the ingenuity displayed in treating fo delicate a fubject, and the many new and valuable obfervations (A) which are dispersed through the treatise, justly

Scheele, justly cutitled the author to that fame which his book procured him. It was spread abroad through every country, became foon out of print, was reprinted, and translated into many languages. The English translation is en-

riched with the notes of that accurate and truly philoso-

phic genius Richard Kirwan, Efq.

Scheele now diligently employed himself in contributing to the Transactions of the Academy at Stockholm. He first pointed out a new way to prepare the falt of benzoin. In the fame year he discovered that arsenic, freed in a particular manner from phlogitton, partakes of all the properties of an acid, and has its peculiar atlinities

to other fubilances.

In a Differtation on Flint, Clay, and Alum, he clearly overturned Beaume's opinion of the identity of the filiceous and argillaceous earths. He published an Analytis of the Human Calculus. He thewed also a mode of preparing mercurius dulcis in the humid way, and improved the process of making the powder of Algaroth. He analysed the mineral substance called melubdena, or flexible black lead. He discovered a beautiful green pigment. He shewed us how to decompose the air of the atmosphere. He discovered that fome neutral falts are decomposed by lime and iron. He decomposed plumbago, or the common black lead. He observed, with peculiar ingenuity, an acid in milk, which decomposes acetated alkali; and in his experiments on the fugar of milk, he discovered another acid, different in some respects from the above-mentioned acid and the common acid of fugar. He accomplished the decomposition of tungsten, the component parts of which were before unknown, and found in it a peculiar metallic acid united to lime. He published an excellent differtation on the different forts of ether. He found out an easy way to preferve vinegar for many years. His investigation of the colouring matter in Prussian blue, the means he employed to separate it, and his discovery that alkali, fal ammoniac, and charcoal, mixed together, will produce it, are strong marks of his penetration and genius. He found out a peculiar sweet matter in expressed oils, after they have been boiled with litharge and water. He shewed how the acid of lemons may be obtained in crystals. He found the white powder in rhubarb, which Model thought to be felenite, and which amounts to one feventh of the weight of the root, to be calcareous earth, united to the acid of forrel. This suggested to him the examination of the acid of forrel. He precipitated acetate of lead with it, and decomposed the precipitate thus obtained by the vitriolic acid, and by this process he obtained the common acid of fugar; and by flowly dropping a folution of fixed alkali into a folution of the acid of fugar, he regenerated the acid of forrel .- From his examination of the acids contained in fruits and berries, he found not one species of acid alone, viz. the acid of lemon, but another also, which he denominated the malaceous or malic acid, from its being found in the greatest Scheele. quantity in apples.

By the decomposition of Bergman's new metal (fiderite) he shewed the truth of Meyer's and Klaproth's conjecture concerning it. He boiled the calx of fiderite with alkali of tartar, and precipitated nitrate of mercury by the middle falt which he obtained by this operation; the calx of mercury which was precipitated was found to be united to the acid of pholphorus; fo that he demonstrates that this calx was phosphorated iron. He found also, that the native Prussian blue contained the fame acid. He discovered by the same means, that the perlate acid, as it was called, was not an acid fui generis, but the phosphoric united to a small quantity of the mineral alkali. He fuggefled an improvement in the process for obtaining magnesia from Epfom falt; he advifes the adding of an equal weight of common falt to the Erfom falt, fo that an equal weight of Glauber's falt may be obtained; but this will not lucceed unless in the cold of winter. These are the valuable difcoveries of this great philosopher, which are to found in the Transactions of the Royal Society at Stockholm. Most of his essays have been published in French by Madame Picardet, and Monf. Morveau of Dijon. Dr Beddoes also has made a very valuable prefent to his countrymen of an English translation of a greater part of Scheele's differtations, to which he has added fome useful and ingenious notes. The following discoveries of Scheele are not, we believe, published with the rest. He shewed what that substance is, which has been generally called ' the earth of the fluor spar." It is not produced unless the fluor acid meet with filiceous earth. It appears from Scheele's experiments to be a triple falt, confilling of flint, acid of fluor, and fixed alkali. Scheele proved also, that the fluor acid may be produced without any addition of the vitriolic or any mineral acid: the fluor is melted with fixed alkali, and the fluorated alkali is decomposed by acetated lead. If the precipitate be mixed with charcoal dust, and exposed in a retort to a strong heat, the lead will be revived, and the acid of fluor, which was united to it, will pass into the receiver possessed of all its usual properties. This feems to be an ingenious and unanswerable proof of its existence.

He observed, that no pyrophorus can be made unlefs an alkali be prefent; and the reason why it can be prepared from alum and coal is, that the common alum always contains a little alkali, which is added in order to make it crystallize; for if this be separated from it, no pyrophorus can be procured from it. His last differtation was his very valuable observations on the acid of the gall-nut. Ehrhart, one of Scheele's most intimate friends, afferts, that he was the discoverer of both of the acids of fugar and tartar. We are also indebted to him for that masterpiece of chemical decomposition, the feparation of the acid of phosphorus from bones. This ap-

pears

Turner, a gentlemen who happily unites the skill of the manufacturer with the knowledge of the philosophic chemist, has also the merit of this dicovery, as he observed the same sact, without having been indebted to Scheele's hint on the subject. Mr Turner has done more; he has converted this discovery to some use in the arts; he produces mineral alkali for fale, arifing from the decomposition; and from the lead which is united to the marine acid he forms the beautiful pigment called the patent yellow.

pears from a lotter which Scheele wrote to Gahn, who has generally had the reputation of this great discovery. This acid, which is fo curious in the eye of the chemist, begins to draw the attention of the physician. It was first used in medicine, united to the mineral alkali, by the ingenious Dr Pearson. The value of this addition to the materia medica cannot be better evinced than from the increase of the demand for it, and the quantity of it which is now prepared and fold in London.

We may stamp the character of Scheele as a philofopher from his many and important discoveries. What concerns him as a man we are informed of by his friends, who affirm, that his moral character was irreproachable, From his outward appearance, you would not at first fight have judged him to be a man of extraordinary bilities; but there was a quickness in his eye, which, to an accurate observer, would point out the penetration of his mind, He mixed but little with the crowd of common acquaintance; for this he had neither time nor inclination, as, when his profession permitted him, he was for the most part employed in his experimental inquiries. But he had a foul for friendship; nor could even his philosophical pursuits withhold him from truly enjoying the fociety of those whom he could esteem and love. Before he adopted any opinion, or a particular theory, he confidered it with the greatest attention; but when once his fentiments were fixed, he adhered to them, and defended them with resolution. Not but that he was ingenuous enough to fuffer himfelf to be convinced by weighty objections; as he has shewn that he was open to conviction.

His chemical apparatus was neither neat nor convenient; his laboratory was fmall and confined; nor was he particular in regard to the veffels which he employed in his experiments, as often the first phial which came to hand was placed in his fand-heat: fo that we may justly wonder how such discoveries, and such elesant experiments, could have been made under fuch unfavourable circumflances. He understood none of the that he had not the advantage of being benefited by the early is telligence of discoveries made by foreigners, but him in the flow and uncertain channel of translation. The important fervices which Scheele did to natural philofophy entitled him to universal reputation; and he obtained it: his name was well known by all Europe, and he was member of feveral learned academies and

It was often withed that he would quit his retirement a: Koping, and move in a larger fphere. It was fuggorted to nim, that a place might be procured in Eng land, which might afford him a good income and more leifure; and, indeed, latterly an offer was made to him of an annuity of 300l. if he would fettle in this country. But death, alas! put an end to this project. For half a year before this melancholy event, his health wouldn't recover. On the 19th of May 1786, he was confined to his bed; on the 21ft he bequeathed all of which he was post iff d to his wife who was the widow of his pred off r at Koping, and whom he had lately fophers, who were beloved and lamented by all their Schemer contemporaries, and whole memory polterity will never cease most gratefully to revere.

SCHEINER, CHRISTOPHER, a German mathematician, aftronomer, and Jefuit, eminent for being the first who discovered spots on the lun, was born at Schwaben in the territory of Middleheim in 1575. He first difcovered fpots on the fun's difk in 1611, and made obfervations on these phenomena at Rome, until at length reducing them to order, he published them in one vol. folio in 1630. He wrote alto tome fmaller things relating to mathematics and philosophy; and died in

SCHELD, a river which rifes on the confines of Picardy, and runs north-east by Cambray, Valenciennes, Tournay, Oudenarde, &cc. and receiving the Lis at Ghent, runs east by Dendermond, and then north to Antwerp: below which city it divides into two branches, one called the Wester-Scheld, which separates Flanders from Zealand, and discharges itself into the sea near Flushing; and the other called the Ofter Scheld, which runs by Bergen-op-zoom, and af erwards between the iflands Beveland and Schowen, and a little below falls

SCHEME, a draught or representation of any geometrical or allronomical figure, or problem, by linesfensible to the eye; or of the celestial bodies in their proper places for any moment; otherwife called a dia-

SCHEMNITZ, a town of Upper Hungary, with three cattles. It is famous for mines of filver and other metals, as also for hot baths. Near it is a rock of a shining blue colour mixed with green, and some spots of yellow. E. Long. 19. o. N. Lat. 48. 40.

SCHERARDIA, a genus of plants belonging to the

tetrandria class. See BOTANY Index. SCHETLAND. See SHETLAND.

SCHEUCHZERIA, a genus of plants belonging to the hexandria clais; and in the natural method ranking under the fifth order, Tripelatoideae. See BOTANY In-

SCHIECHS, or Schech, among the Arabs, is a name applied to their nobles. "Among the Bedouins," fays Niebuhr, " it belongs to every noble, whether of the highest or the lowest order. Their nobles are very numerous, and compose in a manner the whole nation; the plebeians are invariably actuated and guided by the fchiechs, who superintend and direct in every transaction. The schiechs, and their subjects, are born to the life of shepherds and soldiers. The greater tribes rear many camels, which they either fell to their neighbours, or employ them in the carriage of goods, or in military expeditions. The petty tribes keep flocks of sheep. Among those tribes which apply to agriculture, the schiechs live always in tents, and leave the culture of their grounds to their ful jects, whole dwellings are wretched huts. Schiechs always ride on horses or dromedaries, inspecting the conduct of their subjects, visiting their friends, or hunting. Traverfing the defert, where the horizon is wide as on the ocean, they perceive travellers at a diflance. As travellers are feldom to be met with in those wild tracts, they casily discover fuch as pass that way, and are tempted to pillage them when they find their own party the flrongell."

Scales class; and in the natural method ranking under the 43d order, Dum Ge. See BOTANY Index.

SCHIRAS, or SCHIRAUZ, a large and famous town of Persia, capital of Farsislan, is three miles in length from east to west, but not so much in breadth. It is feated at the north-west end of a spacious plain surrounded with very high hills, under one of which the town stands, The houses are built of bricks dried in the fun; the roofs are flat and terraced. There are 15 handsome mosques, tiled with stones of a bluith green colour, and lined within with black polithed marble. There are many large and beautiful gardens, furrounded with walls fourteen feet high, and four thick. They contain various kinds of very fine trees, with fruits almost of every kind, befides various beautiful flowers. The wines of Schiras are not only the best in Persia, but, as some think, in the whole world. The women are much addicted to gallantry, and Schiras is called an earthly paradile by fome. The ruins of the famous Perlepolis are 30 miles to the north-east of this place. E. Long. 56. 0. N. Lat. 29. 36.

SCHISM, (from the Greek, oxioux, clift, fiffure), in its general acceptation fignifies division, or feparation; but is chiefly used in speaking of separations happening from diverlity of opinions among people of the same re-

ligion and faith.

Thus we fay the felism of the ten tribes of Judah and Benjamin, the fchifm of the Perfians from the Turks and

other Mahometans, &c.

Among ecclefiaftical authors, the great schism of the West is that which happened in the times of Clement VII. and Urban VI. which divided the church for 40 or 50 years, and was at length ended by the election of Martin V. at the council of Constance

The Romanitts number 34 schisms in their church. -They bestow the name English schifm on the reformation of religion in this kingdom. Those of the church of England apply the term /chi/m to the separation of the nonconformilts, viz. the pretbyterians, independents, and anabaptifts, for a further reformation

SCHISTUS, in Mineralogy, a name given to several kinds of stones, as argillaceous, filiceous, bituminous,

fchittus, &c. See MINERALOGY Index. SCHMIEDELIA, a genus of plants belonging to

SCHOENOBATES, (from the Greek, oxonos, a rope; and \$z.vo, I wale, a name which the Greeks gave to their rope-dancers : by the Romans called funambuli. See ROPE-DANCER and FUNAMBULUS.

The fchænobates were flaves whole matters made money of them, by entertaining the people with their feats of activity. Mercurialis de arte gymnassica, lib. iii. gives us five figures of fchanobates engraven after ancient

triandria class; and in the natural method ranking un-

poll d to postine d'aning, which i f an id on the atthe rity of full ers, councils, &c. The finoal-divinity is now fallen into contempt; and is fearce regarded any. Sea to ft. where but in some of the universities, where they are still by their charters obliged to teach it.

SCHOLIAST, or COMMENTATOR, a grammarian who writes feholia, that is, notes, gloffes, &c. upon an-

SCHOLIUM, a note, annotation, or remark, occafionally made on fome pallage, propolition, or the like. This term is much used in geometry and other parts of mathematics, where, after demonstrating a proposition, other way, or to give some advice or precaution in order to prevent mistakes, or add some particular use or application thereof.

SCHOMBERG, FREDERICK-ARMAND DUKE OF. a dittinguithed officer, fprung from an illustrious family in Germany, and the fon of Count Schomberg by an English lady, daughter of Lord Dudley, was born in 1608. He was initiated into the military life under Frederick Henry prince of Orange, and afterwards ferved under his fon William II. of Orange, who highly efteemed him. He then repaired to the court of France, where his reputation was fo well known, that he obtained the government of Gravelines, of Furnes, and the furrounding countries. He was reckoned inferior to no general in that kingdom except Marefchal Tutenne and the Prince of Condé; men of fuch exalted eminence that it was no diffrace to acknowledge their superiority. The French court thinking it necessary to diminish the power of Spain, fent Schomberg to the affillance of the Portuguese, who were engaged in a war with that country respecting the succession to their throne .- Schomfor peace in 1668, and to acknowledge the house of Bragueza as the just heirs to the throne of Portugal. For his great fervices he was created Count Mentola in Portugal; and a penfion of 50001, was bestowed upon him, with the reversion to his heirs.

In 1673 he came over to England to command the army; but the English at that time being difgusted with the French nation, Schomberg was suspected of coming over with a defign to corrupt the army, and bring i under French discipline. He therefore found and went to the Netherlands. In the month of June 1676, he forced the prince of Orange to raise the fiege rank of Marefehal of France, But the French Dillo-

Upon the revocation of the edict of N. ntes, when Schomberg, who was of that perfuation, requested leave to retire into his own country. This request was refuwhere he had reason to expect he would be kingly reSchomierg kingdom was threatened with subversion, could not permit them to give him shelter when he came for protection. The inquifition interfered, and obliged the king to fend him away. He then went to Holland by the way of England. Having accepted an invitation from the elector of Brandenburg, he was invested with the government of Ducal Prussia, and appointed commander in chief of the elector's forces. When the prince of Orange failed to England to take possession of the crown which his father-in-lay; James II. had abdicated, Schomberg obtained permission from the elector of Brandenburg to accompany him. He is supposed to have been the author of an ingenious stratagem which the prince employed after his arrival in London to difcover the fentiments of the people respecting the revolution. The stratagem was, to spread an alarm over the country that the Irith were approaching with fire and fword. When the prince was established on the throne of England, Schomberg was appointed commander in chief of the forces and matter of the ordnance. In April 1689 he was made knight of the garter, and na-turalized by act of Parliament; and in May following was created a baron, earl, marquis, and duke of the kingdom of England, by the name and title of baron Teys, earl of Brentford, marquis of Harwich, and duke of Schomberg. The House of Commons voted to him 100,000l, as a reward for his fervices. Of this he only received a fmall part; but after his death a pension of 5000l. a-year was bestowed upon his fon.

In August 1680 he was fent to Ireland to reduce that kingdom to obedience. When he arrived, he found himself at the head of an army confisting only of 12,000 foot and 2000 horse, while King James commanded an army three times more numerous. Schomberg thought it dangerous to engage with fo superior a force, and being disappointed in his promised supplies from England, judged it prudent to remain on the defensive. He therefore posted himself at Dundalk, about five or fix miles distance from James, who was encamped at Ardee. For fix weeks he remained in this polition, without attempting to give battle, while from the wetness of the season he loft nearly the half of his army. Schomberg was much blamed for not coming to action; but some excellent judges admired his conduct as a display of great military talents. Had he risked an engagement, and been defeated, Ireland would have been loft. At the famous battle of the Boyne, fought on the 1st July 1600, which decided the fate of James, Schomberg paffed the river at the head of his cavalry, defeated eight Iquadrons of the enemy, and broke the Irish infantry. When the French Protestants lost their commander, Schomberg went to rally and lead them on to charge. While thus engaged, a party of King James's guards, which had been separated from the reit, passed Schomberg, in attempting to rejoin their own army. They attacked him with great fury, and gave him two wounds in the head. As the wounds were not dangerous, he might foon have recovered from them; but the French Protestants, perhaps thinking their general was killed, immediately fired upon the guards, and shot him dead on the foot. He was buried in St Patrick's cathedral.

Bishop Burnet says, Schomberg was " a calm man, Schomberg, of great application and conduct, and thought much School. better than he spoke; of true judgement, of exact pro-

bity, and of a humble and obliging temper."

SCHOOL, a public place, wherein the languages, the arts, or sciences, are taught. Thus we say, a grammar fchool, a writing fchool, a fchool of natural philofophy, &c .- The word is formed from the Latin fchola, which, according to Du Cange, fignifies discipline and correction; he adds, that it was anciently used, in general, for all places where feveral persons met together, either to study, to converse, or do any other matter. Accordingly, there were feholæ palatinæ, being the feveral posts wherein the emperor's guards were placed; fchola fcutariorum, fchola gentilium, &c. At length the term passed also to civil magistrates; and accordingly in the code we meet with fehola chartulariorum, fehola agentium, &c.; and even to ecclefiaftics, as schola cantorum, schola sacerdotum, &c.

The Hebrews were always very diligent to teach and fludy the laws that they had received from Mofes. The father of the family studied and taught them in his own family. The Rabbin taught them in the temple, in the fynagogues, and in the academies. They pretend, that even before the deluge there were schools for knowledge and piety, of which the patriarchs had the direction .-They place Adam at their head, then Enoch, and laftly Nouh. Melchisedec, as they say, kept a school in the city of Kajrath-sepher, otherwise Hebron, in Palestine. Abraham, who had been instructed by Heber, taught in Chaldrea and in Egypt. From him the Egyptians learned astronomy and arithmetic. Jacob succeeded Abraham in the office of teaching. The feripture fays, he was "a plain man dwelling in tents;" which, according to the Chaldee paraphraft, is, "that he was a perfect man, and a minister of the house of doctrine."

All this, indeed, must be very precarious and uncertain. It cannot be doubted but that Mofes, Aaron, and the elders of Ifrael, instructed the people in the wildernefs, and that many good Ifraelites were very industrious to instruct their families in the fear of God. But all this does not prove to us that there were any fuch schools as we are now inquiring after. Under Joshua we see a kind of academy of the prophets, where the children of the prophets, that is, their disciples, lived in the exercise of a retired and austere life, in study, in the meditation and reading of the law of God. There were schools of the prophets at Naioth in Ramah; I Sam. xix. 12, 20, &c. See the article PROPHET.

These schools, or societies of the prophets, were succeeded by the fynagogues. See the article SYNAGOGUE. Charity-SCHOOLS, are those schools which are set apart by public contributions or private donations for the instruction of poor children, who could not otherwise enjoy the benefits of education. In no country are thefe more numerous than in Great Britain, where charity and benevolence are characteristic of the nation at large. The following is a fummary view of the number of charity-schools in Great Britain and Ireland, according to

the best information at present, 1795.

School || Schrebera.

	Schools	Boys.	Girls.
At London,	182	4112	2870
In other parts of South Britain,	1329	19506	3915
In North Britain by the ac- count published in 1786,		5187	2618
In Ireland, for teaching to read and write only,	168	2406	600
In ditto, erected pursuant to his majesty's charter,			
and encouraged by his bounty of 1000l, per			
annum, for instructing, employing, and wholly			
maintaining the child- ren, exclusive of the Dub-			
lin work-house school,	42	1935	
Total of schools, &c.	1856	33476	10003

Sunday Scittools are another species of charity schools lately infitiuted, and now pretty common in Great Britain. The infitution is evidently of the first importance; and if properly encouraged must have a very favourable effect on the morals of the people, as it tends not only to preserve the children of the poor from spending Sunday in idleness, and of consequence in distipation and comfort of their future life a stock of tuseful knowledge and virtuous principles, which, if neglected in early life, will seldom be fought for or obtained amidit the hurry of business and the cares and temptations of the world.

The excellent founder of Sunday-fehools was Mr Baikes, a gentleman of Gloucefterhire, who, together with Mr Stock, a clergyman in the fame county, and who, we believe, was equally infirumental in the buffnefs with Mr Baikes, flewed the example, and convinced many of the utility of the plan. From Gloucefterhire the infiltution was quickly adopted in every county and almost every town and parish of the kingdom; and we have only further to remark on a plan to generally known, so much approved, and so evidently proper, that we hope men of eminence and weight will always be found sufficiently numerous and willing to bestow their time and countenance in promoting it to the utmost of their power.

SCHOONER, in fea-language, a fmall vefiel with two mafts, whose main-fail and forcefail are fulpended from gafts, reaching from the mast towards the flern, and firetched out below by booms, whose foremost ends are hooked to an iron, which class the mast so as turn therein as upon an axis, when the after ends are swung from one side of the vefiel to the other.

SCHORL, a species of mineral belonging to the filiceous genus. See MINERALOGY Index.

SCHOTIA, a genus of plants belonging to the decandria class; and in the natural method ranking under the 33d order, Lomentaceæ. See BOTANY Index.

SCHREBERA, a genus of plants belonging to the pentandria class. See BOTANY Index.

SCHREVELIUS, CORNELIUS, a laborious Dutch Schrevelius critic and writer, who has published fome editions of the ancient claffics more dilinguished for their elegance Schuman-than accuracy: his Greek Lexicon is esteemed the best of all his works. He died in 1667.

SCHULTENS, ALBERT, professor of Hebrew and of the castern languages at Leyden, and one of the most learned men of the 18th century, was born at Groningen, where he studied till the year 1706, and from thence continued his studies at Leyden and Utrecht. Schultens at length applied himself to the study of Arabic books, both printed and in manuscript; in which he made great progress. A short time after he became minister of Wassenar, and two years after professor of the eastern tongues at Francker. length he was invited to Leyden, where he taught Hebrew and the eaftern languages with extraordinary reputation till his death, which happened in 1750. He wrote many learned works; the principal of which are, 1. A Commentary on Job, 2 vols 4to. 2. A Commentary on the Proverbs. 3. Vetus et regia via Hebraizandi. 4. Animadversiones philologica et critica ad varia loca Veteris Toflamenti. 6. An excellent Hebrew grammar, &c. Schultens discovered in all his works found criticism and much learning. He maintained against Gousset and Driessen, that in order to have a perfect knowledge of Hebrew, it is necessary to join with it, not only the Chaldee and Syriac, but more particularly the Arabic.

SCHURMAN, ANNA MARIA, a most extraordinary German lady. Her natural genius discovered itself at fix years of age, when the cut all forts of figures in paper with her sciffars without a pattern. At eight, the learned, in a few days, to draw flowers in a very agreeable manner. At ten, she took but three hours to learn embroidery. Afterwards the was taught mufic, vocal and instrumental; painting, sculpture, and engraving; in all of which the fucceeded admirably, She excelled in miniature-painting, and in cutting portraits upon glass with a diamond. Hebrew, Greek, and Latin, were so familiar to her, that the most learned men were aftonished at it. She spoke French, Italian, and English, fluently. Her hand-writing, in almost all languages, was so inimitable, that the curious preserved specimens of it in their cabinets. But all this extent of learning and uncommon penetration could not protect her from falling into the errors of Labadie, the famous French enthulialt, who had been banished France for his extravagant tenets and conduct. To this man she entirely attached herfelf, and accompanied him wherever he went; and even attended him in his last illness at Altena in Holstein. Her works, confisting of De vitæ humanæ termino, and Differtatio de ingenii muliebris ad doctrinam et meliores literas aptitudine, and her Letters to her learned correspondents, were printed at Leyden in 1648; but enlarged in the edition of Utrecht, 1662, in 12mo, under the following title: A. M. Schurman Opuscula Hebræa, Græca, Latina, Gallica, Profaica, et Metrica. She published likewise at Altena, in Latin, A Defence of her attachment to Labadie, while the was with him in 1673; not worth reading. She was born at Cologne in 1607, but refided chiefly in Holland, and died in Friefland in 1678.

SCHWARTENBURG,

SCHWARTENBURG, a town and castle of Gerburg many, and circle of Upper Saxony, in the landgravate Schweitz, of Thuringia, and capital of a county of the fame name belonging to a prince of the houle of Saxony. It is feated on the river Schwartz, 20 miles fouth-east of Er-

SCHWARTS, CHRISTOPHER, an eminent historypainter, born at Ingolitadt in 1550, who was diflinguilhed by the appellation of the German Raphael. He learned the first principles of the art in his own country, but finished his studies at Venice; when he not only made the works of Titian his models, but had the advantage of receiving some personal instructions from that illustrious matter. His performances were foon in the highest esteem, as his manner of painting was very different from what the Germans had been accustomed to before that time : he was, therefore, invited by the elector of Bayaria to his court. and appointed his principal painter. He died in 1594; and his most capital works, as well in fresco as in oil, are in the palace at Munich, and in the churches and

SCHWARTZEMBERG, a town of Germany, in the circle of Franconia, and capital of a principality of the fame name. The castle is scated on the river Lec, 5 miles north-west of Nuremberg, and 20 east of Wertzburg, subject to its own prince. E. Long. 10. 27. N.

SCHWEIDNITZ, a ftrong town of Silefia, and capital of a province of the same name, with a castle. Next to Breflaw, it is the handfomest town of Silesia. The streets are large, the church fine, and the houses well built. The fortifications are not very confiderable, and the royal palace is turned into a convent. Great part of the city was burnt down in 1716, but it was afterwards elegantly rebuilt and improved. In 1757 by the Pruffians the following year. All the magistrates are Roman Catholics; but most of the inhabitants are Protestants, who have a church without the town, as allo a public school. It is seated on an eminence on the river Weistritz, 27 miles fouth-east of Lignitz, and 22 fouth-west of Breslaw. E. Long. 16. 54. N. Lat.

SCHWEINFURT, a very strong, free, and imperial town of Franconia in Germany, with a magnificent jal.ce, where the fenators, who are 12 in number, meet. The environs are rich in cattle, corn, and wine; the inhabitants are Protestants. They carry on an exand feathers. It is feated on the river Maine, 27 miles north-east of Wartzburg, and 25 west of Bamberg. E. Loi g. 10. 25. N. Lat. 52. 15. This town was taken by the French in 1796.

SCHWEITZ, a canton of Svitzerland, bounded on the weil by the lake of the Four Cantons; on the fouth by the canton of Uri; on the east by that of Glaris, and on the nor h by thole of Zurich and Zug. This canton, in conjunction with those of Uri and Underwalden, threw off the Authrian yoke in 1308, and formed a perfetual alliance in 1315, which was the grand foundation of the Helvetic confederacy. The name of Schweitzering, or Switzerland, which at first comprehended only those three cantons, was afterwards extend. Schweitz. ed to all Helvetia. It derived that name, either from the conton of Schweile, as being the most diffinguished by the revolutioned 1328, or because the Audirians called all the inhabit has of these mountai ous parts by the general denomination of Schweitzers. The government of Schreitz and Uri was entirely democratical before the late revolution. They contain about 50,000 inhabi-The whole country being mountainous, confifts chiefly of pasture, raises little corn, and has no wine; but the foil, though naturally barren, has been improved by fearcely known here; and a purity of morals prevails, which can scarcely be imagined by the inhabitants of extensive and opulent cities. The Roman catholic is

A dreadful difaster happened in this canton by the fall of part of a mountain called R fliberg or Rofenberg, on the evening of the 2d of September 1806. than five minutes, and two others were very much dam ged. The torrent of earth and flones difengaged on this melancholy occasion was even more rapid than that of lava, and its terrible effects were equally irrefiflible, carrying rocks, trees, houses, every thing before it, and burying a space of charming country upwards of three miles square. So rapid was the motion of this dreadful mass, that it not only covered the adjoining valley, but ascended to a confiderable height on the side of the opposite mountain. A portion of it rolled into the lake of Lauwertz, a fifth part of which it is supposed to have filled up. The agitation of the water was fo great as to overturn a number of houses, chapers, mills, &c. along the fouthern shore of the lake, particularly the mill of Lauwertz, where 15 persons were killed, about 60 feet above the level of the lake.

The villages of Goldau and Rothen, confifting of 11; houses, that of Busingen, of 126, and that of Huzlock, totally disappeared. Of Lauwertz there remain only ten buildings much damaged, and 2; were deflroyed. Stein loft two houses and several stables, which latter were very numerous in all these villages. The total loss of property of different kinds, as houses, cows, horses, goats, theep, &c. fustained on this occasion, has been estimated at 120,000l. sterling. In the villages which were overwhelmed, not an individual escaped. More than 1000 persons were the victims of this disaster. Thirteen travellers were on their way from Arth to Schweitz, of whom the foremost nine perished, and the remaining four escaped, being about 40 paces behind them.

About 20 years ago General Pfyffer foretold this catastrophe, from his particular knowledge of the mountain. There was a fea of water above Spietzflue, which for feveral years had undermined the rock, and in a cavern of great depth beneath the waters were engulphed. The quantity of water which fell during the picceding years, tended to haften the approach of this melancholy event, and the rains of fome weeks before, de-

SCHWEITZ, a town of Switzerland, and capital of the canton of the ome name, is feated near the Walddretter

utility of (cientific

S.hweits fea, on the flope of a hill, and at the bottom of two Sciagraphy, high, tharp, and rugged rocks, called the Schweitzer Hahuen. The church is an edifice both large and magnificent. It is 10 miles fouth-east of Lucerne. E. Long.

8. 30. N. Lat. 46. 55. SCHWENKFELDIA, a genus of plants belonging to the pentandria class; and in the natural method ranking with those that are doubtful. See BOTANY Index. SCHWENKIA, a genus of plants belonging to the

diandria class. See BOTANY Index.

SCHWINBURG, a town of Denmark, on the fouth coast of the island of Funen, opposite to the islands of

Arroa and Langeland. E. Long. 10. 30. N. Lat. 55. 10. SCIACCA, anciently called Therme Sclinuntice, in Sicily, derives its present denomination from the Arabic word Scheich. It is a very ancient place, being mentioned in the account of the wars between the Greeks and Carthaginians, to the latter of whom it belonged. It is defended by ancient walls and the castle of Luna. It stands upon a very steep rock, hanging over the fea, and excavated in every direction into prodigious magazines, where the corn of the neighbouring territory is deposited for exportation; there is no harbour, but a small bay formed by a wooden pier, where lighters lie to load the corn which they carry out about a mile to ships to anchor.

The town is irregularly but fubftantially built, and contains 13,000 inhabitants, though Amico's Lexicon Topographicum fays the last enumeration found only 9484. His accounts do not take in ecclefiaftics, and

leveral denominations of lav persons.

SCIÆNA, a genus of fishes belonging to the order thoracici. See ICHTHYOLOGY Index.

SCIAGRAPHY, or SCIOGRAPHY, the profile or vertical fection of a building, used for shewing the inside of it.

SCIAGRAPHY, in Afronomy, &cc. is a term made use Sciagrap of by fome authors for the art of finding the hour of the Science day or night, by the shadow of the sun, moon, slars, &c.

SCIATICA, the HIP-GOUT. See MEDICINE Index. SCIENCE, in Philosophy, denotes any doctrines de-

duced from felf-evident principles.

Sciences may be properly divided as follows, 1. The knowledge of things, their constitutions, properties, and operations: this, in a little more enlarged fense of the word, may be called queixn, or natural philosophy; the end of which is speculative truth. See Pillo-SOPHY and PHYSICS .- 2. The fkill of rightly applying these powers, Teaution: The most considerable under this head is ethics, which is the feeking out those rules and measures of human actions that lead to happiness, and the means to practife them (fee MORAL PHILOSOPHY); and the next is mechanics, or the application of the powers of natural agents to the uses of life (fee MECHANICS) .- 3. The doctime of figns, ormeration; the most usual of which being words, it is aptly enough termed logic. See Logic.

This, fays Mr Locke, feems to be the most general, as well as natural, division of the objects of our underftanding. For a man can employ his thoughts about nothing but either the contemplation of things themselves for the discovery of truth; or about the things in his own power, which are his actions, for the attainment of his own ends; or the figns the mind makes use of both in the one and the other, and the right ordering of them for its clearer information. All which three, viz. things as they are in themselves knowable, actions as they depend on us in order to happiness, and the right use of figns in order to knowledge, being toto calo different, they feem to be the three great provinces of the intellec-

# SCIENCE, AMUSEMENTS OR RECREATIONS OF,

A DESIRE of amusement and relaxation is natural to man. The mind is soon fatigued with contem-Nature and plating the most sublime truths, or the most refined speculations, while these are addressed only to the underrecreations. flanding. In philosophy, as in polite literature, we must, to please and secure attention, sometimes address ourselves to the imagination or to the passions, and thus combine the agreeable with the ufeful. For want of this combination, we find that pure mathematics (comprehending arithmetic, geometry, algebra, fluxions, &c.), notwithstanding their great and acknowledged utility, are studied but by few; while the more attractive fciences of experimental philosophy and chemistry, are almost universally admired, and seldom fail to draw crowds of hearers or spectators to the lectures of their profesfors. The numerous striking phenomena which these latter sciences present to our senses, the splendid experiments by which their principles may be illustrated, and the continual application which they admit, of those principles and experiments to the affairs of common life, have a powerful influence on the imagination; fix and keep alive the attention; excite the passions of joy, terror, or furprite, and gratify that love of the marvellous which nature has implanted in the human mind. Even the more abstruce subjects of pure mathematics, Vol. XVIII. Part II.

especially arithmetic and geometry, may be sometimes enlivened by amufing examples and contrivances; and are found the more pleafing, in proportion as they are

tual world, wholly feparate and diffinct one from another.

fusceptible of such elucidation.

These experimental contrivances, and useful applications to the purpoles of common life, conflitute what we may term the Amusements or Recreations of SCIENCE. They have very properly been denominated rational recreations, as they ferve to relax and unbend the mind after long attention to the cares of business, or to severer fludies, in a manner more rational, and often more fatisfactory, than those frivolous pursuits which too often employ the time, and injure the health of the rifing generation.

In the preceding volumes of this work, we have sup-Object and plied our readers with many examples of fcientific re-plan of the creation. Thus, the articles LEGERDEMAIN and Py-article. ROTECHNY may be regarded as entirely of this nature; and in the experimental parts of CHEMISTRY, ELLIC-TRICITY, GALVANISM, and MAGNETISM; in the articles Acoustics, Hydrodynamics, Mechanics, OPTICS, and its corelative divisions, CATOPTRICS, DI-OPTRICS, PERSPECTIVE, and MICROSCOPE; in PNEU-MATICS and AEROSTATION, we have related a variety of interesting experiments, and described many ingeni-

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Introduc- ous contrivances, calculated both for instruction and amusement. It is the object of the present article to bring these under one point of view, and to add a few of the more curious or ufeful experiments and contrivances which could not before be conveniently introduccd. In particular, we propose to explain some of those scientific deceptions which have excited so much interest and admiration, and to describe several useful philotophical inftruments, which either are of very late invention, or have been overlooked in the preceding parts of the work. We shall thus be enabled to supply several deficiences (otherwife unavoidable), and shall render the present article a fort of general index or table of reference to the various subjects of icientific amusement which are difperfed through the Encylopædia.

For greater convenience, and more easy reference to preceding articles, we shall arrange the sections under which the various amusements of science may be reduced, in alphabetical order, according to the feries of the principal mathematical and philotophical treatifes. Thus the article will be divided into 13 fections, comprehending the recreations and contrivances that relate to A-COUSTICS, ARITHMETIC, ASTRONOMY, CHEMISTRY, ELECTRICITY, GALVANISM. GEOGRAPHY, GEOME-TRY, HYDRODYNAMICS, MAGDETISM, MECHANICS,

OPTICS, and PNEUMATICS.

It must not be supposed, from the title of this article, that the subjects which we are here to discuss are puerile or triffing. They will be such as are best calculated to excite the attention, quicken the ingenuity, and improve the memory of our young readers, and they will be fimilar to those pursuits which have employed the lighter hours of some of the most destinguished philosophers and mathematicians. The names of Bacon, of Boyle, of Newton, of Defaguliers, of Ozanam, of Montucla, and of Hutton, stamp a value on the recreations of fcience, and prevent us from confidering them as frivo-

lous or trifling.

Writers on

The subject of scientific recreations must be regarded as entirely modern, as, previous to the era of Lord recreations. Bacon, philosophers were much more attached to rigid demonstration and metaphyfical reasoning, than to experimental illustration. Much may be found on these fubiects in the works of Lord Bacon and Mr Boyle; but the earliest collection of scientific amusements which deferves notice, is the work of Ozanam, entitled Récréations Mothematiques et Physiques, published in 1692, in 2 vols 8vo. and afterwards feveral times republished with incorovements and additions, till it was enlarged to 4 vols 8vo. This work was foon translated into most of the modern languages, and was given to the English reader by Dr Hooper, under the title of Rational Recreations, first published, we believe, in 1774, and again in 1783, in 4 vols 8vo. The original work of Ozanam has been lately recomposed and greatly improved by M. Montucla, and a translation of this improved edition into English was published in 1803, in 1 vols 8vo, by D. Charles Hutton. In this English edition, the work is much better adapted than in any former copy, to the English reader, and is enriched by some of the latest improvements in natural philosophy and chemistry.

It may not be improper to add, to this notice of works on the amulements of science, a lift of the best experimen- popular treatifes on natural and experimental philosof hy and chemistry, to which our younger readers may have

recourse for an explanation of the principles of these Recreations fciences, if they should find some of the articles in this in Acous-Encyclopædia too abstruse or too mathematical.

To young people who have never read any work on these sciences, we may recommend Mr Joyce's Scientific Dialogues, Dialogues on Chemistry, and Dialogues on the Microscope, and Mr Frend's Evening Amusements. After attentively perusing these, they may enlarge their information by reading Brewster's edition of Ferguson's Lectures; Nicholson's Introduction to Natural Philofophy; Gregory's Economy of Nature; or Dr Young's Lectures on Natural Philosophy; and Henry's Epitome of Chemistry, 8vo edition.

### SECT. I. Recreations and Contrivances relating to Acoustics.

In the article Acoustics, Vol. I. p. 159. we have Recreations related fix amufing experiments and contrivances, and in Acousexplained them on the principles of acoustics. These are, tics. the conversing statue, explained on the principle of the reflection of found; the communicative buffs, and the oracular head, explained from the reverberation of found; the folar fonata, the automaton harpficherd, and the ventofe fymphony, explained partly on the principles of acoustics, and partly on those of mechanics. We have now to explain a deception connected with the conveyance of found, well known to many of our readers, by the name of the invisible ladu or invisible girl; and to notice some curious figures affumed by fand or other light bodies on the furface of vibrating plates.

Some years ago M. Charles, brother to the well-lower to known philosopher of that name, exhibited in London, lady, and afterwards in most of the large towns of Great Britain and Ireland, the experiment of the invilible girl, The apparatus by means of which this experiment was conducted, and the principal circumstances attending the exhibition, have been described by Mr Nicholson, in

his Philosophical Journal, from which the following account is principally taken.

In the middle of a large lofty room, in an old house, where, from the appearance of the wainfcot, and other circumstances, there seemed to be no situation for placing acoustic tubes or reflectors, was fixed a wooden railing, about 5 feet high, and as many wide, inclofing a square space. A perspective view of the apparatus is given at fig. 1. of Plate CCCCLXX, where A. A, A, A, represent the four upright posls. These posts were united by a cross rail near the top, BB, and by two or more fimilar rails at the bottom. The frame, thus constructed, stood upon the stoor, and from the top of each of the four upright pillars proceeded a strong bended brass wire a, a, a, a, so that they all met together at the top c, where they were fecured by a crown and prince's feather, or other ornaments. From these four wires was suspended a hollow copper ball, about a foot in diameter, by means of flight ribbons, fo as to cut off all possible communication with the frame. Round this ball were placed four trumpets, at right angles to each other, as represented at A, A, A, A, fig. 2. having their mouths opening externally.

Such was the apparent conftruction of the apparatus. and it was pretended that there refided within the ball an invisible lady, capable of giving answers to any questions that were put to her. When a question was propoled.

Popular works on phy.

Recreations poled, it was uttered in at the mouth of one of the trumin Acoust pets, and an answer immediately proceeded from all ties. the trumpets, fo diffinctly loud as to be heard by an ear applied to any of them, and yet fo diftant and feeble, that it appeared to come from a very diminutive

being. In this confided the whole of the experiment. except that the lady could converse in several languages, fing, describe all that happened in the room, and displayed a fund of lively wit and accomplishment that admirably qualified her to support the character she had

undertaken.

The principles on which this experiment is constructed are fimilar to those of the oracular head described under Acoustics; except that, in the present deception, an artificial echo is produced by means of the trumpets, and thus the found is completely reverled, instead of proceeding in its original direction, Fig. 3, represents a fection of the apparatus, and will explain the method by which the deception is effected. One of the posts A, A, as well as one-half of the hand-rail connected with it, is hollowed into a tube, the end of which opens on the infide of the rail, opposite the centre of the trumpet on that fide, though the hole is very finall, and is concealed by reeds or other mouldings. At the other end the tube communicates with a long tin pipe pp about half an inchin diameter, concealed below the floor of the room ff, and passing up the wall to a large deal case, k, almost similar to an inverted funnel, and large enough to contain the confederate, and a piano forte, on which tunes may be occasionally played. A fmall hole closed with glass is left through the funnel and fide-wall of the room, as at h, fo that the confederate may have an opportunity of observing and commenting on any circumstances which may take place in the room. Thus, when any question is asked at one of the trumpets, the found is conveyed through the communicating tubes into the funnel-shaped case, so as to be heard by the confederate, who then gives the answer, which in like manner is conveyed through the tube below the floor to one of the trumpets, and is heard, either from that, or any of the rest.

On the Figures produced by Light Bodies on Vibrating

Vibration figures.

10, 11.

About the year 1787, Dr Chladni of Wittemberg drew the particular attention of philosophers to the nature of vibration, by investigating the curves produced by the moving points of vibrating furfaces. It is found that if fand, or a fimilar fubitance, be strewed on the surface of an elastic plate, such as glass or the sonorous metals, and if the plate be made to vibrate, the fand will arrange itself on particular parts of the surface, showing that these points are not in motion. These figures are often extremely curious, and may be varied according to the pleafure or address of the experimentalist. Some Fig. 5, 6. of the more remarkable are represented at figs. 5, 6, 10. 11.

> To produce these figures, nothing is necessary but to know the method of bringing that part of the surface which we wish not to vibrate into a state of rest; and of putting in motion that which we wish to vibrate : on this depends the whole expertness of producing what are called vibration figures.

Those who have never tried these experiments may

imagine that to produce fig. 5. it would be necessary Recreations to damp, in particular, every point of the part to be kept in Acousat rell, viz. the two concentric circles and the diameter, tics. and to put in motion every part intended to vibrate, Fig. 5-This, however, is not the case; for we need damp only the points a and b, and cause to vibrate one part c, at the edge of the plate; for the motion is foon communicated to the other parts which we with to vibrate, and the required figure will in this manner be produced.

The damping may be best effected by laying hold of the place to be damped between the fingers, or by supporting it with only one finger. This will be more clearly comprehended by turning to fig. 8. where the Fig. 8. hand is represented in the position necessary to hold the plate. In order to produce fig. 6. we must hold the Fig. 6. plate horizontally, placing the thumb above at a, with the fecond finger directly below it; and besides this, we must support the point b on the under side of the plate. If the bow of a violin be then rubbed against the plate at c, there will be produced on the glass the figure which is delineated at fig. 6. When the point to be Fig. 6. fupported or damped lies too near the centre of the plate, we may rest it on a cork, not too broad at the end, brought into contact with the glats in fuch a manner as to supply the place of the singer. It is convenient alfo, when we wish to damp several points at the circumference of the glass, to place the thumb on the cork, and to use the rest of the fingers for touching the parts which we wish to keep at reil. For example, if we with to produce fig. 7. on an elliptic plate, the larger Fig. 7. axis of which is to the less as 4 to 3, we must place the cork under c, the centre of the plate; put the thumb on this point, and then damp the two points of the edge p and q, as may be feen at fig. 8. and make the plate to vibrate by rubbing the violin bow against it at r. There is still another convenient method of damping several points at the edge when large plates are employed. Fig. 4. represents a strong square piece of metal a b, Fig. 4. a line in circumference, which is screwed to the edge of the table, or made fast in any other manner; and a notch, about as broad as the edge of the plate, is cut into one fide of it by a file. We then hold the plate reiting against this piece of metal, by two or more fingers when requifite, as at e and d, by which means the edge of the plate will be damped in three points d, c, e; and in this manner, by putting the plate in vibration at f, we can produce fig. 13. In cases of necessity, the Fig. 13. edge of a table may be used, instead of the piece of metal; but it will not answer the purpose so well.

To produce the vibration at any required place, a common violin bow, rubbed with rofin, is the most proper instrument to be employed. The hair must not be too flack, because it is fometimes necessary to press pretty hard on the plate, in order to produce the tone fooner.

When we wish to produce any particular figure, we must first form it in idea upon the plate, in order that we may be able to determine where a line at reft, and where a vibrating part, will occur. The greatest rest will always be where two or more lines interfect each other, and fuch places must in particular be damped. For example, in fig. 9. we must damp the part n, and stroke with the bow in p. Fig. 13. may be produced with no Fig. 13. less ease, if we hold the plate at r, and stroke with the

Fig. 5.

Recreations bow at f. The ftrongest vibration seems always to be in Acous- in that part of the edge which is bounded by a curve; for example, in figs. 10. and 11. at n. To produce Fig. 10, 11, these figures, therefore, we must rub with the bow at n,

We must, however, damp not only those points where two lines interfect each other, but endeavour to fupport at least one which is fuited to that figure, and to no other. For example, when we support a and b, fig. c. and rub with the bow at c, fig. q. also may be produced, because both figures have these two points at rest. To produce fig. 5. we must support with one finger the part e, and rub with the bow in e; but fig. Q. cannot be produced in this manner, because it has not the point e at rest.

One of the greatest difficulties in producing the figures, is to determine before hand the vibrating and resting points which belong to a certain figure, and to no other. Hence, when we are not able to damp those points which diftinguish one figure from another, if the violin bow be rubbed against the plate, several hollow tones are heard, without the fand forming itself as expected. We must therefore acquire by experience a readiness, in being able to fearch out among these tones, that which belongs to the required figure, and to produce it on the plate by rubbing the bow against it. When we have acquired fufficient expertness in this refpect, we can determine before-hand, with tolerable certainty, the figures to be produced, and even the most difficult. It may be easily conceived, that we must remember what part of the plate, and in what manner we damped; and we may mark these points by feratching the plate with a piece of flint.

When the plate has acquired the proper vibration, endeavour to keep it in that state for some seconds; which can be done by rubbing the bow against it several times. By these means the fand will be more accu-

rately formed.

Any fort of glass may be employed, provided its surface be smooth, otherwise the sand will fall into the hollow parts, or be thrown about irregularly. Common glass plates, when cut with a stone, are very sharp on the edge, and would foon destroy the hair of a violin bow; for which reason the edge must be smoothed by a file, or a piece of freeftone.

We must endeavour to procure such plates as are uniformly thick, and of different fizes; fuch as circular ones from four to 12 inches in diameter. Sand too fine must not be employed. The plate must be equally bestrewed with it, and not too thickly, as the lines will Mag. vol. then be exceedingly fine, and the figures will acquire a

iii. p. 389. better defined appearance \*.

The subject of ventriloquism, or that peculiar modification of voice by which founds are made to appear as coming from fituations at a diffance from the person who utters them, is a deception connected with the fubject of acoustics. This deception we have already explained under Physiology, No 251, 254.

Arithmeti-SECT. II. Recreations and Contrivances relating to cal Recrea-ARITHMETIC.

THE only amusements connected with this subject, of Arithmetiwhich we have already given an account, are those con-cal recrea-

tained under the head of Miscellaneous Performances in tions, the 4th fection of the article LEGERDEMAIN, the most curious of which is the method of discovering, by calculation, what person in a select party has put a ring on his finger, as well as the hand, the finger, and the joint on which the ring is placed. We have also described the magic fquares, and magic circles, in vol. xvi. p. 354. et seq. A mechanical method of performing the principal arithmetical operations has been described under ABACUS.

To perform a question in Simple Addition merely by knowing the first line.

The question proposed may consist of five lines of fi- Addition

gures, of which the first and second lines are written by performed the propoler, the third by the person to whom the que-from a ftion is proposed, and the fourth and fifth alternately by fingle line the propofer and expounder; but before the fecond line is written, the expounder is to discover the fum in the following manner. To each digit of the first line he adds 2, which gives as many digits of the fum as are contained in the first line of the question, and to these z is to be prefixed on the left hand. To accommodate the question to this fum, when the proposer has written the fecond line, the expounder constructs the third by deducting each digit of this line from 10, fo that his third line confifts of the remainders. In like manner the expounder constructs the fifth line by remainders from the digits of the fourth line fet down by the pro-

poser, deducting the first digit on the right hand from 12, and the rest from 10. The following example will illustrate the method of procedure. Suppose it be required to find the fum in a question of which the first line is 35726. Adding 2 to each of

these digits, and prefixing 2 to the sum, we have for the fum of the whole question 2 57948.

35726 Let us now suppose that the second line writ-21354 ten by the propofer is 21354. To construct 89756 the third line, the expounder fubtracts 2, 1, 13248

3, 5, 4 each from 10; and the remainders 97864 8, 9, 7, 5, 6, form the third line. Lastly, Suppose that the proposer's next line, form-257948 ing the fourth, flands thus, 1, 3, 2, 4, 8.

To find the last line, the expounder deducts 1, 3, 2, 4, each from 10, and 8 from 12, by which he obtains 9, 7, 8, 6, 4; and it is evident that the addition of these five lines produces the fum originally fet down from the

first line only. N. B. It is effential to the performance of this queftion, that none of the digits written by the propofer be cyphers (A).

Moft

\* Phil. Ventriloquilm.

> (A) Though it is not our intention in the present article, to explain all the experiments and contrivances so fully as to leave nothing to the ingenuity of the reader, we may remark, with respect to the present question, that as the obtained fum is derived merely from the first line of figures, all below this must be so contrived as to produce by their addition a line in which all the digits are 2's. Accordingly, it will be found that the addition of the

Arithmeti-

Most of our readers are well acquainted with the cal Recrea- question in multiplication respecting the price of a horse from fuccessively doubling a farthing as often as there are nails in the horse's shoes. (See Montucla's Recreations by Hutton, vol. i. or Sandford and Merton, vol. i.). The following quellion is of a fimilar nature, but appears till more furprifing.

A courtier having performed some very important fervice to his fovereign, the latter wishing to confer on him a fuitable reward, defired him to afk whatever he thought proper, promising that it should be granted. The courtier, who was well acquointed with the science of numbers, requelled only that the monarch would give him a quantity of wheat equal to that which would arise from one grain doubled 63 times fuccessively. What was the

value of the reward?

The origin of this problem is related in fo curious a manner by Al-Sephadi, an Arabian author, that it deferves to be mentioned. A mathematician named Selfa, fays he, the fon of Daher, the fubject of an Indian prince, baying invented the game of chefs, his fovereign was highly pleafed with the invention, and wishing to confer on him fome reward worthy of his magnificence, defired him to ask whatever he thought proper, assuring him that it should be granted. The mathematician, however, asked only a grain of wheat for the first square of the chefs-board, two for the fecond, four for the third, and so on to the last or 64th. The prince at first was almost incensed at this demand, conceiving that it was ill fuited to his liberality, and ordered his vizir to comply with Sessa's request; but the minister was much aftonithed when, having caused the quantity of corn neceffary to fulfil the prince's order to be calculated, he found that all the grain in the royal granaries, and that even of all his subjects, and in all Asia, would not be fufficient. He therefore informed the prince, who fent for the mathematician, and candidly acknowledged his inability to comply with his demand, the ingenuity of which aftonished him still more than the game which he had invented.

To find the amount of this prodigious reward, to pay which even the treasury of a mighty prince was in:ushcient, we shall proceed most easily by way of geometrical progression, though it might be discovered by common multiplication and addition. It will be found by calculation, that the 64th term of the double progression, beginning with unity, is 9,223,372,036,854,775,808. But the fum of all the terms of a double progression, beginning with unity, may be obtained by doubling the last term and subtracting from it unity. The number, therefore, of the grains of wheat equal to Seffa's demand, will be 18,446,744,073,709,551,615. Now, if a standard English pint contain 9216 grains of wheat, a gallon will contain 73,728; and, as eight gallons make one bushel, if we divide the above result by 8 times 73,728, we shall have 31,274,997,412,295 for the number of the bushels of wheat necessary to discharge the promife of the Indian king; and if we fup- Atithmetipose that one acre of land be capable of producing in cal kecreaone year, 30 bushels of wheat, to produce this quantity would require 1,042,499,913,743 acres, which make more than 8 times the jurface of the globe; for the diameter of the earth being supposed equal to 7030 miles. its whole furface, comprehending land and water, will amount to very little more than 126,437,889,177 fquare acres.

If the price of a bushel of wheat be estimated at 10s. (it is at prefent, August 1809, 12s. 6d. per bushel), the value of the above quantity will amount to 15,637,498,706,147l. 10s.; a ium which, in all probability, far surpasses all the riches on the earth \*.

\* Hutten's Recreations, vol. i.

# To discover any Number thought of.

Of this problem there are feveral cases, differing To tell a chiefly in complexity of operation.

I. Defire the perion who has thought of a number, thought of. to triple it, and to take the exact half of that triple if it be even, or the greater half if it be odd. Then defire him to triple that half, and ask him how many times that product contains q; for the number thought of will contain double the number of nines, and one more if it be odd.

Thus, if 4 has been the number thought of, its triple will be 12, which can be divided by 2 without a remainder. The half of 12 is 6, and if this be multiplied by 3, we shall have 18, which contains 9 twice, the number will therefore be 4 equal twice 2, the number of nines in the last product.

II. Bid the person multiply the number thought of by itself; then defire him to add unity to the number thought of, and to multiply that fum also by itself; in the last place, ask him to tell the difference of those two products, which will certainly be an odd number. and the least half of it will be the number required.

Let the number thought of be 10, which multiplied by itself gives 100; in the next place 10 increased by 1 is 11, which multiplied by itself makes 121, and the difference of these two squares is 21, the least half of which being 10, is the number thought of.

This operation might be varied in the fecond step by defiring the person to multiply the number by itself, after it has been diminished by unity, and then to tell the difference of the two squares, the greater half of which will be the number thought of.

Thus, in the preceding example, the square of the number thought of is 100, and that of the fame number, fubtracting I, is 81; the difference of these is 19, the greater half of which, or 10, is the number thought

III. Defire the person to add to the number thought of its exact half if it be even, or its greater half if it be odd, in order to obtain a first sum; then bid him add to this fum its exact half, or its greater half, according

first right-hand column produces 22, and that of all the rest 20, which, with the addition of the 2 carried, supplies the other 2's in the line. From this it is evident, that though, for more eafy illustration, we have given a queftion containing only five lines; feven, nine, or any unequal number may be employed, confiructing the feventh, ninth, &cc. on fimilar principles.

Arithmeti- as it is even or odd, to have a fecond fum, from which cal decrea- the person must subtract the double of the number thought of. Then defire him to take the half of the remainder, or its less half if it be an odd number, and continue halving the half till he comes to unity. When this is done, count how many subdivisions have been made, and for the first division retain two, for the second 4, for the third 8, and fo of the rest, in double proportion. It is here necessary to observe, that I must be added for each time that the least half was taken, because, by taking the least half, one always remains; and that I only must be retained when no subdivision could be made; for thus you will have the number the halves of the halves of which have been taken; the quadruple of that number then will be the number

> number thought of. Thus, if the number thought of has been 4; by adding to it its half, we shall have 6; and if to this we add its half, 3, we shall have 9; if 8, the double of the number thought of, be subtracted, there will remain 1, which cannot be halved, because we have arrived at unity. For this reason, we must retain 1; and the quadruple of this, or 4, will be the number thought of.

thought of, in case it was not necessary at the beginning to take the greater half, which will happen only when the number thought of is evenly even, or divifible by 4; but if the greater half has been taken at the first division, 3 must be subtracted from the above quadruple, or only 2 if the greater half has been taken at the second division, or s if it has been taken at each of the two divisions, and the remainder then will be the

IV. Defire the person to take I from the number thought of, and to double the remainder; then bid him take I from this double, and add to it the number thought of. Having asked the number arising from this addition, add 3 to it, and the third of the fum will be the number required.

Let the number thought of be 5; if 1 be taken from it, there will remain 4, the double of which 8, being diminished by 1, and the remainder 7 being increased by 5, the number thought of, the refult will be 12; if to this we add 3, we shall have 15, the third part of which, 5, will be the number required.

V. Defire the person to add 1 to the triple of the number thought of, and to multiply the fum by 3; then bid him add to this product the number thought of, and the result will be a fum, from which if 3 be subtracted, the remainder will be double of the number required. If 3 therefore be taken from the last fum, and if the cipher on the right be cut off from the remainder, the other figure will indicate the number fought.

Let the number thought of be 6, the triple of which is 18, and if unity be added it makes 19; the triple of this last number is 57, and if 6 be added it makes 63, from which if a be subtracted the remainder will be 60; now, if the cipher on the right be cut off, the remaining figure 6 will be the number required.

VI. Among the various methods contrived for difcovering numbers thought of, we have feen none more ingenious than the following, which was lately communicated to us. This is a fort of puzzle, confishing of fix flips of paper or pasteboard, on which are written numbers as expressed in the following columns.

Arithmetis

cal Recreas

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The fix flips being thus prepared, a person is to think of any one of the numbers which they contain, and to give to the expounder of the question those slips which contain the number thought of. To discover this number, the expounder has nothing to do but to add together the numbers at the top of the columns put into his hand. Their fum will express the number thought of.

Example. Thus, suppose we think of the number 14. We find that this number is in three of the flips, viz. those marked B, C, and D, which are therefore given to the expounder, who on adding together 2, 4, and 8, obtains 14, the number thought of.

This trick may be varied in the following manner-Instead of giving to the expounder the slips containing the number thought of, these may be kept back, and those in which the number does not occur be given. In this case the expounder must add together, as before, the numbers at the top of the columns, and fubtract their fum from 63; the remainder will be the number thought

Example. Taking again the former number 14, the flips in which this is not contained are those marked A, E, and F. Adding together 1, 16 and 32, the expounder has 49, which subtracted from 63, leaves 14, the number thought of as before.

The flips containing the columns of numbers are

ufually

Afronomi- usually marked with letters on the back, and not above cal Recrea the columns, as we have expressed them. This renders the deception Imore complete, as the expounder of the question know of before hand the number at the top of each column, has only to examine the letters at the back of the flips given him, when he performs the problem without looking at the numbers, and thus renders the

> trick more extraordinary. Towards explaining the principles on which this puzzle has been confiructed, we may remark, I. That each column may be divided into fets of figures; those of each column confitting of as many figures as are reprefented by the number at the head of the column, one figure in each fet in the column marked 1; two in that marked 2; four in 4, &c. 2. That after each parcel there is a blank of as many figures as that parcel confitts of, counting in a regular leries from the last number of the parcel. 2. That the numbers of each parcel are in arithmetical progression, while those at the head of the columns are in geometrical progression. 4. That the first sets of all the columns taken together in regular feries, compole the whole feries of numbers in the columns from 1 to 63, and are confequently the most important, as any number thought of must be found in only one of these sets. 5. That the sum of all the terms of the geometrical progretion is equal to the last or highest term of the arithmetical progression 63, and is alto equal to the double of the last term of the geometrical progression diminished by unity.

> Having premifed these remarks, we shall not proceed farther than to hint, that, in constructing this ingenious puzzle, the author appears to have employed the properties of geometrical progressions, and their relations to arithmetical progressions, for which see the article SERIES.

> To render these columns more portable, they may each be divided into three or more, and written on small cards, marked at the back with letters. In this form the first figure of the first column must be employed, like the first figure at the head of the slips, or the better to difguife the contrivance, the figures of each column may be placed in a confused order, and the letters

alone employed.

Mr William Frend, well known as the author of the tangible a- Evening Amulements, has rendered an important ferrithmetic. vice to the rifing generation, by the publication of his Tangible Arithmetic, or the Art of Numbering made easy, by means of an arithmetical toy. The toy which forms the basis of this method of numbering, is similar to what has been called the Chinese board, which is explained in the fourth volume of Mr Frend's Evening Amusements. This toy is so constructed as to be capable of expressing any number as far as 16,666,665, and is capable of performing a great variety of arithmetical operations, merely by moving a few balls. The author gives a variety of fimple inftances and amufing games, by which the first four rules of arithmetic may be explained and illustrated. The whole contrivance is very ingenious, and well deferves the attention of mothers and all teachers of children.

SECT. III. Recreations and Contrivances relating to Aftronomi-ASTRONOMY.

> MANY fcientific recreations may be derived from astronomy, and some of these have already been noticed

in our treat.fe on that subject. Among the most useful Astronomiof the aftronomical amusements, however, is the method al Recreaof discovering the feveral itals that compose the conitellations, and this we thall here explain.

Before we can become acquainted with the flars that Method of compole the contlellations, we must be provided with learning accurate celeftial charts, or a good planisphere, of such the contela fize that flars of the first and fecond magnitudes can be readily diffinguished on it. Having placed before us one of these charts, as that containing the north pole, or that part of the planifohere which contains the northern hemisphere, first find out the Great Bear, commonly called Charles's wain (Plate CCUCLXXI, fig. Fig. 14. 14). It may be easily known, as it forms one of the most remarkable groupes in the heavens, confifting of feveral stars of the fecond magnitude, four of which are arranged in fuch a manner as to reprefent an irregular fquare, and the other three a prolongation in the form of a very obtuse scalene triangle. Belides, by examining the figure of thefe feven stars, as exhibited in the chart, we shall easily distinguish those in the heavens which correspond to them. When we have made ourfelves acquainted with these seven principal stars, we examine on the chart the configuration of the neighbouring stars, which belong to the great bear; and thence learn to diffinguith the other lefs confiderable

flars which compose that constellation. After knowing the Great Bear, we may eafily proceed to the Leffer Bear; for nothing will be necessary but to draw, as may be feen in fig. 15. a ftraight line Fig. 15. through the two anterior stars of the square of the Great Bear, or the two farthest distant from the tail; this line will pass very near the polar star, a star of the second magnitude, and the only one of that fize in a pretty large space. At a little distance from it, there are two other flars of the fecond and third magnitudes, which, with four more of a less fize, form a figure somewhat fimilar to that of the Great Bear, but fmaller. This is what is called the Leffer Bear; and we may learn, in the fame manner as before, to dislinguish the stars which

compose it.

Now if a firaight line be drawn through those flars of the Great Bear, nearest to the tail, and through the polar star, it will conduct us to a very remarkable group of five stars arranged nearly in this form M (fee fig. 16.) These are the constellation of Caf-Fig. 16. hopeia, in which a very brilliant new thar appeared in 1572; though foon after it became fainter, and at length

disappeared.

If a line, perpendicular to the above line, be next drawn through this constellation, it will conduct, on the one fide, to a very beautiful flar called Algenib, which is in the back of Perfeus; and in the other, to the constellation of the Swan (fig. 17.), remarkable by a star Fig. 17. of the first magnitude. Near Perseus is the brilliant flar of the Goat, called Capella, which is of the first magnitude, and forms part of the constellation of Auriga.

After this, if a ttraight line be drawn through the last two stars of the tail of the Great Bear, we tha'l come to the neighbourhood of Archurus, one of the most brilliant stars in the heavens, which forms part of the con-

Rellation of Booter (fig. 18.)

In this manner we may fuccessively employ the knowledge which we have obtained of the flars of one conflellation, to enable us to find out the neighbouring

Frend's

24 eat recreations.

ones,

Aftronomi- ones. We shall not enlarge farther on this method; cal Recrea for it may be easily conceived, that we cannot proceed in this manner through the whole heavens; but any person of ingenuity may thus in the course of a few nights, learn to know a great part of the heavens, or at

Brewster's

any rate the principal flars and conftellations. In the article ASTRONOMY we have described the usual aftiometer infiruments for afcertaining the fituation, diffances, &c. of the heavenly bodies. We must here add an account of an ingenious instrument for finding the rising and fetting of the flars and planets, and their position in the heavens. This inftrument is called an aftrometer, and was originally invented by M. Jurat. An improved astrometer has been lately contrived by Dr David Brewfter, and is thus described by him in Nicholson's Journal for May 1807, vol. xvi.

"This aftrometer, represented in Plate CCCCLXXI. fig. 19. confifts of four divided circumferences. The innermost of these is moveable round the centre A, and is divided into 24 hours, which are again fubdivided into quarters and minutes, when the circle is fufficiently large. The fecond circumference is composed of four quadrants of declination, divided by means of a table of femidiurnal arcs, adapted to the latitude of the place. In order to divide these quadrants, move the horary circle, so that 12 o'clock noon may be exactly opposite to the index B: then fince the flar is in the equator, and its declination o, when the femidiurnal arc is VI hours, the zero of the scales of declination will be opposite VI, VI. and as the declination of a ftar is equal to the colatitude of the place, when its femidiurnal arc is o, or when it just comes to the fouth point of the horizon, without rifing above it, the degree of declination at the other extremity of the quadrant, or opposite XII. XII. will be the same as the colatitude of the place, which in the present case is 39°, the latitude of the place being sup-posed 51° North. The intermediate degrees of declination are then to be laid down from a table of femidiurnal arcs, by placing the degree of declination opposite to the arc to which it corresponds; thus the 100 of fouth declination must stand opposite Vh 13' in the afternoon, and VIh 47' in the morning, because a declination of 100 fouth gives a femidiurnal arc of Vh 13'. When the scales of declination are thus completed, the instrument is ready for shewing the rising and setting of the stars. For this purpose move the horary circle till the index B points to the time of the star's fouthing; thus, opposite to the star's declination in the scale C, if the declination is fouth, or in the scale D if it is north, will be found the time of its rifing above the horizon; and the degree of declination on the scales E and F, according as it is fouth or north, will point out on the horary circle the time of the flar fetting. If the rifing of the star is known from observation, bring its declination to the time of its rifing on the circle of hours, and the index B will point out the time at which it paffed the meridian; and its declination on the opposite scale will indicate the time when it descends below the horizon. In the fame way, from the time of the flar fetting, we may determine the time when it rifes and comes to the meridian.

"The two exterior circles are added to the aftrometer, for the purpose of finding the position of the stars and planets in the heavens. The outermost of these is divided into 360 equal parts; and the other, which is a scale of amplitudes, is so formed, that the amplitude of Chemics any of the heavenly bodies may be exactly opposite the Recreacorresponding degree of declination in the adjacent circle. The degree of fouth declination, for instance, in the latitude of 510, corresponds with an amplitude of 150 20', consequently the 150 of amplitude must be nearly opposite to the 10th degree of declination; so that by a table of amplitudes the other points of the scale may be easily determined. The astrometer is also furnished with a moveable index MN, which carries at its extremities two vertical fights mn, in a straight line with the centre A. The instrument being thus completed, let it be required to find the planet Saturn. when his declination is 150 north, and the time of his fouthing 3h 30' in the morning. The times of his rifing and fetting will be found to be 7h 15', and 10h 45', and his amplitude 240 north. Then thift the moveable index till the fide of it which points to the centre is exactly above 240 of the exterior circle in the north-east quadrant, and when the line AB is placed in the meridian, the two fight holes will be directed to the point of the horizon where Saturn will be feen at 7h 15, the time of his rifing. The fame being done in the northwest quadrant, the point of the horizon where the planet fets will likewise be determined. In the same way the position of the fixed stars, and the other planets, may be eafily discovered.

"If it is required to find the name of any particular flar, that is observed in the heavens, place the affrometer due north and fouth, and when the flar is near the horizon, either at its rifing or fetting, shift the moveable index till the two fights point to the flar. The fight of the index will then point out, on the exterior circle. the star's amplitude. With this amplitude enter the third scale from the centre, and find the declination of the star in the second circle. Shift the moveable horary circle till the time at which the observation is made be opposite to the star's declination, and the index B will point to the time at which it passes the meridian. The difference between the time of the flar's fouthing, and 12 o'clock noon, converted into degrees of the equator, and added to the right afcension of the fun if the star comes to the meridian after the fun, but fubtracted from it if the flar fouths before the fun, will give the right ascension of the star. With the right ascension and declination thus found, enter a table of the right ascensions and declination of the principal fixed stars, and you will difcover the name of the star which corresponds with these numbers. The meridian altitudes of the heavenly bodies may always be found by counting the number of degrees between their declination and the index B. The aftrometer may be employed in the folution of various other problems; but the application of it to other purpoles is left to the ingenuity of the young aftronomer."

#### SECT. IV. Recreations and Contrivances relating to CHEMISTRY.

THE experiments which illustrate the principles of Chemical Chemistry, afford abundant examples of scientific re-recreations, creations. We cannot here enter on this extensive field, as we have already illustrated the subject very fully under the article CHEMISTRY. In the present section, therefore, we shall do little more than enumerate some of the more firiking experiments, referring our readers

Chemical for a description and explanation of them, to the above Recrea- article, and to the principal elementary works on modern chemistry, especially the Epitome of Chemistry, by

> ing enumeration will chiefly refer. Among the more curious and interesting experiments by wrapping nitrate of copper, flightly moittened, in a theet of tin foil (Henry, p. 15.); the reflection of heat and cold from the furface of concave mirrors (CHEMIS-TRY, No 170, or Henry, p. 28.); the artificial production of great degrees of cold, fo as to freeze mercury and alcohol (CHEMISTRY, 274, or Henry, p. 36.); the experiments of Dr Herschel, thewing that the fun emits rays which heat without illuminating; others which illuminate without heating; and others which neither illuminate nor heat, but produce evident chemical changes (CHEMISTRY, 172, or Henry, p. 48.); the combuftion of charcoal, phosphorus, and iron wires, in oxygenous gas, and more especially the combustion of metals in a combined flream of oxygen and hydrogen gafes (Henry, p. 60.); the exploitin of hydrogenous and oxygenous gafes, and confequent production of water (CHEMISTRY, 382, and Henry, p. 70.); the decomposition of water (CHEMISTRY, 384, or Henry, p. 78.); the effect of alkalies and acids in changing the colour of blue vegetable infulions to green and red (Henry, p. 102.); the combuffion produced by mixing nitric acid with effential oils, or other combustibles (CHEMISTRY, 512, and Henry, p. 1 (1.); the combuttion produced by throwing metallic particles into oxygenized muriatic acid gas (Henry, p. 181.); the deflagration of hyperoxygenized muriate of potalh, with phosphorus and other combustibles (CHEMISTRY, 962, et fe 1. or Henry, p. 187.); the production of phosphorated hydrogen gas, by throwing phofphuret of lime into water (Henry, p. 197.); and the decomposition of metallic folutions, so as to procure the metals in a pure or metallic flate.

> in the article CHEMISTRY, and in Dr Henry's Epitome, we shall here describe two of the most curious instances of what have been called metallic vegetations.

> The first of these which we shall notice is called Arbor Diana, the tree of Diana, or the filver tree, as it is produced by decomposing a solution of silver, so that the filver is exhibited in the metallic flate, and in an arborefeent form. There are two methods of producing the arbor Diance, one by Homberg, and the other by Beaumé.

> According to Homberg's method, an amalgam is to be formed by rubbing a quarter of an ounce of very pure mercury, and half an ounce of fine filver reduced to leaves or filings, by triturating them together in a porphyry mortar, with an iron pettle. This amalgam is to be dissolved in four ounces of the purest nitric acid of a moderate flrength, and the folution is to be diluted with about 24 ounces of diffilled water. An ounce of this liquor is to be poured into a glass, and a small piece of a fimilar amalgam of mercury and filver, of the confiltence of butter, is to be introduced. Soon after there may be feen rifing from the ball of amalgam a multitude of fmall thining filaments, which visibly increde in number and fize, and throw out branches, fo as to form a kind of shrub.

> Beaumé's method is as follows .- Six parts of a folution of filver in nitric acid, and four of a folution of VOL. XVIII. Part II.

mercury in the fame acid, both in a flate of faturation, are to be mixed together, and a finall quantity of diffilled water to be added. This mixture is to be poured into a conical glats veffel, containing fix parts of an amalgent made of leven parts of mercury and one of filver. At the end of some hours there will appear on the furface of the amalgam a metallic precipitate in the form of a vegetation.

The other experiment which we have to defcribe is Tres of that of producing a leaden tree, which, as it may be lead performed on a large feale, and at a trifling expense, is preferable to the former. The method of effecting this decomposition which we have found most effectual, is the following.

Diffolye in diffilled or pure rain water a quantity of acetate of lead (fugar of lead), not fufficient to faturate it; viz. in the proportion of four furuples of the falt to the English pint of water. When the folution has become clear, pour it into a cylindrical vessel, or a glass wine decanter of confiderable fize, and introduce into it an irregular piece of pure bright zinc, suspended by a ftring, or a piece of brass wire. In the course of a few hours, the zinc will be covered with a dufky grayith mass, having the appearance of moss, and from this are gradually fhot out plates or leaves of a brilliant metallic substance. These will extend themselves towards the bottom of the veffel, and will form trunks, branches, and leaves, fo as to refemble a leaden tree fuspended by its roots from a mosly hill. In this way we have produced a vegetation that has nearly filled a cylindrical glass-jar of a foot in height, and four or five inches in diameter.

# SECT. V. Recreations and Contrivances relating to

THE subject of electricity, like that of chemistry, afwe have given a large collection in our treatife on ELEC-TRICITY, and shall here only enumerate the more striking experiments.

Thefe are, the phenomena produced by paper when excited by caoutchouc or Indian rubber (fee ELECTRICITY, Part I. Chap. 3.); the experiments of the dancingfigures, dancing-balls, illustrating electrical attraction and repulsion; the electrical orrery, and electrified cotton, illustrating the action of points; the electrified (pider; the magic picture, electrical jack, felf-moving wheel, spiral tube, luminous conductor, aurora borcalis, electrified can and chain, and the thunder-house.

### SECT. VI. Amufements and Contrivances relating to GALVANISM.

The subject of galvanism, though so nearly allied to electricity, is capable of fupplying still more extraordi. Galvan nary experiments, many of which are often witneffed ments with surprise and admiration. Many of these have been related in our treatise of Galvanism. The most striking of these are, the muscular contractions produced in dead animals, especially thuse of Aldini (GALVANISM, No 35.); the combustion of charcoal (No 42.); the deflagration of metals (N° 43.); and the decomposition of water (N° 44.). The experiments on deflagrating the metals, and on other perfect conductors, succeed beit with a trough of very large plates of zinc and copper; but experiments on as imal bodies, and other imperfect con-

Arbor Diana.

Geograph - ductors, are sell effectual in proportion to the number

SECT. VII. Recreations and Contrivances relating to

Geog aphitions.

SOME of the problems on the globes, and the use of cal recreating the analemma engraved on Plate CCXXXV. conflicte the principal recreations and contrivances relating to geography. To these we shall add only an easy method of approximating to the third problem on the terreftrial globe, (ice GEOGRAPHY, No 67.), namely, having the hour at any place given, to find what hour it is at other places on the earth.

Geographigium. Fig. 20.

Fig. 20. confits of an outer circle graduated at the edge into 96 equal parts, reprefenting the 24 hours and their quarters, and is marked with two fets of hours from I. to XII. each; the XII. at the top of the figure representing noon, and the XII. at the bottom, midnight. The hours on the right hand are of course those of the evening, and those on the left are morning hours. About the centre of this large circle there is moveable a circular plate, having the figure of a globe in the middle, and having the circumference divided into 360 equal parts, comprehending fo many degrees. The diameter marked o. 180, represents the meridian of London. It has the names of the principal places on the earth marked at its edge. Of these London is the principal, and is engraved in capitals. Now, by means of this contrivance, if the time at any one of these places be given, we can find very nearly the time at the other places marked on the inner circle. Thus, suppose it is X. o'clock in the forenoon at London, to find the hour at the other places in the inner circle, place the word LONDON opposite X. on the left hand; then we shall find that at Rome it is a quarter before XI.; at Berlin it is about XI.; at Stockholm about 20 minutes after XI.; at St Peter/burgh it is noon; at Bombay it is nearly III. in the afternoon; at Pekin it is nearly VI. in the evening; at Botany Bay it is about VIII. in the evening; at New Zealand it is X. at night; at Mexico it is about III. in the morning; at Philadelphia it is V.; and at the Leeward Islands about VI. in the morning.

Gualtier's

The Abbé Gualtier has contrived a game, by which game of he shows how geography may be taught to young peo-geography, ple by means of a set of toys. This method appears to be very ingenious, and is much extolled by those who are acquainted with it. As we have not been able to procure the apparatus, we cannot describe the method,

according to which the game is conducted.

Edge-

Mr Edgeworth proposes that geography should be taught to young people by means of a large globe made of filk, marked with the proper meridians and parallels, to be occasionally inflated; and that the places met with in reading should be laid down according to their proper longitudes and latitudes as they occur. See Practical Education, 8vo, vol. ii. p. 230.

SECT. VIII. Recreations and Contrivances relating to

Geometri-Kons.

FROM among the numerous problems which have cal recrea- been contrived by geometricians, we shall select a few of the most simple and curious.

To divide a Rectangular Gnomon into four equal and Geometrihmilar Gnomons. Suppose we have the rectangular figure A, B, C, D, tions.

E, F, fig. 21. (A); it is required to divide it into four Fig. 21.

equal and fimilar rectangular figures.

On examining this figure, we find that the fides AB and BC are equal, and that if the fides AF and CD were produced, they would, by meeting, complete the iquare, of which the gnomon is evidently a part. The figure therefore forms three-fourths of a iquare, and may be divided into three squares, AHEF, EHBG, and DEGC. Each of these squares may in like manner be divided into four, as represented by the dotted lines. Thus we have the whole gnomon divided into 12 equal squares, and it is easy to see how from this division we may form four figures, each conflituting three-fourths of a fquare, and confequently fimilar to the original figure.

From four unequal Triangles, of which three must be Right-angled, to form a Square.

As the triangles with which this problem is usually To form a performed, are generally made mechanically, by cutting square of them from a fquare already formed, we shall for the four unmore easy folution, follow the same method in our first equal triillustration. The square A, B, C, D, fig. 22. is divi-Fig. 22. ded into the four triangles E, F, G, H, of which E, F, and G, are evidently right-angled triangles, while H is

If these triangles were separate, it would appear very difficult to unite them, so as to form a square. This may be done, however, by reflecting that three of the angles of the square must be formed by the angles of the right-angled triangles, so that these must first be placed as in the figure, while the scalene triangle fills up the vacant space, and by its most acute angle contributes with the most acute angles of the two other large triangles, to form the remaining right angle of the

These triangles may be constructed geometrically, without forming them immediately out of a fquare. For this purpose the following proportions may be employed. Two of the right-angled triangles must have one of the fides about the right angle of the same length in both. The other fide about the right angle may be in one, two-thirds of the first fide in the same triangle, while in the other it may be one half. In the third right-angled triangle, one of the fides containing the right angle must, in the present case, be one-third, and the other one-half of the larger fide containing the right angle in the two former triangles. Having these three triangles formed, the hypothenuses of which are evidently determined by the length of the fides containing the right angles, we may eafily construct the remaining triangle from the hypothenules of the three triangles aiready formed, according to the 22d proposition of the first book of Euclid.

To illustrate this by numbers, let us suppose that the fide of the fquare to be formed is = four inches. One of the triangles, as E, will have its longer fide = four inches, its fhorter = three inches, and its hypothenuse = five inches. The second triangle, as F, will have its

<sup>(</sup>A) We have denominated this figure a gnomon, because it resembles, in its outline, that part of a parallelogram which is diffinguished by the name of gnomon in the second definition of the second book of Euclid's Elements.

Recrea-

Geometri- longer fide = four inches, its shorter = two inches, and its hypothenule = fquare root of 20 (4.472135); and the third triangle, as G, will have its longer fide = two inches, its thorter = one inch, and its hypothenuse = square root of 5 (2.236068): the sides of the remaining triangle will be respectively five inches, 4.47213; inches, and 2.236068 inches.

To form a fquare of Fig. 23.

Method of

an oval.

Fig. 24.

To form a Square of five equal Squares.

Divide one fide of each of four of the fquares, as A, B, C, D, (fig. 23, no 1, and 2,) into two equal parts, and from one of the angles adjacent to the opposite side draw a ffraight line to the point of division; then cut these four squares in the direction of that line, by which means each of them will be divided into a trapezium and a triangle, as feen fig. 23. nº 1.

Laftly, arrange these four trapeziums and these four triangles around the whole fquare E, as feen fig. 23. no 2. and you will have a fourre evidently equal to the five

To describe an Ellipsis or Oval geometrically.

deferibing The geometrical oval is a curve with two unequal axes, and having in its greater axis two points to fituated, that if lines be drawn to these two points, from each point of the circumference, the fum of these two lines will be always the same. See Conic Sections.

Let AB (fig. 24.) be the greater axis of the ellipfis to be described; and let DE, interlecting it at right angles, and dividing it into two equal parts, be the leffer axis, which is also divided into two equal parts at C; from the point D as a centre, with a radius = AC, describe an arc of a circle, cutting the greater axis in F and f; these two points are what are called the foci. Fix in each of these a pin, or if you operate on the ground, a very ftraight peg; then take a thread or a chord, if you mean to describe the figure on the ground, having its two ends tied together, and in length equal to the line AB, plus the distance Ff; place it round the pins or pegs Ff; then stretch it as seen at FGf, and with a pencil, or sharp-pointed instrument, make it move round from B, through D, A, and E, till it return again to B. The curve described by the pencil on paper, or on the ground, by any tharp inftrument, during a whole revolution, will be the curve required.

This ellipsis is sometimes called the gardener's oval, because, when gardeners describe that figure, they em-

ploy this method.

An oval figure approximating to the ellipse, may be described at one sweep of the compasses, by wrapping the paper on which it is to be described round a cylindrical furface. If a circle be described upon the paper thus placed, afforming any point as a centre, it is evident that when the paper is extended on a plain furface, we shall have an oval figure, the shorter diameter of which will be in the direction of the axis of the cylinder on which the oval was deferibed. This figure, however, is by no means an accurate oval, though it may ferve very well as the border of a drawing, or for fimilar purpoles, where great accuracy is not required.

In no science are amusing contrivances more requifite to facilitate the progress of the young pupil than in geometry. We are therefore disposed to regard, with particular attention, every attempt to illustrate and render popular the elements of this science. We may say

with Mr Edgeworth, that though there is certainly no Geometriroyal road to geometry, the way may be rendered eafy and pleafant by timely preparations for the journey. Without some previous knowledge of the country, or of its peculiar language, we can fearcely expect that our young traveller should advance with facility or pleafure. Young people should, from their "earliest years, be accustomed to what are commonly called the regular folids, viz. the tetrahedron, or regular four-fided folid; the cube, or regular fix-fided folid; the octahedron, or regular eight-fided folid; the dodecahedron, or regular folid. These may be formed of card or wood, and Mr Don, an ingenious mathematician of Brittol, has constructed models of these and other mathematical figures, and explained them in an Effay on Mechanical Geometry. Children fhould also be accustomed to the figures in mathematical diagrams. To these thould be added their respective names, and the whole language of the fcience thould be rendered as familiar as possible \*. \* See Edge-

We have lately met with a contrivance for rendering worth's familiar to children the terms of geometry by means of Education, an easy trick. This contrivance is called Le Petit Eu-chap xviclid, and confifts of two circular cards which are repre- 31 fented at fig. 25. Plate CCCCLXXII, and fig. 26. Le Petit Plate CCCCLXXIII. Each of these circles is divided Eig. 25. into eight compartments, marked 1, 2, 3, 4, 5, 6, 7, 8, and within each compartment are represented several mathematical figures or diagrams. In the centre of the card reprefented at fig. 25, is the word quellion, and in that at fig. 26. the word answer. On the latter the figures are diffinguithed by numbers, referring to their

explanations in the following table.

1. The cone. 2. Curve line. 3. Quadrant. 4. A point. c. Dotted cofine. 6. Dotted fecant. 7. Cube.

8. Pyramid. Q. A perpendicular. 10. Acute angled triangle.

11. Decagon. 12. Hexagon. 13. Square.

14. Right angled triangle.

16. Circular segment. 17. An angle. 18. Dotted length.

19. Parallelopipedon. 20. Dotted radius, 21. A fector.

22. Heptagon. 23. The base. 24. Dotted abscisse.

25. Itolceles triangle. 26. Dotted line subtending

28. Enneagon, or regular

4 A 2

29. The foci of an ellipfe.

31. Rhomboid. 32. Equilateral triangle.

33. Pentagon. 34. Spindle.

35. A scalene triangle. 36. Parallelogram. 37. Obtuse-angled triangle.

38. Dotted height.

39. Hyperbola. 40. Dotted conjugate dia-

meter. 41. Dotted hypothenufc.

42. Dotted parameter. 43. Rhombus.

44. Dotted diameter. 45. Dotted fine.

46. An obtuse angle. 47. Parabola.

49. External angle.

51. Straight line,

53. Dotted diagonal. 54. Circle.

55. Dotted transverse diameter, 56. Prifm.

Contrivances for the ftudy of geometry.

Geometri- Nº

cal Recreations. 57. Dotted versed fine. 59. Alternate angles, 59. A semicircle.

60. Dotted chord.

N°
62. A fpherical frustum.
63. Vertical or opposite an-

64. An acute angle.

To form a trick with these cards, the teacher is to hold the question card, and the pupil the answer card. The teacher is to think of a figure in any one of his compartments, and to mention to the pupil both the number of the compartment in the question, and that in the answer card, on which the figure is found. The pupil is then to begin with the first or outmost diagram on the left hand of the compartment in his own card, where the figure thought on is said to be contained, and to count from this down the left-hand row towards the centre, and thence, if necessary, from the outmost diagram on the right hand of the same compartment towards the centre, till his counting reaches the number of the compartment in the question card, where the figure was at first found.

For example, let us suppose that the teacher thinks on a figure in the compartment of his gard marked 2, and that he finds the same figure in the compartment of the answer card which is marked 6. The learner beginning to count from the first figure on the left hand in his fixth compartment, viz. that marked 48, comes immediately to the figure marked 30, which is that thought of by the teacher, and proves to be an octagon. Again, if the figure thought on be found in the fixth compartment of the queltion card, and in the fifth of the answer card, the learner beginning with the figure marked 15, and passing fuccessively to 22, 24, 57, and 49, comes for his fixth place to 36, the figure thought

of, which is a parallelogram.

The defign of this contrivance is ingenious, but its execution, at leaft in the copy which we have feen, is extremely faulty. Many of the terms are mifprinted, forne of them inaccurate, and the explanation fearcely intelligible. We have endeavoured to rectify these defects, and trust we have fucceeded.

Sect. IX. Recreations and Contrivances relating to HYDRODYNAMICS.

IIydr ftatic

IN our treatife on HYDRODYNAMICS, under which head we have included HYDROSTATICS and HYDRAU-LICS, we have described several entertaining experiments and ufeful contrivances, and explained them according to hydrostatical principles. Thus, at No 49 and 50, we have explained the hydroflatic paradox, showing that the pressure on the bottoms of vessels filled with fluids does not depend on the quantity of fluid which they contain, but on its altitude; at No 51, we have illustrated the upward pressure of fluids by the hydrostatic bellows; at N° 54 and 55, we have explained and illustrated the use of the syphon; at N° 112 and 113, we have shown how capillary attraction and the attraction of cohesion may be illustrated by experiment; in Chap. III. of Part III. we have described the various machines employed for raifing water, such as pumps, fire engines, Archimede's forcw, the Persi n wheel, &cc. and explained their action: at No 355, we have described Bramah's 10 dre latic prefs, and at No 356, et feq. we have described and explained the elepsydra Hydrostatic with its varieties. The following amusing experiments Recreations.

To confirmed a weffel which, when filled to a certain Tantain's height with any tiquor, shall retain the liquor, but shall cup, suffer the whole to escape when filled with the same shall be for the above that height.

Let there be a metallic veffel, as ABCD, fig. 27, Fig. 27, divided into two parts by a partition Ff, having in the middle a finall round hole, as at M, to receive a tube MS, about two lines in diameter, fo that the lower orifice M may defeemd a little below the partition. This tube is open at both ends, but is to be covered with another a little larger, clofed at the top, and having on one fide, at the bottom, an aperture, fo that when water is poured into the veffel, it may force its way between the two tubes, and rife to the upper orifice S, of the inner tube. This mechanism mult be concealed by a small figure of a man in the attitude of stooping to drink, which we may call Tantaha. This figure mult have its lips a little above the orifice S.

If water be poured into this veffel, fo long as it does not ascend above the orifice S, it will be retained; but as soon as it gets above this orifice, so as to touch the lips of Tantalus, it will begin to run off, the tubes act ing in the manner of a fyphon, and carrying off the whole of the water into the lower cavity, which ought to have in its fide, near the partition, a small aperture for allowing the air which it contains to escape, while

the water supplies its place.

This machine may be rendered fill more amuling by confiruding the fmall figure of Tantalus in such a manner, that when the water has attained its utmost height, it shall cause the head of the figure to move, to that its lips may approach the sluid, thus representing the gestures of Tantalus endeavouring to eatch the water to quench his thirst.

To construct a vessel which, while standing upright, retains the liquor poured into it; but if inclined, as for the purpose of drinking, immediately suffers it to escape.

Let a hole be pierced in the bottom or fide of the wessel to which you are desirous of giving this property, and insert in it the longer branch of a sphon, the other extremity of which must reach nearly to the bottom, as seen sign 283, then fill the wessel with any silpour as far as sign 283, the lower side of the bent part of the sphon; it is evident that when inclined, and applied to the mouth, this movement will cause the furface of the water to rise above the bending, and from the nature of the syphon the liquor will begin to slow off; and if the vessel is not restored to its former position, will continue doing for till it becomes empty.

This artifice might be concealed by means of a dou- Fig. 29 ble cup, as appears at fig. 29.; for the fyphon  $abc_b$ , placed between the two fides, will produce the fame effect. If the welfel be properly preferred to the perfon whom you are definous of deceiving, that is to lay, in fuch a manner as to make him apply his lips to the fide b, the fummit of the fyphon, the inclination of the liquor will caude it to rife above that furnish; and it will immediately cleape at c. Those perfons, he wever, who are acquainted with the artifice will apply their lips to the othyr fide, and not meet with the fame disappointment.

Hydroftatic Method of confiructing an hydraulic machine, in which a Recreations.

Fig. 30.

bird appears to drink up all the water that footts up through a pipe, and falls into a bason.

Let A B D C, fig. 30, be a veffel, divided into two parts by an horizontal partition E F; and let the upper cavity be divided into two parts also by a vertical partition G H. A communication is formed between the upper cavity B F, and the lower one E C, by a tube L. M., which proceeds from the lower partition, and descends almost to the bottom DC. A similar communication is formed between the lower eavity E.C. and the upper one A G, by the tube I K, which, rifing from the horizontal partition E F, proceeds nearly to the top A B. A third tube, terminating at the upper extremity in a very small aperture, descends nearly to the partition E. F. and paffes through the centre of a bason R S. intended to receive the water which issues from it. Near the edge of this bason is a bird with its bill immerfed in it; and through the body of the bird paffes a bent Syphon O P, the aperture of which, P, is much lower than the aperture O. Such is the construction of this machine, the use of which is as follows.

Fill the two upper cavities with water through two holes, made for the purpose in the fides of the vessel, and which must be afterwards shut. It may be easily feen that the water in the cavity A G ought not to rife above the orifice K of the pipe KI. If the cock adapted to the pipe L M be then opened, the water of the upper cavity H F will flow into the lower cavity, where it will compress the air, and make it pass through the pipe K I into the cavity A G; in this cavity it will compress the air which is above it, and the air pressing upon it, will force it to fpout up through the pipe NO, from whence it will fall down into the bason.

But at the same time that the water flows from the cavity B G, into the lower one, the air will become rarefied in the upper part of that cavity; hence, as the weight of the atmosphere will act on the water, already poured into the bason through the orifice O of the afcending pipe NO, the water will flow through the bent pipe OSP, into the fame cavity BG; and this motion, when once established, will continue as long as there is any water in the cavity A G.

SECT. X. Recreations and Contrivances relating to MAGNETISM.

Magnetic THE attracting and repelling power of the opposite recreations poles of a magnet, have furnished the writers on scientific recreations with a great variety of entertaining experiments. In our treatife on MAGNETISM, we have felefted a few of thefe, viz, the communicating piece of money (MAGNETISM, N° 39); the magnetic table (N° 4); the mulferious vanteth (N° 41); the magnetic dial (N° 42); and the divining circles (N° 43). We shall here describe a sew other interesting experiments, and refer such of our readers as with for a greater variety of their amusements, to the original work of Ozanam already mentioned in No 3, or the Rat and Recreations of Dr Hooper, and to the 51st part of the En yelopédie Methodique, containing Annual on no des Sciences, with the plates on Amufemens de l'hufique, in the 42d part

The dextrous Painter.

Provide two fmall boxes, as.M and N (fig. 31.) four

inches wide, and four inches and a half long. Let the Magnetic box M be half an inch deep, and N two thirds of an Recrea-

inch. They must both open with hinges, and shut with a clasp. Have four small pieces of light wood (figs. 32, 33, 34, 35.) of the same fize with the inside of the Fig. 32, 33, box M, (fig. 31.) and about one third of an inch thick, 34, 35. In each of these let there be a groove, as, A B, E F, C D, G H; these grooves must be in the middle, and parallel to two of the fides. In each of these grooves place a itrong artificial magnet, as fig. 36. The poles of these magnets must be properly disposed with regard to the figures that are to be painted on the boards; as is expressed in the plate. Cover the bars with paper to prevent their being feen; but take care, in palling it on, not to wet the bars, as they will be rufted, and thus their virtue will be confiderably impaired. When you have painted such subjects as you choose, you may cover them with a very thin clear glass. At the centre of the box N, place a pivot, (fig. 37.) on which a fmall circle of pasteboard O P Q R (fig. 38.) is to turn quite free. Under this must be a touched needle S. Divide this circle into four parts, which are to be disposed with regard to the poles of the needle, as is expressed in the figure. In these four divisions paint the same subjects as are on the four boards, but reduced to a finaller compass. Cover the infide of the top of this box with a paper, M, (fee fig. 31.) in which must be an opening Fig. 31. D, at about half an incl from the centre of the box, that you may perceive fuccessively, the four small pictures on the pasteboard circle just mentioned. This opening is to ferve as the cloth on which the little painter is supposed to draw one of the pictures. Cover the top of the box with a thin glass. Then give the first box to any person, and tell him to place any one of the four pictures in it privately, and when he has closed it. to give it to you, then place the other box over it, when the moveable circle, with the needle, will turn till it comes in the same position with the bar in the first box. It will then appear that the little dextrous painter has already copied the picture that is enclosed in the first

The Cylindric Oracle.

Provide a hollow cylinder about fix inches high, and Cylindric three wide, as A B (fig. 39.) Its cover C D must be made. made to fix on in any position. On one side of this box Fig. 39. or cylinder, let there be a groove, nearly of the fame length with that fide; in which place a fmall tleel bar (fig. 40.) that is flrongly impregnated, with the north pole next to the bottom of the cylinder. On the upper fide of the cylinder deferibe a circle, and divide it into ten equal parts, in which are to be written the numbers from 1 to 10, as is expressed in fig. 41. Place a pivot at the centre of this circle, and have ready a magnetic needle. Then provide a bag in which there are feveral divisions. In each of these divisions put a number of papers, on which the fame or fimilar queftions are to be written. In the cylinder put feveral different answers to each question, and seal them up in the manner of small letters. On each of these letters or answers is to be written one of the numbers of the dial or circle at the top of the box. You are supposed to know the number of answers to each question. Then offer one of the divisions of the bag, (observing which division it is) to any person, and desire him to have were

The dexter.

of the same work.

1 g - 31.

Magnetic of the papers. Next put the top on the cylinder, with Recrea- that number which is written on the answer directly over the bar. Then defire the person who drew the question to observe the number at which the needle stands, and to search in the box for a paper of the same number, which he will find to contain the answer .--The experiment may be repeated by offering another division of the bag to the same, or another person; and placing the number that corresponds to the answer over the magnetic bar, proceeding as before.

It is easy to conceive several answers to the same question. For example, suppose the question to be, Is

it proper for me to marry ? Anf. 1. While you are young, not yet; when you are

old, not at all.

2. Marry in hafte, and repent at leifure.

3. No. if you are apt to be out of humour with yourfelf; for then you will have two perfons to quarrel with. 4. Yes, if you are fure to get a good hufband (or

wife), for that is the greatest bleffing of life. But take care you are fure.

5. No, if the person you would marry is an angel; un-

less you would be content to live with the devil.

The en-Fix a common ewer, as A (fig. 42.) of about 12 chanted inches high, upon a square stand BC; on one side of ewer. which there must be a drawer D, of about four inches Fig. 42. fquare, and half an inch deep. In the ewer place a hol-Fig. 43. low tin cone inverted, as A B (fig. 43.) of about four inches and a half diameter at top, and two inches at bottom; and at the bottom of the ewer there must likewise be a hole of two inches diameter.

Upon the stand, at about an inch distance from the bottom of the ewer, and directly under the hole, place a fmall convex mirror H, of fuch convexity that a perfon's vifage, when viewed in it at about 15 inches dif-

tance, may not appear above 21 inches long.

Upon the stand likewise at the point I, place a pivot of half an inch high, on which must be fixed a touched needle R Q, inclosed in a circle of very thin pasteboard OS (fig. 44.) of five inches diameter. Divide this pasteboard into four parts, in each of which draw a fmall circle; and in three of these circles paint a head, as x, y, z, the dress of each of which is to be different; one, for example, having a turban, another a wig, and the other a woman's cap. Let that part which contains the face in each picture be cut out, and let the fourth circle be entirely cut out, as it is expressed in the figure. You must observe, that the poles of the needle are to be disposed in the same manner as in the figures.

Next provide four fmall frames of wood or patteboard, No 1, 2, 3, 4, each of the same fize with the infide of the drawer. On these frames must be painted the same figures as on the circular pasteboard, with this difference, that there must be no part of them cut out. Behind each of these pictures place a magnetic bar, in the same direction as is expressed in the figures; and cover them over with paper, that they may not be vifible. Matters being thus prepared, first place in the drawer the frame No 4, on which there is nothing painted. Then pour a finall quantity of water into the ewer, and defire the company to look into it, asking them if they fee their own figures as they are. Then take out the frame No 4, and give the three others to any one, defiring him to choose in which of those dreffes he would appear. Then put the frame with the

dress he has chosen in the drawer, and a moment after, Magnetic the person looking into the ewer will see his own face Recreafurrounded with the dress of that picture. For, the pasteboard circle (divided, as above described, into four parts, in three of which are painted the same figures as on three of the boards, and the fourth left blank) containing a magnetic needle, and the four boards having each a concealed magnet; therefore when one of them is put in the drawer under the ewer, the circle will correspond to the position of that magnet, and confequently the person looking into the top of the ewer will see his own face surrounded with the head dress of the figure in the drawer. This experiment, well performed, is highly entertaining. As the pasteboard circle can contain only three heads, you may have feveral fuch circles, but must then have several other frames:

and the ewer must be made to take off from the stand. Provide a wooden box, about 13 inches long and 7 The box of inches wide, as ABCD (fig. 45.). The cover of this Fig. 45. box should be as thin as possible. Have fix finall boxes or tablets, about an inch deep, all of the fame fize and form, as E. F. G. H. I. K. that they may indifcriminately go into fimilar holes made in the bottom of the large box. In each of these tablets is to be placed a finall magnetic bar, with its poles disposed as expressed

in the figure. Cover each of these tablets with a thin plate of one of the fix following metals, viz. gold, filver, copper, iron, pewter, and lead. Have also a magnetic perspective, at the end of which are to be two circles, one divided into fix equal parts, and the other into four (as in fig. 46.), from the centre of which there must be drawn an index N, whose point is to be placed to the north. Therefore, when you are on the fide CD of the box, and hold the perspective over any one of the tablets that are placed on the holes E, F, G, fo that the index drawn on the circle is perpendicular to the fide

pole directed to the letter that denotes the metal contained in that tablet. When you hold the perspective over one of the boxes placed in the holes H, I, K, fo that the index drawn on the circle is perpendicular to the fide CD, the fouth pole of the needle will, in like manner, express the name of the metal inclosed. If the under fide of any of the tablets be turned upwards; the needle will be flower in its motion, on account of the greater distance of the bar. The gold and filver will

AB, the needle in the perspective will have its south

ftill have the same direction; but the four other metals will be expressed by the letters on the interior circle. If any one of the metals be taken away, the needle will not then take any of the above directions, but naturally point to the north; and its motion will be much Therefore, give the box to any one, and leave him at liberty to dispose all the tablets in what manner and with what fide upwards he pleafes, and even to take any of them away. Then, by the aid of the perfpective, you may tell him immediately the name of the

metal on each tablet, and of that which he has taken

Conftruct a round box, ILNAI (fig. 47.), of eight The magor nine inches diameter, and half an inch deep. On itsnetic plabottom fix a circle of patheboard, on which draw the netarium, central circle A, and the feven furrounding circles Fig. 47. B, C, D, E, F, G, H. Divide the central circle into

feven equal parts by the lines AB, AC, AD, AE, AF, AG, AH, which must pass through the centres of the other

Fig. 44.

Fig. 48.

Magnetic other circles, and divide each of them into two equal Recrea- parts. Then divide the circumference of each of these circles into 14 equal parts, as in the figure. Have also another patteboard of the same figure, and divided in the same manner, which must turn freely in the box by means of an axis placed on a pivot; one end of which is to be in the centre of the circle A (fee fig. 48.). On each of the feven smaller circles at the bottom of the box, place a magnetic bar, two inches long, in the fame direction with the diameters of those circles, and their poles in the fituation expressed in the figure. There must be an index O (fig. 48.), like that of the hour hand of a dial, which is to be fixed on the axis of the central circle, and by which the pasteboard circle in the box may be turned about. There must also be a needle P, which must turn freely on the axis, without moving the circular pasteboard. In each of the seven divisions of the central circle write a different question; and in another circle, divided into 12 parts, write the names of the 12 months. In each of the feven circles write two answers to each question, observing that there must be but seven words in each answer, in the following manner. In the first division of the circle G (fig. 47.), which is opposite to the first question, write the first word of the first answer. In the second division of the next circle, write the fecond word, and fo on to the last word, which will be in the seventh division of the feventh circle.

> In the eighth division of the first circle, write the first word of the second answer; in the ninth division of the fecond circle, write the fecond word of the same answer, and so on to the 14th division of the seventh circle, which must contain the last word of that an-fwer. The fame must be done with all the seven questions, and to each of them must be assigned two anfwers, the words of which must be dispersed through the feven circles. At the centre of each of these circles place a pivot, and have two magneted needles, the pointed end of one of which must be north, and the other fouth, OR (fig. 48.). Now, the index of the central circle being directed to any one of the quettions, if you place one of the two magnetic needles on each of the feven leffer circles, they will fix themfelves according to the direction of the bars on the correspondent circles at the bottom of the box, and confequently point to the feven words which compose the answer. If you place one of the other needles on each circle, it will point to the words that are diametrically opposite to those of the first antwer; the north pole being in the place of the fouth pole of the other. Therefore, prefent this planetarium to any person, and desire him to choose one of the questions there written; and then set the index of the central circle to that question, putting one of the needles on each of the feven circles, turn it about; and when they all fettle, they will point to the feven words that compose the answer. The two answers may be one favourable and the other unfavourable, and the different needles will forve to diversify the answers when the experiment is repeated.

There may be also a moveable needle to place against the names of the months; and when the party has fixed upon a question, place that needle against the month in which he was born, which will give the bufiness a more mysterious air. On the centre of the large circle may be the figure of the fun; and on each of the feven smaller circles one of the characters of the principal planets. Magnetic This experiment, well executed, is one of the most entertaining produced by magnetifm.

Provide a box XY (fig. 49.), 18 inches long, nine wide, and two deep, the top of which is to flide off and The fagaon at the end Y. Towards the end X, describe a cir-cious swan, cle of fix inches diameter, around which are to be fixed Fig. 49. fix fmall vafes of wood or ivory, of an inch and a half high, and to each of them there must be a cover. At the end Y place an egg B, of ivory or fome fuch material, about three inches and a half high, with a cover that fluts by a hinge, and fastens with a spring. It must be fixed on the stand C, through which, as well as the bottom of the egg, and the part of the box directly underneath, there is a hole of one-third of an inch diameter. In this cavity place an ivory cylinder F, that can move freely, and which rifes or falls by means of the fpring R. You must have a thin copper bason A, of six inches diameter, which is to be placed on the centre of the circle next X, and confequently in the middle of the fix vales. Let a proper workman conflruct the movement expressed by fig. 50, which is composed of a quadrant G, that has 16 teeth, and is moveable about an axis in the fand H, that has an elbow, by which it is screwed to the bottom of the box at L. To the quadrant there must be joined the straight piece K. The horizontal wheel M has 24 teeth, and is supported by the piece S, which is screwed to the end of the box next Y. On the axis of this wheel place a brafs rod OP, five inches long; and at the part O place a large bar or horse shoe, of a semicircular form, and about two inches and a half diameter, ftrongly impregnated. The fleel rod V, takes at one end the teeth of the quadrant G, by the pinion F, and at the other end the wheel M, by the perpendicular wheel N, of 30 teeth; the two ends of this rod are supported by the two stands that hold the other pieces. Under the piece K, that joins to the quadrant, must be placed the fpring R, by which it is raised, and pushes up the cylinder that goes through the fland C into the egg. You must also have fix small cases as Y, Y, Y, Y, Y, Y. These must be of the same circumference with the cylinder in the stand, and round at their extremities; their length must be different, that when they are placed in the egg, and the lower end enters the hole in which is the cylinder, they may thrust it down more or lefs, when the top of the egg against which they press, is fastened down; and thereby lower the bar that is fixed to the end of the quadrant, and confequently by means of the pinion Z and wheels NM turn the horse shoe that is placed upon the axis of the last wheel. The exact length of these cases can be determined by trials only; but these trials may be made with round pieces of wood. In each of these cases place a different question, written on a flip of paper and rolled up, and in each of the vafes put the answer to one of the questions; as you will know, by trials, where the magnetic bar or horse shoe will stop. Lastly, Provide a small figure of a swan, of cork or enamel, in which fix a touched needle, of the largest fize of those commonly used in sewing.

Being thus prepared, offer a person the fix cases, and defire him to choose any one of them, and conceal the reft, or give them to different persons. He is then to open his case, read the question to himself, and return the case, after replacing the question. You then put

Fig. 48.

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Mechanic the cafe in the egg, and placing the fwan in the bason Ke rea- on the water, you tell the company the will foon discover in which of the vales the answer is contained. The fame experiment may be repeated with all the cafes.

> SECT. XI. Recreations and Contrivances relating to MECHANICS.

41 Mechanic

In the article MECHANICS, we have described some recreations, of the lighter experiments by which the principles of that science are illustrated, and have explained the construction and action of several ingenious and useful machines. In particular, we have described the windmill at No 428.; feveral carriages that are capable of moving without horses, at Nos. 455, 456, 457, and 458.; a carriage that cannot be overturned, at No 459.; Atwood's machine for illustrating the doctrines of accelerated and retarded motion, at No 460.; a machine for illustrating the theory of the wedge, at 467.; a machine for illustrating the effects of the centrifugal force in flattening the poles of the earth, at 468.; a machine for trying the strength of materials, at 469.; a machine in which all the mechanical powers are united, 470.; Fiddler's balance at 471.; an improvement in the balance, 472.; a machine for shewing the composition of forces, at 473.; Smeaton's machine for experiments on windmill fails, at 474.; Smeaton's machine for experiments on rotatory motion, at 475.; Prony's condenfer of forces, at 476.; a portable stone crane for loading and unloading carts, with feveral other cranes, at 477, 478, 479, 480, and 482; Bramali's jib for cranes, at 481.; the common worm jack, at 483.; a portable loading and unloading machine at 484.; Vaulone's pile engine at 485, and Bunce's pile engine at 486. We have also, in the articles ANDROIDES and AUTOMATON, described several ingenious contrivances for producing various animal motions by means of machinery, or what is commonly called clock-work, especially M. Vaucanfon's flute-player, and M. Kempell's chefs player.

In the present article we shall first present our readers with a few mechanical contrivances that may properly be called amufing; shall give the substance of an ingenious paper on the philosophical uses of a common watch; and shall conclude the fection with an account of Edgeworth's Panorganon, or universal machine for illustrating the effect of the mechanical powers.

To support a pail of water by a flick, only one half of which, or less, rests on the edge of a table.

Fig. 51.

Let AB (fig. 51.) be the top of the table, and CD the flick that is to support the bucket. Convey the bandle of the bucket over this stick, in such a manner, that it may rest on it in an inclined position, as IH, and let the middle of the bucket be a little within the edge of the table. That the whole apparatus may be fixed in this fituation, place another stick as GFE, with one end, G, refling againft the fide of the bucket at the bottom, while its middle F, rests against the opposite edge of the bucket at the top, and its other extremity E, rests against the first slick CD, in which a notch should be cut to retain it. By these means the bucket will remain fixed in that fituation, without inclining to either fide; and if not already full of water, it may be filled

with fafety, for its centre of gravity being in the verti- Mechanic cal line passing through the point H, which meets with Rec eathe table, it is evident that the pail is in the fame circumilances as if it were fulpended from that point of the table where the vertical line would meet the edge. It is also evident that the flick cannot flide along the table, nor move on its edge, without raising the centre of gravity of the bucket, and of the water which it contains. The heavier it is, therefore, the more stable will be its

According to this principle, various other tricks of the fame kind, which are generally proposed in books on mechanics, may be performed. For example, provide a bent hook DGF, as feen at the opposite end of the fame figure, and infert the part, FD, in the pipe of a key at D, which must be placed on the edge of a table; from the lower part of the hook fuspend a weight G, and dispose the whole in such a manner that the vertical line GD may be a little within the edge of the When this arrangement has been made, the weight will not fall; and the cafe will be the fame with the key, which, had it been placed alone in that situation, would perhaps have fallen; and this refolves the following mechanical problem, proposed in the form of a paradox : A body having a tendency to fall by its own weight, how to prevent it from falling, by adding to it a weight on the same side on which it tends to fall.

To construct a figure which, without any counterpoise, shall always raise itself upright, and preserve or regain that position, however it may be disturbed.

Let a figure, refembling a man, ape, &c. be formed of fome very light fubflance, fuch as the pith of elder, which is foft, and can eafily be cut into any required figure. Then provide a hemispherical base of some very heavy fubstance, such as lead. The half of a leaden bullet made very fmooth on the convex part will be very proper for this purpofe. If now the figure be cemented to the plain part of this hemisphere; in whatever position it may be placed it will rife upright as foon as it is left to itself; for the centre of gravity of its hemispherical base being in the axis, tends to approach the horizontal plain as much as possible. This it cannot attain till the axis becomes perpendicular to the horizon; but as the fmall figure, on account of the difproportion between its weight and that of the bafe, fcarcely deranges the latter from its place, the natural perpendicularity of the axis is eafily regained in all posi-

According to this principle were conflucted the fmall figures called Prustians, which some years ago conflituted one of the amusements of young people. They were formed into battalions, and being made to fall down by drawing a rod over them, immediately started up again as foon as it was removed. On the fame principle fcreens have been constructed, fo as to rife of themselves when they happen to be thrown

To make a body afcend along an inclined plane in confequence of its own gravity.

Let a body be constructed of wood, ivory, or some Fig. 52. fuch material, confifting of two equal right cones united

Mechanic by their bases, as EF (fig. 52.); and let two straight, Recrea- flat, smooth rulers, as AB, CD, be so placed as to join in an angle at the extremities A, C, and diverge towards B, D, where they must be a little elevated, so Fig. 52. that their edges may form a gently inclined plane. If now the double cone be placed on the inclining edges. pretty near the angle, it will roll fowards the elevated ends of the rulers, and thus appear to afcend; for the parts of the cone that rest on the rulers growing smaller as they go over a larger opening, and thus letting down

> cends, though the whole body feems to rife along the inclined plane. To infure the fuccess of this experiment, care must be taken that the height of the elevated ends of the rulers be lefs than the radius of the circle forming the

> the larger part of the body, the centre of gravity def-

base of the cones.

Explanation of the upright Position preserved by a Top or Tee-totum while it is revolving.

This is explained on the principle of centrifugal force, which teaches us that a body cannot move in a circular direction without making an effort to fly off from the centre; fo if it be confined by a string made fast in that centre, it will stretch the string in proportion as the circular motion is more rapid. See DYNAMICS. It is this centrifugal force of the parts of the top or tee-totum that preferves it in an upright position. The instrument being in motion, all its parts tend to fly off from the axis, and that with greater force the more rapid the revolution. Hence it follows, that these parts are like so many powers acting in a direction perpendicular to the axis. As, however, they are all equal, and pass rapidly round by the rotation, the instrument must be in equilibrio on its point of support, or the extremity of the axis on which it turns. The motion is gradually impeded by the friction of the axis against the furface on which it moves; and we find that the instrument revolves for a longer time, in proportion as this friction is avoided by rendering very smooth the surfaces of the

axis, and the plane on which it moves, There are many observations and experiments in different departments of science, the accuracy of which depends greatly, and in some cases entirely, on the accurate measurement of minute portions of time; such, for instance, as the determination of the velocity of found, the nature of the descent of falling bodies, the measure of the fun's diameter, the distance of two contiguous, or at least apparently contiguous, heavenly bodies taken at their passage over the meridian, and the distance of places from the difference of the velocity of light and found. A pendulum for fivinging feconds has usually been employed for these and similar purposes, and in an observatory is found to be very convenient; but a watch, by being more portable, is calculated to be more general in its application, and will measure fmaller portions of time than any other instrument that has been invented. Befides, it policifes this peculiar advantage, that in all Stuations its beats may be counted by the ear, at the fame time that the object of observation is viewed by the eye, fo that no loss is incurred, as must inevitably happen, when the eye is used to view both the object and pendulum in succession, should this latter be ever fo quick. But it will be objected here, that few Vol. XVIII. Part II.

watches measure time accurately, and that, from the Minhami different constructions of watches, the times correspond- Recreaing to their beats vary in a very confiderable degree. tions. We allow these objections to be true, and conceive that to them the reason may be attributed, why the beat of a watch is not generally applied as the measure of the lowest denomination of subdivisions of time. We shall therefore endeavour to obviate these objections, by suewing how any tolerably good watch, whatever be its construction, may be applied with advantage to many phi-

lofophical purpofes. We must, in the first place, consider, that the portions of time which we propose to measure by a watch are fmall, and those to be counted not by a second-hand, as is the cuftom with medical men, but altogether by the beats; in which case, if the watch be not liable to lose or gain time confiderably in a day, the error in the rate of going will be extremely minute in the time correfponding to any number of beats that the memory can retain, or that the purpoles to which we propole the application to be made will require; and even if the error in the rate of going be confiderable, fo as to amount to feveral minutes in a day, as it is uniform, it may eafily be allowed for by a correction. Thus, if the error were five minutes per day, the allowance would be upwards of Top part. Hence the first objection, which relates to the error occasioned by the rate of going of any watch, will conflitute no real obstacle to its application in the ascertaining of small portions of time, provided a fudden change of temperature be avoided at the time of using it; for it will be necessary that the rate of going he estimated when the temperature is the same, as when the watch is used for philosophical purposes; so that if it is usually worn in the pocket, it may be held in the hand to the ear, but if it be hanging in a room or in the open air where the rate of going is afcertained, it must be hung near the ear, under similar circumstances, where any observation is intended to be made

As to the other objection, which applies to the variation in the lengths of the beats of two different watches, owing to the difference of their constructions, though they indicate hours and minutes alike, it may be very readily removed. All common watches have the same number of wheels and pinions, which are known by the fame names, and placed, no matter how variously, so as to act together without interruption; but all watches have not their corresponding wheels and pinions divided into the same number of teeth and spaces; and from this circumstance the beats of different watches differ from each other. As the rate of going of a watch is regulated by the lengthening or shortening of a spring, without any regard being had to the numbers which compose the teeth of the wheels and pinions, a great latitude is allowable in the calculation of those numbers; of which the different makers avail themselves according as the numbers on the engines they use for cutting the teeth require; but whatever the numbers may be of which the wheel-work confifts, if we divide double the product of all the wheels, from the centre wheel to the crown wheel inclusively, by the product of all the pinions with which they act, the quotient will invariably be the number of beats of the watch in question in one hour; and again, if we divide this quotient by 3600, the number of seconds in an hour, this latter quotient

cal uses of a common watch.

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Mechanic will be the number of beats in every fecond, which may Recrea- be carried to any number of places in decimals, and be copied upon the watch-paper for inspection whenever it may be wanted.

When any particular watch is cleaned, the workman may be directed to count, and return in writing, the numbers of the centre wheel, the third wheel, the contrate wheel, and the crown (balance) wheel, and also of the three pinions which they actuate, respectively, from which the calculation of the length of a beat is eafily made by the rule just given, and when once made, will apply in all inflances where that individual watch is used. It may be remarked here, that no notice is taken of the wheels and pinions which conflitute the dial work, or of the great wheel and pinion with which it acts; the use of the former of these is only to make the hour and minute hands revolve in their respective times, and may or may not be the fame in all watches; and the use of the latter, the great wheel and its pinion, is to determine, in conjunction with the number of fpirals on the fusee, the number of hours that the watch thall continue to go, at one winding up of the chain round the barrel of the mainspring. All these wheels and pinions, therefore, it will be perceived, are unneceffary to be taken into the account in calculating the beats per hour. The reason why double the product of the wheels specified is taken in the calculation is, that one tooth of the crown wheel completely escapes the palats at every two beats or vibrations of the balance.

A few examples of the numbers exhibited in the wheels of some common watches will render the general rule which we have laid down more intelligible. We shall take four examples, the first expressing the numbers of a common watch, as given by Mr Emmerfon. In this watch the centre wheel contained 54 teeth, its pinion 6 teeth; the third wheel 48 teeth, its pinion 6; the contrate wheel 48 teeth, and its pinion 6; the crown wheel 15 teeth, befides 2 palats. Now, we have 54×48×48×15×2=3732480 for double the product of the specified wheels, and 6x6x6=216 for

the product of the specified pinions; also  $\frac{3732480}{216}$ 17280 are the number of beats in an hour : accordingly Mr Emerfon fays that this watch makes about 4.75 beats in a fecond. The number of fpirals on the fusee

is 7; therefore,  $7 \times \frac{48}{12} = 28$ , the number of hours that the watch will go at one winding up: likewife the dial work  $\frac{40}{10} \times \frac{36}{12} = \frac{1440}{120} = 12$  fliews that whilft the first

driving pinion of 10 goes 12 times round, the last wheel of 36 goes only once; whence the angular velocity of two hands carried by their hollow axles are to each other as 12 to I.

In a fecond example the numbers in the calculation of beats per fecond will be as follows, 60 x 60 x 60 x 13 × 2= 5616000= double the product of the wheels, and 8 x 8 x 6=384, the product of the pinions; then

5616000 = 14625= the number of beats in an hour, 384

and  $\frac{14625}{3600}$ =4.0625, the number of heats per fecond. In a third watch the numbers require the following calculation 54 × 52 × 52 × 13 × 2=3796416, for double the product of the wheels, and 6x6x6=216, the Me tanie product of the pinions: therefore \(\frac{3796416}{216} = 17576,\)

the beats in an hour, and  $\frac{17576}{2600}$ =4.832, beats per fecond.

In a fourth,  $56 \times 51 \times 50 \times 13 \times 2 = 3712800$ , double the product of the wheels, and  $6 \times 6 \times 6 = 216$ , the product of the pinions, confequently 3712800 gives 17:88 beats in an hour, which, divided by 3600, gives 4.7746 for the beats per fecond.

It remains now to adduce an example or two of the mode of applying the beats of a watch to philosophical

For one example let us suppose with Dr Herschel, that the annual parallax of the fixed ftars may be afeertained by observing how the angle between two stars, very near to each other, varies in opposite parts of the year. For the purpose of determining an angle of this kind, where an accurate micrometer is wanting, let a telescope that has cross wires be directed to the tlars when passing the meridian, in such a manner that the upright wire may be perpendicular to the horizon, and let it remain unmoved as foon as the former of the two ftars is just coming into the field of view; then fixing the eye to the telescope and the watch to the ear, repeat the word one along with every beat of the watch before the ftar is arrived at the perpendicular hair, until it is in conjunction with it, from which beat go on two, three, four, &c. putting down a finger of either hand at every twenty till the fecond flar is feen in the fame fituation that the leading one occupied at the commencement of the counting; then, thefe beats divided by the beats per fecond, marked on the watch-paper, will give the exact number of uncorrected feconds, by which the following flar paffes later over the meridian than the leading one. When these seconds and parts of a fecond are afcertained, we have the following analogy for determining the angle, which includes also the correction, namely,-as 23h 56' 4", 098 (the length of a fidereal rotation of the earth), plus or minus the daily error in the rate of going, are to 360°; fo is the number of observed seconds of time, to the quantity of the horizontal angle required. The watch is here supposed to be regulated to shew folar time; but if it should be regulated exactly for fidereal time, instead of 23h 56 4" 098, we must use exactly 24 houls in the analogy.

As a fecond instance, let it be required to ascertain the distance of the nearer of two electrified clouds from an observer when there are successive peals of thunder to be heard: a little time before the expected repetition of a flash of lightning place the watch at the ear, and commence the numbering of the beats at the inflant the flash is feen, as before directed, and take care to cease with the beginning of the report. Then the beats converted into feconds, with the proportional part of the daily error added or subtracted, will give the difference of time taken up by the motion of the light and found. If, lastly, we suppose light to be instantaneous at small distances, the distance of the nearer cloud will be had by multiplying the distance that found is known to pass through in a fecond by the number of observed seconds obtained from the beats that were counted.

Many

Mechanic Many more inflances might be pointed out, in which Recrea- the beats of a good watch would be extremely ferviceable in the practical branches of philosophy; but the occurrence of tuch inflances will always point out the propriety of the application, when it is once known and practifed.

We shall therefore mention only one further advantage which feems peculiar to this mode of counting a limited number of seconds by a watch, namely, that it is free from any error which might arise from the graduations of a dial-plate, or unequal divisions in the teeth of wheels and pinions, where the feconds are counted by a

In order to introduce this method of measuring small portions of time accurately, it is defireable that a watch be constructed so as to make an exact number of beats per second without a fraction, for then the reduction of beats into feconds would be more readily made. With the view of promoting this object, Mr William Pearson has calculated numbers for a watch, which will produce the defired effect, and which, as they are equally practicable with those in use, we thall here insert. By the method of arrangement already given, the numbers proper for fuch a watch, as will indicate hours, minutes, and feconds, by three hands, and also make just four beats per fecond, will stand thus, viz.

50 great wheel 10-60 centre wheel 8-64 third wheel 8-48 contrate wheel 6-15 crown wheel 2 palats.

Dial work as usual. Six spirals on the fusee-to go 30 hours.

By the preceding general rule for afcertaining the beats per second in any watch, the calculation of these numbers will be thus:  $60 \times 64 \times 49 \times 15 \times 2 = 5529600$ , and  $8 \times 8 \times 6 = 394$ ; then  $\frac{5729600}{384} = 14400$  the beats

in an hour, and \frac{14400}{3600} = 4 exactly, for the beats per fecond; which agreement with the rule is a proof of the

accuracy of the numbers.

Before we conclude this subject, we may caution medical gentlemen against an imposition which is practifed by some watchmakers in the sale of watches with second hands. It is no uncommon thing with fome of these workmen to put a second hand with a stop and an appropriate face to a watch, the wheel work of which is not calculated for indicating feconds. The fecond watch, the numbers of which are fet down a little above, was of this kind. In this watch that part of the train which lay between the axle of the centre wheel and that of the contrate wheel on which the hands are

placed, viz.  $\frac{60}{8} \times \frac{60}{8} =$  to only 56.25, instead of 60, so

that 31 feconds are deficient in every minute, a deficiency which in 16 minutes is equal to a whole revolu-

" See Ni- tion of the second hand ". chol. Your.

Edge.

norganera

For the purpose of bringing to our affistance the fense 4'0, vot. in. of feeling, in teaching the use of the mechanic powers, Mr Edgeworth has constructed the following apparatus, to which he gives the name of panorganon. worth's pa-

It is composed of two principal parts, a frame for

containing the moving machinery, and a capitan or Me hand windlass erected on a full or plank that is fank a few Re iciinches into the ground. By these means, and by braces or props, the frame is rendered fleady. The crofs tail or transom is strengthened by braces, and a king post to make it lighter and cheaper. The capillan confitts of an upright thaft, on which are fixed two drums (about either of which a rope may be wound), and two arms or levers, by which the capftan may be turned round. There is also an iron screw fixed round the lower part of the fliaft, to flew the properties of the ferew as a mechanic power. The rope which goes round the drum, paffes over one of the pulleys near the top of the frame, and below another pulley near the bottom. As two drums of different fizes are employed, it is necessary to have an upright roller, for conducting the rope to the pulleys in a proper direction, when either of the drums is used. Near the frame, and in the direction in which the rope runs, is made a platform or road of deal boards. one board in breadth and 20 or 30 feet long, on which a fmall fledge loaded with different weights may be drawn.

Fig. 53 represents the principal parts of this appa- Fig. 53ratus. FF, the frame; b, b, braces to keep the frame fleady; a, a, a, angular braces, and a king-post to strengthen the transom; S, a round taper shaft, threngthened above and below the mortices, through which the levers pass, with iron hoops; Ld, two arms or levers by which the shaft, &c. are to be moved round; DD, the drums, which are of different circumferences; R, the roller to conduct the rope; P, the pulley, round which the rope passes to the larger drum; P 2, another pulley to answer to the fmaller drum; P 3, a pulley through which the rope passes when experiments are made with levers, &c.; P4, another pulley through which the rope passes when the sledge is used; Ro, the road of deal boards for the fledge to move on; S/, the fledge with pieces of hard wood attached to it to guide it on the road.

As this machine is to be moved by the force of men Uses of star or children, and as this force varies, not only with the panorgaftrength and weights of each individual, but also accord-non. ing to the different manner in which that strength or weight is applied, we must in the first place establish one determinate mode of applying human force to the machine, as well as a method of determining the relative force of each individual, whose strength is employed in fetting it in motion.

# 1. To estimate the force with which a person can draw horizontally by a repe over his shoulder.

Hang a common long scale-beam (without scales or chains) from the top or transom of the frame, so that one end of it may come within an inch of one fide or post of the machine. Tie a rope to the hook of the scale beam, where the chains of the scale are usually hung, and pass it through the pulley P3, which is about four feet from the ground; let the person pull this rope from 1 towards 2, turning his back to the machine, and pulling the rope over his shoulder (fig. 58.). As the pulley may be either too high or too Fig. 3. low to permit the rope to be horizontal, the person who pulls it should be placed 10 or 15 feet from the machine, which will leffen the angular direction of the cord, and thus diminish the inaccuracy of the experi-4 B 2 ment.

Mechanic ment. Hang weights to the other end of the fcale-Mecrasis beam, till the perfon who pulls can but juft walk fortions.

ward, pulling fairly without knocking his feet against any thing. This weight will effimate the force with which the perfon can draw horizontally by a rope over

his shoulder.

Let a child who tries this, walk on the board with dry shoes; let him afterwards chalk his shoes, and then try it with his shoes soaped. He will find that he can pull with different degrees of force in these different circumstances. When he makes the following experiments, however, let his shoes be always dry, that he may always exert the same degree of force.

49 2. To shew the force of the three different kinds of Levers.

Fig. 54, 55' The lever L (fig. 54.) is passed through a socket (fig. 55.) in which it can be shifted from one of its ends towards the other, so that it may be saltened at any place by the screw of the socket. This socket has two gudgeons, upon which both the socket and the lever which it contains can turn. The socket and its gudgeons can be listed out of the hole in which it plays between the rails RR (fig. 54.), and may be put into

other holes at R, R, (fig. 57.)

Hook the cord that comes over the person's shoulder to the end I, of the lever L. Loop another rope to the other end of this lever, and let the person pull as before. Perhaps it should be pointed out that the person mult walk in a direction contrary to that in which he walked before, viz. from 1 towards 3, (fig. 53.). The height to which the weight ascends, and the distance to which the person advances, should be carefully marked and measured; and it will be found, that he can raise the weight to the same height, advancing through the same space as in the former experiment. In this case, as both ends of the lever moved through equal spaces, the lever only changed the direction of the motion, and added no mechanical power to the direct frength of the person.

3. Shift the lever to its extremity in the focket; the middle of the lever will now be opposite to the pulley (fig. 96.): hook to it the rope that goes through the pulley P 3, and fasten to the other end of the lever the rope by which the person is to pull. This will be a lever of the second kind, as it is called in books of mechanics; in using which, the ressarch placed between the centre of motion or fuserum and the moving power. He will now raise double the weight that he did in experiment 2, and he will advance through double the

fpace.

4. Shift the lever, and the focket which forms the axis, (without shifting the lever from the place in which it was in the focket in the last experiment) to the holes that are prepared for it at RR, (fig. 57.). The free end of the lever E will now be opposite to the rope, and to the pulley (over which the rope comes from the feale beam). Hook this rope to it, and hook the rope by which the perfon pulls to the middle of the lever. The effect will now be different from what it was in the last two experiments; the perfon will advance only half as far, and will raise only half as much weight as before. This is called a lever of the third kind.

The experiments upon levers may be varied at pleafure, increasing or diminishing the mechanical advantage, so as to balance the power and the resistance, to

accustom the learners to calculate the relation between Mechanic the power and the effect in different circumstances, always pointing out that whatever excels there is in the power, or in the resistance, is always compensated by the difference of space through which the inferior rasses.

The experiments which we have mentioned are sufficiently satisfactory to a pupil, as to the immediate relation between the power and the refishance; but the different spaces through which the power and the resistance move when one exceeds the other, cannot be obvious, unless they pass through much larger spaces than

levers will permit.

5. To show the different space through which the power 50 and relistance move in different circumstances.

Place the fledge on the farthest end of the wooden Fig. 53. road (fig. 53.); fasten a rope to the sledge, and conduct it through the lowest pulley P 4, and through the pulley P 3, so that the person may be enabled to draw it by the rope paffed over his shoulder. The sledge must now be loaded, till the person can but just advance with short steps steadily upon the wooden road; this must be done with care, as there will be but just room for him beside the rope. He will meet the sledge exactly on the middle of the road, from which he must step aside to pass the sledge. Let the time of this experiment be noted. It is obvious that the person and the sledge move with equal velocity, there is therefore no mechanical advantage obtained by the pulleys. The weight that he can draw will be about half a hundred, if the weight be about nine stones; but the exact force with which the person draws is to be known by experiment first.

ment first.

6. To the largest drum (fig. 53.) fasten a cord, and Wheel and pass it through the pulley P downwards, and then axie. through the pulley P 4, to the sledge placed at the end Fig. 53. of the wooden road which is farthest from the machine. Let the person, by a rope sastened to the extremity of one of the arms of the capstan, and passed over his shoulder, draw the capstan round; he will wind the rope round the drum, and draw the sledge upon the road. To make the sledge advance 24 seet upon its road, the person must have walked circularly 144 feet, which is fix times as far, and he will be able to draw

about three hundred weight, which is fix times as much as in the last experiment.

It may now be pointed out, that the difference of fpace, paffed through by the power in this experiment, is exactly equal to the difference of weight which the

person could draw without the capstan.

7. Let the rope be now attached to the smaller drum; the person will draw nearly twice as much weight upon the sledge as before; and will go through

double the space.

8. Where there is a number of perfons, let five or fix of them, whose power of drawing (estimated as in experiment 1.) amounts to fix times as much as the force of the perfon at the capfian, pull at the end of the rope which was fastened to the sledge; they will balance the force of the perfon at the capfian: either they or he, by a fudden pull may advance, but if they pull fairly, there will be no advantage on either fide. In this experiment the rope should pass through the pulley P 3, and should be coiled round the larger drum. And it must be the pulley P 3 and should be coiled round the larger drum. And it must be the pulley P 3 and should be coiled round the larger drum.

Fig. 57.

Fig. 56.

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Mechanic also be observed, that in all experiments upon the mo-Recreation of bodies, on which there is much friction, as where tion. a sledge is employed, the results are never so uniform as

The pulley on the pulley we shall say little, as it is in every body's hands, and experiments may be tried upon it without any particular apparatus. It should, however, be distinctly inculeated, that the power is not increased by a fixed pulley. For this purpose, a wheel without a rim, or, to speak with more propriety, a number of spokes sixed in a nave should be employed (sig. 61.) Pieces like the heads of crutches should be fixed at the ends of these should be unsteadly and a strap of irom with a hook to it should play upon the centre, by which it may sometimes be suspended, and from which at other times a

weight may be hung.

Let this skeleton of a pulley be hung by the iron strap from the transom of the frame; fasten a piece of web to one of the radii, and another to the end of the opposite radius. If two persons of equal weight pull these pieces of girthweb, they will balance each other; or two equal weights hung to these webs, will be in equilibrio. If a piece of girthweb be put round the aftermost radius, two equal weights hung at the ends of it will remain immoveable; but if either of them be pulled, or if a small additional weight be added to either, it will descend, and the web will apply itself fuccessively to the ascending radii, and will detach itfelf from those which are descending. If this movement be carefully confidered, it will be perceived that the web in unfolding itself, acts in the same manner upon the radii, as two ropes would, if they were hung to the extremities of the opposite radii in succession. The two radii which are opposite, may be considered as a lever of the first kind, when the centre is in the middle of the lever; as each end moves through an equal fpace, there is no mechanical advantage. But if this skeleton-pulley be employed as a common block or tackle, its motions and properties will be entirely different.

10. Nail a piece of girth-web to a post, at the distance of three or four feet from the ground; fasten the other end of it to one of the radii (see fig. 61.). Fasten another piece of web to the opposite radius, and let a person hold the skeleton-pulley suspended from the web ; hook weights to the strap that hangs from the centre. The end of the radius to which the fixed girth-web is fastened will remain immoveable; but if the person pulls the web which he holds in his hand upwards, he will be able to lift nearly double the weight which he can raife from the ground by a simple rope without the machine, and he will perceive that his hand moves through twice as great a space as the weight descends: he has therefore the mechanical advantage, which he would have by a lever of the fecond kind. Let a piece of web be put round the under radii, let one end of it be nailed to the post, and the other be held by the person, and it will represent the application of a rope to a moveable pulley; if its motion be carefully confidered, it will appear that the radii, as they fucceffively apply themselves to the web, represent a series of levers of the second kind.

Upon the wooden road lay down a piece of girthweb; nail one end of it to the road; place the pulley upon the web at the other end of the board, and bringing the web over the radii, let the person taking hold Mechanic of it, draw the loaded sledge fastened to the hook at Retreathe centre of the pulley; he will draw nearly twice as much in this manner as he could without the pulley.

Here the web lying in the road flews more dislinedly, that it is quickent where the lowest radius touches it; and if the radii, as they tread upon it, are observed, their points will appear at rest, while the centre of the pulley will proceed as fast as the sledge, and the top of each radius successively will move twice as far as the

centre of the pulley and the edge.

If a person holding a stick in his hand, observes the relative motions of the top and the middle, and the bottom of the stick, whiss the inclines is, he will see that the bottom of the stick has only half the motion of the top. This property of the pulley has been considered more at large, because it elucidates the motion of a wheel rolling upon the ground; and it explains a common paradox, which appears at first inexplicable, the bottom of a rolling wheel never moves npm the road, This is afferted only of a wheel moving over hard ground, which, in sast, may be considered rather as laying down its circumserence upon the road, than as moving upon it.

### 11. The inclined Plane and the Wedge.

The inclined plane is to be next confidered. When a heavy body is to be railed, it is often convenient to lay a floping artificial road of planks, upon which it may be pulhed or drawn. This mechanical power, however, is but of little fervice without the affilitance of wheels or rollers; we shall therefore speak of it as it is applied in another manner, under the name of the suedge, which is in fact a moving inclined plane; but if it be required to explain the properties of the inclined plane by the panorganon, the wooden road may be raised and set to any inclination required, and the sledge may be drawn upon it as in the former experiments.

Let one end of a lever, N (fig. 59.), with a wheel at Fig. 59.0 one end of it, be hinged to the poil of the frame, by means of a gudgeon driven or ferewed into the poil. To prevent this lever from deviating fideways, let a flip of wood be connected with it by a rail, which filall be part in the lever, but which may move freely in a hole in the rail. The other end of this flip must be faltened to a flake driven into the ground at three or four feet from the lever, at one fide of it, and towards the end in which the wheel is fixed (fig. 62.), in the fame manner as the treadle of a common lathe is managed, and

as the treadle of a loom is sometimes guided.

12. Under the wheel of this lever place an inclined plane (fig. 59.) on the wooden road, with rollers under it, to prevent friction; falten a rope to the foremost end of the wedge, and pass it through the pulleys (P4 and P3), as in the fifth experiment; let a person draw the sledge by this rope over his shoulder, and he will sind, that as it advances it will rasife the weight upwards; the wedge is 5 feet long, and elevated I foot. Now, if the perpendicular ascent of the weight, and the space through which he advanced, he compared, he will find that the space through which he has passed will be 5 times as great as that through which the weight has ascended; and that this wedge has enabled him to raise 5 times as much as he could raise without it, if his strength were applied as in experiment I, without any

Fig. 61.

mechanical.

Recrea-

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Fig. 60.

Mechanic mechanical advantage. By making this wedge in two parts hinged together, with a graduated piece to keep them afunder, the wedge may be adjusted to any given obliquity; and it will always be found, that the mechanical advantage of the wedge may be alcertained by comparing its perpendicular elevation with its base. If the base of the wedge be 2, 3, 4, 5, or any other number of times greater than its height, it will enable the person to raise respectively 2, 3, 4, or 5 times more weight than he could do in experiment I. by which his power is estimated.

13. The Screw.

The screw is an inclined plane wound round a cylinder : the height of all its revolutions round the cylinder taken together, compared with the space through which the power that turns it passes, is the measure of its mechanical advantage. Let the lever used in the last experiment be turned in such a manner as to reach from its gudgeon to the shaft of the Panorganon, guided by an attendant lever as before (fig. 60.) Let the wheel rest upon the lowest helix or thread of the screw; as the arms of the shaft are turned round, the wheel will ascend, and carry up the weight which is fastened to the lever. As the fituation of the screw prevents the weight from being suspended exactly from the centre of the ferew, proper allowance must be made for this in estimating the force of the fcrew, or determining the mechanical advantage gained by the lever. This can be done by measuring the perpendicular ascent of the weight, which in all cases is useful, and more expeditious than measuring the parts of a machine, and estimating its force by calculation; because the different diameters of ropes, and other small circumstances, are frequently mistaken in estimates-both methods should be employed and their refults compared. The space paffed through by the moving power, and by that which it moves, are infallible data for estimating the powers of engines.

Two very material subjects of experiment yet remain for the Panorganon; friction, and wheels of carriages: but perhaps we may be thought to have extended this fection beyond its just proportion to the rest of the article, in which it is not intended to write a treatife upon fcience, but to point out methods of initiating young people in the rudiments of knowledge, and of giving them a diffinet view of those principles on which they are founded. No preceptor who has had experience will cavil at the superficial knowledge of a boy of 12 or 13 upon these subjects; he will perceive that the general view which we wish to give, must tend to form a taste for literature and investigation. The [ciolift has learned only to talk-we wish to teach our pupils to think upon the various objects connected with the prefent article.

The Panorganon may be employed in afcertaining the refistance of air and water; the force of different muscles; and in a great variety of amusing and useful experiments. In academies and private families, it may be erected in the place allotted for amusement, where it will furnish entertainment for many a vacant hour. Practical When it has loft its novelty, the shaft may from time to Education, time be taken down, and a fiving may be suspended in wot. 11. chap. its place +.

SECT. XII. Recreations and Contrivances relating to

Ontired

tions

In the articles CATOPTRICS, DIOPTRICS, MICROscope and Perspective, we have deferibed a variety Optical reof optical recreations, viz. under CATOPTRICS, Sect. III. creations. CATOPTRICAL ILLUSIONS; the appearance of aboundle/s villa; a fortification apparently of immense extent; a furprifing multiplication of objects; the optical paradox, by which opaque bodies are feemingly rendered transparent; the magician's mirror; the perspective mirror; the action of concave mirrors in inflaming combuttible bodies, and the real apparition. Under Diop-TRICS, page 241 of Vol. VII, optical illusions; the optical augmentation, optical fublicaction; the alternate illufion; the dioptrical paradox; the camera obfoura; the method of thewing the fpots on the jun's difk, and magnifying small objects by means of the sun's rays; the diagonal opera glafs; the construction and uses of the magic lantern; the nebulous magic lantern; method of producing the appearance of a phastom on a pedestal placed on the middle of a table; and the magic theatre. Under MICROSCOPE, besides fully explaining the construction of the feveral kinds of microfcopes, and explaining their uses, we have given an account of a great variety of objects which are feen diffinctly only by means of these instruments; such as the microscopic animalcula; the minute parts of infects; the structure of vegetables. &c.; and under PERSPECTIVE, we have described and explained the anamorphofis, an instrument for drawing in perspective mechanically, and the camera lucida of Dr Wollafton. Under OPTICS, Part III. Chap. 1. we have explained the confirmation of the principal optical instruments, as multiplying glasses, mirrors, improvements on the camera obseura, by Dr Biewster and Mr Thomson; microscopes, telescopes, and various kinds of apparatus for measuring the intensity of light. Under PYROTECHNY, No 150, we have shown how artificial

fireworks may be imitated by certain optical deceptions, At prefent we shall only describe one or two additional optical recreations, and explain the nature of the optical deception called Phantafmagoria.

Experiment to Show the Blue Colour of Shadares formed in Day Light.

Darken a room in daylight, or towards twilight, fo that only a small proportion of light may enter by the shutter. Then holding a lighted candle near the opening of the shutter, cast the shadow of an object, such as a small ruler, on a white paper. There will in general be feen two shadows, the one blue, and the other orange; the former of which refembles the blue colour of the fky in clear funshine, and is of a greater or less intensity according as the object is brought nearer to a focus.

For explanations of the blue colour of the fky, fee OPTICS, Part II. Sect. 4.

# The Air-drawn Dagger.

An improved variety of the experiment described under CATOPTRICS, No 14 by the name of the real appa-drawn dagrition, is thus described by Montucla. Fig. 62. repre-ger. fents a different position of the mirror and partition Fig. 62. from that deferibed under CATOPTRICS, and one better

# Edgeeworth's ATII.

goria.

our. Svo.

Onical adapted for exhibiting the fact by various objects. Recrea- ABC is a thin partition of a room down to the floor, with an aperture for a good convex lens, turned outwards into the room nearly in a horizontal disection, proper for viewing by the eye of a person flanding upright from the floor, or on a flool. D is a large concave mirror, supported at a proper angle, to reflect upwards through the glass in the partition B, images of objects at E, presented towards the mirror below. A ftrong light from a lamp, &cc. being directed on the object E, and nowhere else; then to the eye of a spectator at F. in a darkened room, it is truly furpriting and admirable to what effect the images are reflected up into the air at G.

Exhibitions of the appearance of spectres have sometimes been formed on the principles of this experiment; but the most striking deception of this kind is the phanta/magoria, which some winters ago formed one of the principal public amusements at Paris and London.

This exhibition was contrived by Mr Philipsthal, and was conducted in a fmall theatre, all the lights of which were removed, except one hanging lamp, and this could be drawn up, fo that its flame was perfectly enveloped in a cylindrical chimney, or opaque shade. In this gloomy and wavering light the curtain was drawn up, and prefented to the spectators a fort of cave, with skeletons and other figures of terror, painted or moulded in relievo on the fides or walls. After a fhort interval the lamp was drawn up into its chimney, and the spectators were in total darkness, interrupted only by flashes of lightning succeeded by peals of thunder. These phenomena were followed by the appearance of figures of departed men, ghosts, skeletons, transmutations, &cc. Several figures of celebrated men were thus exhibited with various transformations, fuch as the head of Dr Franklin, fuddenly converted into a fkull, &cc. Thefe were fucceeded by phantoms, skeletons, and various terrific figures, which were fometimes feen to contract gradually in all their dimensions, till they became extremely fmall, and then vanished; while at others, instead of feeming to recede and then vanish, they were, to the furprile and altonithment of the spectators, made suddenly to advance, and then disappear, by seeming to

Nichol. fink into the ground +. The principal part of these phenomena was produced vol. i. 148. by a modification of the magic lantern, having all its parts on a large scale, and placed on that side of a semitransparent screen of taffeta which was opposite to the spectators, instead of the same side, as in the ordinary exhibitions of the magic lantern. To favour the decention, the fliders were made perfectly opaque, except in those places that contained the figures to be exhibited, and in these light parts the glass was covered with a more or less transparent tint, according to the effect required. The figures for these purposes have also been drawn with water colours on thin paper, and afterwards varnished. To imitate the natural motions of the objects represented, several pieces of glass placed behind each other were occasionally employed. By removing the lantern to different diffances, and at the fame time altering more or less the position of the lens, the images were made to increase or diminish, and to become more or less diffinct at the pleasure of the exhibiter : fo that, to a person unaccustomed to the effect of optical instruments, the figures appeared actually to advance and re-

tire. In reality, however, figures exhibited in this way become much brighter as they are rendered finaller, while in nature the imperfect transparency of the air, causes objects to appear fainter when they are remote, than when they are nearer the observer. Sometimes, by throwing a firong light on an object really opaque, or on a living perion, its image was formed on the curtain. retaining its natural motions; but in this cafe the object must have been at a considerable distance, otherwise the images of its nearer and remoter parts could never be fufficiently diffinct at once, as the refraction must either be too great for the remoter, or too imall for the nearer parts; and there must also be a second lens placed at a fufficient distance from the first, to allow the formation of an inverted image between them, and to throw a fecond picture of this image on the fercen in its natural erect position, unless the object be of such a nature that it can be inverted without incovenience +.

+ 2"oung's Dr Thomas Young propofes the following apparatus Led o for an exhibition familiar to the phantaimagoria. The light Nat Phil. of the lamp A (fig. 63.) is to be thrown by the mirror B vol i 426. and the lenfes C and D on the painted flider at E, and Fig. 63the magnifier F forms the image of the fcreen at G. This lens is fixed to a flider, which may be drawn out of the general support or box H; and when the box is drawn back on its wheels, the 10d IK lowers the point K, and by means of the rod KL adjusts the slider in fuch a manner, that the image is always diffinely painted on the fcreen G. When the box advances towards the screen, in order that the images may be diminished and appear to vanish, the support of the lens F suffers the screen M to fall and intercept a part of the light. The rod KN must be equal to IK, and the point I must be twice the focal length of the lens F, before the object, L being immediately under the focus of the lens. The fereen M may have a triangular opening, fo as to uncover the middle of the lens only, or the light may be # Ibid. intercepted in any other manner 1.

Mr Ezekiel Walker has lately confiructed a new optical instrument, calculated for affording entertainment Walker's to those who derive pleasure from optical illusions. This phottainainstrument is called phantasmascope, and is to contrived, that a person standing before it sees a door opened, and a phantom make its appearance, coming towards him. and increasing in magnitude as it approaches, like those in the phantalmagoria. When it has advanced about 3 feet, it appears of the greatest magnitude, and as it retires, becomes gradually contracted in its dimentions,

till it re enters the machine, when it totally vanishes. This phantom appears in the air like a beautiful painting, and has fuch a rich brilliancy of colouring, as to render it unnecessary to darken the room. On the contrary, this aërial picture is feen with rather greater perfection when the room is illuminated. Fig. 64. represents a fec-Fig. 64. tion of this machine, and will explain the principles of its construction.

ABCD, a wooden box, 36 inches by 21, and 22 deep. EF, a concave mirror, 15 inches diameter, 11accd near the end BD. AC, the other end, is divided into two parts at m by an horizontal bar, of which m is a fection. Am a door that opens to the left hand. no a board with a circular opening, 10 inches diameter, covered with plate glass in that fide next the mirror. GHI a drawer, opened at the end I, and covered at the top Gm with tin plate. It is represented in the fi-

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gure as drawn out 16 inches, ab a moveable stage, 15 Recrea- inches by 6, which slides freely upon the bottom of the , drawer by means of a strong brass rod ea. dx a partition fixed to the stage ab, which is 15 inches long, and reaches nearly to the top of the drawer. z a circular aperture, 3 or 4 inches in diameter, made near the bottom of the partition, and at equal distances from each end of it. sa, a foreen, 7 inches high by 41, covered with white paper on that fide next the mirror. This fcreen prevents any light, reflected from the end of the drawer, from passing through the aperture x. np, part of the cover, fixed as represented in the figure, to prevent the infide of the machine from being feen by the observer.

When this machine is used, take a painting on glass in transparent colours; place it against the aperture & in the partition on that fide the mirror, and two fhort candles on the other fide, between za and dx. The glass must be perfeetly opaque, except that part upon which the figure is painted; then the light which is transmitted through the painting and falls upon the mirror, is reflected into the air where the phantom is formed; but the phantom is much more beautiful than the painting, as the colouring

receives a particular delicacy from the glaffes.

When the painting is in the place represented in the agure, the phantom appears without the machine at y; but if the stage be drawn out to the end of the drawer GH, the phantom will appear within the machine at r, and very fmall. A very pleafing effect is also produced from a fmall painting on paper, or a coloured print put into the place of the painting on glass, with candles on the other fide, near b.

Mr Walker has shown how this instrument may be employed to exhibit feveral phenomena in the heavens; as, for example, the appearance of Jupiter and his fatellites,

and the colour of Mars and the moon.

To reprefent Jupiter and his fatellites as they appear through a common telescope, take a piece of paper stained very black, about 3 inches square, near the middle of which cut a hole perfectly circular, to represent the planet, and 4 fmall holes, in a line with the centre of the large one, for the fatellites; but these must be cut out with a small punch, as it is difficult to make a circular hole with a sharp-pointed instrument. After this paper has been pasted on a piece of glass, roughground on one fide, draw 3 or 4 lines across the planet with a black lead pencil to imitate the belts. From this fimple contrivance the machine produces a very beautiful effect. The new moon represented in this way is a striking resemblance of the real object in the heavens: comets and fixed flars may also be represented by the fame method.

The colour of Mars and of the moon, at rifing or fetting, may be imitated by covering the fereen za with paper stained red, which will reflect a ruddy tint upon the object placed at x; and this tint may be increased or decreased by only altering the fituations of the can-

SECT. XIII. Recreations and Contrivances relating to 58 Pneumatic PNEUMATICS. -recreations.

> In our treatife on PNEUMATICS. - have related feveral entertaining experiments, It. sating the principles of that science, such as entered, oxing the fluidity of the air in No 52; hal of 1 000 fountain

in No 54; experiments illustrating the application of Pneumatihydroftatics to air, N° 57, et feq.; a great variety of experiments with the air pump, N° 160; the experiment of the fyphon fountain, N° 178; and experiments on the compressibility and expansibility of the air, No 196, &c. We have also, in that article, explained the conflruction and operation of the principal pneumatical engines, fuch as fyringes, fyphons, air pumps, beliows, &c. The confiruction and ules of barometers have been explained under BAROMETER, and under HYDRO-DYNAMICS, No 72. Those of thermometers under CHEMISTRY from No 194. to 203; and those of common pumps under the article PUMP.

As the account of the air-gun referred to PNEUMA- Air-gun. TICS, has been omitted in that article, we must here describe the construction and action of that ingenious in-

The common air-gun is made of brass, and has two Fig. 65 barrels; the infide barrel A, fig. 65, which is of a fmall bore, from whence the bullets are exploded; and a larger barrel E C D R on the outfide of it. There is a fyringe S M N P fixed in the butt of the gun, by which the air is injected into the cavity between the two barrels through the valve E.P. The ball K is put down into its place in the fmall barrel, with the rammer, as in any other gun. At SL is another valve, which being opened by the trigger O, permits the air to come behind the bullet, fo as to drive it out with great force. If this valve be opened and thut fuddenly, one charge of condensed air may be sufficient for several discharges of bullets; but if the whole air be discharged on a fingle bullet, it will drive it out with a greater force. The discharge is effected by means of a lock, placed here as in other guns: for the trigger being pulled, the cock will go down and drive the lever O, fig. 65, which will open the valve, and let in the air upon the bul-

The air-gun has received very great improvements Fig. 66. in its conflruction. Fig. 66. is a representation of one now made by several instrument-makers in the metropolis. For fimplicity and perfection it exceeds any hitherto contrived. A is the gun barrel, with the lock, flock, rammer, and of the fize and weight of a common fowling piece. Under the lock, at b, is a fteel tube having a fmall moveable pin in the infide, which is pushed out when the trigger a is pulled, by the fpring-work within the lock; to this tube b, is screwed a hollow copper ball c, so as to be perfectly air tight. This copper ball is fully charged with condensed air by the fyringe B, fig. 67. previous to its be-Fig. 67. ing applied to the tube b of fig. 66. It is evident, that if a bullet be rammed down in the barrel, the copper ball screwed fast at b, and the trigger a be pulled, that the pin in b will, by the action of the fpring-work within the lock, forcibly strike out into the copper ball; and thereby pushing in suddenly a valve within the copper ball, let out a portion of the condensed air, which will ruth up through the aperture of the lock, and forcibly act against the bullet, driving it to the distance of 60 or 70 yards, or farther. It the air be ftrongly condenfed, at every discharge, only a portion of it escapes from the ball, therefore by re-cocking the pice, another dicharge may be made; and this rejected 1; or

\* Phil. Mag. vol. XXVII. 97.

Recrea-

Preumati- the fyringe B (fig. 67.), in the following manner. The ball c is screwed quite close in the top of the fyringe at b, at the end of the steel pointed rod; a is a flout ring through which passes the rod k: upon this rod the feet are commonly placed, then the hands are to be applied to the two handles i i, fixed on the fide of the barrel of the fyringe. Now by moving the barrel B fleadily up and down on the rod a, the ball c will become charged with condensed air; and it may be eafily known when the ball is as full as possible, by the irrefistible action which the air makes against the piston while working the fyringe. At the end of the rod k is usually a square hole, which with the rod serves as a key to make the ball c fait on the ferew b of the gun and fyringe close to the orifice in the ball c. In the infide is fixed a valve and fpring, which gives way for the admission of air; but upon its emission comes close up to the orifice, shutting up the internal air. The pifton rod works air-tight, by a collar of leather on it on the barrel B; it is therefore plain, that when the barrel is drawn up, the air will rush in at the hole b. When the barrel is pushed down, the air contained in it will have no other way to pals, from the pressure of the piston, but into the ball c at top. The barrel being drawn up, the operation is repeated, until the condensation is fo ftrong as to reful the action of the pillon.

The magazine air-gun was invented by that ingenious artist L. Colbe. By this contrivance 10 bullets are so lodged in a cavity, near the place of discharge, that they may be drawn into the shooting barrel, and succeffively discharged so fast as to be nearly of the fame

ule as fo many different guns.

Fig. 68. represents the present form of this machine, where part of the stock is cut off, to the end of the injecting fyringe. It has its valve opening into the cavity between the barrels as before. KK is the fmall fhooting barrel, that receives the bullets from the magazine E D, which is of a ferpentine form, and closed at the end D when the bullets are lodged in it. The circular part a b c, is the key of a cock, having a cylindrical hole through it, i k, which is equal to the bore of the fame barrel, and makes a part of it in the prefent fituation. When the lock is taken off, the feveral parts O, R, T, W, &c. come into view, by which means the discharge is made by pushing up the pin P p, which raifes and opens a valve V to let in the air against the bullet I, from the cavity F F, which valve is immediately thut down again by means of a long spring of brass N N. This valve V being a conical piece of brass, ground very true in the part which receives it, will of itself be sufficient to confine the air.

To make a discharge, the trigger Z Z is to be pulled, which throws up the feer y a, and disengages it from the notch a, on which the strong spring W W moves the tumbler F, to which the cock is fixed. This, by its end u, bears down the end v of the tumbling lever R, which, by the other end m, raifes at the same time the flat end of the horizontal lever O; and by this means, of course, the pin Pp, which stands upon it, is pushed up, and thus opens the valve V, and discharges the bullet. This is all evident, merely from

the view of the figure.

To bring another bullet to fucceed that marked I, instantaneously turn the cylindric cavity of the key of the cock, which before made part of the barrel K K, Vot. XVIII. Part II.

into the fituation it, fo that the part i may be at K; Paeumattand hold the gun upon your shoulder, with the barrel downwards and the magazine upwards, by which means that bullet next the cock will fall into it out of the magazine, but go no farther into this cylindric cavity than the two little fprings fs which detain it. The two circles reprefent the cock barrel, wherein the key formerly mentioned turns upon an axis not reprefented here, but visible in fig. 69. This axis is a square Fig. 69. piece of steel, on which comes the square hole of the hammer H, fig. 70. by which the cylindrical cavity men- Fig. 70 tioned is opened to the magazine. Then opening the hammer, as in that figure, the bullet is brought into its proper place near the discharge valve, and the cylindric cavity of the key of the cock again makes a part of the inward barrel K K.

It appears how expeditious a method this is of charging and discharging a gun; and were the force of condensed air equal to that of gun-powder, such an air-gun

would answer the purpose of several guns.

In the air gun, and all other cases where the air is required to be condensed to a very great degree, it will be requifite to have the fyringe of a small bore, viz. not exceeding half an inch in diameter, because the preffure against every square inch is about 15 pounds, and therefore against every circular inch about 12 pounds. If, therefore, the fyringe be one inch in diameter, when one atmosphere is injected, there will be a resistance of 12 pounds against the pitton; and when 10 are injected, there will be a force of 120 pounds to be over come; whereas 10 atmospheres act against the circular half-inch pifton with only a force equal to 30 pounds; or 40 atmospheres may be injected with luch a fyringe, as well as 10 with the other. In fhort, the facility of working will be inverfely as the squares of the diameter of the fyringe.

It is not certain when, or by whom the air-gun was invented. Montucla afcribes the invention to Otto Guerricke, burgomaster of Magdeburg, so celebrated about the middle of the 17th century for his pneumatic and electrical experiments; but it is certain that airguns, or wind-guns, as they were fometimes called. were known long before the time of Guerricke. In the Elemens d'Artillerie of David Rivant, preceptor to Louis XIII. of France, this instrument is, we believe, first noticed in writing; and here the invention is attributed to one Marin, a burgher of Lifieux, who prefented an air-gun to Henry IV. The air-gun is now confidered rather as a curious philosophical instrument, than a ufeful offensive or defensive weapon; and its ule in the latter capacity is, we believe, forbidden by law.

The subject of balloons has been fully discussed under the article AEROSTATION. For the fake of expe-Eafy meder the article AEROSTATION. FOR the take of experiment, fire balloons, or Mongolfiers, of a moderate fize, it using may be constructed, by pasting together gores of lawn find the paper meeting at the top, and having their other extre-balloons. mities pasted round a light and slender hoop, from which proceed feveral wires terminating in a kind of balket, capable of sup orting a sponge dipped in rectified spirit of wine. If the gores are properly formed and neatly joined, the balloon will be fo far air-tight, that the expur ded air vithin it, caused by the inflammation of the to a confiderable height in the atmosphere. It is obvious that fuch an e. po iment can be made only in calm weather.

4 C

Fiz. 68.

SCILLA, the SQUILL; a genus of plants, belonging to the hexandria clas; and in the natural method ranking under the 10th order, Coronariae. See BOTANY and MATERIA MEDICA Index.

SCILLY, or SILLEY, a clufter of fmall iflands and rocks, fituated in the Atlantic ocean, and about 10 leagues W. of the Land's End in Cornwall, in W.

Long. 7°. N. Lat. 50°.

Thele islands were first called Cassierides, or the Tin Ifes, from their being rich in that metal. The common opinion is, that this is a Greek appellation; which in the most obvious fense is true : But as the Phoenicians were familiar with the metal, and with the country that produced it, before the Greeks knew any thing of either, it is very likely they introduced the names of both from their own language. Strabo fays these islands were ten in number, lying close together, of which only one was uninhabited : the people led an erratic life, lived upon the produce of their cattle, wore an under-garment which reached down to their ankles, and over that another, both of the fame colour, which was black, girt round a little below the breast with a girdle, and walked with staves in their hands. The riches of these islands were tin and lead, which, with the fkins of their cattle, they exchanged with foreign merchants, that is, the Phoenicians from Cadiz, for earthen ware, falt, and utenfils made of brass. An author of as great or greater antiquity, feems to include a part at least of Cornwall amongst thefe islands; or rather he fuggests, that they were not perfect islands except at full fea, but that at ebb the inhabitants passed from one to another upon the fands, and that they even transported their tin in large fourre blocks upon carriages from one island to another. He farther takes notice, that fuch as inhabited about Belerium (the Land's End) were in their conversation with strangers remarkably civil and courteous. Other ancient writers flyle these islands Hesperides, from their western situation, and Oestrymnides, afferting that the land was extremely fertile, as well as full of mines; and that the people, though very brave, were entirely addicted to commerce, and boldly passed the seas in their leather boats.

The Romans were exceedingly defirous of having a share in this commerce, which the Phanicians as carefully laboured to prevent, by concealing their navigation to these islands as much as it was in their power. At length, however, the Romans prevailed; and Publius Craffus coming thither, was fo well pleafed with the industry and manners of the people, that he taught them various improvements, as well in working their mines, which till that time were but shallow, as in carrying their own merchandise to different markets. There is no room to doubt that they followed the fate of the rest of Britain, and particularly of Cornwall, in becoming fubject to the Roman empire. We find them called in the Itinerary of Antoninus, Sigdeles; by Sulpitius, Sillence; and by Solinus they are termed Silures. All we know of them during this period is, that their tin trade continued, and that fometimes state-prisoners were exiled, or, to use the Roman phrase, relegated hither as well as to other islands.

When the legions were withdrawn, and Britain with its dependencies left in the power of the natives, there is no reason to question that these islands shared the fame lot with the reft. As to the appellation which Scilly. from this period prevailed, the ordinary way of writing it is Scilly: in records we commonly find it fpelt Silly, Silley, or Sulley; but we are told the old British appellation was Sulleh, or Sylleh, which fignifies rocks confecrated to the sun. We have not the least notice of any thing that regards them from the fifth to the tenth century. It is, however, with much appearance of truth conjectured, that fome time within this space they were in a great measure destroyed by an earthquake, attended with a finking of the earth, by which most of their lowlands, and of course the greatest part of their improvements, were covered by the fea, and those rich mines of tin which had rendered them fo famous fivallowed up in the deep. They have a tradition in Cornwall, that a very extenfive tract of country called the Lionels, in the old Cornish Lethosow, supposed to lie between that country and Scilly, was loft in that manner; and there are many concurrent circumstances which render this probable. In reference to these islands, the case is still stronger; for at low ebbs their stone inclosures are still visible from almost all the isles, and thereby afford an ocular demonstration that they were formerly of far greater extent, and that in remoter ages their inhabitants must have been very numerous, and at the same time very industrious. This sufficiently proves the fact, that by fuch an earthquake they were destroyed; and that it happened at some period of time within those limits that have been assigned, appears from our hearing nothing more of their tin trade, and from our having no notice of it at all in any of our ancient chronicles, which, if it had fallen out later, from their known attention to extraordinary events, must certainly have happened.

It is generally supposed, and with great appearance of truth, that King Athelstan, after having overcome a very powerful confederacy formed against him, and having reduced Exeter, and driven the Britons beyond the river Tamar, which he made the boundary of their Cornish dominions, passed over into these islands, (then furely in a better state than now, or they would not have been objects of his vengeance), and reduced them likewise. History does not inform us, that the Danes ever fixed themselves in these islands; but as their method of fortifying is very well known, it has been conjectured that the Giant's Castle in the isle of St Mary was erected by them; and indeed, if we confider the convenient fituation of these islands, and the trade of piracy which that nation carried on, there feems to be nothing improbable in that conjecture. It is more certain that there were churches erected in these ifles, and that there were in them also many monks and hermits, before the conquest.

The fertility of the islands is much insisted upon in all the accounts; and it is expressly said of St Mary's, that it bears exceeding good corn, insomuch that if men did but cast corn where swine had rooted, it would come up. There is mention made of a breed of wild swine, and the inhabitants had great plenty of sold fowl and sist. But notwithstanding the sertility of the country, and the many commodities that men had or might have there, it was nevertheless but thinly peopled; and the reason affigned is, because they were liable to be frequently spoiled by French or Spanish

pirates.

Scilly. pirates. In Leland's time, one Mr Davers of Wilthire, and Mr Whittington of Gloucestershire, were proprietors of Scilly, and drew from thence, in rents and com-

modities, about 40 merks a-year.

The inhabitants at that juncture, and long before, appear to have carried on a small trade in dried skate and other fish to Bretagne, with which they purchased falt, canvas, and other necessaries. This feems to be the remains of a very old kind of commerce, fince, for many ages, the people of that country, those of the Scilly ifles, and the people of Cornwall, looked upon themselves as countrymen, being in truth no other than remnants of the ancient Britons, who, when driven out by the Saxons, took refuge in those islands, and in that part of France which had before been called Armorica, and from hence styled Bretagne, Brittany, or Little Britain, and the people Bretons. This, in all probability, was a great relief to those who dwelt in those isles; who, during the long civil war between the honses of York and Lancaster, had their intercourse with England fo much interrupted, that if it had not been for this commerce with their neighbours on the French coast, they might have been driven to the last diffrefs.

The Scilly or Silley islands, lie due west from the Lizard about 17 leagues; west and by south from the old Land's End, next Mount's Bay, at the diffance of 10 leagues; and from the western Land's End, they lie west-fouth-west, at the distance of something more than nine leagnes. There are five of them inhabited; and that called Samfon has one family in it. The largest of these is St Mary's, which lies in the north latitude of 49 degrees 55 minutes, and in the longitude of 6 degrees 40 minutes well from Greenwich. It is two miles and a half in length, about one and a half in breadth, and between nine and ten miles in compass. On the west side there projects an isthmus. Beyond this there is a peninfula, which is very high; and upon which stands Star Castle, built in 1593, with some outworks and batteries. On these there are upwards of threescore pieces of cannon mounted; and for the defence of which there is a garrifon of an entire company, with a master-gunner and fix other gunners. In the magazine there are arms for 300 islanders, who, when fummoned, are bound to march into the fortrefs. Underneath the castle barracks and lines stands Hugh Town, very improperly built, as lying fo low as to be subject to inundations. A mile within land itands Church Town, so denominated from their place of worthip; it confilts of a few houses only, with a court house, About two furlongs east of this lies the Old Town, where there are more houses, and some of them very convenient dwellings. The number of inhabitants in this island is about 600 or 700; and it produces to the lord proprietor 300l. per annum.

Trescaw lies directly north from St Mary's, at the distance of two miles. It was formerly styled St Nicholar's island; and was at least as large as St Mary's, though at present about half the fize. The remains of the abbey are yet visible, the situation well chosen, with a fine bason of fresh water before it, half a mile long and a furlong wide, with an ever-green bank high enough to keep out the fea, and ferving at once to preferve the pond, and shelter the abbey. In this pond there are most excellent eels, and the lands lying

round it are by far the best in those islands. There are Scilly. about half a fcore flone houses, with a church, which are called Dolphin Town; an old cattle built in the reign of Henry VIII. called Oliver's Caitle; and a new block-house, raised out of the ruins of that castle, which is of far greater use. This island is particularly noted for producing plenty of the finest famphire, and the only tin works that are now visible are found here. There are upon it at prefent about 40 families, who are very industrious, and spin more wool than in St Mary's. Its annual value is computed at 801, a year.

A mile to the east of Trescaw, and about two miles from the most northern part of St Mary's, lies the ifle of St Martin's, not much inferior in fize to that of Trescaw. It very plainly appears to have been formerly extremely well cultivated; notwithstanding which it was entirely deferted, till within fomewhat lels than a century ago, that Mr Thomas Ekines, a confiderable merchant, engaged fome people to fettle there. He likewise caused to be erected a hollow tower twenty feet in height, with a spire of as many feet more; which being neatly covered with lime, ferves as a daymark for directing thips crofling the channel or coming into Scilly. St Martin's produces fome corn, affords the best pasture in these islands, nonrishes a great number of theep, and has upon it 17 families, who pretend to have the fecret of burning the best kelp, and are extremely attached to their own island. As a proof of this, it is observable, that though some of the inhabitants rent lands in St Mary's, yet they continue to refide

here, going thither only occasionally.

St Agnes, which is also called the Light-house Island, lies near three miles fouth-west of St Mary's; and is, though a very little, a very well cultivated island, fruitful in corn and grass. The only inconvenience to which the people who live in it are subject, is the want of good water, as their capital advantage confifts in having feveral good coves or finall ports, where boats may lie with fafety; which, however, are not much used. The light-house is the principal ornament and great fupport of the island; it stands on the most elevated ground, and is built with those from the foundation to the lanthorn, which is fifty-one feet high, the gallery four, the fash-lights eleven feet and a half high, three feet two inches wide, and fixteen in number. The floor of the lanthorn is of brick, poon which flands a fubfiantial iron grate, fquare, barred on every fide, with one great chimney in the canopy-roof, and feveral leffer ones to let out the smoke, and a large pair of smith's bellows are fo fixed as to be eafily used whenever there is occasion. Upon the whole, it is a noble and commodious ftructure; and being plastered white, is a useful daymark to all thips coming from the fouthward. The keeper of this light-house has a falary from the Trinityhouse at Deptford of 401, a-year, with a dwellinghouse and ground for a garden. His affistant has 201. a-year. It is supplied with coals by an annual ship; and the carriage of these coals from the sea-side to the light-house is looked on as a considerable benefit to the poor inhabitants. They have a neat little church, built by the Godolphin family. There are at prefent 50 households in the itland, which yield the proprietor 401.

Brehar, or, as pronounced, Bryer island, lies northwest of St Mary's, and to the west of Trescaw, to 4 C 2

Scally, which, when the fea is very low, they fometimes pass over the fand. It is very mountainous, abounds with fea and land fowls, excellent famphire, and a great variety of medicinal herbs. There are at prefent thirteen families, who have a pretty church, and pay 301.

a-vear to the proprietor.

South from hence, and west from Trescaw, stands the island of Samfon, in which there is not above one family, who subfit chiefly by the making of kelp. To the weltward of these there lie four islands, which contain in the whole 360 acres of meadow and arable land. The eastern isles, so denominated from their position in respect to St Mary's, contain 123 acres; and there are also seven other rocky and scattered islands, that have each a little land of some use; and besides these, innumerable rocks on every fide, among which we must reckon Scilly, now nothing more than a large, ill-shaped, craggy, inaccessible island, lying the farthest northwest of any of them, and consequently the nearest to the

The air of these islands is equally mild and pure; their winters are feldom fubject to frost or inow, When the former happens, it lasts not long; and the latter never lies upon the ground. The heat of their fummers is much abated by sea-breezes. They are indeed frequently incommoded by fea fogs, but these are not unwholesome. Agues are rare, and fevers more so. The most fatal distemper is the smallpox; yet those who live temperately furvive commonly to a great age, and are remarkably free from diseases. The soil is very good, and produces grain of all forts (except wheat, of which they had anciently plenty) in large quantities. They still grow a little wheat, but the bread made of it is unpleasant. They eat, for this reason, chiefly what is made of barley; and of this they have such abundance, that though they use it both for bread and beer, they have more than suffices for their own consumption. The introduction of potatoes was an effential improvement; the cultivation of this plant succeeded so well, as to yield every scason the most luxuriant crops. Roots of all forts, pulse, and falads, grow well; dwarf fruit-trees, gooleberries, currents, rafpberries, and every thing of that kind, under proper shelter, thrive exceedingly; but they have no trees, though formerly they had elder; and Porthelik, i. e. the harbour of willows, proves they had these likewife; and with a little care, no doubt, great improvements might be made. The ranunculus, anemone, and most kinds of flowers, are successfully cultivated in their gardens. They have wild fowl of all forts, from the the fivan to the fnipe; and a particular kind called the hedge chicken, which is not inferior to the ortolan: also tame fowl, puffins, and rabbits, in great numbers. Their black cattle are generally fmall, but very well tafted, though they feed upon ore-weed. Their horfis are little, but firong and lively. They have also large flocks of fine sheep, whose sleeces are tolerably good and their flesh excellent. There are no venomous creatures in these islands.

We must now pass to the sea, which is of more confequence to these itles than that small portion of land which is distributed amongst them. S. Mary's harbour is very fafe and capacious, having that ifland on the fouth; the eastern islands, with that of St Martin, on the east; Trescaw, Brehar, and Samson, to the

north; St Agnes and feveral fmall islands to the west. Scilly. Ships ride here in three to five fathom water, with good anchorage. Into this harbour there are four inlets, viz. Broad Sound, Smith's Sound, St Mary's Sound, and Crow Sound: fo that hardly any wind can blow with which a ship of 150 tons cannot lafely fail through one or other of them, Crow Sound only excepted, where they cannot pass at low water, but at high there is from 16 to 24 feet in this passage. Besides these there are two other harbours; one called New Grynfey, which lies between Brehar and Trefcaw, where thips of 300 tons may ride fecurely. The other is called Old Grynfey, and lies between Trescaw, St Helen's, and Theon, for fmaller ships. The former is guarded by the batteries at Oliver's Castle; the latter by the Blockhouse, on the eastern side of Trescaw, called Dover. Small coasters bound to the northward have more convenient outlets from these little harbours than from St Mary's, where, at the west end of Hugh Town, there is a fine pier built by the earl of Godolphin, 430 feet long, 20 feet wide in the narrowest part, and 23 feet in height, with 16 feet of water at a fpring, and 10 at a neap tide; fo that under the shelter of this pier, vessels of 150 tons may lie securely. not only close to the quay, but all along the strand of the town.

In this harbour, and in all the little coves of the feveral ifles, prodigious quantities of mackerel may be caught in their featon; also foal, turbot, and plaife, remarkably good in their kind; and ling, which from its being a thicker fish, mellower, and better fed, is very justly preferred to any caught nearer our own coasts. Salmon, cod, pollock, are in great plenty, and pilchards in vaft abundance. To these we may add the alga marina, fucus, or ore-weed, which ferves to feed both their small and great cattle, manures their lands, is burned into kelp, is of use in physic, is sometimes preferved, fometimes pickled, and is in many other refrects very beneficial to the inhabitants, of whom we are next to fpeak.

The people of Scilly in general are robust, handfome, active, hardy, industrious, generous, and goodnatured; fpeak the English language with great propriety; have strong natural parts (though for want of a good school they have little education), as appears by their dexterity in the feveral employments to which they are bred. They cultivate most of their lands as well as can be expected under their prefent circumstances. They are bred from their infancy to the management of their boats, in which they excel; are good fishermen, and excellent pilots. Their women are admirable housewives, spin their own wool, weave it into coarfe cloth, and knit flockings. They have no timber of their own growth, and not much from England; yet they have many joiners and cabinet-makers, who, out of the fine woods which they obtain from captains of thips who put in here, make all kinds of domestic furniture in a very neat manner. They are free from the land-tax, malt-tax, and excife; and being furnished with plenty of liquors from the veffels which are driven into their roads for refreshment, for necessary repairs, or to wait for a fair wind, in return for provisions and other conveniences; this, with what little fifth they can cure, makes the best part of their trade, if we except

Scilly. their kelp, which has been a growing manufacture for these sourceore years, and produces at present about

çool. per annum.

The right honourable the earl of Godolphin is flyled proprietor of Scilly, in virtue of letters-patent granted to the late earl, then Lord Godolphin, dated the 25th of July 1698, for the term of 89 years, to be computed from the end and expiration of a term of 50 years, granted to Francis Godolphin, Efq. by King Charles I. that is, from the year 1709 to 1798, when his leafe determines. In virtue of this royal grant, his lordship is the fole owner of all lands, houles, and tenements; claims all the tithes, not only of the fruits of the earth. but of fish taken at fea and landed upon those premises: harbour-duties paid by ships, and one moiety of the wrecks, the other belonging to the admiralty. There is only one ecclefiaftical person upon the islands, who refides at St Mary's, and vifits the other inhabited islands once a-year. But divine service is performed, and fermons read, every Sunday in the churches of those islands, by an honest layman appointed for that purpose; and there are likewise church-wardens and overfeers, regularly chofen in every parish. As to the civil government, it is administered by what is called the Court of Twelve; in which the commander in chief, the proprietor's agent, and the chaplain, have their feats in virtue of their offices; the other nine are chosen by the people. These decide, or rather compromife, all differences; and punish small offences by fines, whippings, and the ducking-fool: as to greater enormities, we may conclude they have not been hitherto known; fince, except for the foldiers, there is no prison in the islands. But in case of capital offences. the criminals may be transported to the county of Cornwall, and there brought to justice.

The great importance of these islands arises from their advantageous fituation, as looking equally into St George's channel, which divides Great Britain from Ireland, and the English channel, which separates Britain from France. For this reason, most ships bound from the fouthward strive to make the Scilly islands, in order to fleer their course with greater certainty. It is very convenient also for vesfels to take shelter amongst them; which prevents their being driven to Milford Haven, nay fometimes into some port in Ireland, if the wind is flrong at eaft; or, if it blow hard at northwest, from being forced back into some of the Cornish harbours, or even on the French coalts. If the wind should not be very high, yet if unfavourable or unsteady, as between the channels often happens, it is better to put into Scilly, than to beat about at fea in bad weather. The intercourse between these two channels is another motive why ships come in here, as choosing rather to wait in lafety for a wind, than to run the hazard of being blown out of their course; and therefore a strong gale at east foldom fails of bringing thirty or forty vessels, and frequently a larger number, into Scilly; not more to their own fati faction than to that of the inhabitants. Ships homeward bound from America often touch there, from the defire of making the first land in their power, and for the fake of refreshment. Thefe realons have an influence on foreign thips, as well fafely into St Mary's harbour, and, when the wind

ferves, through their founds. Upon firing a gun and Sollly making a wait, a boat immediately puts off from the nearest island, with feveral pilots on board; and having with amazing activity dropped one of them into every flip, till only two men are left in the boat, these return again to land, as the wind and other circumstances droped in one of their little agus.

direct, in one of their little coves. Respecting a current which often prevails to the westward of Scilly, Mr Rennel has published fome observations of much importance. " It is a circumflance (fays he) well known to feamen, that thips, in coming from the Atlantic, and fleering a course for the British channel, in a parallel fomewhat to the fouth of the Scilly islands, do notwithstanding often find themselves to the north of those itlands; or, in other words, in the mouth of St George's or of the Brittol channel. This extraordinary error has paffed for the effects either of bad fleerage, bad observations of latitude, or the indraught of the Brittol channel: but none of these account for it fatisfactorily; because, admitting that at times there may be an indraught, it cannot be supposed to extend to Scilly; and the cafe has happened in weather the most favourable for navigating and for taking observations. The consequences of this deviation from the intended tract have very often been fatal; particularly in the lofs of the Nancy packet in our own times, and that of Sir Cloudestev Shovel and others of his fleet at the beginning of the present century. Numbers of cases, equally melancholy, but of less celebrity, have occurred; and many others, in which the danger has been imminent, but not fatal, have fearcely reached the public ear; All of these have been referred to accident; and therefore no attempt feems to have been made to investigate the cause of them.

"I am, however, of opinion, that they may be imputed to a specific cause; namely, a current; and I shall therefore endeavour to investigate both that and its effects, that seamen may be apprized of the times when they are particularly to expect it in any considerable degree of strength; for then only it is ikkely to occasion mischief, the current that prevails at ordinary times being probably too weak to produce an error in the recknoning, equal to the difference of parallel between the south part of Scilly and the track in which a commander, prudent in his measures, but unsufficious of a current,

would choose to fail."

The original cause of this current is the prevalence of westedly winds in the Atlantic, which impel the waters along the north coast of Spain, and accumulate them in the bay of Bilcay; whence they are produced along the coast of France, in a direction north-well by west to the west of Scilly and Ireland. The major affigns strong reasons for the existence of this current letween Ushant and Ireland, in a chart of the tracks of the Hector and Atlas, East India ships, in 1778 and 1787. The following remarks on the effect of this current are abridged from the author's work, which is well worthy the perustal of all failors and shipmilters.

ift, If a hip croffes it obliquely, that is in an eafby fouth or more foutherly direction, the will continue much longer in it, and of course he more affected by it, thun if the croffed it more directly. The fame confequence will have n if the cryffes it with light winds, 24by. A good of travition of latitude at noon wall be thought a fulficient warrant for running early and bu-

ring a long night; yet, as it may be possible to remain in the current long enough to be carried from a parallel, which may be deemed a very fafe one, to that of the rocks of Sciliy, it would appear prudent, after experiencing a continuance of strong westerly winds in the Atlantic, and approaching the Channel with light foutherly winds, either to make Ushant in time of peace, or at all events to keep in the parallel of 48° 45' at the highest. 3dly, Ships, bound to the westward, from the mouth of the Channel, with the wind in the fouth-west quarter, should prefer the larboard tack. 4thly, Major Rennel approves the defign of removing the light-house of Scilly (if it be not already removed) to the fouth-west part of the high rocks. 5thly, He recommends the fending a vessel, with time-keepers on board, to examine the foundings between the parallels of Scilly and Uthant; from the meridian of the Lizard Point as far west as the moderate depths extend. A fet of time-keepers, he observes, will effect more in one summer, in skilful

hands, than all the science of Dr Halley could do in the

courfe of a long life.

In time of war, the importance of these islands is still more conspicuous; and it is highly probable, that they afforded the allies a place for affembling their fleet, when the Britons, Danes, Scots, and Irish, failed under the command of Anlaff, to attack King Athelftan; which convinced him of the necessity of adding them to his dominions. Upon the like principle, Henry VIII, when upon bad terms with his neighbours, caused an old fortress to be repaired, and Oueen Elizabeth, who had more to fear, directed the construction of a castle, which, in part at least, still remains. But the most fingular instance of the detriment that might arife from thele islands falling into other hands than our own happened in 1651, when Sir John Grenville took shelter in them with the remains of the Cornish cavaliers. For the depredations committed by his frigates foon made it evident that Scilly was the key of the English commerce; and the clamours of the merchants thereupon rose so high, that the parliament were forced to fend a fleet of fifty fail, with a great body of land forces on board, under Sir George Ayfcue and Admiral Blake, who with great difficulty, and no inconfiderable lofs, made themselves matters of Trescaw and Brehar; where they erected those lines and fortifications near the remains of the old fortrefs that are called Oliver's Cafile. But at length, finding that little was to be done in that way, they chose to grant Sir John Grenville a most honourable capitulation, as the fureit means to recover places of fuch confequence; with which the parliament were very little fatisfied, till Mr Blake gave them his reason; which appeared to be so well founded, that they directed the articles he had concluded to be punctually carried into execution.

SCIO, or CHIO, a celebrated island of the Archipelago (fee CHIO). It is 32 miles long and 12 foroad, and is a mountainous but very pleasant country. The principal mountain, called anciently Pelinæus, presents to view a long lofty range of bare rock, reflectling the sun, but the recesses at its feet are diligently cultivated, and reward the husbandman by their rich produce. The slopes are clothed with vines. The groves of lemon, orange, and citron trees, regularly planted, at once perfume the air with the odour of their bloffoms, and

delight the eye with their golden fruit. Myrtles and jafmine are interspersed, with olive and palm trees, and Scioppius, cypresses. Amid these the tall minarets rise, and white houses glitter, dazzling the beholder. The inhabitants export a large quantity of pleafant wine to the neighbouring islands, but their principal trade is in filks. They have also a small commerce in wool, cheefe, figs, and mastich. The women are better bred than in other parts of the Levant; and though the drefs is odd, yet it is very neat. The partridges are tame, being fent every day into the fields to get their living, and in the evening are called back with a whittle. The town called Scio is large, pleafant, and the best built of any in the Levant, the houses being beautiful and commodious, fome of which are terraffed, and others covered with tiles. The streets are paved with flint-stones; and the Venetians, while they had it in their possession, made a great many alterations for the better. The caftle is an old citadel built by the Genoese, in which the Turks have a garrison of 1400 men. The harbour of Scio is the rendezvous of all shipping that goes to or comes from Constantinople, and will hold a fleet of fourscore vessels. They reckon there are 10,000 Turks, 100,000 Greeks, and 10,000 Latins, on this island. The Turks took it from the Venetians in 1695. Scio is a bishop's fee, and is feated on the fea-fide, 47 miles west of Smyrna, and 210 fouth-west of Constantinople.

There are but few remains of antiquity in this place. "The most curious of them (fays Dr Chandler) is that which has been named without reason the School of Homer. It is on the coast at some distance from the city northward, and appears to have been an open temple of Cybele, formed on the top of a rock. The thape is oval, and in the centre is the image of the goddefs, the head and an arm wanting. She is represented, as usual, fitting. The chair has a lion carved on each side, and on the back. The area is bounded by a low rim or feat, and about five yards over. The whole is hewn out of the mountain, is rude, indistinct, and probably of the most remote antiquity. From the slope higher up is a fine view of the rich vale of Scio, and of the channel, with its shinking islands, beyond which are the mountains

on the mainland of Afia."

SCIOPPIUS, GASPAR, a learned German writer of the 17th century, was born at Neumark in the Upper Palatinate on the 27th of May 1576. He studied at the university with so much success, that at the age of 16 he became an author; and published books, says Ferrari, which deserve to be admired by old men. His dispositions did not correspond with his genius. Naturally passionate and malevolent, he assaulted without mercy the characters of eminent men. He abjured the fystem of the Protestants, and became a Roman catholic about the year 1599; but his character remained the same. He possessed all those qualities which fitted him for making a distinguished figure in the literary world; imagination, memory, profound learning, and invincible impudence. He was familar with the terms of reproach in most of the languages. He was entirely ignorant of the manners of the world. He neither showed respect to his superiors, nor did he behave with decency to his equals. He was possessed with a frenzy of an uncommon kind; he was indeed a perfect firebrand, feattering around him, as if for his amusement, the most atrocious calumnies. Joseph Scaliger, above

Scioppius, all others, was the object of his fatire. That learned man, having drawn up the history of his own family, and deduced its genealogy from princes, was feverely attacked by Scioppius, who ridiculed his high pretenfions. Scaliger in his turn wrote a book entitled The Life and Parentage of Gaspar Scioppius, in which he informs us, that the father of Scioppius had been fucceffively a grave-digger, a journeyman stationer, a hawker, a foldier, a miller, and a brewer of beer. We are told that his wife was long kept as a miltrefs, and at length forfaken by a debauched man whom the followed to Hungary, and obliged to return to her husband; that then he treated her harshly, and condemned her to the lowest offices of servitude. His daughter, too, it is faid, was as diforderly as her mother; that after the flight of her husband, who was going to be burned for fome infamous crimes, flie became a common proftitute; and at length grew fo fcandalous, that she was committed to prifon. These severe accusations against the family of Scioppius inflamed him with more eagerness to attack his antagonist anew. He collected all the calumnies that had been thrown out against Scaliger, and formed them into a huge volume, as if he had intended to crush him at once. He treated with great contempt the king of England, James I. in his Ecclefiaficus, &c. and in his Collyrium Regium Britannie Regi graviter es oculis laboranti munere miffum; that is, "An Eye falve for his Britannic Majefty," In one of his works he had the andacity to abuse Henry IV. of France in a most fcurrilous manner, on which account his book was burned at Paris. He was hung in effigy in a farce which was represented before the king of England, but he gloried in his dishonour. Provoked with his infolence to their fovereign, the fervants of the English ambaffador affaulted him at Madrid, and corrected him severely; but he boailed of the wounds he had received. He publifted more than thirty defamatory libels against the Jefuits; and, what is very furprifing, in the very place where he declaims with most virulence against that society, he subscribes his own name with expressions of piety. I Gaspar Scioppius, already on the brink of the grave, and ready to appear before the tribunal of Jesus Christ to give an account of my works. Towards the end of his life he employed himfelf in fludying the Apocalyfe, and affirmed that he had found the key to that mysterious book. He sent some of his expositions to Cardinal Mazarine, but the cardinal did not find it convenient to read them.

Ferrari tells us, that during the last fourteen years of his life he thut himself up in a small apartment, where he devoted himself folely to study. The same writer acquaints us, that he could repeat the Scriptures almost entirely by heart; but his good qualities were eclipfed by his vices. For his love of flander, and the furious affaults which he made upon the most eminent men, he was called the Cerberus of literature. He accuses even Cicero of barbarisms and improprieties. He died on the 19th November 1649, at the age of 74, at Padua, the only retreat which remained to him from the multitude of enemies whom he had created. Four hundred books are ascribed to him, which are said to discover great genius and learning. The chief of these are, 1. Veresimilium Libri iv. 1596, in 8vo. 2. Commentarius de arte critica, 1661, in 8vo. 3. De fua ad Catholicos migratione, 1660, in 840. 4. Notationes Critica in

Phædrum, in Priapeia, Patavii, 1664, in 8vo. 5. Suf- Scioppius peclarum lectionum Libri v. 1664, in 8vo. 6. Classicum Scircoch helli facri, 1619, in 4to. 7. Collyrium regium, 1611, in 8vo. 8. Grammatica Philef phica, 1644, in 8vo. 9. Relatio ad Reges et Principal de Strategematibus Societatis Jefu, 1641, in 12mo. This last mentioned was published under the name of Alphonfo de Vargas. He was at first well disposed to the Jesuits; but these fathers on one occasion opposed him. He presented a petition to the diet of Ratifbon in 1630, in order to obtain a pension; but the Jesuits, who were the confessors both of the emperor and the electors, had influence to prevent the petition from being granted. From that moment Scioppius turned his whole artillery against

SCIOPTIC, or SCIOPTRIC BALL, a fphere or globe of wood, with a circular perforation, where a lens is placed. It is fo fitted, that, like the eye of an animal, it may be turned round every way, to be used in making

experiments of the darkened room.

SCIPIO, PUBLIUS CORNELIUS, a renowned Roman general, furnamed Africanus, for his conquests in that country. His other fignal military exploits were, his taking the city of New Carthage in a fingle day; his complete victory over Hannibal, the famous Carthaginian general; the defeat of Syphax king of Numidia, and of Antiochus in Asia. He was as eminent for his chastity, and his generous behaviour to his prisoners, as for his valour, He died 180 B. C. aged about 51.

Scipio, Lucius Cornelius, his brother, furnamed Afiaticus, for his complete victory over Antiochus at the battle of Magnefia, in which Antiochus loft 50,000 infantry and 4000 cavalry. A triumph, and the furname of Affaticus, were the rewards of his valour. Yet his ungrateful countrymen accused him, as well as his brother, of peculation; for which he was fined; but the public fale of his effects proved the fallshood of the charge; for they did not produce the amount of the fine. He flourished about 190 B. C.

Scipio, Publius Emilianus, was the fon of Paulus Emilius; but being adopted by Scipio Africanus, he was called Scipio Africanus junior. He showed himself worthy of adoption, following the footsteps of Scipio Africanus, whom he equalled in military fame and public virtues. His chief victories were the conquest of Carthage and Numantia; yet these signal services to his country could not protect him from an untimely fate. He was strangled in his bed by order of the Decemviri, who dreaded his popularity, 129 B. C. aged

SCIRO, an island of the Archipelago, to the west of Mytilene, to the north-east of Negropont, and to the fouth-east of Sciati. It is 15 miles in length, and eight in breadth. It is a mountainous country, but has no mines. The vines make the beauty of the island, and wine is excellent; nor do the natives want wood. There is but one village; and that is built on a rock, which runs up like a sugar-loaf, and is 10 miles from the harbour of St George. The inhabitants are all Greeks, the cadi being the only Turk among them.

SCIROCHO, or Strocco, a name generally given in Italy to every unfavourable wind. In the fouth well it is applied to the hot fuffocating blaffs from Africa, and in the north-east it means the cold bleak winds from

the Alps.

SCO SCIRPUS, a genus of plants belonging to the triandria class; and in the natural method ranking under the third order, Calamaria. See BOTANY Index.

SCIBRHUS, in Surgery and Medicine, a hard tumor of any part of the body, void of pain, arifing, as is supposed, from the inspissation and induration of the fluids contained in a gland, though it may also appear in any other part of the body, especially in the fat; being one of the ways in which an inflammation terminates. These tumors are exceedingly apt to degenerate into

SCITAMINEÆ, one of the natural orders of plants. See BOTANY Index.

SCIURUS, the SQUIRREL; a genus of quadrupeds belonging to the order of glires. See MAMMALIA Index.

Sciurus, a genus of plants belonging to the diandria class; and in the natural method ranking with those

that are doubtful. See BOTANY Index.

SCLAVONIA, a country of Europe, between the rivers Save, the Drave, and the Danube. It is divided into fix counties, viz. Posegra, Zabrab, Creis, Warafden, Zreim, and Walpon, and belongs to the house of Auttria. It was formerly called a kingdom; and is very narrow, not being above 75 miles in breadth; but it is 300 in length, from the frontiers of Austria to Belgrade. The eaftern part is called Ratzia, and the inhabitants Ratzians. These from a particular notion, are of the Greek church. The language of Sclavonia is the mother of four others, namely, those of Hungary, Bohemia, Poland, and Ruffia.

SCLERANTHUS, a genus of plants belonging to the dodecandria class; and in the natural method ranking under the 22d order, Caryophyllese. See BOTANY

Index.

SCLERIA, a genus of plants belonging to the monœcia class; and in the natural method ranking under the 4th order, Gramina. See BOTANY Index.

SCLEROTICS, medicines which are supposed to have the property of hardening and confolidating the flesh of the parts to which they are applied; as purslain, house-leek, flea-wort, garden nightshade, &c.

SCOLOPAX, a genus of birds belonging to the order of grallæ. See ORNITHOLOGY Index.

SCOLOPENDRA, a genus of infects belonging to the order of aptera. See Entomology Index.

SCOLYMUS, a genus of plants belonging to the fyngenefia class; and in the natural method ranking under the 40th order, Compositæ. See BOTANY Index.

SCOMBER, the MACKEREL, a genus of fishes belonging to the order of thoracici. See ICHTHYOLOGY

SCONCES, fmall forts, built for the defence of

fome pass, river, or other place. Some sconces are made regular, of four, five, or fix bastions; others are of finaller dimensions, fit for passes or rivers; and others for the field.

SCONE, a village of Scotland, now chiefly remarkable for being the place where the kings were anciently crowned. W. Long. 3. 10. N. Lat. 56. 28. Here was once an abbey of great antiquity, which was burnt by the reformers at Dundee. Kenneth II. upon his conquest of the Picts in the ninth century, having made Scone his principal refidence, delivered his laws, called the Macalpine laws, from a tumulus, named the Mote

Hill of Scone. The old palace was begun by the earl Scores of Gowrie; but was completed by Sir David Murray of Gospatric, the favourite of King James VI. to whom that monarch had granted it; and the new poffessor in gratitude to his benefactor put up the king's arms in feveral parts of the house. It was built around two courts. The dining room was large and handfome; and had an ancient and magnificent chimney-piece, and the king's arms, with this motto:

Nobis hæc invicia miferunt centam fex proavi.

Beneath were the Murray arms. In the drawing room was some good old tapestry, with an excellent figure of Mercury. In a small bed-chamber was a medley scripture-piece in needle-work, with a border of animals, faid to be the work of Queen Mary during her confinement in Loch Leven castle. The gallery was about Iss feet long, the top arched, divided into compart. ments filled with paintings in water-colours. The pieces represented were various kinds of huntings; that of Nimrod, and King James and his train, appear in every piece. But the whole of this building we believe has been demolished, and a most magnificent pile erected in its place by the earl of Mansfield, who is hereditary keeper. Till the destruction of the abbey, the kings of Scotland were crowned here, fitting in the famous wooden chair which Edward I. transported to Westminster abbey, to the great mortification of the Scots, who looked upon it as a kind of palladium. Charles II. before the battle of Worcester, was crowned in the chapel at Scone. The old pretender refided for fome time at Scone in 1715; and his fon paid it a vifit in 1745.

SCOPARIA, a genus of plants belonging to the tetrandria class; and in the natural method ranking under the 40th order, Personata. See BOTANY Index.

SCOPER or Scupper Holes, in a ship, are holes made through the fides, close to the deck, to carry off

the water that comes from the pumps.

SCOPOLIA, a genus of plants belonging to the gynandria class; and in the natural method ranking under the 11th class, Sarmentaceae. See BOTANY Index. SCORBUTUS, the Scurvy. See MEDICINE, Nº 8.

SCORDIUM, or WATER-GERMANDER. See TEU-

CRIUM, BOTANY Index.

SCORIA, or DROSS, among metallurgifts, is the recrement of metals in fusion; or, more determinately fpeaking, is that mass which is produced by melting metals and ores: when cold, it is brittle, and not diffoluble in water, being properly a kind of glass. SCORIFICATION, in Metallurgy, is the art of re-

ducing a body, either entirely or in part, into fcoria.

SCORPÆNA, a genus of fishes belonging to the order thoracici. See ICHTHYOLOGY Index.

SCORPIO, a genus of infects belonging to the order of aptera. See Entomology Index.

Scorpion, in Astronomy, the eighth fign of the zodiac denoted by the character m. See ASTRO-

SCORPION Fly. See PANORPA, ENTOMOLOGY Index.

SCORPIURUS, CATERPILLARS, a genus of plants belonging to the diadelphia class; and in the natural method ranking under the 32d order, Papilionaceæ. See BOTANY Index.

Seorgonera Scotales.

SCORZONERA, VIPER-GRASS, a genus of plants belonging to the fyngenefia class; and in the natural method ranking under the 49th order, Compositæ. See BOTANY Index.

SCOT, a customary contribution laid upon all subjects, according to their abilities. Whoever were affelfed in any fum, though not in equal proportions, were

faid to pay fcot and lot.

Scor, Michael, of Balwirie, a learned Scottish author of the 13th century. This fingular man made the tour of France and Germany; and was received with some diffinction at the court of the emperor Frederic II. Having travelled enough to gratify his curiofity or his vanity, he returned to Scotland, and gave himself up to study and contemplation. He was skilled in languages; and, considering the age in which he lived, was no mean proficient in philosophy, mathematics, and medicine, He translated into Latin, from the Arabic, the history of animals by the celebrated physician Avicenna. He published the whole works of Aristotle, with notes, and affected much to reason on the principles of that great philosopher. He wrote a book concerning The Secrets of Nature, in which he treats of generation, physiognomy, and the figns by which we judge of the temperaments of men and women. We have also a tract of his On the Nature of the Sun and Moon. He there speaks of the grand operation, as it is termed by alchymists, and is exceedingly folicitous about the projected powder, or the philosopher's stone. He likewise published what he calls Mensa Philosophica, a treatise replete with astrology and chiromancy. He was much admired in his day, and was even suspected of magic; and had Roger Bacon and Cornelius Agrippa for his panegyrists.

Scot, Reginald, a judicious writer in the 16th century, was the younger fon of Sir John Scot of Scot'shall, near Smeethe in Kent. He studied at Hart-hall in the university of Oxford; after which he retired to Smeethe, where he lived a studious life, and died in 1599. He published, The perfect Platform of a Hop-Garden; and a book intitled, The Discovery of Witchcraft; in which he showed that all the relations concerning magicians and witches are chimerical. This work was not only cenfured by King James I. in bis Damonology, but by feveral eminent divines; and all the copies of it that could be found were burnt.

SCOTAL, or SCOTALE, is where any officer of a forest keeps an ale-house within the forest, by colour of his office, making people come to his house, and there fpend their money for fear of his displeasure. We find it mentioned in the charter of the forest, cap. 8. " Nullus forrestarius faciat Scotallas, vel garbas colligat, vel aliquam collectam faciat," &c. Manwood, 216 .- The word is compounded of fcot and ale, and by transposition

of the words is otherwise called aleshot.

SCOTALES, were meetings formerly held in England for the purpose of drinking ale, of which the expence was paid by joint contribution. Thus the tenants of South Malling in Suffex, which belonged to the archbishop of Canterbury, were, at the keeping of a court, to entertain the lord or his bailiff with a drinking, or an ale; and the stated quotas towards the charge were, that a man should pay threepence halfpenny for himself and his wife, and a widow and cottager a penny halfpenny. In the manor of Ferring, in the same county, and under the same jurisdiction, it was the custom for

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the tenant's named to make a fcotale of fixteenpence Stotales halfpenny, and to allow out of each fixpence a penny Nova Scohalfpenny for the bailiff.

Common scotales in taverns, at which the elergy were not to be prefent, are noticed in feveral ecclefiaitical canons. They were not to be published in the church by the clergy or the laity; and a meeting of more than ten persons of the same parish or vicinage was a fcotale that was generally prohibited. There were also common drinkings, which were denominated leet-ale, bride-ale, clerk ale, church-ale. To a leet-ale probably all the refidents in a manorial diffrict were contributors; and the expence of a bride-ale was defrayed by the relations and friends of a happy pair, who were not in circumstances to bear the charges of a weding dinner. This custom prevails occasionally in sume diffricts of Scotland even at this day, under the denomination of a penny bride-ale, and was very common about half a century ago. The clerk's-ale was in the Easter holidays, and was the method taken to enable clerks of parishes to collect their dues more readily.

Mr Warton, in his history of English Poetry, has inferted the following extract from an old indenture, which clearly shews the design of a church-ale, " The parishioners of Elveston and Okebrook, in Derby-shire, agree jointly to brew four ales, and every ale of one quarter of malt, betwixt this and the feast of St John the Baptift next coming; and that every inhabitant of the faid town of Okebrook shall be at the several ales. Every husband and his wife shall pay twopence, every cottager one penny; and all the inhabitants of Elvetton shall have and receive all the profits and advantages coming of the faid ales, to the ufe and behoof of the faid church

of Elveston."

The give-ales were the legacies of individuals, and from that circumstance entirely gratuitous. They seem to have been very numerous, and were generally left to the poor; though, from the largeness of the quantity of ale enjoined to be brewed, it must have been sometimes intended that others were to partake of them. These bequests were likewise made to the altar of a faint, with directions for finging masses at the obit, or anniversary of the testator. The give-ales were sometimes dispensed in the church, and frequently in the church-yard, by which means Godde's house was made a tavern of gluttons. Such certainly would be Chalk-church, if in it was kept the give-ale of William May of that parish; for he ordered his wife " to make in bread fix buthels of wheat, and in drink 10 bushels of mault, and in cheefe 20d. to give to poor people, for the health of his foull; and he ordered that, after the deceale of his wife. his executors and feoffees, should continue the custom for evermore."

SCOTER. See ANAS, ORNITHOLOGY Index.

NOVA SCOTIA, or New SCOTLAND, one of the British settlements in North America, situated between 43° and 49° north latitude, and between 60° and 67° west longitude, is bounded by the river St Laurence on the north; by the gulf of St Laurence and the Atlantic ocean on the east; by the same ocean on the fouth; and by Canada and New England on the west .- In the year 1784, this province was divided into two governments. The province and government now flyled N. w. Brunfwick, is bounded on the weltward of the mouth of the river St Croix, by the faid river to its fource, and \* D

Nova Sco. by a line drawn due north from thence to l'a fouthern boundary of the province of Quebec; to the northward by the faid boundary as far as the western extremity of the bay de Chaleurs; to the earlward by the faid bay to the gulf of St Laurence to the bay called Bay Verte, to the fouth by a line in the centre of the cay of Tundy, from the river St Croix afcretaid, to the mouth of the Musquat river, by the faid river to its fource, and from thence by a due east line across the inthmus into the Bay Verte, to join the eastern lot above described, including all islands within fix leagues of the coaft.

The chief rivers are, the river of St Laurence, which forms the northern boundary. The rivers Rifgouche and Nipifiguit run from well to east, and fall into the bay of St Laurence. The rivers of St John, Paffamagandi, Penobicot, and St Croix, which run from north to fouth, fall into Fundy bay, or the fea a little

to the eastward of it.

The feas adjoining to it are, the Atlantic ocean, Fundy bay, and the guli of St Laurence. The leffer bays are, Chenigto and Green Bay upon the ifthmus which joins the north part of Nova Scotia to the fouth; and the bay of Chaleurs on the north east; the bay of Chedibucto on the fouth east; the Bay of the Islands, the ports of Bart, Chebucto, Prosper, St Margaret, La Heve, Port Maltois, Port Ryfignal, Port Vert, and Port Joly, on the fouth; Port La Tour on the foutheast; Port St Mary, Annapolis, and Alinas on the fouth fide of Fundy bay, and Port Roleway, now the most populous of all .- The chief capes are, Cape Portage, Ecoumenac, Tourmentin, Cape Port, and Epis, on the east; Cape Fogerie and Cape Canceau on the foutheaft; Cape Blanco, Cape Vert, Cape Theodore, Care Dore, Cape La Heve, and Cape Negro, on the fouth; Cape Sable and Cape Fourche on the fouth-west .- The lakes are very numerous, but have not yet received particular names.

The face of the country, when viewed at a diffance, prefents a pleafingly variegated appearance of hills and valleys, with fearcely any thing like mountains to interrupt the prospect, especially near the sea. A nearer approach discovers those sublime and beautiful scenes which are fo far superior to the gaudy embellishments of art. Immense forests, formed of the tallest trees, the growth of ages, and reaching almost to the clouds, everywhere cover and adorn the land: their leaves falling in autumn, add continually to that crust of mois, vegetables, and decaying wood, that has for many centuries been accumulating; whilft the rays of the fun, unable to pierce the thick thade which everywhere covers the ground, leaves it in a perpetual state of damp and rottennels; a circumstance which contributes, in no small degree, to increase the sharpness of the air in winter.

The clouds, flying over the higher grounds, which are covered in every direction with one vast forest, and arrested by the attraction of the woods, fill the country with water. Every rock has a fpring, and every fpring causes a swamp or morass, of greater or less extent in proportion to its cause: hence it is, that travelling becomes almost impracticable in fummer, and is feldom attempted, but in the fall of the year, when winter begins to fet in, and the ground is already frozen.

The land throughout the peninfula is in no part mountainous, but frequently rifes into hills of gradual afcent, everywhere clothed with wood. From thefe arife innumerable fprings and rivulets, which not only Nova Scoferulize and adorn the country, but have formed, in the midst of it, a large lake or piece of fresh water, which is of various depths, and of which, however, little more is known, than that it has upon its borders very large tracks of mendow-land highly improveable. That part of the province which is Leyond the bay of Fundy. and extends to the river St Laurence, rifes also gradually as we advance from the fea quite to Canada; but is, however, hardly anywhere mountaineus. Its lands are for the most part very rich, particularly at a diffance from the tea; and its woods abound with the hardelt and leftieft trees.

Though this country, like Canada, is subject to long and fevere winters, fucceeded by fudden and violent heats, often much greater than what are felt in the fame latitudes in Europe, yet it cannot be accounted an un-healthy climate. The air in general in winter is very illary, from, and dry; the fky ferene and unclouded. is rendered pleafant and agreeable. The fogs are frequent near the fea, but feldom ipread themselves to any

The winter commonly breaks up with heavy rains, and the inhabitants experience hardly any of the delights of the fpring, which in England is recounted the most agreeable featon of the ye r. From a liteless and dreary appearance, and the gloomy scenes of witter off its fer idding attire, and in a few days exhibits a grand and pleafant prospect; the vegetation being inconceivably rapid, nature passes suddenly from one extreme to another, in a manner utterly unknown to countries accultomed to a gradual pro reilion of featons. And, thrange as it appears, it is an acknowledged fact, a fact which furnishes a certain proof of the purity of the ai-, that these sudden changes seldom, if ever, affect the

In this country agriculture has yet made but small progrefs. Nova Scotia is almott a continued foreit, producing every kind of wood which grows in the neighbouring provinces of New England. Four fifths of all the lands in the province are covered with pines, which are valuable not only for furnishing masts, spars, lumber for the fugar plantations, and timber for building, but for yielding tar, pitch, and turpentine, commodities which are all procured from this useful tree, and with which the mother-country may in a few years

eafily be fupplied.

The various species of birch, beech, and maple, and feveral forts of spruce, are found in all parts in great abundance; as also numerous herbs and plants, either not common to, or not known in, England. Amongst these none is more plentiful than sarfaparilla, and a plant whose root relembles rhubarb in colour, tatle, and effects; likewife the Indian or mountain tea, and maiden-hair, an herb much in repute for the fame purpose, with thrubs producing strawberries, raspberries, and many other pleafant fruits, with which the woods in fummer are well stored: Of these wild productions the cherries are best, though smaller than ours, and growing in bunches somewhat resembling grapes. The faffafras tree grows plentifully in common with others; but amongst them none is more useful to the inhabitants than a species of maple, distinguished by the name of Nov. See- the Jugar tree, as affording a confiderable quantity of that valuable ingredient. See SUGAR.

Amongst the natural productions of Nova Scotia, it is necessary to enumerate their iron-ore, which is supposed equally good with that found in any part of Ame-

rica.

Limeffuse is likewife found in many places; it is extremely good, and is now much used for building: independent of which, it gives the farmers and landholders a great advantage for improving the ground, as it is found by experience to be one of the most approved

things in the world for that purpole.

Several of the useful and most common European fruits have been planted in many places; so that the province now produces great quantities of apples, fame pears, and a few plums, which are all good of their kind, especially the former. The smaller fruits, such as currants, goofeberries, &c. grow to as great perfection as in Europe; and the fame may be faid of all the common and uleful kinds of garden plants. Among thefe their potatoes have the preference, as being the most ferviceable in a country abounding with fift; and indeed they are not to be exceeded in goodness by any in the world. The maize, or Indian corn, is a native of much warmer climates; and, though planted here, never arrives at more than two-thirds of its natural bigmess; a defect which arises as well from the shortness of the fummer as the gravelly nature of the foil. Tobacco may likewife be cultivated with eafe in Nova Scotia, as it is already everywhere in Conada, from Lake Champlain to the ifle of Orleans, for the purpose of internal

This country is not deficient in the animal productions of the neighbouring provinces, particularly deer, beavers, and otters. Wild fowl, and all manner of game, and many kinds of European fowls and quadrupeds, have from time to time been brought into it and thrive well. At the close of March the fish begin to frawn. when they enter the rivers in fuch shoals as are incredible. Harrings come up in April, and the sturgeon and falmon in May. But the most valuable appendage of New Scotland is the Cape Sable coast, along which is one continued range of cod-fithing banks and excellent harbours. This fiftery employs a great number of men, in some feasons not less than 10,000, when 120,000 quintals are caught, of which 10,000 may be exported. Thefe, at the lowest price, must bring into the colony 26,000l. Berling, either in cash or in commodities necessary to the inhabitants. But this estimation, it must be observed, refers to a distant period, as that trade has now greatly increased.

Notwithflanding the comparatively uninviting appearance of this country, it was here that fome of the first European fettlements were made. The first grant of lands in it was given by James I, to his fecretary Sir William Alexander, from whom it had the name of Nova Scotia or New Sestland. Since that period it has frequently changed proprietors, fometimes in the roffession of the French, and fometimes in that of the Eng-

Hilli.

In 1604, the French fift fettled in Nova Scotia, to which they gave the name of Acada. Intead of faxing towards the eaft of the perinfula, where they would have had larger feas, an eafy navigation, and plenty of cod, they choic a finall bay, aftertards called French

Bay, which had none of these advantages. It has been Nova Scofaid, that they were invited by the beauty of Port Royal, where a thouland thips may ride in tafety from every wind, where there is an excellent bottom, and at all times four or five fathoms of water, and eighteen at the entrance. It is more probable that the founders of this colony were led to choose this fituation, from as vicinity to the countries abounding in furs, of which the exclusive trade had been granted to them. This conjecture is confirmed by the following circumstance: that both the first monopolizers, and those who succeeded them, took the utmost pains to divert the attention of their countrymen, whom an unfettled dilposition, or necellity, brought into these regions, from the clearing of the woods, the breeding of cattle, fishing, and every kind of culture : choofing rather to engage the industry of these adventurers in hunting or in trading with the

This colony was yet in its infancy when the fettlement, which has fince become fo famous under the name of New England, was first established in its neigh our-lood. The rapid fuccels of the plantations in this new colony did not much attract the notice of the French. This kind of prosperity did not excite any jealousy between the two nations. But when they began to suffered that there was likely to be a competition for the beaver trade and furs, they endeavoured to secure to themselves the fole property of it, and were unfortunate

enough to fucceed.

At their first arrival in Acadia, they had found the peninfula, as well as the foreits of the neighbouring continent, peopled with finall favage nations, who went under the general name of Abenakies. Though equally fond of war as other favage nations, they were more fociable in their manners. The miffionaries eafily infinuating themselves among them, had so far inculcated their tenets as to make enthufiafts of them. At the fame time that they taught them their religion, they inspired them with that hatred which they themselves entertained for the English name. This fundamental article of their new worthip, being that which made the ftrongest impression on their senses, and the only one that favoured their pathon for war, they adopted it with all the rage that was natural to them. They not only refused to make any kind of exchange with the Engtiers of that nation.

This produced perpetual hodilities between the New Englanders and the French fettle:s in Acadia, till that province was, at the peace of Utrecht, for ever ceded to the English, who seemed not for a long time to dilcover the value of their new acquifition. They retlored to it its ancient name of Nova Scotia; and having built a flight fortification at Port-Royal, which they called Annapolis in honour of Queen Anne, they contented themselves with putting a very small garrison into it. In process of time, however, the importance of Nova Scotia to the commerce of Great B.itain began to be perceived; and at the peace of 1749, the minifiry offered particular advantages to all perfons who chose to go over and settle in Acadia. Every foldier, failor, and workman, was to have 50 acres of land for himfelf, and ten for every person he carried over in his family. All non commissioned officers were allowed bo for themselves, and 15 for their wives and children; Nova Sco-enfigns 200; lieutenants 300; captains 400; and all officers of a higher rank 600; together with 30 for

Scotifts each of their dependents. The land was to be tax free for the first ten years, and never to pay above one livre \* About 1s two fols fix deniers \* for fifty acres. Befide this, the government engaged to advance or reimburse the expences of passage, to build houses, to furnish all the neceffary instruments for fishery or agriculture, and to defray the expences of fubfiftence for the first year. These encouragements determined 3740 persons, in the month of May 1749, to go to America, in hopes of bettering their fortune.

Thus encouraged, the province of Nova Scotia began to flourish, though in 1769 it sent out only 14 vesfels and 148 boats, which together amounted to 7324 tons, and received 22 vessels and 120 boats, which together made up 7006 tons. They constructed three floops, which did not exceed 110 tons burden. Their exportation for Great Britain and for the other parts of the globe did not amount to more than 729,850 livres 12 fols 9 deniers +. Continuing, however, true to its allegiance when the other colonies threw off the dominion of Great Britain, it has now become a place of great confequence both to the mother-country and the West Indies. Its shipping and seamen have rapidly increased, as well as its produce, which affords the pleafing prospect of being able to supply itself with all the necessaries of life. It now supplies Britain with timber and fifh to the amount of 50,000l, yearly; and receives from hence linen and woollen cloths to the value of about 30,000l. The number of persons who have abandoned their habitations in the more fouthern provinces, and fettled either there or in Canada, cannot be estimated, by the most moderate calculation, at less than 80.000; and it is without doubt the most convenient in point of fituation of any province in America for a maritime power of Europe to be possessed of.

Scotia, in Architecture, a femicircular cavity or channel between the tores in the bases of columns.

SCOTISTS, a fect of school-divines and philosophers, thus called from their founder J. Duns Scotus, a Scottish cordelier, who maintained the immaculate conception of the virgin, or that the was born without original fin, in opposition to Thomas Aquinas and the Phomists.

As to philosophy, the Scotists were, like the Thomists, Peripatetics (see PERIPATETICS); only distinguiffied by this, that in each being, as many different qualities as it had, so many different formalities did they diffinguish; all diffinct from the body itself, and making as it were fo many different entities; only these were metaphyfical, and as it were superadded to the being.

The Scotists and Thomists likewise disagreed about the Scotists hature of the divine co-operation with the human will, the measure of divine grace that is necessary to salvation, Scottar and other abstruse and minute questions, which it is needless to enumerate.

SCOTLAND, the modern name of that part of the Extent and island of Britain which lies to the north of the Solway boundaries. frith and the river Tweed. It is bounded on the north by that part of the Atlantic called the Northern ocean; on the east by the German ocean or North fea; on the west by the Atlantic ocean, and partly by the Irish sea; and on the fouth by England, the boundary on this fide being formed by the river Tweed, the Cheviot hills, and an ideal line drawn fouth-west down to the Solway frith. Excluding the iflands, the continental part of Scotland extends from the Mull of Galloway in the 55th to Cape Wrath in the 587 degree of north latitude, and from 10 35' to 6° 20' west from the meridian of Greenwich, counting from Buchannels on the east to Ardnamurchan on the west. If we include the islands of Shetland and the Hebrides, we shall find this part of the British empire extending northward to 630, and westward to the isle of St Kilda to 80 18' west longitude. The continental part of Scotland is generally estimated at 260 miles in length, and about 160 at its greatest breadth, and its superficial contents have been computed at 27,793 square miles.

Scotland has been divided into Highlands and Low-Divisions lands; but the boundaries of these are arbitrary and undetermined. A more natural division appears to be that into northern, middle, and fouthern parts. The northern part is bounded to the fouth by a range of lakes, extending from the Murray frith to the island of Mull, in a fouth-west direction, and comprehends the counties of Orkney, Caithness, Sutherland, Ross, Cromarty, and Inverness. The southern division extends northward to the friths of Forth and Clyde, and the canal by which they are united, and comprehends the counties of Linlithgow, Edinburgh, Haddington, Berwick, Renfrew, Ayr, Wigton, Lanark, Peebles, Selkirk, Roxburgh, Dumfries, and Kircudbright. In the midland division are included the counties of Argyle, Bute, Nairn, Moray, Banff, Aberdeen, Mearns, Angus or Forfar, Perth, Fife, Kinrofs, Clackmannan, Stirling, and Dumbarton.

In the following table we have brought together some of the most important circumstances respecting the topography and statistics of these counties, viz. the county town, their extent in fquare acres, their population, according to the latest accounts, and the number of militig which each county is obliged to raife, according to last militia act.

1 About 30,41cl. 8s. 1cd. Sterling.

Scotland.

Scotland.

Table of the

country.

Counties. County Towns. Square Acres. Population. Militia. Orkney and Shetland Kirkwall 46.821 Caithness Wick 402,800 E. 22,600 121 Sutherland Dornoch 2,148,000 E. 23,117 100 Rois Dingwall 561,200 E. 270 Cromarty Cromarty 61,440 E. 3,052 16 Invernels Inverness 2,944,000 E, 74,292 384 361 Argyle Inverary 2.132.000 E. 75,700 Bute Rothfay 238,080 E. 11,791 61 Nairn 153,600 E. 8,257 43 Murray Elgin 537,600 E. 26,705 138 Banff Banff 649,600 E. 35,807 179 Aberdeen Aberdeen 718,816 E. 123,071 640 Mearns Bervie 243,444 E. 26,349 Angus Forfar 593,920 E. 99,127 Perth Perth 4,068,640 E. 126,366 653 Fife Cupar 322,560 E. 93,743 484 Kinrofs Kinrofs 43,920 E. 6,725 35 Clackmannan Culrofs 25,600 E. 10,8;8 56 Stirling Stirling. 450,560 E. 50,825 Dumbarton Dumbarton 159,356 E. 20,710 107 Linlithgow Linlithgow 57,008 S. 17.844 94 645 Edinburgh Edinburgh 230,400 E. 122,954 Haddington 224,000 E. Haddington 154 20,086 Berwick Dunfe 326,400 E. 30,206 155 Renfrew Renfrew 322,560 E. 78,056 404 Avr Avr 1,152,000 E. 84,306 436 Wigton Wigton 238,721 S. 22,918 119 Lanark Lanark 556,800 E. 147,796 751 Peebles Peebles 153,600 E. 8,717 45 25 Selkirk Selkirk 128,000 E. 5,070 Jedburgh 472,320 E. 178 Roxburgh 33,712 Dumfries 1.088.000 E. 284 Dumfries 54,597 440,081 S. Kircudbright Kirkcudbright 29,211 171 1,604,826 8002

the reader is referred to their names in the order of the alphabet.

Scotland is in general extremely mountainous, efce-

Scotland is in general extremely mountainous, efpecially on the northern and weftern fides, whence these parts have been denominated the Highlands. Even the eastern and southern parts of the country have very little of that uniform flatness which diffinguishes some parts of England, but are agreeably diversified with hill and dale. Numerous rivers interfect the country; and several romantic lakes are found at the foot of the most remarkable mountains. There is in general little wood, except in the northern parts, where there are fill immende foreits. Nishing can appear more wild and favage to the eye of a stranger than the Highlands of Scotland. Here the whole country seems composed of blue rocks and dulky mountains heaped upon each other,

For a topographical account of the feveral counties,

with their fides embrowned with heath, and their fummits covered with fnow, which lies unthawed for the greater part of the year, or pours down their jagged fides in a thousand torrents and roaring cataracts, falling into gloomy vales or glens, fome of which are fo deep and narrow, as to be altogether impenetrable by the rays of the fun. Yet even these mountains are in fome places floped into agreeable green hills fit for pasture, and interspersed with pleasant straths or valleys capable of cultivation; and there are feveral extensive diffricts of low fertile ground, though in other parts the interflices of the mountains are rendered nearly impaffable by bogs and moraffes. The entrance into the Highlands from the fouth-east near Dunkeld, is peculiarly impressive, there being here a considerable track of plain, extending to what may be called the gates of the moun-

The

Note.—The writers on Scottift topography have noted the extent of the feveral counties, formetimes in English, and formetimes in Scotch acres. We have therefore affixed to the numbers expressing the acres of each county, F or S, according as they are English or Scotch. The reader may reduce them to either standard by reculteding that the Scotch acre exceeds the English nearly in the proportion of five to four.

Scotland.

The foil of Scotland, which, confidering the little variety of the country, is extremely various, will be beft underflood by examining that of the feveral counties, as deferibed under their respective heads. In some parts, as the carle of Gowrie in Perthibitre, and most of the counties of Haddington and Berwick, the foil vies in fertility with the richell parts of England, or even Ireland, while in the more mountainous tracts of Rashibitre, Sutherland, and Argyle, the country is very little adapted to tillage, and is therefore almost wholly devoted to passuring large slocks of slicep and herds of black cattle.

Mountains.

The principal mountains of Scotland are those of the Grampians, extending from Loch Lomond to Stone-haven, and forming the southern boundary of the Highlands; the Leadhills, partly in Damfries-slare and partly in Lanarkshire; the Cheviot hills, forming the principal part of the southern boundary, and the Ochil hills, north of the river Forth. The highest individual mountains are those of Ben Nevis, Cairngorum, Ben Lawers, Ben More, Ben Lomond, Schehalien, Moount Battock, and Cruschan. The fituation and direction of the mountainous chains, and the minerals which they contain, have been described under Geology, No. 1420.

Bays and gulfs.

The most remarkable inlets of the sea on the Scottish coast are, the friths of Forth, Tay, Solway, Murray, Cremarty, Dornech, and Clyde, and the bays of Wigton and Glenluce. Many of what are called lochs, are properly large gulfs or inlets of the sea, especially Loch Fine, Loch Shin, Loch Proom, and Loch Limshe.

Rivers

The chief rivers of Scotland are the Forth, that divides Stirting and Fife from the Lothians; the Tay, dividing Perth-thire and Angus thire from Fife-thire; the Tweed, forming the boundary between Scotland and England to the eat; the Clyde, palfing through great part of Lanak-thire, and feparating this county from those of Renfrew and Dumbatton; the Dee and the Don, passing through Aberdeen-thire; the Spey, separating the counties of Banti and Murray; the Nith, passing through Dumfires-thire, and the Eden in the county of Fife. See each under their respective names.

Lakes,

The lakes or lochs of Scotland, are chiefly those of Lomond in Dumbarton-thire, Awe, in Argyle-thire, Tay, Katrine, and Erne, in Perth-thire; Loch Nefs in Invern-f-chire; and the classical lake of Leven in Kitrofs thire. See Leven, Lomenn, Tay, &c.

Forests.

We have faid that Scotland is in general bare of wood, though there are numerous traces of its having formerly abounded in forefts. The most remarkable of these was Estrick forest in the county of Seklik'; the forest of Mar in the west of Aberdeen shire, where still remains a considerable trach of woodland, called Abernethy forest; the forest of Setadade to the north of Dun-Robin in the county of Subersland; those of Diraymens, to the north and south of Lock Shin, and the forest of Athol in the county of Parth.

Climate and feaThe climate of Scotland is, if roffible, fill more incouldn't than that of England, and though in general extreasely healthy to the nobul mount incer, it is by no means giril to the valendmarian. The selferm could is exported to the keernefs of the earl wind during the greater part of the year, while the wellern flores, from their vicinity to the Atlantic, are deluged with almost perpetual rain. The winter in this country is remark. Soulisal, able, rather for the abundance of fnow which falls at that feafon, than for the intensity of froil; while in fummer the heat of the fum is reflected with great violence in the narrow violence the mountains, so as sometimes to occasion the appearance of gittering particles that feem to fivin before the eye. The bareness of wood adds to the effects of fidden alternations of the weather, though it contributes to diminish the natural humidity of the air. The spring is in general very late and inclement, so as not unfrequently to destroy the faired prospects of the farmer and the gardener. The harvests are also late, and we have seen corn either uncut, or standing in theaves on the field, in the latter end

of November.

The zoology of Scotland, as diffinguished from that Animale, of England, offers little remarkable to the eye of the naturalist. In the northern counties, and in Galloway to the fouth, there is a breed of small horses, like the Welsh ponies, called shelties, which are extremely hardy, but obstinate and skittish. The cattle in Galloway are often without horns; a circumstance which is faid to add to the quantity and quality of the milk which they produce. One of the chief primitive breeds of cattle in this country are the kylies, fo called from the province of Kyle. These are of a middle fize, and have thort tharp horns pointing upwards. The Scotch theep are smaller and thorter than those of England, but their flesh is much more delicate; and the fleeces of the Shetland sheep are remarkable for the fineness of their wool. Goats are not nearly fo common in the Highlands of Scotland as in most other mountainous tracts, and fwine are very little cultivated, pork not being a favourite food among the inhabitants of North Britain. There feems to be no breed of dogs peculiar to this country; but the colies or fhepherds dogs are remarkable for their fagacity, and are often entrufted with the guardianship of flocks and herds during their master's abtence. There are fearcely any wild quadrupeds peculiar to Scotland. The wolf, indeed, continued here to a much later period than in England, and the wild cat is occasionally observed. Small herds of roes also are still found in some of the northern districts, and seals and porpoiles frequent the fea coasts.

Of the native birds the black cock and the grouse are the moil remarkable. Eagles are often seen on the rocky cliffs, and elegant falcons in the remaining forests. The shores and islands present numerous sea fowl, and the sile of Bass is proverbially the haunt of the solan goose. The golden-crested wren is sometimes seen in the most morthern parts of the country, but the nightingale has never yet been seen north of the

Tweed

The flores of Scotland are abundantly supplied with sith, especially herrings, haddocks, turbots, and lobslers; and the mouths of the great rivers, especially the Tweed and the Tay, surnith an inexhaustible supply of the finest salmon. Oviters are plentiful, but they are not so del'cate as tho'e on the coast of Eslex. Mackerel, whitings, and similts, are uncommon, and sprats are fearciely known. The lakes and streams abound in trout, perch, and other fresh-water sith. The whole semestimes appears on the northern coasts, and the basking shall be not be western instex.

The vegetable productions of Scotland confidered in Vegetables.

2

Seetland, general, differ little from those of England; and those of the whole island may be seen by referring to the article BOTANY, where each British species is marked with an afferik. We may remark, that the warm moult regions of Cornwall, Devonshire, and Dorfet; the range of chalk hills that orms the greater part of the banks of the Thames; the dry fandy tracts of Nufolk, Suffolk, and Cambridge; and the fens of Lincoln-flire, contain many plants that are either unknown, or very rarely met with in North Britain; while on the other hand, the fnowy fummits of the Grampians, the extenfive forests of Badenoch and Braemar, and the block unsheltered rocks of the Hebudes, possess many hardy vegetables not to be found in the fouthern parts of the island. South Britain contains a greater number of frecies peculiar to itself; but those that are similarly circumstanced in this northern division, are of more frequent occurrence. To the English botanist, Scotland will have more the air of a foreign country, than England to a Scottish botanist. The researches of the former will be continually folicited and repaid amid the grand romantic scenery of the Hyhlands, by the appearance of plants either altogether new to him, or which he has been accustomed to consider as the rare reward of minute investigation. In traverfing the natural forests of birch and pine, though his attention will be first attracted by the trees themselves in every stage of growth, from the limber fapling to the bare and weather-beaten trunks that have endured the forms of 500 or 600 winters; the new forms of the humbler vegetables will foon divide his attention, and will each attract a share of his regard. It would be an uninteresting talk both to us and our readers, to enumerate the plants more peculiar to Scotland. These may be found in Lightfoot's Flora Scotica, and many of them in Mr

> Scotland is by no means remarkable for abundance of Goofeberries, strawberries, and raspberries, do indeed ripen nearly as well as in England; and apples, pears, and fome frecies of wall-fruit, as Orleans plums and apricots, are not uncommon; but peaches, nectarines, and grapes, are fearcely feen in the open air; and in the best gardens we have not observed the walnut, the mulberry, or the fig. Even the currants, which are very abundant, scarcely ever attain that degree of ripenels which can fit them for use as a dessert, but are employed almost entirely for jellies and wines. The

> chief fruit diffricts are those on the banks of the Clyde. Few countries possels a greater store of subterraneous riches than Scotland; most of the metals, and some of the most valuable minerals, being very common. Even gold itself has been found in the Leadhills, in the fands of Elvan, a rivulet which joins the Clyde, and in the Ochill hills; and a confiderable quantity of filver is annually obtained from the lead mines of Leadhills and Wanlockhead. Copper is rare; but has been met with near Alva in the Ochills; at Colvend in Galloway, and fome other places. The most remarkable leadmines are those of Leadhills and Wanlockhead, Strontian and Islay; but traces of this metal have been found in other parts. Iron is a most abundant mineral production, but that called the Carron ore is best known. Cobalt is found at Alva; calamine (an impure oxide of zinc) at Wanlockhead; plumbago or graphite in Ayr fhire; and antimony in Dumfries shire.

Among the other minerals, coal is to be regarded as Scotland. the most abundant and most valuable. We have already remarked, under GEOLOGY, that one of the two chief beds of coal found in this island, is that which runs from the valley traverfed by the Tay and the I orth, westward to the coast of Ayrthire. The Lothians and Fife-thire particularly abound with coal; and it is not less abundant in the viciolty of Glasgow, and in several

Scotland may be called the quarry of Britain, as hence is derived most of the slone that is carried to the fouth for building and paving. Abundance of freetlone and limeflone is found in most parts of the country; and the beauty and durability of the houses in the New Town of Edinburgh bear ample tellimony to the value of the quarries in that neighbourhood. Beautiful granite is found in Ben Nevis, and fine statuary marbie in Affait, and in Blairgowie in Perthfhire. A black mar-ble trackled with white occurs at Fort William; jafper is found in various parts; fullers earth occurs near Campbeltown, and confiderable quantities of tale in the mountains of Findhorn. The beautiful quartz of Cairngorum is well known, and numerous pebbles of agates and onyxes are frequently collected on the eattern coast.

The mineral waters of Scotland are numerous; but Mineral the principal are those of Mosfat, Peterhead, St Ber-waters. nard's well near Edinburgh, and Pitczichly. At Moffat are two springs, one a fulphureous, and the other from Hartfell a chalybeate water. The water at St Bernard's well is firongly impregnated with ful-

Many fingular natural curiofities are to be found in Natural cu-Scotland. Among thefe the beautiful falls of the Clyde, riofities. the infulated rock of the Bass; the scenery about Loch Lomond, and the ifles of Staffa, Eigg, and Cannav, are chiefly deferving of notice. In the tile of Arran is an immense vaulted cavern, hollowed in the folid rock; and near Colvend in Dumfriesshire, and on the eaftern coaft of Fife, are feveral remarkable caves. Noss head prefents a fingular quarry of flate, marked with metallic figures; and at Glamma in the heights of Glenelchraig, is a cascade, which, viewed amidst the constant darkness

In the parish of Gaurie in Banffshire are three remarkable natural curiofities; a perpendicular rock of very great extent full of shells, which are postessed by myriads of birds; a cave, or rather den, called Hell's lum or chimney, 50 feet deep, 60 long. and 40 broad, having a fubterraneous passage to the sea, about 240 feet long, through which the waves are driven with great violence in ftormy weather, fo as to occasion fmoke to rife from the den; and another fubterraneous paffage through a peninfula from fea to fea, nearly 450 feet long, and fo narrow that a man can with difficulty creep through it. At one end of this passinge is a cave about 20 feet high, 30 broad, and 150 long, supported by immense columns of rock.

of hills and woods, is truly fublime.

There are three principal groups of Scottish islands; Scottish those of Shetland and O-kney, to the north of the Pent- mands land frith, and that of the Hebudes, Hebrides, or Western Isles, in the western Atlantic. An ample account of these will be found under the articles HE-BRIDES, ORKNEY, and SHETLAND; and un er the pames of the principal individual iffands. The iffes

Minerais.

Scotland, of Bute and Arran, which are diffind from the Hebrides, have also been described under their respective

18 Names of North Bris tain.

names. The name Scotland, as applied to North Britain, is comparatively of recent date. By the later Roman writers, Scotia was applied to Ireland, as the country which had been colonized by the Scoti, and the names of Hiberni and Scoti are, after the 4th century of the Christian era, indiferiminately applied to the inhabitants of Ireland. When North Britain first became known to the Romans under Agricola, it was by them denominated Caledonia, from its abounding in forests, and the natives were called Caledonii. These names continued in use till the expiration of the Roman power in Britain, when this part of the island was generally known by the name of Provincia Pictorum, and the inhabitants were divided into Picti-Caledonii, and Picti. It is not till the 11th century that we find Scotia or Scotland appropriated to North Britain.

With respect to the origin of this name there is much dispute, but it is generally agreed that the term Scots was applied to the inhabitants of North Britain by their

neighbours, by way of reproach.

Aborigines Few points have been disputed with more keenness of Scotland, and more afperity than the original population of Scotland. The Irish and the Scotch have strenuously contefted the claim of their country to be the flock from which the other was colonized. There feems no doubt that both Britain and Ireland were originally peopled by the Celtic tribes, who had long before occupied the west of Europe, and advanced from the shores of Gaul. probably across the straits of Dover, to take possession of the fouthern part of Britain. Thence it appears they extended themselves northwards, till they had peopled the whole island, when, from a fpirit of enterprise, or to find more room and better pasture for their herds, they croffed the channel to the west of Britain, and planted a colony in Ireland. This feems to be their most natural route, and numerous authorities have been lately adduced to prove, not only that the whole of Britain and Ireland were peopled by Celtic tribes, but that the colonization of Ireland was subsequent to that of Scotland. " This region (North Britain) during the first century," fays Mr Chalmers " is a small but genuine mirror of Gaul during the same age. North Britain was inhabited by one and twenty clans of Gaelic people, whose polity, like that of their Gaelic progenitors, did not admit of very ftrong ties of political union. They professed the same religious tenets as the Gauls, and performed the fame facred rites; their stone monuments were the same, as we know from remains. Their principles of action, their modes of life, their usages of burial, were equally Gaelic; and above all, their expressive language, which still exists for the examination of those who delight in such lore, was the purest Celtic \*."

The names and polition of the 21 tribes which occupied North Britain in the first century, have been mi-Names and nutely investigated by Mr Chalmers, and we shall here briefly state the refult of his investigations. The first tribe which he mentions is that of the Ottadini, who poffessed the country which stretches from the river Tyne northward along the coait of the German fea and the frith of Forth. On the west of these lay the Ga-

deni, occupying the western part of Northumberland, Scotland, that fmall portion of Cumberland which lies to the north of the river Irthing; the west of Roxburghshire, the whole of Selkirk and Tweeddale, part of Mid Lo-thian, and nearly the whole of West Lothian, or Linlithgow. To the fouth-west of the Gadeni lay the Selgovæ, inhabiting Annandale, Nithfdale, and Efkdale in Dumfries-shire; the eastern part of Galloway as far as the river Dee, which formed their western boundary; while to the fouth they extended to the Solway frith. The Novantes inhabited the western and middle parts of Galloway, from the Dee on the east to the Irish fea on the west. The Dannii occupied the whole extent of country from the ridge of hills lying between Galloway and Ayrshire on the fouth, to the river Earn on the north, comprehending all Strathcluyd, the counties of Ayr, Renfrew, and Stirling, with a small part of Dumbarton and Perth. The Horeflii inhabited the country lying between the Forth and Tay, including the shires of Fife, Clackmannan, and Kinrofs, with the eaftern part of Strathern, and the country lying westward of the Tay, as far as the river Brand. The Venricones pos-sessed the country between the Tay and the Carron, comprehending a great part of Perth-shire, the whole of Angus, and part of Kincardine-shire. The Taixali inhabited the northern part of the Mearns, and the whole of Aberdeen-shire, to the Doveran; a district which included the promontory of Kinnaird's head, to which the Romans gave the name of Taixalorum promontorium. The Vacanagi occupied the country on the fouth fide of the Murray frith, from the Doveran on the east, to the Ness on the west; an extent comprehending the shires of Banff, Elgin, Nairn, the east part of Inverness, with Braemar in Aberdeen-flire. The Albani, afterwards called Dannii Albani, inhabited the interior districts, between the lower ridge of the Grampians on the fouth. and the chain of mountains forming the fouthern limit of Inverness-shire on the north, including Braidalban, Athol, a small part of Lochaber, with Appin and Glenorchy in Upper-Lorn The Attacetti inhabited the whole country from Loch Fine on the west, to the eastward of the river Leven and Loch Lomond, comprehending the whole of Cowal in Argyle-shire, and the greater part of Dumbarton-shire. The proper Caledonii possessed the whole of the interior country, from the ridge of mountains which feparates Inverness from Perth on the fouth, to the range of hills that forms the forest of Balnagavan on the north, comprehending all the middle parts of Inverness and of Ross. The Canta inhabited the east of Ross-shire from the æstuary of Varrar on the fouth, to the frith of Dornoch on the north, having the frith of Cromarty in the centre, and a ridge of hills on the west. The fouth-eastern coast of Sutherland was inhabited by the Logi, whose country extended from the frith of Dornoch on the fouth-west to the river Ila on the east. The Carnabii inhabited the fouth of Caithness from the Ila river : the small tribe of the Cateni inhabited the north-west corner of Caithness, and the Mertæ occupied the interior of Sutherland. The Carnonacce inhabited the north and west coast of Sutherland, while the Creones occupied the west coast of Rossthire, the Cerones the western coast of Inverness, and the Epidii the fouth-west of Argyle-shire, from Loch Linnhe to the frith of Clyde.

\* Caledo. nia, vol. i.

P. 33. fituations of the Aboriginal tribes.

Scotland.

\* Caledo-

P. 76.

All these Celtic tribes, in their laws, religion, manpers, and customs, appear to have resembled the Britons of the fouth. Their life was equally fimple, their manantiquities ners were equally favage, and their religion, like that in Scottand, of the South Britons, was certainly Druidical. See ENGLAND, No 1, and the article DRUIDS. The fact of Druids having existed in North Britain, fo strenuously denied by some writers, is, in the opinion of Mr Chalmers, completely afcertained by numerous remains of places of Druidical worship. These he has been at much pains to investigate, and has described several remarkable circles of itones and rocking itones, refembling in almost every particular those in South Britain, which are on all hands allowed to be Druidical. Some remarkable remains of this kind occur in the parith of Kirkmichael in Perthshire, where there is an immense rocking stone standing on a flat-topped eminence in the vicinity of a large body of Druidical remains. Oppofite to the manse of Dron, in the same county, there is

> another large rocking stone, ten feet long and feven broad; and in the parith of Abernethy, near Balvaird, there is a third which attracted the notice of Buchanan, In the stewartry of Kircudbright is a stone of a similar description, called Logan stone, which from its fize appears to be eight or ten tons in weight, and is fo nicely balanced on two or three protuberances, that the pref-

fure of the finger produces a rocking motion from the

one fide to the other \*.

Robertson's It has been remarked by Dr Robertson, that the hiflory of Scotland may properly be divided into four periods. The first reaches from the origin of the monartifh hiftory. chy to the reign of Kenneth II.; the fecond, from Kenneth's conquest of the Picts to the death of Alexander III.; the third extends to the death of James V. the last, from thence to the accession of James VI. to the crown of England. In the opinion of the same hiltorian, the first period, extending from the earliest accounts to the year 843 of the Christian era, is the region of pure fable and conjecture, and ought to be totally neglected, or abandoned to the industry and credulity of antiquaries; that in the fecond period from \$43 to 1286, truth begins to dawn with a light teeble at first, but gradually increasing, and that the events which then happened may be flightly touched, but merit no particular or laborious enquiry; that in the third period, from 1286 to 1542, the history of Scotland, chiefly by means of records preserved in England, becomes more authentic, as not only events are related, but their causes and effects are explained; and here every Scotchman should begin, not only to read, but to

fludy the history of his country. No authen-

It must be allowed that most of the transactions recorded by Buchanan and Boece, as having taken place in Scotland before the Christian era, are either purely fayous to the bulous, or are substantiated by no authentic de uments; and we cannot but contemple to with the fmile of incredulity, the ling and minute litt of Scottish monarchs from Fergus I. to Fergus II. to pom outly displayed by thefe historians. That the names of 30 princes thould be handperiod of 690 years : that the duration of their reigns and the date of their recession the a be so exact'v accertained, is furely a circomitance of the highest importability; and we are com ciled to help a that the countr writers of Scottith history, take the Chinese ann litts, here described the transaction soft the time memoriarch a der dif-

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ferent names, or under the fame names with the deficing. Stotland, tion of I, II, III, &c. This is rendered the more mobable by confidering that both Fergus I. and Fergus II. the pertuation that nothing authentic can be recorded in the Scottish history before the arrival of the Romans in Britain, we shall commence the hytorical part of this article from the period when Agrico a ful penetrated north of the Tweed.

look for the first rational and authentic documents of Scottith hiftory.

nion of a chief, called by the Roman hillorians Galgacus. 3 11 d Agricola having completed the conquest of the fouthern part, and in a great measure civilized the inhabitants, formed a fimilar plan with regard to Scotland. It is probable, that at this time the Caledonians had become formidable by the accession of numbers from the fouth : for though the Romans had civilized the greatest part, it cannot be doubted that many of those savage warrior . diffaining the pleafures of a peaceable life, would retire to the northward, where the martial dipolition of the Caledonians would better fuit their inclination. perience of their commander. In the third year Agicola had penetrated as far as the river Tau, (probably the Solway Firth, and not the Tay); but the particularof his progress are not recor ed. The following year he built a line of forts between the friths of Forth at Clyde, to exclude the Caledonians from the fouther parts which lay to the fouth and west of his forts, name-

Agricola fill purfued the fame prudent measures by which he had already tecured the perefion of fuch a people in obedience. The Caledonians, though canmanded by their king Galgacus, who is faid to have been well acquainted with the manner of fighting and discipline of the Romans, were yet obliged to retreat; but at lail, finding that the enemy made fuch progress as endangered the subjugation of the whole country, he resolved to cut off their communication with the southorn parts, and likewife to prevent all poffibility of a retreat by fea. Agricola, though folicited by some of his officers, refused to retreat; but divided his troops into three bodies, having a communication with each other. Upon this, Galgacus refolved to attack the weakelf of lay at that time, as is faid, at a place called L.ch re. about two miles from Loch-Leven in Fife. The attack unprepared and inferior in number, the Caledonians nea great flaughter, when Agricola detached fome lightarmed troops to their affiltance; by whom the Caledorias sin their terms ere routed, and forced to fly to the

mans.

total mitted as fach from the testimonies of other historians. The Romans, however, certainly advanced very confiderably, and the Caledonians as conflantly retreated, till they came to the foot of the Grampian mountains, where the latter refolved to make their last stand. In the eighth year of the war, Agricola advanced to the foot of the mountains, where he found the enemy ready to receive him. Tacitus has given us a speech of Galga-

any gain. I cas, undoubtedly fabricated for him, in which he fets by the Re- forth the appring disposition of the Romans, and encourages his countrymen to defend themselves vigorously, as knowing that every thing valuable was at flake. A desperate engagement accordingly ensued. In the beginning, the Britons had the advantage, by the dexteyous management of their bucklers : but Agricola having ordered three Tungrian and two Batavian cohorts, armed with fhort fwords, and emboffed bucklers terminating in a point, to attack the Caledonians, who were armed with long fwords, the latter foon found thefe weapons useless in a close encounter; and as their bucklers covered only a finall part of their bodies, they were eafily cut in pieces by their adversaries. The most forward of their cavalry and charioteers fell back upon their infantry, and difordered the centre : but, the Britons endeavouring to out-flank their enemies, the Roman general opposed them with his horse; and the Caledonians were at last routed with great slaughter, and forced to fly into the woods, whither the Romans purfued with fo little caution, that numbers of them were cut off. Agricola, however, having ordered his troops to proceed more regularly, prevented the Caledonians from attacking and cutting off his men in separate parties, as they had expected; fo that this victory proved the greatest fireke to the Caledonians that they had hitherto received. This battle is supposed by some to have been fought in Strathern, half a mile fouth from the kick of Comrie; but others imagine the place to have been near Fortingal-Camp, a place fomewhat farther on the other fide of the Tav.

Great as this victory was, it feems not to have been productive of any folid or lasting advantage to the Romars; fince we find that Agricola, inflead of putting an end to the war by the immediate conqueit of all Caledonia, retreated into the country of the Horeltii. Here he received hortages from part of the Caledonians; and ordered part of his fleet to fail round Britain, that they might discover whether it was an island or a continent. The Romans had no footer left that part of the country, than the Caledonians demolished all the forts they had raifed : and Agricola being foon after recalled by Domitian, the further progress of the Roman arms was flopped; Galgacus proving superior to any of the

From the time of Agricola to that of Adrian, we know little of the affairs of Scotland, excepting that during this interval the Caledonians must have entirely driven the Romans out of their country, and reconquered all I at tract which lay between Agricola's chain of forts and Carlitle on the west, and Newcaille or Tinmon h-Bar on the cast; which Adrian, on visiting Britain, thought preper to fix as the northern boundary of the Roman dominions. Here he built a wall of turf between the mouth of the Tine and the Solway frith, by Adrian, with a view to that out the barbarians; which, bowever, An. 120, did not answer the purpose, nor indeed could it be thought to do fo, as it was only built of turf, and guard- Scotlanded by not more than 18,000 men, who could not be funposed a sufficient force to defend such an extent of fortification.

In the reign of Antoninus Pius, the proprætor Lol. Governlius Urbicus drove the Caledonians far to the north-her tof ward, and repaired the chain of forts built by Agricola, bicus. which lay between the Carron on the frith of Forth and An, 130, Dunglass on the Clyde. These were joined together by turf walls, and formed a much better defence than the wall of Adrian. After the death of Antoninus. however, Commodus having recalled Calpurrius Agricola, an able commander, who had kept the Caledonians in awe, a more dangerous war broke out than had ever been experienced by the Romans in that quarter. The Caledonians having paffed the wall, put all the Romans they could meet with to the fword : but they were foon repulsed by Ulpius Marcellus, a general of confummate abilities, whom Commodus fent into the island .- In a thort time the tyrant also recalled this able commander. After his departure, the Roman discipline in Britain fuffered a total relaxation; the foldiery grew mutinous, and great diforders enfued : but their were happily removed by the arrival of Clodius Albinus, a person of great skill and experience in military attairs. His presence for some time restrained the Caledonians within proper bounds: but a civil war breaking out between him and Severus, Albinus croffed over to the continent with the greatest part of the Roman forces in Britain; and meeting his antagonist at Lyons, a dreadful battle enfued, in which Albinus was utterly defeated, and his army cut in pieces. See Rome, No 375.

The absence of the Roman forces gave encourage-Warsof See

ment to the Calcdonians to renew their depredations, verus with which they did with fuch fuccess, that the emperor be the Caledon came apprehensive of losing the whole island; on which nians he determined to go in person and quell these trouble-fome enemies. The army collected by him on this occasion was far more numerous than any the Romans had ever fent into Britain; and being commanded by fach an able general as Severus, it may easily be suppoled that the Caledonians must have been reduced to great difficulties. The particulars of this important expedition are very imperfectly related; but we are affured that Severus loft a vaft number of men, it is faid not fewer than 50,000, in his march through Scotland. Notwithflanding this, however, he is faid to have penetrated to the most northern extremity of the island, and obliged the enemy to yield up their arms. On his return, he built a much fironger fortification to fecure the frontiers against the enemy than had ever been done before, and which in fome piaces coincided with Adrian's wall, but extended farther at each end. But in the mean time, the Caledonians, provoked by the brutality of the emperor's fon Caracalia, whom he had left regent in his absence, again took up arms; on which Severus himself took the field, with a design, as appears, to extirpate the whole nation; for he gave orders to his foldiers " not to spare even the child in the mother's belly." The event of the furious order is unknown : but in all probability the death of the emperor, which happened fron after, put a ftop to the execution of this revenge; and it is certain that his fon Caracalla, who fueceeded Severus, ratified the peace with the Caledonians.

After the treaty of Caracalla in 211, perpetual hofti-

tions from

Picts.

Scotland. lities occurred between the Romans and Caledonians, affined by the Picts. The inroads of these northern tribes were repelled by the Roman legions under Conflantius, and after his death in 306, they appear to have 111 to 446, remained quiet till 343, when a freih inroad of the Picts is said to have been repelled by Constans. In the year 360, the Scotch are first mentioned by Roman writers, They were, as we have faid, an Irith people of Caledonian extraction, and at this time invaded Scotland, and joined with the Picts against the Romans and their tributaries. In 364 they made a very formidable attack on the Roman provincials, and in 367 had advanced as far as Augusta, or London, where they were met by The donus, and were compelled to retire. From this time to 416, when the Romans finally quitted the Britith illand, nothing remarkable occurs in the history of Scotland.

Of the Picts, who now begin to make a figure in Scottish history, we have given an account under the article PICTS, and shall here remark only that the name Picti does not properly belong to a new or diffinct tribe of the inhabitants of North Britain, but was applied about this time to a part of the Caledonians, who inhabited a confiderable tract of country north of the friths of Forth and Clyde; and that the dominion of their kings, of whom a long lift is given by Mr Chalmers. extended from the year 451 to 842, when it finally terminated.

Appearance

An. 503.

In the middle of the fecond century, one of thefe of a colony turbulent tribes which long involved Ireland in contest and diffention, policifed themselves of the north-east corner of Ireland, under the conduct of Cairbre-Riada; and from the name of their leader gave to this district the denomination of Dal-Riada, or the portion of Riada. The fixth century had scarcely commenced, when the progress of population and the spirit of enterprise induced a number of the inhabitants of Dal-Riada to emigrate to the opposite coast of North Britain, led by three chiefs Loarn, Fergus, and Angus, the three fons of Erc, the descendant of Cairbre-Riada, who then ruled over the Dalriadan tribe. They landed in the country of the Epidii, in the fouth-west of Argvlethire, about the year 503. These colonies, who to the time of Bede, were denominated Dalriadini, brought with them their language, religion, manners and cuftoms, which differed in some respects from those of the Celtic tribes which had long occupied the north of Bri-

> In the records of time there scarcely occurs a period of history so perplexed and confused as that afforded by the annals of the Scoto-Irish tribes, from their settlement in 509 to their ultimate ascendency in 843. The want of cotemporaneous writings left an ample field for the conflicts of national emulation. Ignorance and ingenuicy, fophistry and fystem, contributed by various efforts to darken what was already fufficiently obscure. There remain, however, in the filler islands, various documents of subsequent compilation, which throw confiderable light on the obscure transactions of the Scoto Irish tribes. and enable us to unravel the entangled genealogies of their kings. These confist chiefly of the Irish annals of Figernoch and of Ulfler, with the ofeful observations on them of O'Flaherty and O'Connor; of feveral brief chronicles and historical documents first brought to light by Inness; and of a Gaclic poem, containing a geneal-

gical account of the Scoto-Irish kings. From these Scotland. documents Mr Chalmers has constructed an elaborate genealogical and chronological table of those kings, from Fergus to Kenneth Macalpin, from which we thall extract the two most important columns, thewing the date of accession, and the duration of the reigns of the feveral monarchs.

	Acres.	Relgas
1. Fergus the fon of Erc.	503	3
2. Domangart the fon of Fergus,	506	5
3. Comgal, fon of Domangart,	511	2.4
4. Gauran, fon of Domangart,	535	2.2
5. Conal, fon of Comgal,	557	14
6. Aidan, fon of Gauran,	571	34
7. Eocha-bui, the fon of Aidan,	605	16
8. Kenneth-cear, fon of Eocha-bui,	621	1 2
9. Ferchar, fon of Eogan, first of		- 1
Loaru's race,	621	16
10. Donal-breac, fon of Eocha-bui,	637	5
11. Conal II. grantifon of Conal I.	642	10
12. Dungal reigned fome years with Co-		
13. Donal-Duin, fon of Conal,	652	13
1.1. Maolduin, fon of Conal,	665	16
15. Feichar Fada, grandfon of Ferchar I.	681	21
16. Eocha-Rineval, fon of Domangart,	702	3
17. Ainbhcealach, ion of Ferehar-Fada,	705	I
18. Selvach, fon of Ferchar-Fada, reign- ed over Loarn from 706 to 729,	/-3	
19. Duncha-beg over Kintire till 720,	735	27
20. Eecha III. ion of Eocha rinwal over	100	-/
Kintyre and Argail from 720 to		
729, and over Loarn from 729 to	1	
21. Muredach, fon of Ainbheealach,	733	3
22. Eogan, fon of Muredach,	736	3
23. Aodh-Fin, fon of Eocha III.	739	30
24. Fergus, fon of Aodh-Fin,	709	3
25. Selvach H. fon of Eogan,	772	24
26. Eocha-Anneune IV. fon of Aodh-	"	
Fin,	796	30
27. Dungal, fon of Selvach II.	826	7
28. Alpin, fon of Eocha-annuine IV.	833	3
29. Keneth, fon of Alpin,	836	7

We finall not attempt to follow Mr Chalmers through the detail of events which he has narrated as taking place during the reigns of the Scoto-Irith kings. Whatever light he may have thrown on this obscure part of Scottith history, it must still remain uninteresting, except to the antiquary, and the minute hittorian. It is of more importance to the general reader, to be informed of the manners and customs, the polity and the laws of the tribes that occupied the chief part of North Britain at the accession of Kenneth II. from whose reign, as we have already remarked, the Scottish history begins to dawn.

We have faid that the Dalriadinian colonists brought Laws and with them from Ireland, and established in their new let enstoms of tlements, their peculiar laws and cuftoms. According tribes. to these laws, the succession both of the kings and chiefScotlan i. tains was fo regulated, that the perfon in the family who feemed best qualified, from abilities or experience, to exercise the chief authority, whether a son or a brother, was fixed on by the tribe for the succession to the vacant throne or chieftainship. Much of the dignity of the monarch was supported by the voluntary contributions of his vaffal princes and chiefs, paid in cattle, clothes, and utenfils; and the monarch was compelled to purchase the fervice and affistance of these chiefs by fimilar prefents; in confideration of which they entertained the fovereign in his journeys, and ferved him in his wars during a limited period. A fimilar polity appears to have pervaded all ranks among the Scoto-Irish people, from the king to the prince, and from the prince to the chieftain. The toparch governed his district as the monarch governed his kingdom; and the chieftains ruled their territories and their fortified villages, on the fame principles of mutual dependence, of the higher on the lower, and of the subordinate on the superior ranks. Such brittle ties were eafily broken; and during these rude times, when the voice of law was but faintly heard, the performance of those reciprocal duties could be enforced only by the dread of affaifination, and the breach of them punished only by the fword.

> The Scoto-Irish women, of whatever rank, seem not to have been entitled to the flightest possession of land, under the Brehon law. To them were affigned a certain number of their father's cattle as their marriageportion. The herds of the Scoto-Irish were so frequently within their contemplation, and during a rude state of fociety supplied so many comforts to their posfeilors, that the native terms which fignify possession, or a field, also convey the idea of a herd or drove. Yet fuch is the copiousness of the Lish language, that it has a great variety of terms which convey the notion of a law; but we may infer from these law-terms, with their feveral modifications, that the people of whom we are fpeaking had little of positive statute, or written law; their whole body of jurisprudence confifting almost entirely of traditionary customs, and local usages. According to Cox, it was no written law, but only the will of the brehon or lord. And it is observable that these brehons held their offices by descent and inheritance, and of course were not qualified for the posts to which he fucceeded. The brehon or judge, when he administered justice, used to fit on a turf or heap of ftones, or on the top of a hillock, without covering, and without clerks, or any of the usual formalities of a court of judicature. Some remains of this state of laws and manners may be traced in some parts of Scotland to the prefent period. Every bason had his motehill, whence he diffributed julice to his vaffals, either in person, or by his baron ballie. Under the brehon fystem all crimes were commutable; theft, rape, and even murder, were punished by a fine.

It was an ancient custom of these tribes, that every head of every fept, and the chief of every clan, should be anfwerable for each of their fept or kindred, when charged with any crime; and it is remarkable that both in Ircland and Scotland this ancient cutt in was adopted into the statute book. The protestion of be s was a great head of the brehon law. The Scoto-Irish territories were felly pe pled by this industrious race, and their rage of the ancient Butons. In vain do the Irish anti-

quaries give us splendid richures of the learning, opu- Scotland. lence, and refinement, of the ancient Irith ; the laws of every people are the trueft histories of their domestic While we fee that the wealth of these tribes confided of their bees and their cattle, we may certainly infer, that they had only advanced from the first to the fecond stage of society, from hunters to feeders of slocks. In this unrefined state the Scoto-Irish long continued, as is evident from their rent-rolls.

It is apparent that more of wretchedness than of comfort prevailed among the Dalriadinian diffricts in every rank of fociety. Their best houses were built of wattles : and buildings of lime and stone were late works of more intelligent times. The cloathing even of the monks was the skins of beasts, though there is no doubt that they obtained from abroad, by means of traffic, both woollen and linen stuffs. Venifou and fish, the slesh of feals, and milk, constituted the food of the people; but the monks of Iona, who lived by their labour, and per-haps the chiefs, had fome provision of corn. The most unbounded hospitality was enjoined by law, as well as by manners, as a capital virtue. Manufactures and trades exercised as a profession were unknown. very family had its own carpenter, weaver, and flocmaker, however unskilful and inadequate to the uses of civilization these homely workmen might appear.

The Scoto-Irish tribes were not destitute of shipping, which confifted partly of canoes, and partly of a more skilfully constructed kind of vessels called currachs. These were formed by covering a keel of wood and a frame of wicker-work, with skins of cattle and of deer, and by experience these rude boats were improved into roomy veffels, that ferved either for transports or for

Of the various customs of the Scoto-Irish, that of fosterage has been regarded as a subject for particular speculation. By this fingular custom, children were mutually given from different families to be nursed by strangers. The lower orders confidered this trust as an honour, rather than a fervice, for which an adequate reward was either given or accepted. The attachment of those who were thus educated is faid to have been indisfoluble; for, according to Camden, there is no love in the world comparable to that of foster-brethren in Ire- \* Chailand. From this practice arose a connection of family, mers's Case and a union of tribes, which often prompted and fometimes prevented evil feuds \*.

The Dalriadinian tribe which colonized the fouth-State of re-

weit of Scotland, in the beginning of the fixth century, he oth professed the Christian religion, which had been intro-century. duced into Ireland in the middle of the preceding century. They did not, however, introduce into Scotland a new religion, for there is reason to believe that the benign influence of Christianity had been felt in those parts of North Britain which were inacceffible to the Roman power so early as the beginning of the third century; and the Romanized Britons of Valencia, called by Bede the fouthern Picts, had been converted from the finerititions of Druidifin at the commencement of the fifth century. This reformation is attributed to St Niman, a native of the country of the Novartes, born St Ninian died on the 16th September 432; on which day a fellival in honour of his name was celebrated in Britain for many ages. About the middle of the fixth

Wars between the

Scors and

Septland, century, appeared Kentigern, a Christian bishop, who fixed his residence at Alcluyd, in the kingdom of Cumbria. He contributed much towards improving the flate of religion in North Britain, where he continued his instructions with little interruption till the year 601. Cotemporary with Kentigern was the celebrated Columba, who converted the northern Picts, and has always been held in the highest veneration as one of the principal faints in the North British calendar. He established the feat of his ecclefiaftical academy in the fmall island of Hy, or Iona, which had been conferred on him either by Connal, king of the Scoto-Irish, or Bridei, the Pictifh fovereign. Here he fettled with his 12 difciples, and laboured for two years with their own hands in erecting huts, and building a church. In the course of a few years Columba had converted Bridei, king of the Picts, and most of his subjects, and had established monasteries in several parts of the Caledonian territories, (See COLUMBA).

Before entering on the reign of Kenneth, it may be proper to take a fhort view of that of his father and predeceffor. Alpin, as in his reign commenced those bloody conflicts between the Scots and Picts which finally terminated in the fubjugation or expullion of the latter.

At the accession of Alpin, the dominion of the Scots comprehended the Western islands, together with the districts of Argyle, Knapdale, Kyle, Kintyre, Lochaber, and a part of Breadalbane; while the Picts possessed all the reit of Scotland, and part of Northumberland; fo that the Picts feem to have been by much the more powerful people of the two. The Scots, however, appear to have been superior in military skill; for Alpin, the fuccessor of Dongal, having engaged the Pictish army near Forfar, after an obstinate engagement defeated them, and killed their king, though not without the loss of a great number of his own men. The Picts chose Brudus, the fon of their former king, to fucceed him; but foon after deposed and put him to death, on account of his stupidity and indolence. His brother Kenneth shared the same fate on account of his cowardice; till at last another Brudus, a brave and fpirited prince, ascended the throne. Having raised a powerful army, he began with offering terms of peace to the Scots; which, however, Alpin rejected, and infitted on a total furrender of his crown. Brudus on this endeavoured to procure the affiftance of Edwin king of Northumberland. Edwin accepted the money offered by Brudus; but pretending to be engaged in other wars, refuled the affiftance which he at first promifed. Brudus, not difmayed by this difappointment. marched resolutely against his enemies; and the two armies came to an engagement near Dundee. The fuperior skill of the Scots in military affairs was about to have decided the victory in their favour, when Brudus thought of the following ftratagem to prefe ve his army from destruction. He caused ail the attendants, and those themselves at a dilance as a no establicit forcement coming to the Picts. This thronk the Scots with beheaded by order of the confieror. This execution Lock tel, happened at a place row called Pit-ales, but in former

times Bas-alpin, which in the Gaelic language fignifies Scotland. the death of Alpin. His head was afterwards fluck upon a pole, and expoled on a wall.

Alpin was succeeded by his fon Kenneth II, who Reign of being a brave and enterprising prince, refolved to ake Kenneth II. a most fevere revenge for his father's death. The Scots, however, were fo dispirited by their late defeat, that they were exceedingly averle to any renewal of the war; while, on the other hand, the Picts were for much elated, that they made a law by which it became death for any man to propose peace with the Scots, whom they refolved to exterminate; and fome of the nobility were expelled the council on account of their opposition to this law. The confequence of this was, that civil diffentions took place among them, and a bloody battle was fought between the opposite parties, before the Scots had thought of making any far-

deavoured to appeale them, was fo much affected, that

he died of grief, and was fucceeded by his brother

ther refillance. By these distractions Brudus, who had in vain en-

Drusken .- The new prince also failed in his endeayours to accommodate the civil differences; fo that the Scots, by gaining respite, at last began to recover from their conflernation; and fome of them having ventured into the Pictish tereitories, carried off Alpin's head from the capital of their dominions, supposed to have been Abernethy. In the mean time, Kenneth found means to gain over the nobility to his fide by the following firatagem; which, however ridiculous, is not incredible, if we confider the barbarism and superstition of that age. Having invited them to an entertainment, the king introduced into the hall where they flept a per-Stratagen fon clothed in a robe made of the fkins of fishes, which of Kenne made fuch a luminous appearance in the dark, that he to renew was miffaken for an angel or fome supernatural messenger. To add to the terror of those who saw him, he denounced, through a fpeaking trumpet, the most terrible judgements, if war was not immediately declared against the Picts, the murderers of the late king. In confequence of this celettial admonition, war was immediately renewed with great vigour. The Picts were not deficient in their preparations, and had now procured fome affiltance from England. The first battle was fought near Stirling; where the Picts, being deferted by their English auxiliaries, were utterly defeated. days after made application to Kenneth for a ceffation of hollilities; but as the Scottish monarch demanded a furrender of all the Piclish dominions, the treaty was inflantly broken off. Kenneth purfued his good fortune, and conquered the counties of Merns, Augus, and Fife; but as he marched against Stirling, he received intelliall the garrifons which he had led, and that Drufken was at the head of a confiderable army in these parts. On this kerneth haftened to oppose him, and a negocia ion again took place. The refult was equally unfavourable with the reft. Kenneth infilled on an al felute

and as the vas refused, both parties prepared fire de-

despirate, the Pirts fighting like men in closis.

Scotland.

Scaland, tirely defeated and killed, and the counties in difpute became the immediate property of the conqueror.

Kenneth did not fail to improve his victory, by reducing the reft of the Pictish territories; in which he is faid to have behaved with the greatest cruelty, and even to have totally exterminated the inhabitants. The capital, called Camelon, (Jupposed to have been Abernethy), held out four months; but was at last taken by furprife, and every living creature dellroyed. This was followed by the reduction of the Maiden Castle, now that of Edinburgh; which was abandoned by the garrifon, who fled to Northumberland.

After the reduction of these important places, the rest of the country made no great resistance, and Kenneth became mafter of all the kingdom of Scotland in the present extent of the word; to that he is justly to be esteemed the true founder of the Scottish monarchy. Befides this war with the Picts, Kenneth is faid to have been faccefful against the Saxons, though of these wars we have very little account. Having reigned 16 years in peace after his subjugation of the Picts, and composed a code of laws for the good of his people, Kenneth died of a fiftula, at Fort Teviot, near Duplin in Perthshire. Before his time the feat of the Scots government had been in Argyleshire; but he removed it to Scone, by transferring thither the famous black stone, supposed to be the paliadium of Scotland, and which was afterwards carried off by Edward I. of England,

and lodged in Westminster abbey.

Kenneth was succeeded by his brother Donald, who Donald II. An. 859. is represented as a man of the worst character; so that the remaining Picts who had fled out of Scotland were encouraged to apply to the Saxons for affiliance, promiling to make Scotland tributary to the Saxon power after it should be conquered. This proposal was accepted; and the confederates invaded Scotland with a powerful army, and took the town of Berwick; however, they were foon after defeated by Donald, who took their thips and provisions. This capture proved their ruin; for fome of the thips being laden with wine, the Scots indulged themselves so much with that liquor, that they became incapable of defending themfelves; in confequence of which the confederates, rallying their troops, attacked them in that state of intoxication. The Scots were defeated with excellive defeated by flaughter. Twenty thousand of the common foldiers

the Saxons lay dead on the spot; the king and his principal nobility were taken prisoners, and all the country from the Tweed to the Forth became the property of the conquerors. Still, however, the confederates found themfelves unable to purfue their victory farther; and a peace was concluded, on condition that the Saxons should become masters of all the conquered country. Thus the Forth and Clyde became the fouthern boundaries of the Scottish dominions. It was agreed that the Forth should from that time forward be called the Scots fea; and it was made capital for any Scotlinan to fet his foot on English ground. They were to erect no ! rts near the English confines; to pay an annual tribute of a thousand pounds, and to give up 60 of the for of their chief nobility as hollages. A mint was erected by the Saxon prince name Ofbreth, at Stirling; and a crofs raifed on the bridge at that place, with the following infeription, implying that this place was the boundary between Scotland and England;

Anglos à Scotis separat crux istà remotis : Arma hie flant Bruti, flant Scoti fub hac cruce tuti.

After the conclusion of this treaty, fo humiliating to the Scots, the Picts, finding that their interest had been entirely neglected, fled to Norway, while those who remained in England were maffacred. Donald shared the common fate of unfortunate princes, being dethroned and thut up in prison, where he at last put an end to his own life in the year 8 ; 3 .- In justice to this unhappy monarch, however, it must be observed, that the character of Donald, and indeed the whole account of these transactions, rells on the credit of a single author, namely Boece; and that other writers represent Donald as a hero, and successful in his wars: but the obscurity in which the whole of this period of Scottish hiltory is involved, renders it impossible to determine any

thing fatisfactory concerning these matters. Donald was fucceeded by his nephew Constantine, Reign of the fon of Kenneth Mac Alpin, in whole reign Scot-Constantine land was first invaded by the Danes, who proved such An. 863. formidable enemies to the English. This invasion is faid to have been occasioned by some exiled Picts who fled to Denmark, where they prevailed upon the king of that country to fend his two brothers, Hungar and Hubba, to recover the Pictish dominions from Con-Scots deflantine. These princes landed on the coast of Fife, eated by where they committed the most horrid barbarities, not the Danes,

fparing even the ecclefiaftics who had taken refuge in the ifle of May at the mouth of the Forth. Conitantine defeated one of the Danish armies commanded by Hubba, near the water of Leven; but was himfelf defeated and taken prisoner by Hungar, who caused him to be beheaded at a place fince called the Devil's

Care, in the year 874.

This unfortunate action coil the Scots 10,000 men; but the Danes feem not to have purchased their victory very eafily, as they were obliged immediately afterwards to abandon their conquest, and retire to their own country. However, the many Danish monuments that are still to be feen in Fife, leave no room to doubt that many bloody scenes have been afted here between the

Scots and Danes befides that above mentioned. Confiantine was fucceeded by his brother Eth, fur-Eth. 42 named the Swift-footed, from his agility. Concerning An. 852. him we find nothing memorable; indeed the accounts are fo confused and contradictory, that it is impossible to form any decifive opinion concerning the transactions of this reign. All agree, however, that it was but thort; and that he was succeeded by Gregory the fon

of Dongal, contemporary with Alfred of England, and that both princes deservedly acquired the name of Great. The Danes at their departure had left the Picts in pof- Exploits of fession of Fife. Against them Gregory immediately Gregory marched, and quickly drove them into the north of the Great. England, where their confederates were already masters An. \$\$3.

of Northamberland and York. In their way thither they threw a garrison into the town of Berwick; but this was prefently reduced by Gregory, who put to the fword all the Danes, but spared the lives of the Picts. From Berwick, Gregory purfued the Danes into Northumberland, where he defeated them; and passed the winter in Berwick. He then marched against the Cumbrians, who being mostly Picts were in alliance with the Danes. He eafily overcame them, and obli-

The Scots

Scotland, ged them to yield up all the lands they had formerly possessed belonging to the Scots, at the same time that he agreed to protect them from the power of the Danes. In a fhort time, however, Conflantine the king of the Cumbrians violated the convention he had made, and invaded Annandale; but was defeated and killed by Gregory near Lochmaben. After this victory Gregory entirely reduced the counties of Cumberland and Westmoreland, which, it is faid, were ceded to him by Alfred the Great; and indeed the fituation of Alfred's affairs at this time renders such a cession by no means improbable.

We next find Gregory engaged in a war with the Irish, to support Donach, an Irish prince, against two rebellious noblemen. The Irifh were the first aggreffors, and invaded Galloway; but being repulfed with great los, Gregory went over to Ireland in perfon, where the two chieftains, who had been enemies to each other before, now joined their forces in order to oppose the common enemy. The first engagement proved fatal to one of their chiefs named Brian, who was killed with a great number of his followers. After On his way to Dublin he was opposed by a chieftain maned Corneil, who shared the fate of his confederate. being also killed, and his army entirely defeated. Gregory then became guardian to the young prince whom he came to affift, appointed a regency, and obliged them to fwear that they would never admit into the country either a Dane or an Englishman without his confent. Having then placed garrifons in the flrongest fortresses, he returned to Scotland, where he built the city of Aberdeen; and died in the year 802, at his caltle of Dun lore in the Garioch.

Gregory was fucceeded by Donald III. the fon of An 893. Conflantine, who imitated the virtues of his predeceffor. The Scots hitlorians unanimously agree that Northumberland was at that time in the hands of their countrymen; while the English as unanimously affirm that it was fulriest to the Danes, who paid homage to Alfred. Be this as it will, however, Donald continued to live on good terms with the English monarch, and fent him a body of forces, who proved of confiderable advantage to him in his wars with the Danes. The reign of Denald was but short; for having marched against some rubber (probably Danes) who had invaded and ravaged the countles of Murray and Rofs, he died at Forres foon after, having defeated and fub-dued them in the year 903. He was succeeded by Conftantine III, the fon of Eth the Sviit footed, concerning whom the most remarkable particular which we find related is his entering into an alliance with the Dones against the English. The occasion of this confederacy is fail to have been, that the English monarch, Edward the E'der, finding the Scots in possession of the northern counties of England, made fuch extravagant demands on Constantine as obliged him to form an alli ance with the Danes in order to preferve his dominions in fecurity. However, the league subfifted only for two years, after which the Danes found it more for their advan age to refume their ancient friendship with the

> as foon as Constantine had concluded the treaty with the Danes, he appointed the prefumptive beir to the Scottish crown, Malechn, or, according to some,

Eugene the fon of the late king Donald, prince of the Scotland. fouthern counties, on condition of his defending them sgairst the attacks of the English. The young prince had foon an opportunity of exerting his valour; but not behaving with the requifite caution, he had the missionume to be defeated, with the loss of almost all his army, he himself being carried wounded out of the field; and in confequence of this ditafter. Contlantine was obliged to do homage to Edward for the policitions

In the beginning of the reign of Athelian the fon of Edward the Elder, the northern Danes were encouraged by fome confeiracies formed against that monarch to throw off the yoke: and their fuccels was fuch, that Athelifan thought proper to enter into a treaty with Sithric the Danish chief, and to give him his daughter in marriage. Sithric, however, did not long furvive his nuptials; and his fon Guthred, endeayouring to throw off the English yoke, was defeated, and obliged to fly into Scotland. This produced a feries of hollilities between the Scots and English. which in the year 938 brought on a general engagement. At this time the Scots, Irith, Cumbrians, and Danes, were confederated against the English. The Scots were commanded by their king Confiantine, the Irith by Anlaf the brother of Guthred the Danish prince, the Cumbrians by their own fovereign, and the Danes by Froda. The generals of Athelfian were Edmund his brother, and Turketil his favourite. The English attacked the entrenchments of the confederates, where the chief refillance which they encountered was from the Scots. Constantine was in the utmost danger Is utterly of being killed or taken piifoner, but was refoued by defeated by the bravery of his foldiers: however, after a most ob-the English. flinate engagement, the confederates were deteated with fuch flaughter, that the flain are faid to have been innum-rable. The confequence of this victory was, that the Scots were deprived of all their possessions to the fouthward of the Forth; and Conftantine, quite diffpirited with his misfortune, refigned the crown to Malcolm, and retired to the monattery of the Cuidecs at St Andrew's, where he died five years after, in 0.12.

The diffresses which the English fusiained in their Malcoim fubliquent wars with the Danes gave the Scots an op-Macdonale. portunity of retrieving their affairs; and in the year An. 944-944, we find Malcolm, the forceffer of Conflantine, inveffed with the fovereignty of Northumberland, on condition of his holding it as fief of the crown of England, and affifting in defence of the n rthern border. Soon after the conclusion of this treaty Malcolm died, and was fucceeded by his fon Inc Ifes. In his reign the New inva-Danes became extremely formidable by their invations, Danes unwhich they now renewed with greater fury than ever, be-der Indu!ing exasperated by the friendship subfitting between the fus, Scots and English monarchs. Their first descent was upon East Lothian, where they were foon expelled, but croffed over to Fife. Here they were a second time defested, and driven out; and so well had Indulsus taken care to guard the coasts, that they could not find an opportunity of landing; till having feemed to fleer towards their own country, the Scots were thrown off their guard, and the Danes on a fudden made good their landing at Culien, in Banfishire Here Indulfus foon earre up with them, attacked their camp, and drove them towards their thips, but was killed in an ambul-

Confr. 1.tine III en ters inte an with the Dates

cade

Scotland, cade, into which he fell during the pursuit. He was fucceeded by Duffus, to whom historians give an excellent character; but, after a reign of five years, he was murdered, in the year 965. He was succeeded by Culen the fon of Indulfus, who had been nominated prince of Cumberland in his father's lifetime, as heir-apparent to the throne. He is represented as a very degenerate prince; and is faid to have given himself up to the groffett fenfuality. The people in the mean time were fleeced, in order to support the extravagance and luxury of their prince. In consequence of this, an assembly of the states was convened at Scone for the resettling of the government; but on his way thither Culen was affaffinated, near the village of Methyen, by Rochard, thane or therist of Fife, whose daughter the king had debauched.

Itt. a w.ie An. 970.

The provocations which Culen had given to his nobility feem to have rendered them totally untractable and licentious; and gave occasion to a remarkable revolution in the reign of Kenneth III. who fucceeded Culen. This prince, being a man of great resolution, began with relieving the common people from the oppressions of the nobility, which were now intolerable; and this plan he purfued with fo much success, that, having nothing to fear from the great barons, he ordered them to appear before him at Lanark; but the greatest part, conscious of their demerits, did not attend. The king fo well diffembled his displeafure, that those who came were quite charmed with his affability, and the noble entertainment he gave them; in confequence of which, when an affembly was called next year, the guilty were encouraged to appear as well as the innocent. No fooner had this affembly met, however, than the place of meeting was befet with armed men. The king then informed them that none had any thing to apprehend excepting fuch as had been notorious offenders; and these he ordered to be immediately taken into custody, telling them, that their submitting to public justice must be the price of their liberty. They were obliged to accept the king's offer, and the criminals were accordingly punished according to their de-

About this time Edgar, king of England, finding himself pressed by the Danes, found means to unite the king of Scotland and the prince of Cumberland with himself in a treaty against the Danes; which gave occasion to a report that Kenneth had become tributary to the king of England. This, however, is utterly denied by all the Scots historians; who affirm that Kenneth cultivated a good correspondence with Edgar, as well because he expected affishance in defending his coafts, as because he intended entirely to alter the mode of fuccession to the throne. About this time the Danes made a dreadful invalin. Their original intention feems to have been to I nd on some part of the English coafts; but finding these too well guarded, they landed at Montrole in Scotland, committing every where the most dreadful ravages. Kenneth was then at Stirling, and quite untre ared; however, having collected a handful of troops, he cut off many of the enemy as they were firaggling up and down, but could not prevent them from belieging Porth. Nevertheless, as the king's army constantly increased, he resolved to give the enemy Perth. The king is faid to have offered ten pounds in

filver, or the value of it in land, for the head of every Scotland. Dane which should be brought him; and an immunity from all taxes to the foldiers who lerved in his army, provided they should be victorious: but, notwithstand- Defeats the ing the utmost efforts of the Scots, their enemies fought Danes, fo desperately, that Kenneth's army must have been totally defeated, had not the fugitives been stopped by a yeoman and his two fons of the name of Hay, who Rife of the were coming up to the battle, armed with fuch rustic family of weapons as their condition in life afforded. Buchanan Erros and Boece inform us, that these countrymen were ploughing in a field hard by the fcene of action, and perceiving that their countrymen fled, they loofed their oxen, and made use of the vokes as weapons, with which they first obliged their countrymen to stand, and then annoyed their enemies. The fight was now renewed with fuch fury on the part of the Scots, that the Danes were utterly defeated; and, after the battle, the king rewarded Hay with the barony of Errol in the Carfe of Gowrie, ennobled his family, and gave them an armorial bearing alluding to the ruftic weapons with which they

had atchieved this glorious exploit.

In the year 994, Kenneth was murdered at the in Kenneth stigation of a lady named Fenella, whose for he had murdered. caused to be put to death. The murder was perpetrated in Fenella's castle, where she had persuaded the king to pay her a visit. His attendants waited long near the place; but being at length tired out, they broke open the doors, and found their king murdered: on which they laid the caftle in ashes; but Fenella escaped by a postern. The throne was then seized by an usurper named Constantine; who, being killed in battle after a reign of a year and a half, was fucceeded by Grime, the grandfon of King Duffus; and he again was defeated and killed by Malcolm the fon of Kenneth, the lawful heir of the Scottish throne. After this victory, Malcolm II. however, Malcolm did not immediately affume the fo. An. 1003. vereignty; but asked the crown from the nobles in confequence of a law passed in the reign of Kenneth, by which the fuccession to the throne of Scotland became hereditary. This they immediately granted, and Malcolm was accordingly crowned king. He joined himfelf in firict alliance with the king of England; and proved fo successful against the Danes in England, that Sweyn their king relolved to direct his whole force against him by an invasion of Scotland. His first attempt, however, proved unfuccefsful; all his foldiers being cut in pieces, except some few who escaped to their Thips, while the lofs of the Scots amounted to no more than 30 men. But in the mean time, Duncan, prince of Cumberland, having neglected to pay his homage to the king of England, the latter invaded that country in conjunction with the Danes. Malcolm took the field against them, and defeated both; but while he was thus employed in the fourh, a new army of Danes landed in the north at the mouth of the river Spev. Malcolm advanced against them with an army The Scots much inferior in number; and his men, neglecting every cleated by thing but the blind impulses of fury, were almost all the Danes, cut to picces; Malcolm himself being desperately

By this victory the Danes were fo much elated, that they fent for their wives and children, intending to fettle in this country. The castle of Nairn, at that time thought almost impregnable, fell into their hands; and

them in a

Second battle.

Remiland, the towns of Elgin and Forres were abandoned both by their garrisons and inhabitants. The Scots were everywhere treated as a conquered people, and employed in the most fervile offices by the haughty conquerors; who, to render the cattle of Nairn, as they thought, absolutely impregnable, cut through the small ithmus which joined it to the land. All this time, however, Malcolm was raising forces in the fouthern counties; and having at last got an army together, he came up with the Danes at Murtloch, near Balveny, which appears at this day to have been a strong Danish fortification. Here he attacked the enemy; but having the misfortune to lofe three of his general officers, he was again obliged to retreat. However, the Danish gene-But defeat ral happening to be killed in the pursuit, the Scots were encouraged to renew the fight with fuch vigour, that they at last obtained a complete victory; but suffered so much, that they were unable to derive from it all the

advantages which might otherwise have accrued.

On the news of this ill fuccess, Sweyn ordered two fleets, one from England, and another from Norway, to make a descent upon Scotland, under the command of Camus, one of his most renowned generals. The Danes attempted to land at the mouth of the Forth; but finding every place there well fortified, they were obliged to move farther northward, and effected their purpole at Redhead in the county of Angus. The castle of Brechin was first befieged; but meeting with a stout refiftance there, they laid the town and church in afthes. From thence they advanced to the village of Panbride, and encamped at a place called Karboddo. Malcolm in the mean time was at hand with his army, and encamped at a place called Barr, in the neighbourhood of which both parties prepared to decide the fate of Scotland; for as Moray and the northern provinces were already in the poffession of the Danes, it was evident that a victory at this time must put them in possession of the whole. The engagement was desperate, and so bloody, that the rivulet which proceeds from Loch Tay is faid to have had its water dyed with the blood of the flain; but at last the Danes gave way and fled. There was at that time in the army of Malcolm, a young man of the name of Keith. He pursued Camus; and having overtaken him, engaged and killed him; but another Scots officer coming up at the same time, disputed with Keith the glory of the action. While the dispute lasted, Malcolm came up; who fuffered them to decide it by fingle combat. In this fecond combat Keith proved alfo victorious, and killed his antagonist. The dying person confessed the justice of Keith's claim; and Malcolm dipping his finger in his blood marked the shield of Keith with three strokes, pronouncing the words Veritas vincit, " Truth overcomes," which has ever

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fince been the armovial bearing and motto of the family Scotland.

Sweyn, not yet discouraged, sent his fon Canute, af- Another terwards king of England, and one of the greatest war-invasion. riours of that age, into Scotland, with an army more powerful than any that had yet appeared. Canute landed in Buchan; and, as the Scots were much weakened by fuch a long continued war, Malcolm thought proper to act on the defensive. But the Scots, who now thought themselves invincible, demanded to be led on to a general engagement. Malcolm complied with their defire, and a battle enfued; in which though neither party had much reason to boast of victory, the Dancs were so much reduced, that they willingly concluded a peace on the following terms, viz. That the Peace con-Danes should immediately depart from Scotland; that cluded, as long as Malcolm and Sweyn lived, neither of them should wage war with the other, or help each other's enemies; and that the field in which the battle was fought should be set apart and consecrated for the burial of the dead. These stipulations were punctually fulfilled by Malcolm, who built in the neighbourhood a chapel dedicated to Olaus, the tutelar faint of these northern nations.

After performing all these glorious exploits, and becoming the second legislator in the Scottish nation, Malcolm is faid to have stained the latter part of his reign with avarice and oppression; in consequence of which he was murdered at the age of 80 years, after he had reign. Malcolm ed above 30. This affaffination was perpetrated while affaffinated. he was on his way to Glammis. His own domestics are faid to have been privy to the murder, and to have fled along with the conspirators; but in passing the lake of Forfar on the ice, it gave way with them, and they were all drowned. This account is confirmed by the sculptures upon some stones erected near the spot; one of which is still called Malcolm's grave-flone; and all of

them exhibit some rude representations of the murder and

the fate of the affaffins. Malcolm was succeeded, in the year 1034, by his Duncan I. grandson Duncan I. but he is faid to have had another An. 1034. grandfon, the famous Macbeth; though fome are of opinion that Macbeth was not the grandfon of Malcolm, but of Fenella who murdered Kenneth III. The first years of Duncan's reign were passed in tranquillity, but domestic broils soon took place on the following occasion. We are told by some historians that Banquo, a nobleman of great eminence, acted then in the capacity of steward to Duncan, by collecting his rents; but being very rigid in the execution of his office, he was way-laid, robbed, and almost murdered. Of this outrage Banquo complained as foon as he recovered of his wounds and could appear at court. The robbers were

(B) Mr Gordon, in his Itinerarium Septentrionale, observes, that in all probability the Scots gained two victories over the Danes on the pielent occasion; one near the place called Karboddo, already mentioned; and the other at Aberlemno, four miles from Brechin. At both places there are monuments with rude sculptures, erected most probably in memory of a victory. That at Karboddo is called Camur's cross; near which, somewhat more than a century ago, a large sepulchre, supposed to be that of Camus, was discovered. It consisted of four great stones; and had in it a huge skeleton, supposed to be that of the Danish prince. The fatal stroke seemed to have been given him on the back part of the head; a confiderable portion of the skull being cut away, probably by the stroke of the fword.

The Danes again defeated.

family of Keith.

Scotland. furmmoned to furrender themselves to justice; but instead of obeying, they killed the meffenger. Macbeth reprefented this in fuch strong terms, that he was fent with an army to reduce the infurgents, who had already deftroyed many of the king's friends. This commission he performed with fuch fuccess, that the rebel chief put an end to his own life; after which Macbeth fent his head to the king, and then proceeded with the utmost feverity against the insurgents.

б2 A new invalion by the Danes;

This infurrection was fearcely quelled, when the Danes landed again in Fife; and Duncan put himfelf at the head of an army, having the thanes Macbeth and Banquo ferving under him. The Danes were commanded by Sweyn king of Norway, and eldeft fon of Canute. He proceeded with all the barbarity natural to his nation, putting to death men, women, and children, who fell in his way. A battle was fought between the two nations near Culrofs, in which the Scots were defeated: but the Danes purchased their victory so dearly, that they could not improve it; and Duncan retreated to Perth, while Macbeth was fent to raife more forces. In the mean time Sweyn laid fiege to Perth, which was defended by Duncan and Banquo. The Danes were fo much diffressed for want of provisions, that they at last confented to treat for peace, provided the preffing necessities of the army were relieved. The Scots historians inform us, that this treaty was fet on foot in order to amuse Sweyn, and gain time for the stratagem which Duncan was preparing. This was no other than a barbarous contrivance of infufing intoxicating herbs into the liquors that were fent along with the other provisions to the Danish camp. These soporifies had the intended effect; and while the Danes were under their influence. Macbeth and Banquo broke into their camp, where they put all to the fword, and it was with difficulty that fome of Sweyn's attendants carried him on board; and we are told that his was the only thin of all the fleet that returned to Norway. It was not long, however, before a fresh body of Danes landed at Kinghorn in the county of Fife: but they were entirely defeated by Macbeth and Banquo. Such of the Danes as escaped fled to their ships; but before they departed they obtained leave to bury their dead in Inchcolm, a fmall ifland lying in the Forth, where one of their monuments is flill to be feen.

Thus ended the formidable invasions of the Danes; after which Duncan applied himfelf to the administration of justice, and to reform the manners of his sub-

While he was thus exerting himfelf for the good of his fubjects, his general, Macbeth, who had been fo much diffinguished in the Danish wars, was plotting the affaffination of the king, and the ufurpation of the throne. To these purposes, it appears, Macbeth was instigated by his wife, the lady Gruoch, daughter of Kenneth IV. who, as we have feen, was flain by Malcolm II. the grandfather of Duncan. This lady had been married to Gilcomgain, the maormor of Murray, and after his death had espoused Macbeth, the maormor of Rofs. This account of Lady Macbeth shews that it was a spirit of revenge for the murder of her grandfather, which prompted her to instigate her husband to the affaffination of Duncan. This affaffination took place in 1030, not near Invernefs, as related by Shakespeare and the historians whom he has copied, but at

Bathgowanan, near Elgin, within the territory of Gru- Scotland. och. Duncan left two infant fons, Malcoim and Donald, of whom the former, on the death of his father, fled to Cumberland, and the latter found an afylum in the Western Islands. Macbeth having thus gratified his wife's revenge, and his own ambition, took poffession of the vacant throne.

During the greater part of the reign of the usurper, Reign of Malcolm, the true heir to the crown of Scotland, kept Macbeth. within his principality of Cumberland, without any An. 1039. thoughts of afcending his father's throne. Macbeth for some time governed with moderation, but at last be-

came a tyrant.

Scone.

Among the numerous fables with which the flory of Macbeth has been decked, must be ranked the murder of Banquo, and the escape of his son Fleance, the suppoled primogenitor of the house of Stewart. History knows nothing of Banquo the thane of Lochaber, nor of Fleance his ion. None of the ancient chronicles nor Irith annals, nor even Fordoun, recognize the names of Banquo and Fleance, though the latter be made by genealogists the root and father of many kings. Nor is a thane of Lochaber known in Scottish history, because the Scottish kings had never any demesses within that impervious diffrict \*.

\* Chalmer's Macduff, the thane of Fife, was the most powerful Caledonia, person in Scotland; for which reason, Macbeth deter-vol. i. mined to deftroy him. On this Macduff fled to France; P. 412. and Macbeth cruelly put to death his wife, and children who were yet infants, and fequenered his effate. Mac-Macbeth duff vowed revenge, and encouraged Malcolm to at-driven out, tempt to dethrone the tyrant. Macbeth opposed them with his whole force; but being defeated in a pitched battle, he took refuge in the most inaccessible places of the Highland, where he defended himfelf for two years; but in the mean time Malcolm was acknowledged king of Scotland, and crowned at

The war between Macbeth and the new king conti-and killed nued for two years after the coronation of the latter; but at last he was killed in a fally by Macduff, at Lum-phanan, on the 5th of Decr. 1056. However the public tranquillity did not end with his life. His followers elected one of his kinfmen named Lullach, furnamed the Idiot, to fucceed him; but he not being able to withfland Malcolm, withdrew to the north, where being purfued, he was killed at Effey in Strathbogie, after a

reign of four months. Malcolm being now effablished on the throne, be-Malcolm gan with rewarding Macduff for his great fervices; and III effaconferred upon his family four extraordinary privileges : blifted on 1. That they should place the king in his chair of state the Scottish at the coronation. 2. That they should lead the van An. 1056. of all the royal armies. 3. That they should have a regality within themselves; and, 4. That if any of Macdust's samily should happen to kill a nobleman unpremeditately, he should pay 24 marks of filver, and, if a plebeian, 12. The king's next care was to reinstate in their fathers possessions all the children who had been difinherited by the late tyrant; which he did in a convention of his nobles held at Forfar. In the time of William the conqueror, we find Malcolm engaged in a dangerous war with England, the occasion of which was

as follows. On the death of Edward the Confessor,

Harold seized the throne of England, to the prejudice

64

Duncan

murdered

by Mac-

beth.

who are

defeated.

Sextand of Edgar Atheling the true heir to the crown. However, he created him earl of Oxford, and treated him with great respect; but on the defeat and death of Harold, William discovered some jealousy of Edgar, Soon after, William having occasion to pay a visit to his dominions in Normandy, he appointed Edgar Atheling to attend him, along with fome other noblemen whom he suspected to be in his interest; but on his return to England, he found the people fo much disaffected to his government, that he proceeded with great feverity. which obliged great numbers of his fubjects to take refuge in Cumberland and the fouthern parts of Malcolm's dominions. Edgar had two fifters, Margaret and Chriftina: thefe, with his two chief friends, Gospatric and Martefwin, foon made him fenfible how precarious his life was under fuch a jealous tyrant, and perfuaded him to make preparations for flying into Hungary or fome foreign country. Edgar accordingly fet fail with his mother Agatha, his two filters, and a great train of Anglo-Saxon noblemen; but by stress of weather was forced into the frith of Forth, where the illustrious exiles landed at the place fince that time called the Queen's Ferry. Malcolm no fooner heard of their landing than he paid them a vifit in perfon; and at this vifit he fell in love with the Princels Margaret. In confequence

against him. William was the most formidable enemy whom the tween Scot- Scots had ever encountered, as having not only the whole force of England, but of Normandy, at his command. However, as he had tyrannized most unmercifully over his English subjects, they were much more inclined to affift his enemies than their own prince; and he even found himfelf obliged to give up the county of Northumberland to Gospatric, who had followed Edgar, upon condition of his making war on the Scots. This nobleman accordingly invaded Cumberland; in return for which Malcolm ravaged Northumberland in a dreadful manner, carrying off an immense booty, and inviting at

of this, the chief of Edgar's party repaired to the

court of Scotland. William foon made a formal demand

of Edgar; and on Malcolm's refufal, declared war

the fame time the Irith and Danes to join him. By this time William had taken from Gospatric the earldom of Northumberland, and given it to Robert Cummin one of his Norman barons; but the Northumbrians having joined Gospatric, and received the Danes as their countrymen, murdered Cummin and all his followers at Durham, where they had been guilty of great cruelties. After this they laid fiege to the forts built by William in Yorkshire; but not being able to reduce them, the English, Scots, and Danes, united their forces, took the city of York, and put to the fword three thousand Normans who were there in garrison; and this fucce's was followed by many incursions and ravages, in which the Danes and Northumbrians acquired great booty. It fonn appeared, however, that these allies had the interest of Edgar no more at heart than the Irish; and that all the dependence of this forlorn prince was upon Malcolm, and the few Englishmen who had followed his fortune: for the booty was no fooner obtained, than the Danes retired to their ships, and the Northumbrians to their habitations, as if they had been in perfect fafety. But in the mean time Wil-Bam, having raifed a confiderable army, advanced northwards. He first inslicted a severe revenge upon the Northumbrians; then he reduced the city of York, Scotland. and put to death all the inhabitants; and perceiving that danger was still threatened by the Danes, he bribed them with a fum of money to depart to their own

Malcolm was now left alone to encounter this foramidable adverfary; and, finding himself unable to oppose so great a force, withdrew to his own dominions, where he remained for some time on the defensive, but not without making great preparations for once more invading England. His fecond invafion took place in A fecond the year 1071, while William was employed in quelling invalion. an infurrection in Wales. He is faid at this time to have behaved with the greatest cruelty. He invaded England by Cumberland; ravaged Teefdale; and at a place called Hundreds-keld, he maffacred fome English noblemen, with all their followers. Thence he marched to Cleveland in the north riding of Yorkshire; which he also ravaged with the utmost cruelty, fending back the booty with part of his army to Scotland : after which, he pillaged the bithopric of Durham, where he is faid not to have spared the most facred edifices, but to have burnt them to the ground. In the mean time Gospatric, to whom William had again ceded Northumberland, attempted to make a diversion in his favour, by invading Cumberland: but being utterly defeated by Malcolm, he was obliged to thut himfelf up in Bamborough caftle; while Malcolm returned in triumph with his army to Scotland, where he married the princess Margaret.

The next year William, having greatly augmented William his army, invaded Scotland in his turn. The parti-the Conculars of the war are unknown; but it certainly ended vades Scotmuch to the difadvantage of the Scots, as Malcolm land. agreed to pay him homage. The English historians contend that this homage was for the whole of his dominions; but the Scots with more reason affirm, that it was only for those he possessed in England, On the conclusion of the peace, a cross was erected at Stanmore in Richmondshire, with the arms of both kings, to ferve as a boundary between the poffetfions of William and the feudal dominions of Malcolm. Part of this monument, called Re-crofs, or rather Roy-crofs, or The crofs of the kings, was entire in the days of Cam-

This peace between Malcolm Canmore and William produced the greatest alteration in the manners of the Scots. What contributed chiefly to this was the excellent disposition of Queen Margaret; who was, for that age, a pattern of picty and politeness: and next Reformato this was the number of foreigners who had fettled tion let on in Scotland; among whom were fome Frenchmen, who foot by the laid the foundation of that friendship with the Scots quern of which lafted for ages. Malcolm himself, also, though Scotland, by his ravages in England he feems naturally to have been a barbarian, was far from being averse to a reformation, and even fet the example himfelf. During her hutband's absence in England Queen Margaret had chosen for her confessor one Turgot, whom she also made her affiltant in her intended reformation. She began with new-modelling her own court; into which the introduced the offices, furniture, and manner of living, common among the more polite nations of Europe. She difmiffed from her fervice all those who were noted for immorality and impiety; and charged Turgot, on 4 F 2

69 Edgar, an Baglith prince.

land and Magland.

War be-

invaded

pain

Scotland pain of her displeasure, to give his real sentiments on the ftate of the kingdom, after the bell inquiry he could make. By him the was informed, that faction reigned among the nobles, rapine among the commons, and incontinence among all degrees of men. Above all, he complained that the kingdom was destitute of a learned clergy, capable of reforming the people by their example and doctrine. All this the queen represented to her husband, and prevailed upon him to fet about the work of reformation immediately. In this, however, he met with confiderable opposition. The Scots, accustomed to oppress their inferiors, thought all reflrictions of their power fo many steps towards their slavery. The introduction of foreign offices and titles confirmed them in this opinion; and fuch a dangerous infurrection happened in Moray and fome of the northern counties, that Malcolm was obliged to march against the rebels in person. He found them, indeed, very formidable; but they were fo much intimidated by his refolution, that they intreated the clergy who were among them to intercede with the king in their favour. Malcolm received their fubmiffion, but refused to grant an unconditional pardon. He gave all the common people indeed leave to return to their habitations, but obliged the higher ranks to furrender themselves to his pleasure. Many of the most guilty were put to death, or condemned to perpetual imprisonment; while others had their estates confiscated. This severity checked the rebellious spirit of the Scots, and Malculm returned to his plans of reformation. Still, however, he found himself opposed even in those abuses, which were most obvious and glaring. He durst not entirely abolish that infamous practice of the landlord claiming the first night with his tenant's bride; though, by the queen's influence, the privilege was changed into the payment of a piece of money by the bridegroom, and was afterwards known by the name of mercheta mulierum, or " the woman's merk." In those days the Scots had not the practice of faying grace after meals, till it was introduced by Margaret, who gave a glass of wine, or other liquor, to those who remained at the royal table and heard the thanksgiving; which expedient gave rise to the term of the grace-drink. Belides this, the terms of the duration of Lent and Easter were fixed; the king and queen beflowed large alms on the poor, and the latter washed the feet of fix of their number; many churches, monasteries, &c. were erected, and the clerical revenues augmented. Notwithstanding these reformations, however, fome historians have complained, that, along with the manners of the English and French, their luxuries were also introduced. Till this reign the Scots had been remarkable for their fobriety and the simplicity of their diet; which was now converted into excess and riot, and fometimes ended fatally by quarrels and bloodshed. We are told, at the same time, that even in those days, the nobility ate only two meals a-day, and were ferved with no more than two dishes at each meal.

In the year 1079, Malcolm again invaded England; but upon what provocation, or with what fuccels, is not well known. But in 1088, after the death of the Conqueror, he again espoused the cause of Edgar Atheling, who had been reduced to implore his affiftance a fecond time, when William Rufus afcended the throne of England. At the time of Edgar's arrival, Malcolm was at the head of a brave and well disciplined army,

with which he penetrated a great way into the country Scotland. of the enemy; and, as is faid, returned to Scotland with an immense booty. William resolved to revenge the injury, and prepared great armaments both by fea and land for the invalion of Scotland. His fuccels, however, was not answerable to the greatness of his preparations. His fleet was dashed to pieces by storms, and almult all on board of it periflied. Malcolm had allo laid waste the country through which his antagonist was to pals, fo effectually that William loft a great part of his troops by fatigue and famine; and, when he arrived in Scotland, found himself in a fituation very little able to reful Malcolm, who was advancing against him with a powerful army. In this diffress, Rufus had recourse to Robert de Mowbray earl of Northumberland, who The Engage diffunded him from hazarding a battle, but advised lift army him to open a negociation by means of Edgar and in great the other English noblemen who resided with Mal-danger. colm. Edgar undertook the negociation, on condition of his being restored to his estates in England; but met with more difficulty than he imagined. Malcolm had never yet recognized the right of William Rufus to the throne of England, and therefore refused to treat with him as a fovereign prince; but offered to enter into a negociation with his brother Robert. The two princes accordingly met; and Malcolm, having shown Robert the disposition of his army, offered to cut off his brother William, and to pay to him the homage he had been accustomed to pay to the Conqueror for his Englift dominions. But Robert generously answered, that he had refigned to Rufus his right of primogeniture in England; and that he had even become one of William's fubjects, thereby accepting of an English estate. An interview with William then followed; in which it Peace conwas agreed that the king of England thould reftore to cluded. Malcolm all his fouthern possessions, for which he should pay the same homage he had been accustomed to do to the Conqueror; that be should restore to Malcolm 12 disputed manors, and give him likewise 12

This treaty was concluded in Lothian, according to the English historians; but at Leeds in Yorkshire, according to the Scots. However, the English monarch looked upon the terms to be fo very dishonourable, that he resolved not to fulfil them. Soon after his departure, Edgar and Robert began to press him to fulfil his engagements; but receiving only evalive answers, they passed over into Normandy. After their departure, William applied himself to the fortification of his northern boundaries, especially Carlisle, which had been destroyed by the Danes 200 years before .- As this place lay within the feodal dominions of Malcolm, he complained of William's proceeding, as a breach of the late treaty; and foon after repaired to the English court at Gleucester, that he might have a personal interview with the king of England, and obtain redrefs. On his arri-Hostilines val, William refused him admittance to his presence, recommenwithout paying him homage. Malcolm offered this in ced.

merks of gold yearly, besides restoring Edgar to all his

English estates.

the fame manner as had been done by his predecessors, that is, on the confines of the two kingdoms; but this being rejected by William, Malcolm returned to Scotland, and prepared again for war. The first of Malcolm's military operations now pro-

ved fatal to him; but the circumstances of his death are

England again invaded.

Scotland, variously related. It is generally believed that while

Malcolm killed at the fiege

Donald

An. 1093.

Bane.

profecuting the fiege of Alnwick in Northumberland, he was furprifed by Earl Moubray, by whom it was defended, and flain, together with his eldell fon Edward. on the 19th November, 1093. Queen Margaret, who of Alnwick was at that time lying ill in the caltle of Edinburgh, died four days ofter her hutband. The throne

After the death of Malcolm Canmore, the throne usurped by was usurped by his brother Donald Bane; who, notwithflanding the great virtues and glorious atchievements of the late king, had been at the head of a ftrong party during the whole of his brother's reign. The usurper, giving way to the barbarous prejudices of himfelf and his countrymen, expelled from the kingdom all the foreigners whom Malcolm had introduced, and obliged them to take refuge in England. Edgar himfelf had long refided at the English court, where he was in high reputation; and, by his interest there, found means to rescue his nephew, young Edgar, the king of Scotland's eldest furviving son, out of the hands of the usurper Donald Bane. The favour which he showed him. however, produced an accufation against himself, as if he defigned to adopt young Edgar as his fon, and fet him up as a pretender to the English throne. This accusation was preferred by an Englishman whose name was Orgar; but, as no legal proofs of the guilt could be obtained. the custom of the times rendered a fingle combat between the parties unavoidable. Organ was one of the strongest and most active men in the kingdom; but the age and infirmities of Edgar allowed him to be defended by another. For a long time none could be found whd would enter the lifts with this champion; but at last one Godwin of Winchester, whose family had been under obligations to Edgar or his ancestors, offered to defend his cause. Organ was overcome and killed: and, when dying, confessed the falsehood of his accusation. The conqueror obtained all the lands of his adversary, and William lived ever afterwards on terms of the firstest friendship with Edgar.

This combat, trifling as it may feem to us, produced very confiderable effects. The party of Edgar and his brother's (who had likewife taken refuge at the English court) revived in Scotland, to such a degree, that Donald was obliged to call in the Danes and Norwegians to his affiliance. In order to engage them more effectually to his interest, the usurper yielded up to them the Orkney and Shetland islands; but when his new allies came to his affiftance, they behaved in fuch a manner as to become more intolerable to the Scots than ever the English had been. The discontent was greatly increased when it was found that William defigned to place on the throne of Scotland a natural fon of the late Malcolm, named Duncan, who had ferved in the English armies with great reputation. Donald attempted to maintain himself on the throne by the affiftance of his Norwegian allies; but, being abandoned by the Scots, he was obliged to fly to the isles, in order to raise more forces; and in the mean time Duncan was crowned at Scone with the ufual fo-

The Scots were now greatly diffressed by two usurpers who contended for the kingdom, each of them supported by a foreign army. One of them, however, was foon dispatched. Malpedir, thane of Mearns, furprifed Duncan in the castle of Monteith, and killed

him; after which he replaced Donald on the throne. Scotland. The affection of the Scots, however, was by this time entirely alienated from Donald, and a manifelt intention of calling in young Edgar was shown. To prevent this, Donald offered the young prince all that part of Scotland which lay to the fouthward of the Forth; but the terms were rejected, and the messengers who brought them were put to death as traitors. The king of England also, dreading the neighbourhood of the Norwegians, interposed in young Edgar's favour, and gave Atheling the command of an army in order to restore his nephew. Donald prepared to oppose his ene- Donald demies with all the forces he could raife; but was defert-poied by ed by the Scots and obliged to fly : his enemies purfued Edgar. him fo closely, that he was foon taken; and being brought before Edgar, he ordered his eyes to be put out, condemning him at the same time to perpetual banithment, in which he died fome time after.

With Donald Bane may be faid to have terminated the line of Scoto-Irish kings, which had filled the throne of Scotland from the invalion of Fergus in 506, to the year 1097, the date of Donald Bane's defeat, comprehending a period of 501 years. Edgar the new monarch was of Saxon defcent, and as in his person a new dynasty commenced, it may be proper to take a brief furvey of the state of Scotland on his accession, or at the

close of the eleventh century. We have feen that from the time of Kenneth II. the State of Picts were either expelled from Scotland, or had been Scotland at gradually incorporated with the Scoto-Irish tribes. At the close of the period of which we are now treating, Scotland was the 11th fubdivided into 13 diffricts, viz. those of Lothian, Gal-

loway, Strathcluid, Fife, Strathern, Athol, Angus, Mærn or Mearos, the extensive district between the Dee and the Spey, comprehending Aberdeen and Banff. and the diffricts of Murray, Argyle, Rofs, and Sutherland. Most of these districts possessed within themfelves, an independent authority, exercifed by the thane. The clans of the diffinet diffriets possessed rights which the regal power could fcarcely controul: they were governed by their own cufloms, and the king could neither appoint nor displace their chieftains. The notion of a body politic having an acknowledged authority to make laws, which every individual and every diffrict were bound to obey, was fearcely known. The kings and the maormors were fo independent of each other in their respective stations, that the power of the fuperior over his vasfal was but little felt, though it was acknowledged, and was often refitled, because it could not easily be enforced. The same law which directed the fuccession of the kings, operated equally, and with fimilar effects, in the fuccession of every chieftain. The custom called tanistry, already explained in No 32, was the common law of North Britain throughout the Scoto-Irish period. The Brehons continued to be judges throughout every diffrict of Scotland, and were regulated in their judicial proceedings, by the common customs of the country, and the usual manners of the

One of the most fingular customs introduced by the Manners Scoto-Irith colonists, and which prevailed for many fuc- and cufceeding lages, was the use of slug-horns, or war-cries, toms. Each clan had its appropriate flug-horn. Thus, that of the Mackenzies was Tulloch-ard, or the high hill; that of the Grants, Craig-clackie, rock of alarm. Often

82 Donald the Orkney land iflands to the Danes.

86

Reign of

Edgar. An. 1007.

Scotland, they were finiply the name of the clan, as A Home, A Home, for the family of Hume; A Douglas, A Douglas, for that of Douglas. At this time the nobility used no armorial bearings, which we are affured were not adopted before the reign of William the Lion, on whose escutcheon the lion rampant first appeared as a national badge. Neither feals nor coins appear to have been in use, but all commerce confisted in barter.

Edgar was fon of Malcolm Canmore by Margaret, an Anglo-Saxon princess, and was still very young when he afcended the Scottish throne. The education which he had received from his mother, the experience which he had acquired under the English government in Northumberland, the establishment of his authority over North Britain by the power of that government, all induced him to imitate the English rather than the Scottish customs, during his feeble administration.

He had scarcely ascended the throne of his father when Magnus, the enterprising king of Norway, appeared in the furrounding feas, in order to compel the fubmiffion of his fubiects in the Orkneys and Hebudes, and to plunder or overawe the inhabitants of the neighbouring thores of England, of Man, and of Ireland. Had Magnus attempted a descent on the coast of Scotland, he would probably have met with little opposition from Edgar, in whom the appearance of the Norwegian prince appears to have excited confiderable apprehenfrom this, however, he was relieved by the death of Magnus, in 1103. Three years before had died William Rufus, whom Edgar confidered as a benefactor; and in the fame year, his fifter Matilda had been married to Henry I. Thus, both from prudence and policy, Edgar avoided all disputes with England, and either his interest or his weakness prevented him from interfering with the then embroiled state of the European continent. He paid confiderable attention to the internal regulation of his kingdom, especially in ecclefiaftical matters. He conferred on the monks of St Cuthbert at Durham, many churches and lands near Berwick; and he bestowed the church of Portmoak in Kinrofs, on the Culdees, and that of Gellold on the monks of Dunfermling. It does not appear, however, that in this religious age he founded any remarkable religious house. He died at Dun-Edin without issue, on the 8th of January 1106, having reigned nine years. He has been characterifed as an amiable man, who formed himself in the model of Edward the Confessor, of England. From the filence of history we may infer that his reign was barren of events; and from the feebleness of his character, we may conclude that his authority was fearcely recognifed within the largest portion of his kingdom.

Edgar was succeeded by his brother Alexander I. furnamed the Fierce from the impetuofity of his temper. On his acceffion to the throne, however, the Scots were fo ignorant of his true character, on account of his appearance of piety and devotion, that the northern parts of the kingdom were foon filled with ravages and bloodflied, by reason of the wars of the chieftains with each other. Alexander immediately raifed an army, and marching into Moray and Rofs-shire, attacked the infurgents separately; and having subdued them all, he put great numbers of them to death. He then prepared to reduce the exorbitant power of the nobles, and to deliver the people from the oppression under which they groaned. A remarkable inflance of this appeared on his Scotland. return from the expedition just now mentioned. In passing through the Mearns, he met with a widow, who complained that her husband and fon had been put to death by the young earl their superior. Alexander immediately alighted from his horse, and fwore that he would not remount him till he had inquired into the juftice of the complaint; and, finding it to be true, the offender was hanged on the fpot. These vigorous proceedings prevented all attempts at open rebellion; but produced many conspiracies among the profligate part of his private subjects, who had been accustomed to live

under a more remiss government. The most remarkable Narrow'y of these took place while the king was engaged in build-ef apes ing the castle of Baledgar, so called in memory of his affassius. brother Edgar, who had laid the foundation stone. It was fituated in the Carfe of Gowrie, which, we are told, had formerly belonged to Donald Bane, but afterwards came to the crown, either by donation or forfeiture. The conspirators bribed one of the king's chamberlains to introduce them at night into the royal bed-chamber : but Alexander, alarmed at the noise, drew his fword, and killed fix of them; after which, by the help of a knight named Alexander Carron, he escaped the danger, by flying into Fife. The conspirators chiefly resided in the Mearns, to which Alexander once more repaired at the head of an army; but the rebels retreated northwards, and croffed the Spey. The king pursued them across that river, defeated them, and brought to justice all that fell into his hands. In this battle, Carron diffinguished himself so eminently, that he obtained the name of Skrimgeour or Skrimgeour; which indeed is no other than the English word skirmisher or fighter.

The next remarkable transaction of Alexander's reign, His explores as recorded by the English historians, was his journey in England. into England, where he paid a vifit to Henry I. whom he found engaged in a war with the Welsh. Alexander, in virtue of the fealty which he had fworn for his English possessions, readily agreed to lead an army into Wales. There he defeated one of the chieftains, and reduced him to great firaits; but could not prevent him from escaping to Griffith prince of North Wales, with whom he was closely allied. Henry also marched against the enemy, but with much worse success than

Alexander. Alexander died in 1124, after a reign of feventeen years; and was buried at Dunfermline. This prince, dying a bachelor, was fucceeded by his Wars of younger brother David; who interfered in the affairs King Daof England, and took part with the empress Maud in vid with the civil war which she carried on with Stephen. In An. 1124. 1136, David met his antagonist at Durham; but as neither party chose to hazard an engagement, a negociation took place, and a treaty was concluded. This, however, was observed but for a short time; for, in the following year, David again invaded England, on some frivolous pretence. He defeated Stephen at Roxburgh; and forced him to retreat precipitately, after losing one half of his army. Next year he renewed his invalion; and, though he himself was a man of great mildness and humanity, he fuffered his troops to commit fuch outrages, as firmly united the English in opposition to him. His grand-nephew William cut in pieces the vanguard

of the English army at Clithero; after which he rava-

ged the country with fuch cruelty, that the inhabitants

became exasperated beyond measure against him. New

affociations

Alexander I. An. 1107.

Adminifters juttice rigidiy.

Scotland affociations were entered into against the Scots; and the English army receiving great reinforcements from the fouthward, advanced to Northallerton, where the famous standard was produced. The body of this stanthe Stand- dard was a kind of box which moved upon wheels, from which arose the mast of a ship surmounted by a filver cross, and round it were bung the banners of St Peter, St John de Beverly, and St Wilfred. Standards of this kind were common at that time on the continent of Europe; and fo great confidence had the Englifh in this standard, that they now thought themselves invincible. They had, however, a much more folid ground of confidence, as being much better armed than their antagonists. The armies met at a place called Culton Moor. The first line of the Scots army was composed of the inhabitants of Galloway, Carrie, Kyle, Cunningham, and Renfrew. The fecond line conflitted of the Lothian men, by which we are to understand the king's subjects in England as well as the fouth of Scotland, together with the English and Normans of Maud's party. The third line was formed of the clans under their different chieftains; but who were subject to no regular command, and were always impatient to return to their own country when they had acquired any booty. The Englith foldiers having ranged themselves round their standard, dismounted from their horses, in order to avoid the long lances which the first line of the Scots army carried. Their front-line was intermixed with archers; and a body of cavalry, ready for purfuit, hovered at some distance. The Scots, besides their lances, made use of targets; but, when the English closed with them, they were foon difordered and driven back upon the centre, where David commanded in person. His son made a gallant refiftance, but was at last forced to yield : the last line feems never to have been engaged. David, feeing the victory decided against him, ordered some of his men to fave themselves by throwing away their badges, which it feems Maud's party had worn, and mingling with the English; after which he himself, with his fhattered forces, retreated towards Carlifle. The English historians fay, that in this battle the Scots were totally defeated, with the lofs of 10,000 men; but this frems not to be the case, as the English did not pursue, and the Scots were in a condition for carrying on the war next year. However, there were now no great exploits performed on either fide; and a peace was concluded, by which Henry prince of Scotland was put in possession of Huntingdon and Northumberland, and took an oath of fealty to Stephen. David continued faithful to his niece the empress as long as he lived; and died at Carlifle in the year 1153, after a glorious reign of rather more than 20 years.

David was fucceeded by his grandfon Malcolm IV. furnamed the Maiden, on account of his continence, He appears to have been a weak and fuperstitious prince, and died of a depression of spirits in the year 1165. He was succeeded by his brother William I. who immediately entered into a war with Henry II. of a war with England, on account of the earldom of Northumberof England, land, which had been given up by Malcolm; but Hen-Au. 1165. ry, finding his affairs in a very embarrafied fituation, confented to yield up this county, on William's paying him homage, rather than continue the mileries of war. In 1172, he attempted to avail himself of the unnatural war which Henry's fons carried on against their father,

and invaded England. He divided his army into three Scotland. columns: the first of which laid siege to Carlisle; the fecond the king in person led into Northumberland; and the king's brother, David, advanced with the third into Leicestershire. William reduced the castles of Burgh, Appleby, Warkworth, and Garby; and then joined that division of his army which was besieging Carlitle. The place was already reduced to fuch straits, that the governor had agreed to furrender it by a certain day, provided it was not relieved before that time : on which the king, leaving some troops to continue the siege, invested a castle with some of the forces he had under his command, at the same time fending a strong reinforcement to his brother David; by which means he himself was left with a very small army, when he received intelligence that a strong body of English under Robert de Stuteville and his fon were advancing to furprife him .- William, fenfible of his inability to refift them, retired to Alnwick, to which he instantly laid fiege; but in the mean time afted in fuch a careless and unthinking manner, that his enemies actually effected their designs. Having dressed a party of their foldiers in Scots habits, they took the king himself prifoner, and carried him, with his feet tied under the belly of a horfe, to Richmond Castle. He was then He is taken conveyed in chains before Henry to Northampton, and priioner by ordered to be transported to the castle of Fakaile in the English, Normandy, where he was thut up with other state pri- and oblifoners. Soon after this an accommodation took place homage for between Henry and his fons, and the prisoners on both his kingfides were fet at liberty, William only excepted, who dombore his confinement with great impatience. Of this Henry took the advantage, to make him pay homage for the whole kingdom of Scotland, and acknowledge that he held it only as a feu of the crown of England; and, as a fecurity, he was obliged to deliver into the hands of Henry all the principal forts in Scotland, viz. the castles of Roxburgh, Berwick, Jedburgh, Edinburgh, and Stirling; William at the fame time agreeing to pay the English garrisons which were put into these castles.

returned to Scotland. The affairs of Scotland were now in the greatest confusion. The people of Galloway, at the head of whom were two chiefs called Othred and Gilbert, had taken the opportunity of afferting their independency on the crown of Scotland; and, having expelled all the Scots officers out of the country, they demolished all the forts which William had erected in their country, and put to death all the foreigners. But in the mean time a quarrel enfuing between the two chiefs, Othred was murdered by Gilbert, who immediately applied to Henry

David, the king's brother, with 20 barons, who were

prefent at the figning of this shameful convention, were

put into the hands of Henry as hoftages for William's

good faith; after which the king was fet at liberty, and

for protection.

Henry, in order to give all possible fanction to the convention betwixt him and William, funmoned him to meet him and his fon at York. William obeyed the fummons, and along with him appeared all the great nobility and landholders; who confirmed the convention of Falaife, fwore fealty to Henry, and put themfelves and their country under his protection. In the mean time, Gilbert, who was at the head of the tebels in Galloway, had offered to place himself and his people

The Scots entirely defeated.

Malcolm An. 1153.

William I. envages in

SCO Scotland, under the protection of the king of England, and to pay to Henry 2000 merks of filver yearly, with 500 cows and as many hogs, by way of tribute: Henry, however, that he might oblige his new feudatory William, refused to have any concern in the affair. On this, William ordered his general Gilchrift to march against him; which he did with such success, that Gilbert was entirely defeated, and Galloway again reduced

under the dominion of Scotland. Very foon after this victory, Gilchrist fell under the king's displeasure on Adventures the following occasion. He had married Matilda, fitter to William; and on suspicion, or proof, of her incontinence, put her to death at a village called Maynes, near Dundee. The king being highly displeased at such a grofs affront to himfelf, fummoned Gilchrift to take his trial for the murder : but as the general did not choose to make his appearance, his estates were confiscated, his castles demolished, and he himself sent into exile. He took refuge in England; but as it had been agreed in the convention between William and Henry that the one should not harbour the traitorous subjects of the other. Gilchrift was forced to return to Scotland with his two fons. There they were exposed to all the mileries of indigence, and the perpetual fear of being discovered, so that they were obliged to skulk from place to place. William, on his return from an expedition against an usurper whom he had defeated, happened to observe three strangers, who, though disguised like ruftics, appeared by their noble mien to be above the vulgar rank. William, who first discovered them, was confirmed in this apprehension, by seeing them strike out of the high road, and endeavour to avoid notice. He ordered them to be feized and brought before him. The oldest, who was Gilchrift himself, fell upon his

knees before him, and gave fuch a detail of his misfortunes as drew tears from the eyes of all prefent; and the king restored him to his former honours and estates, From the family of this Gilchrift that of the Ogilvies is

of Ogilvy. faid to be descended.

The Scots continued to be in subjection to the English till the accession of Richard I. This monarch being a man of romantic valour, zealously undertook an expedition into the Holy Land against the Turks, in conformity with the fuperstition of the times. That he might fecure the quiet of his dominions in his absence. he determined to make the king of Scotland his friend; William re- and for this purpose, he thought nothing could be more leafed from acceptable than releafing him and his fubjects from that

his homage subjection which even the English themselves considered by Richard as forced and unjust. However, he determined not to lose this opportunity of supplying himself with a sum An. 1189. of money, which could not but be abfolutely necessary in fuch an expensive and dangerous undertaking. He therefore made William pay him 10,000 merks for this releafe: after which he entered into a convention fill extant; in which he acknowledges, that " all the conventions and acts of submission from William to the crown of England had been extorted from him by unprecedented writings and dureffe." This transaction

happened in the year 1180.

The generofity of Richard met with a grateful return from William; for when Richard was imprisoned by the emperor of Germany in his return from the Holy Land. the king of Scotland fent an army to affift the regency against his rebellious brother John, who had wickedly usurped the throne of England. For this Richard ac- Scotland. knowledged his obligation in the highest degree; but William afterwards made this an excuse for such high demands as could not be complied with. Nevertheless, the two monarchs continued in friendship as long as Richard lived. Some differences happened with King John about the possession of Northumberland and other northern counties: but these were all finally adjusted to the mutual fatisfaction of both parties; and William continued a faithful ally of the English monarch till his death, which happened in the year 1214, after a reign of 49 years.

William was fucceeded by his fon Alexander II, a Alexanyouth of 16. He renewed his claim to Northumber-der II. land and the other northern counties of England; but An. 1214. John, supposing that he had now thoroughly subdued the English, not only refused to consider the demands of Alexander, but made preparations for invading Scotland. John had given all the country between Scotland and the river Tees to Hugh de Baliol and another nobleman, upon condition of their defending it against the War with Scots. Alexander invaded Northumberland, which he John, king eafily reduced, while John invaded Scotland. Alexan-of England. der retired to Melros, in order to defend his own country; upon which John burnt the towns of Wark, Alnwick, and Morpeth, and took the ffrong castles of Roxburgh and Berwick. He next plundered the abbey of Coldingham, reduced Dunbar and Haddington, ravaging the country as he paffed along. His next operation was directed against Edinburgh; but being opposed by Alexander at the head of an army, he precipitately retreated. Alexander did not fail to pursue; and John, to cover his retreat, burnt the towns of Berwick and Coldingham. In this retreat the king of England himfelf fet his men an example of barbarity, by fetting fire every morning to the house in which he had lodged the preceding night. In thort, fuch defolation did John fpread all around him, that Alexander found it impoffible to continue his pursuit; for which reason he marched westward, and invaded England by the way of Carlifle. This place he took and fortified; after which he marched fouth as far as Richmond, receiving homage from all the great barons as he passed. At Richmond he was again stopped by John's ravages, and obliged to return through Westmoreland to his own dominions.

When the English barons found it necessary to put themselves under the protection of Louis, fon to the king of France, this prince, among other acts of fovereignty, furmmoned Alexander to do him homage; but the latter being then engaged in the fiege of Carlifle, which had fallen into the hands of King John, he could not immediately attend. In a short time Alexander found himself obliged to abandon his enterprise: after which he laid fiege to Barnard caftle; but being baffled here also, marched fouthwards through the whole kingdom of England, and met Louis at London or Dover, where the prince confirmed to him the rights to Northumberland, Cumberland, and Westmoreland. He continued a faithful ally to Louis and the barons in their wars with John; and, in 1216, brought a fresh army to their affishance, when their affairs were almost desverate.

As long as Louis continued in England, Alexander proved faithful to his interest; but, in 1217, he was on

of William's ge-neral, Gilchrift.

Origin of the family

fuch

Scotl ad. fuch good terms with Henry as to demand his eldeft fifter, the princels Joan, in marriage, His request was granted, and in 1221 he espouled that princels. As long as the queen of Scotland lived, a perfect harmony Subsitted between the Scots and English : but in 1230 Queen Joan died without children; and Alexander foon after married Mary, the daughter of Egelrand de Coucy, a young and beautiful French lady, by whom, in 1241. he had a fon named Alexander. From this time a coolness took place between the two courts, and many differences arofe; but no hostilities commenced on either fide during the lifetime of Alexander, who died in 1240 in the 25th year of his reign.

Alexander III.

Immediately on the death of his father, Alexander III. took possession of the throne. He is the first of the An. 1240. Scots kings of whole coronation we have any particular account. We are told, that the ceremony was performed by the bishop of St Andrew's, who girded the king with a military belt, probably as an emblem of his temporal jurildiction. He then explained in Latin, and afterwards in Gaelic, the laws and oaths relating to the king; who received them all with great appearance of joy, as he also did the benediction and ceremony of coronation from the same prelate. After the ceremony was performed, a Highlander, probably one of those who went under the denomination of Sannachies, repeated on his knees before the throne, in his own language, the genealogy of Alexander and his ancestors, up to the first king of Scotland.

In 1250, the king, though no more than ten years marries the daughter of of age, was married to the daughter of Henry, who Henry III. now thought it a proper opportunity to oblige him to of England do homage for the whole kingdom of Scotland. But Alexander, notwithstanding his youth, replied with great fense and modesty, that his bufiners in England was matrimony; that he had come thither under Henry's protection and invitation; and that he was not prepared to

answer fuch a difficult question.

Henry feems to have been encouraged to this attempt by the diffracted flate of the Scots affairs at that time; for, during the minority of the king, the nobility threw all into confusion by their mutual diffensions. The family of Cammin were now become exceedingly powerful; and Alexander II, is blamed by Buchanan for allowing them to obtain such an exorbitant degree of power, by which they were enabled almost to shake the foundation of government. Notwithstanding the king's refusal to submit to the homage required of him, they imagined that Henry's influence was now too great; and fearing had confequences to themselves, they withdrew from Yak, leaving Henry in full possession of his fon-in-law's perfon. Henry, however, to thow that he deferved all the confidence which could be reposed in him, publicly declared, that he dropped all claim of fupeliority over the crown of Scotland, and that he would ever afterwards act as the father and guardian of his fonin-law; confirming his affer now by a charter. Yet when Alexander returned to 5 "land, he found there had been a firong party mad a ainft his English connections. They not exclaimed that or itland was no better than a movime of I. gland; and 'aring gained almost all the nowlley over to this file, they ke the king and quier as two fite-pri her in the cruie of ceedings and his que is privately fent a physician whom

the could truft, to inquire into her daughter's for and 3 Having found means of being admitted into the young queen's prefence, the gave him a mon lames it a count of her fituation. She faid, that the place of their confinement was very unwholelome, in contequen e or which their health was in imminent danger; and that they had no concern in the affairs of government. Histtorians do not inform up by what means they were reduced to this airmal fituation; only in general, that the Cummins usurped the whole power of the flate. Henry scarcely knew how to act. If he proceeded at once to violent measures, he was afraid of the lives of his daughter and fon-in-law; and, on the other hand, by a more cautious conduct, he left them exposed to the wicked attempts of those who kept them in thraldom, some of whom, he well knew, had defigns on the crown itself. By advice of the Scots royalifts, among whom were the They are t earls of Dunbar, Fife, Stratherne, Carrick, and Robert at liberty de Bruce, Henry affembled his military tenants at York, by Henry whence he himself advanced to Newcastle, where he published a manifesto, disclaiming all defigns against the peace or independence of Scotland; declaring, that the forces which had been collected at York were defigned to maintain both; and that all he intended was to have an interview with the king and queen upon the borders. From Newcaitle he proceeded to Wark, where he privately dispatched the earl of Glocester, with his favourite John Manfel, and a train of trufty followers. to gain admission into the castle of Edinburgh, then held by John Baliol and Robert de Ross, noblemen of great influence both in England and Scotland. The earl and Manfel gained admittance into the caftle in difguife, on pretence of their being tenants to Baliol and Rofs; and their followers obtained accels on the same account, without any fulpicion, till they were fufficiently numerous to have maftered the garrison, had they met with any refiftance. The queen immediately informed them of the thraldom and tyranny in which she had been kept. The English, being matters of the castle, ordered a bed to be prepared that very night for the king and queen; and Henry, hearing of the fuccels of his party, fent a fafe conduct for the royal pair to meet him at Alnwick. Robert de Ross was summoned by Henry to antiwer for his conduct; but throwing himfelf on the king's mercy, he was punished only by the fequestration of his estate, as was John Baliol by a heavy fine, which the king of England referved entirely for

Alexander and his queen were attended to Alnwick by the heads of their party; and when they arrived, it was agreed that Henry thould act as his fon-in-law's guardian; in confequence of which, feveral regulations were made in order to fugure's the exorbitant power of the Commiss. That ambition family, however, were all this time privately firengthening their party in Scotments which had been made. This rendered Alexan. by te t'. der secure; fo that, being off his guard, he was fur-bottelewere joined in his tr afon by Sir Hugh de Abernethy, Sir David Lucher, and Sir Hugh de Barclay; and, in

his own use.

S that bullop of Dankeld; the effates of the rovalists were plundered; and even the churches were not spared. The king at last was delivered by the death of the earl of Menteith.

"I mander being thus reflored to the exercise of regal athority, acted with great wisdom and moderation. He pardoned the Cummins and their adherents, upon incir fubmitting to his authority; after which, he applied himfelf to the regulation of his other affairs: but a ftorm was now ready to break upon him from another gearter. We have already feen, that the usurper Donaid Bane, brother to Malcom Canmore, had engaged to deliver up the ifles of Orkney and Shetland to the king of Norway, for affifting him in making good his pretentions to the crown of Scotland. Haco, the king of Norway at this time, alleged, that their engagements extended to the delivering up the islands of Bute, Arran, and others in the fith of Clyde, as belonging to the Ebudæ or Western isles; and as Alexander did not think proper to comply with these demands, the Norwegian monarch appeared with a fleet of 160 fail, having on board 20,000 troops, who landed and took the castle of Ayr. Alexander immediately dispatched ambaffadors to enter into a treaty with Haco; but the latter, flushed with fucces, would listen to no terms. He made himself master of the isles of Bute and Arran; after which he paffed over to Cunningham. Alexander prepared to oppose him, divided his army into three bodies. The first was commanded by Alexander high Reward of Scotland (the great grandfather of Robert II.), and confifted of the Argyle, Athol, Lenox, and Galloway men. The fecond was composed of the inhabitants of Lothian, Fife, Merfe, Berwick, and Stirling, under the command of Patrick earl of Dunbar. The king himfelf led the centre, which confifted of the inhabitants of Perth-shire, Angus, Mearns, and the northern counties .- Haco, who was an excellent general, disposed his men in order of battle, and the engagement began at Largs in Ayrshire. Both parties fought with great refolution; but at last the Norwegians were defeated with dreadful flaughter, not fewer than 16,000 of them being killed on the fpot. The remainder escaped to their thips; which were fo compl tely wrecked the day after, that Haco could feateely find a veilel to carry him with a few friends to Orkney, where he foon

In consequence of this victory, the king of the island of Man fubmitted to Alexander; and his example was followed by feveral other princes of the illands belonging to the Norwegians. Hico's fon, a wire and learned prince, foon after arrived in Scotland with fresh reinforcements, and proposed a treaty: but Alexander, inflead of liftening to an accommodation, fent the earls of Buchan and Murray, with Allen the chamberlain, and a confiderable body of men, to the Western islands, where they put to the fword fome of the inhabitants, and hanged their chiefs for having encouraged the Norwegion invafio . In the mean time, Magnus retuined to N rway; where a treaty was at last concluded between him and Alexander. By this Magnus renounced all right to the contefled iffinds; Alexander at the fame time confenting to pay him 1000 merks of filver in two years, and 100 yearly ever after, as an equiva-lent for these islands. To cement the friendship more firmly, a marriage was concluded between Margaret the daughter of Alexander, and Eric the fon and their Southid. of Magnus, who was also a child; and, some years after, when the parties were of proper age, the marriage was confummated.

In 1264, Alexander fent a confiderable body of Scot- Alexander tith forces under the command of John Cummin, John Bitts the Baliol, and Robert Bruce, to affire the king of Eng-king of taken prisoners in the battle of Lewis, where Henry was defeated, but regained their liberty in the following year at the decifive battle of Evefham, by which the English civil war was fuccessfully terminated on the

part of Henry by the young Prince Edward. From this time to the accession of Edward I, of England, we find nothing remarkable in the history of Scotland. That prince, however, proved a more cruel enemy to this country than it had ever experienced. Alexander was prefent at the coronation of Edward, who was then newly arrived from the Holy Land, where he had been on a crusade. Soon after this Alexander paid him homage for his English effates; particularly for the lands and lordship of Penrith and others, which Henry had given him along with his daughter. He proved an excellent ally to Edward in his wars against the French; and the latter passed a charter, by which he acknowledged that the fervices of the king of Scotland in those wars were not in consequence of his holding lands in England, but as an ally to his crown. Even at this time, however, Edward had formed a defign on the liberties of that kingdom; for in the charter just mentioned, he inferted a felvo, acknowledging the fu- Defigre of periority, by which he referved his right to the homage Edward I. of the kingdom of Scotland, when it should be claimed against the by him or his heirs. The bishop of Norwich suggested liberties of this falvo: and this was the reason why Alexander Scotland.

would not perform the homege in perfon, but left it to be performed by Robert Bruce earl of Carrick; Alexander flanding by, and expressly declaring, that it was only paid for the lands he held in England .- No acts of hostility, however, took place during the lifetime of Alexander, who was killed on the 16th of March 1285, in the 45th year of his age, by his horfe rufting down the black rock near Kingborn as he was

Both before and after the death of Alexander, the An. 1255 great fubjects of Scotland feemed to have been fensible 110 of Edward's ambitious defigns. On the marriage of Accession of Margaret with Eric prince of Netway, the states of Margaret. Scotland possed an act obliging themselves to receive

her and her heirs as queen and fovereigns of Scotland. Edward at that time was in no condition to oppose this measure, in which the Scots were unanimous; and therefore contented himfelf with forming factions among the leading men of the country. Under pretence of refuming the crofs, he renewed his intrigues at the court of Rome, and demanded leave from the pope to collect the tenths in Scotland; but his holiness replied, that he could make no fuch grant without the confent of the government of Scotland. On the death of Margaret queen of Norway, her daughter, in confequence of the act above mentioned, was recognized by the flates as queen of Scotland. As the was then but two years old, they came to a refolution of excluding from all share in the government, not only Edward I. but their queen's father; and they accordingly effablished a regency from

Defeats the

Treaty of

marriage

the young

and the

prince of

Wales.

Scotla d. among their own number, confilling of the fix following noblemen; viz. Robert Withart billiop of Glafgow, Sir James Cummin of Radenceh, fenior, James lord high fleward of Scotland, who were to have the fuperintendeucy of all that part of Scotland which lay to the fouth of the Forth; William Frafer bishop of St Andrews, Duncan M'Duff earl of Fife, and Alexander Cummin earl of Buchan, who were to have the direction of all affairs to the north of the fame river .- With thele arrangements Eric was exceedingly difpleafed, confidering himself as the only rightful guardian of his own child. He therefore cultivated a good understanding with Edward, from whom he had received confiderable pecuniary favours; and perceiving that the states of Scotland were unanimous in excluding all foreigners from the management of their affairs, he embraced the views of the king of England, and named committioners to treat with those of Edward upon the Scots affairs. These negociations terminated in a treaty of marriage between the queen of Scotland and Edward prince of Wales, young as they both were. This alarmed the states of Scotland, who resolved not to suffer their queen to be disposed of without their confent. It was therefore agreed by the commissioners on both sides, to acquaint them with the refult of their conferences, and to demand that a deputation Sould be fent to London for fettling the regency of Scotland, or, in other words, for putting the fovereign power into the hands of the two kings. As the two parties, however, were within the prohibited degrees of confanguinity, being first confins, a difpensation was applied for to Pope Boniface, who granted it on condition that the peers of Scotland con-

fented to the match.

Though the Scots nobility were very inimical to this match, they could not refuse their confent to it when proposed by the father and grand-uncle of their young queen. They therefore appointed the bishops of St Andrew's and Gl. fgow, with Robert Bruce lord of Annandale, and John Cummin, to attend as their deputies, but with a charge to preferve all the liberties and honours of the realm of Scotland; to which Edward agreed. These deputies met at Salisbury with those of England and Norway; and it was at last agreed, 1. That the young queen thould be fent from Norway (free of all marriage-engagements) into England or Scotland. 2. That if the queen came to England, the thould be at liberty to repair to Scotland as foon as the distractions of that kingdom fhould be fettled : that she should, on her arrival in her town dominions, he free of all matrimonial contracts; but that the Scots should engage not to difpofe of her in marriage without her father or Edward's confent. 3. The Scots deputies promifed to give fuch fecurity as the Norwegian commissioners might require, that the tranquillity of the nation should be fettled before her arrival. 4. That the commissioners of Scotland and Norway, joined with commissioners from England, should remove such regents and officers of state in Scotland, as might be susperted of dilaffection, and place others in their flead. If the Scots and Norwegian commissioners should disagree on that or any other head relating to the government of Scotland, the decifion was to be left to the arbitration of English commissioners.

The party of Edward was now fo flrong in Scotland, that no opposition was made to the late agreement, in a

parliament held at Brechin to deliberate upon the fettle- Scotlandment of the kingdom. It is uncertain whether he communicated in form to the Scottish parliament the pope's dispensation for the marriage; but most probably he did not; as, in a letter written to him by the flates of Scotland, they mention this as a matter they heard by report. On the whole, however, they highly approved of the marriage, upon certain conditions to which Edward was previously to agree; but the latter, without waiting to perform any conditions, immediately fent for the young queen from Norway. This exceedingly difpleafed Eric, who was by no means inclined to put his daughter into the hands of a prince whole fincerity he fulpected, and therefore delayed the departure of the Young queen till he flould hear far;her from Scotland. Edward, alarmed at this, had again recourse to negociation; and ten articles were at last drawn up, in which the Scots took all imaginable precautions for the fafety and independence of their country. These articles were ratified by Edward on the 28th of August 1289; yet, Ao, 1289. even after the marriage was fully fettled, he loft no time in procuring as firong a party as possible. At the head of these were the archbithop of St Andrew's and John Baliol. That prelate, while he was in England, was highly carefled by Edward, from whom he had great expectations of preferment; and Baliol, having great effates in England, confidered Edward as his favereign. The bithop, on his return to Scotland, acted as a !py for Edward, and carried on with him a fecret correspondence, informing him of all public transactions. It appears from this correspondence, that the Scot were far from being unanimous as to the marriage. Bruce earl of Annandale suspected, for some reason or other, that the young queen was dead; and, foon after Michaelmas 1290, affembled a hody of forces, and was joined by the earls of Mar and Athol. Intelligence of the archbithop of St Andrew's advifed Edward, if the report of the queen's death thould prove true, to march

fuch a fuccessor as he might think proper. Edward, in the mean time, confented to allow amballidors to be fent from Scotland to bring over the young queen, previous to which, he appointed the bithop of Durham to be lieutenant in Scotland for the queen and her future husband; and all the officers there, both civil and military, obliged themselves to farender their employments and fortreffes to the king and queen (that is, to Edward) immediately on their arrival in Scotland. But while the most magnificent preparations were making for the reception of the queen, intelligence of her death was received; but it is not cer winly known Death of whether this event happened before the arrival of the the queen ambassadors in Norway, or after her departure from that An. 1292.

a body of troops towards Scotland, in order to secure

country, probably the latter.

The Scots were thrown into the atmost consternation by the news of the queen's death; while, on the other hand. Edward was as well prepared as if he had known what was to happen. The state of Scotland at this time, indeed, was to the last degree deplorable, A number The act of fuccession, established by the late king, had of connectino further operation, being determined by the death of tors for the the queen; and fince the crown was hereditary, there crown. was no precedent by which it could be fettled. The Scots, in general, however, turned their eyes on

William, both of whom died without lawful iffue. The earl had three daughters. Margaret, the eldeft, was married to Allan lord of Galloway; the only iffue of which marriage was Derverguill wife to John Baliol, who had a fon of the fame name, a competitor for the

the two kings Malcolm the Maiden and his fucceffor

crown. The fecond daughter, Isabella, was married to Robert Bruce; and their fon Robert was likewise a candidate. The third daughter, Ada, had been married to Henry Hastings, an English nobleman, and pre-decessor to the present earl of Huntingdon. John Hastings, the son of this marriage, was a third competitor; but as his claim was confessedly the worst of the

three, he put in only for a third of the kingdom, on the principle that his mother was joint-heir with her two fillers (c). Several other claimants now started up. Florence earl of Holland pretended to the crown of Scotland in right of his great grandmother Ada, the eldest lawful fister of William, formerly king; as did Robert de Pynkeny, in the right of his great-grandmother Margery, fecond fifter of the same King William. Pa-

trick Gallightly was the fon of Henry Gallightly, a baltard of William; William de Ross was decended of Isabel; Patrick earl of March, of Ilda or Ada; and William de Vesci, of Margery; all three natural daughters of King William. Roger de Mandeville, descended from Aufrie, another natural daughter of William, also put in his claim; but the right of Nicolas de Soulis, if baitardy could give a right, was bet-

ter than those of the former. His grandmother Margery, the wife of Allan le Huissier, was a natural daughter of Alexander II. and confequently fifter to Alexander III. John Cummin lord of Badenoch derived his claim from a more remote fource, viz. Donald Bane,

who usurped the crown about 200 years before this time; but he was willing to refign his pretentions in fayour of John Baliol. The last indeed had the best right; and, had the fuccession been regulated as it is in all hereditary kingdoms at this day, he would undoubtedly have fucceeded. Bruce and Hastings, however, pleaded that they were preferable, not only to John Baliol the grandchild of Margaret, but also to Derver-

guill her daughter and his mother, for the following Scotland re..fon. Derverguill and they were equally related to their grandfather Earl D.vid: She was indeed the daughter of his eldeit daughter; but the was a woman, they were men; and, faid they, the male in the fame degree ought to fucceed to fovereigntics, in their own nature impartible, preferable to the temale.

Notwiththanding this number of candidates, how-

ever, it was foon perceived, that the claim of all might be cut off excepting those of two, viz. Baliot and Bruce, of whom the former had the preference with respect to hereditary right, and the latter as to popularity. Baliol had strongly attached himself to Edward's party; and this being by far the most powerful in Scotland, gave him a decided fuperiority over Bruce. The event was, that Edward was appointed to decide between the two competitors. It foon appeared, however, that Edward had no intention of adjudging the crown to any person but himself; for, in an affembly held at Norham on the 10th of May 1291, Brabas zon the chief justice of England informed the members, " That his mafter was come thither in confideration of the state of the realm of Scotland, which was then without a king, to meet them, as direct fovereign of that kingdom, to do justice Edward deto the claimants of his crown, and to establish a folid late foretranquillity among his people; that it was not his inten-reign of tion to retard justice, nor to usurp the right of any one, Scotland. or to infringe the liberties of the kingdom of Scotland, but to render to every one his due. And to the end this might be done with the more eafe, he required the affent of the states ex abundante, and that they should own him as direct fovereign of the kingdom; offering, on that condition, to make use of their counsels to do what justice demanded." The deputies were assonished at this declaration, and replied, that they were by no means prepared to decide on Edward's claim of superiority; but that Edward ought previously to judge the cause between the two competitors, and require homage from him whom he should choose to be king. Edward treated this excuse as trifling, and gave them till next day to confider of his demand. Accordingly, on that day, the affembly was held in Norham church, where the deputies from Scotland infifted upon giving no an-

(c) The pedigree of the three principal competitors will be fully understood from the following scheme.



s- timi. firer to Edwards demands, which could be decided enly by the warle community; representing, at the fame time, that numbers of the noblemen and prelates were ablent, and that they must have time to know their fense of the affair. In consequence of this, Edward gave them a delay of three weeks; which interval be employed in multiplying claimants to the crown of Scotland, and in flattering all with hopes, if they would acknowledge his fuperiority. But when the affembly met, according to appointment, on the 2d of June following, they found the place of meeting furrounded by a numerous army of English, Edward had employed the bithon of Durham to draw up the historical evidence of his right to the crown of Scotland; which has fince been published. In this paper mention is made of the fealty and homage performed by the kings of Scotland to the Anglo-Saxon kings of England; but no fufficient evidence is brought of any fuch homage being actually performed. As to the homage paid by the kings of Scotland from the time of William the Conqueror to that of the dispute between Bruce and Baliol, the Scots never denied it; but they contended, and indeed with justice, that it was paid for the lands which they held from the crown of England; and they alleged, that it was as far removed from any relation to a fealty or homage performed for the crown of Scotland, as the homage paid by the English monarchs to the crown of France was removed from all relation to the crown of England. With regard to the homage paid by William king of Scotland to Henry II. of England, it was not denied that he performed it for the whole kingdom of Scotland: but they pleaded, that it was void of itself, because it was extorted when William was a prisoner to Henry; and they produced Richard I.'s charters, which pronounced it to have been compulfive and iniquitous.

But, however urgent these reasons of the Scots might be, Edward was by no means disposed to examine into their merits. Instead of this, he closeted the several pretenders to the crown; and having found them all ready to comply with his measures, he drew up the following charter of recognition to be figned by them all.

" To all who shall hear this present letter.

" We Florence earl of Holland, Robert de Bruce lord of Annandale, John Baliol lord of Galloway, John Hastings lord of Abergavenny, John Cummin lord of Badenoch, Patrick de Dunbar earl of March, John Vesci for his father Nicholas Soulis, and William de

Rofs, greeting in the Lord : " Whereas we intend to purfue our right to the kingdom of Scotland; and to declare, challenge, and aver the fame before him that hath most power, jurisdiction, and reason to try it; and the noble prince Edward, by the grace of God king of England, &c. having informed us, by good and fufficient reasons, that to him belongs the fovereign feigniory of the fame: We therefore promife, that we will hold firm and dable his act; and that he shall ellipsy the realm to whom it shall be adjudeed before him. In witness whereof, we by set or fe? to this writing, made and granted at Norham, the l'ne day feer the A cention, in the year of G wee 1201."

E and on delared, by the mouth of his chancell r, that although, in the dispute which had arisen between the feveral claimants, touching the fuce flion Stotlar to the kingdom of Scotland, he acted in quality of tovereign, in order to render justice to whomstoever it was due; yet he did not thereby mean to exclude himfelt from the heredit to right which in his own person he might have to that crown, and which right he intended to affert and improve when he should think proper: and the king himfelf repeated this protellation in French. 'The candidates were then feverally called upon by the English chancellor, to declare whether they were willing to acknowledge Edward' claim or fuperiority over the crown of Scotland, and to submit to his award in disposing of the same; which being anfwered in the affirmative, they were then admitted to prove their rights. But this was mere matter of form; for all the force of England was then affembled on the borders in order to support the claims of Edward, and nothing now remained but to furnith him with a fufficient pretext for making use of it. He observed, that the Scots were not fo unanimous as they ought to be in recognifing his fuperiority, and that the fubmiffion, 116 which had been figned by the candidates, was not fufficient to carry it into execution. For this reason he de-fession of all manded that all the forts in Scotland should be put into the fortified his possession, that he might resign them to the success-places in

ful candidate. Though nothing could be more flameful than a tame compliance with this last demand, the regency of Scotland without hefitation yielded also to it; for which they gave the following reasons. " That whereas they which a (the states of Scotland), had, with one affent, already agreed to granted that King Edward, as superior lord of Scot-states. land, should give sentence as to their several rights and titles to the crown of Scotland, &c. but as the faid king of England cannot put his judgement in full execution to answer effectually without the possession or seisin of the faid country and its castles; we will, grant, and affent, that he, as fovereign lord thereof, to perform the things aforefaid, shall have scifin of all the lands and eastles in Scotland, until right be done to the demandants, and to the guardians and community of the kingdom of Scotland, to restore both it and its castles, with all the royalties, dignities, franchifes, cuttoms, rights laws, ufages, and possessions, with their appurtenances, in the fame flate and condition in which they were when he received them; faving to the king of England the homage of him that shall be king; fo as they may be reflored within two months after the day on which he rights shall be determined and affirmed; and that the profits of the nation which shall be received in the aren time thall be kept in the hands of the chamberl in of Scotland that now is, and one to be joined with him by the king of England; fo that the charge of the go ernment, castles, and officers of the realm, may be deducted.

In witness whereof, &c." For these reasons, as it is said, the regency put into the hands of Edward all the forts in the country. Gilbert de Umfreville alone, v ho had the command of the castles of Dundee and Forsar, refused to deliver them up, until he thould be inden nitted by the flates, and by Edward hir felf, from all penalties of treaton of which e

the wale power of the nation, he did not this. to determine every thing by his own at torit. I de

The candidates fign an affent An. 1291.

Scotland, of this, he appointed commissioners, and promised to

An. 1202.

grant letters-patent declaring that fentence should be paffed in Scotland. It had been all along forefeen that the great dispute would be between Bruce and Baliol; tioners appointed to and though the plea of Cummin was judged frivolous, determine yet he was a man of too much influence to be neglectthe preten- ed, and he agreed tacitly to relign it in favour of Eafishs of the liol. Edward accordingly made him the compliment candidates of joining him with Baliol in nominating 40 commiffioners. Bruce was to name 40 more; and the names of the 80 were to be given in to Edward in three days; after which the king was to add to them 24 of his own choosing. The place and time of meeting were left at their own option. They unanimously pitched upon Berwick for the place of meeting; but as they could not agree about the time, Edward appointed the fecond of August following. Soon after this, the regents refigned their committions to Edward; but he returned them, with powers to act in his name; and he nominated the billion of Caithness to be chancellor of Scotland; joining in the commission with him Walter de Hemondesham an Englishman, and one of his own secretaries. Still, however, he met with great difficulties. Many of his own great men, particularly the earl of Gloucester, were by no means fond of increasing the power of the English monarch by the acquisition of Scotland; and therefore threw fuch obstacles in his way, that he was again obliged to have recourse to negotiation and intrigue, and at last to delay the meeting until the fecond of June in 1202; but during this interval, that he might the better reconcile the Scots to the lofs of their liberty, he proposed an union of the two kingdoms; and for this he iffued a writ by virtue of his inperio-

The commissioners having met on the second of June 1292, ambaffadors for Norway prefented themfelves in the affembly, demanding that their mafter should be admitted into the number of the claimants, as father and next heir to the late queen. This demand too was admitted by Edward, after the ambaffidors had acknowledged his superiority over Scotland; after which he proposed that the claims of Bruce and Baliol should be previously examined, but without prejudice to those of the other competitors. This being agreed to, he ordered the commissioners to examine by what laws they ought to proceed in forming their report. discussion of this question was attended with such disficulty, and the opinions on it were to various, that Edward once more adjourned the affembly to the 12th of October following; at which time he required the members to give their opinions on the two following points: 1. By what laws and customs they ought to proceed to judgement; and, supposing there could be no law or precedent found in the two kingdoms, in what manner? 2. Whether the kingdom of Scotland ought to be taken in the same view as all other fiels, and to be awarded in the fame manner as earldons and barouies? The commissioners replied, that Edward ought to give justice conformable to the usage of the two kingdoms: but that if no certain laws or precedents could be found, he might, by the advice of his great men, enact a new law. In answer to the second question they faid, that the fuccession to the kingdom might be awarded in the fame manner as that to other effates and great baronics. Upon this. Edward ordered Bruce

urged their respective pleas, and answers, to the following purpole. Bruce pleaded, I. That Alexander II. despairing of

heirs of his own body, had declared that he held him to Pleas of be the true heir, and offered to prove by the testimony Bruce and of perfons still alive, that he declared this with the ad-Batiol. vice and in the prefence of the good men of his kingdom. Alexander III. also had declared to those with whom he was intimate, that, failing iffue of his own body, Bruce was his right heir. The people of Scotland also had taken an oath for maintaining the succesfion of the nearest in blood to Alexander III. who ought of right to inherit, failing Margaret the Maiden of Norway and her iffice .- Baliol answered, that nothing could be concluded from the acknowledgement of Alexander II, for that he left heirs of his budy; but made no answer to what was faid of the sentiments of Alexander III, and of the oath made by the Scottilh nation to maintain the fuccession of the next of blood.

2. Bruce pleaded, that the right of reigning ought to be decided according to the natural law, by which kings reign; and not according to any law or usage in force between subject and subject: That by the law of nature, the nearest collateral in blood has a right to the crown; but that the constitutions which prevail among vaffals, bind not the lord, much lefs the fovereign: That although in private inheritances, which are divisible, the eldest female heir has a certain prerogative, it is not fo in a kingdom that is indivisible ; there the nearest heir of blood is preferable whenever the fuccession opens .- To this Baliol replied, that the claimants were in the court of their lord paramount; and that he ought to give judgement in this case, as in the case of any other tenements, depending on his crown, that is, by the common law and utage of his kingdom, and no other. That by the laws and ufages of England, the eldest female heir is preferred in the fuccession to all inheritances, indivisible as well as divi-

3. It was urged by Bruce, that the manner of fuccession to the kingdom of Scotland in former times, was in favour of his claim; for that the brother, as being nearest in degree, was wont to be preserved to the son of the deceased king. Thus, when Kenneth Macalpin died, his brother Donald was preferred to his fon Constantine, and this was confirmed by several other authentic inflances in the hiftory of Scotland .- Baliul answered, that if the brother was preferred to the son of the king, the example militated against Bruce; for that the fon, not the brother, was the nearest in riegree. He admitted, that after the death of Malcolm III. his brother usurped the throne; but he contended, that the fon of Malcolm complained to his liege lord the king of England, who dispossessed the usurper, and placed the fon of Malcolm on the throne; that after the death of that fon the brother of Malcolm III. again usurped the throne; but the king of England again dispossessed him, and railed Edgar, the fecond fon of Malcolm, to the fovereignty.

4. Bruce pleaded, that there are examples in other countries, particularly in Spain and Savoy, where the Ion of the second daughter excluded the grandson of the eldest daughter. Bahol answered, that examples from foreign countries are of no importance; for that

according

Section's according to the laws of England and Scotland, where kings reign by fuccession in the direct line, and earls and barons succeed in like manner, the issue of the younger fifter, although nearer in degree, excludes not the iffue of the eldelt fifter, although more remote; but the foc-

steffion continues in the direct line,

5. Bruce pleaded, that a female ought not to reign, as being incapable of governing: That at the death of Alexander III, the mother of Baliol was alive; and as the could not reign, the kingdom devolved upon him, as being the nearest male heir of the blood royal. But to this Baliol replied, that B:uce's argument was inconfident with his claim: for that if a femule ought not to reign, Ifabella the mother of Bruce ought not, nor must Bruce himself claim through her. Besides, Bruce himfelf had fworn fealty to a female, the maiden of Norwey.

The arguments being thus flated on both fides, Edgiven in fa-ward demanded an answer from the council as to the voor of Ba- merits of the competitors. He also put the following question to them: By the laws and usages of both kingdoms, does the iffue of the e dett fifter, though more or in one degree, issuing from the ficoi d fifter, to exclude the more remote in one degree iffling from the eldeft fifter? To this it was answered unanimously, That by the laws and plages of both kingdoms, in every heritable faccession, the more remote in one deferable to the nearer in degree iffuing from the fecond fifter. In confequence of this, Bruce was excluded from the for officer; on which he entered a claim for fo, the kingdom of Scotland being determined an indiof Scotland; with this caveat, however, " That this judgement 4 ould not impair his claim to the property

> After fo many differential and humiliating concefed King at Some on the 30th November 1202; and f unlied the cerem my by doing homage to the king of fatisfy Edwa d, as long as the lead thad well inde ondence remained to Scotland. A citiz n of Berwick But this was one fed by Bailol, who plended a promife roade by the English monarch, that he should " coferve the laws and utiges of Scotland, and not withdrew any causes from Scotland into his English courts." Edward reglied, that it belonged to him to hear the comp' in s m de against his own ministers; and concluded with afferting his right, not only to try Scots causes in England, but to femmon the king of Scotland, if necessary, to appear before him in person. Balio! had not fririt to re.lit; and therefore figned a most differ ce'al instrument, by which he declared, that all the obilitations whi h Edward had come under were already fulfilled, and therefore that he discharged them

Edward now thought proper to give Baliol some me as of his favour, the most remarkable of which was giving him feifin of the Ise of Man; but it foon appeared that he intended to exercise his rights of supe- Scotland. riority in the most provoking manner. The first inflorer was in the cufe of Malcolm earl of Fife. This nubleman had two fors, Colban his heir, and another who is confiantly mentioned in history by the familyname of Mucduft .- It is faid, that Malcolm put Macduff in Michigan of the lands of Heres and Crev. Malce'ri .ed in 1266; Caban his fon, in 1270; Duncan the fon of Colban, in 1288. To this last carl, his ion Dunia, an inlant, fucceeded. During the nonage of this Dancon, grand-nephew of Macduff, William archbishop of St Andrew's, guardian of the earldom, dispossessed Macduli. He complained to Edward; who having ordered his cause to be tried, restored him again held his first parliament at Scone, 15th February 1243. There Maedad was cited to answer for having taken p. Teffin of the lands of Reres and Crey, which were in posse. Jion of the king since the death of the last earl of Fife. As his defences did not fatisfy the court, he was condemned to imprisonment; but an action was referved to him against Duncan, when he should come of age, and against his heirs. In all this defence, it is furprifing that Macduff should have omitted his strongthority, had put him in possession, and that Baliol had ratified all things under Edward's authority. However, as foon as he was fet at liberty, he petitioned Baliol for a rehearing; but this being refuled, he appealed to Edward, who ordered Baliol to appear before him in person on the 25th of March 1293; but as Ballol did He fine not obey this order, he fummoned him again to ap-mers Epear on the 14th of October. In the mean time the English parliament drew up certain fland ag orders infore him, cales of appeal from the king of Scots; all of which An. 129 were harsh and captious. One of these regulations provided, "that no excuse of absence should be received either from the appellant, or the king of Scotland respandent; but that the parties might have counsel if they required it."

0 0

Though Baliol had not the courage to withfland the who befeccud furmons of Edward, he behaved with confider have with ab't resolution at the trial. The cause of Macdust be resolution ing trough, on, Edward asked Baliol what he had to offer in his own defence; to which he replied, " I am King of Scotland. To the complaint of Macduff, or to ought elfe respecting my kingdom, I dare not make antirer without the advice of my people."-Edward affected furprife at this refusal, after the submissions which Baliol had already made him; but the latter fleadily replied, " In matters respecting my kingd m, I neither dare not can answer in this place, without the advice of my people." Edward then defired him to ask a farther adjournment, that he might advise with the nation. But Baliol, perceiving that his doing fo would imply an acquiefcence in Edward's right of requiring his personal attendance on the Englith courts, replied, "That he would neither ask a longer day, nor confent to an adjournment."-It was then refelred by the par-Habitus liament of England, that the king of Scotland had of-tener. fered no defence; that he had made evalive and difrefp. stiul answers; and that he was guilty of manifest cont mpt of the court, and of open disobedience. To

recompence Macduff for his imprisonment, he was ordered damages from the king of Scots, to be taxed by

Haughty

who is

Scone,

whether Mandaff recovered the tenements in queffion by the fad rement of the king's court, and whether he was a shelfed by the king of Scots. It was also resolved, that the three principal calles of Scotland, with the towns in which they were fituated, and the royal jurifliction over them, should be taken into the custody of the king, and there remain until the king of Scots should make fatisfaction for his contempt and disobedience. But, before this judgement was publicly intimated, Baliol addreffed Edward in the following words: " My lord, I am your liege-man for the kingdom of Scotland; that, whereof you have lately treated, re-fpects my people no lefs than mylelf: I therefore pray you to delay it until I have confulted my people, left I be furprifed through want of advice: They who are now with me, neither will nor dare advise me in absence of the rest of my kingdom. After I have advised with them, I will in your first parliament after Easter report

the result, and do to you what I ought."

In confequence of this address, Edward, with confent

of Macduff, stopped all proceedings till the day after the feast of Trinity 1294. But before this term Edward was obliged to suspend all proceedings against the Scots, in confequence of a war which broke out with France. In a parliament held this year by Edward, the king of Scotland appeared, and confented to furrender the whole revenues of his English estates for three years to affift Edward against his enemy. He was also requifted and ordered by Edward to extend an embargo laid upon the English vessels all over Scotland; and this embargo to endure until the king of England's further pleasure should be known. He also requested Baliol to fend fome troops for an expedition into Gascony, and required the presence and aid of several of the Scottish basons for the same purpose. The Scots, however, eluded the commands of Edward, by pretending that they could not bring any confiderable force into the field; and, unable to bear his tyranny any longer, they negociated an alliance with Philip king of France. Having affembled a parliament at Scone, they prevailed upon Baliol to difmis all the Englishmen whom he maintained at his court. They then appointed a conmittee of welve, four billiops, four earls, and four barons, by whose advice every thing was to be regulated; and, if we may credit the Englith hiltorians, they watched the conduct of Baliol himself, and detained him in a kind of honourable captivity. They could not, however, prevent him from delivering up the castles of Berwick, Rexburgh, and Jedburgh, to the bishop of Carlisle; in whole canody they were to remain during the war between England and France, as a pledge of his allegiance. Notwithstanding this, Baliol concluded the alliance with Philip; by which it was flipulated, that the latter should give in marriage the eldelt daughter of the count of Anjou to Believ's fon; and it was also provided, that Ballet should not marry again without the confent of Philip. The king of Scotland engaged to affist Philip in his wars at his own expence, and with his whole power, effect 'lv if Edward inveded France; and Philip on his part engaged to affirt Scotland, in case of an English invasion, either by making a diversion, or by

Filed with the h per of allitance from France, the

S. C. O. Scots is vade? Cumberland with a might; a up and Stotlands l id fiege to Calling. The men abandoned the place; but the women mounted the walls, and drove the affallants from the attack. Another incursion into North invade amberland proved almost as disgraceful. Their whole England exploits consisted in burning a numery at Lumley, and without a monaftery at Corebridge, though dedicated to their increase. patron St Andrew; but having attempted to fform the caltle of Harbottle, they were repulfed with lois. In the mean time Edward, with an army equal in number to that of the Scots, but much superior in respect of discipline, invaded the eastern coast of Scotland. Berwick had either not been delivered according to promife, or had been refumed by the Scots, and was now defended by a numerous garrison. Edward affaulted it Berwick by fea and land. The thips which began the attack tak r, and were all either burnt or ditabled; but Edward having tants mafled on his army in person, took the place by storm, and facred by cruelly butchered the inhabitants, to the number of Edward. 8000, without diffinction of fex or age. In this town there was a building called the Red hall, poffeffed by certain Flemings, by the tenure of defending it at all times against the king of England. Thirty of these maintained their ground for a whole day against the English army; but at night the building being fet on fire, all of them perished in the flames The same day the castle capitulated; the garrifon, confifting of 2000 men, marched out with all the honours of war, after having fworn

In the mean time, Baliol, by the advice of his parlia-Baliol's rement, folemnly and openly renounced his allegiance to nunciation Edward, fending him the following declaration:— of his alle"To the magnificent prince, Edward, by the grace glance to
of God king of England: John by the firme grace England.

of God, king of England; John, by the same grace.

king of Scotland.

never to bear arms against England.

"Whereas you, and others of your kingdom, you not being ignorant, or having cause of ignorance, by your violent power, have notoriously and frequently done grievous and intolerable injuries, contempts, grievances, and strange damages against us, the liberties of our kingdom, and against God and justice; citing us. at your pleasure, upon every slight suggestion, out of our kingdom; unduly vexing us; feizing our caffles, lands, and possessions, in your kingdom; unjustly, and for no fault of ours, taking the goods of our subjects, as well by fea as land, and carrying them into your kingdom; killing our merchants, and others of our kingdom; carrying away our subjects and imprisoning them: For the reformation of which things, we fent our melfengers to you, which remain not only unredreffed, but there is every day an addition of worse things to them; for now you are come with a great army upon the borders, for the difinheriting us, and the inhabitants of our kingdom; and, proceeding, have inhumanly committed flaughter, burnings, and violent invafions, as well by fea as land: We not being able to fustain the faid injuries, grievances, and damages any longer, nor to remain in your fealty or homage, exterted by your violent oppreffion, reflore them to you, for ourfelf, and all the inhabitants of our kingdom, as well for the lands we hold of you in your kingdom, as for your pretended government over us."

Edward was prefented with this remunciation by the hands of the intrepid Henry abbot of Aberbrothwick; and as it was favorrable to his political views, he re-

The Scots enter into an alli me-France. An. 1204-

Dunbar.

ward.

Scotland, ceived it rather with contempt than anger, "The foolith traitor," faid he to the abbot, "fince he will not come to us, we will go to him." The abbot had been perfuaded by his enemies, of whom he had many in Scotland, to prefent this letter, in hopes that Edward would have put him to death; but he had address enough to escape without receiving any other answer.

Though this feheme of renunciation had been concerted fome time before, the declaration was not fent to Edward till after the taking of Berwick. The fate of Scotland, after it, however, was foon decided. The earl of March had fided with Edward, but the countefs betrayed his cattle of Dunbar into the hands of the Scots. Edward fent a chosen body of troops to recover The Scots the place. The whole force of Scotland opposed them defeated at on the heights above Dunbar; but leaving their advantageous post, and pouring down on their enemies in

confusion, they were dispersed and defeated,

The caftle of Dunbar furrendered at discretion; that of Roxburgh followed the same example; the castle of Edinburgh furrendered after a short siege; and Stirling was abandoned. The Scots, in the mean time, were guilty of the greatest extravagances. During the short interval between the loss of Berwick and the defeat at Dunbar, an order was made for expelling all the English ecclefiaftics who held benefices in England; all the partizans of England, and all neutrals, were declared An. 1296. traitors, and their effates confifcated. But the great fuccesses of Edward foon put an end to these impotent Baliol fub. acts of fury. Baliol was obliged to implore the mercy mits to Edof the conqueror. Divested of his royal ornaments, and bearing a white rod in his hand, he performed a most humiliating penance; confessing that by evil and falle counsel, and through his own simplicity, he had grievously offended his liege lord. He recapitulated his various transgressions, in concluding an alliance with France while at enmity with England; in contracting his fon with the niece of the French king; in renouncing his fealty; in attacking the English terri-tories, and in resisting Edward. He acknowledged the justice of the English invasion and conquest; and therefore he, of his own free confent, refigned Scotland, its people, and their homage, to his liege-lord Edward, 2d July 1296.

The king of England purfued his conquest, the S.otland. barons everywhere crowding in to fwear fealty to him,
and renounce their allegiance to France. His jourScotland ney ended at Elgin, from whence he returned fouth-fubdued. ward; and, as an evidence of his having made an abfolute conquest of Scotland, he carried off from Scone the wooden chair in which the kings were utually crowned. This chair had for its bottom the fatal flone regarded as the national palladium (D). Some of the charters belonging to the abbey were carried off, and

the feals torn from others.

On the 28th of August 1296, Edward held a parliament at Berwick, where he received the fealty of the elergy and laity of Scotland. It is faid, that while the English monarch was employed in the conquest of Scotland, he had promifed the fovereignty to Robert Bruce, lord of Annandale, in order to fecure his fidelity; but being put in mind of his promife, he answered, " Have I no other business but to conquer kingdoms for you?" Bruce filently retired, and paffed his days in obscurity. Among those who professed their allegiance at this parliament was Robert Bruce the younger, earl of Carrick. After this, Edward took the most effectual methods of securing his new conquest. He ordered the estates of the clergy to be restored; and having received the fealty of the widows of many of the Scottish barons, he put them in possession of their jointure-lands, and even made a decent provision for the wives of many of his prisoners. Yet, though in every thing he behaved with great moderation towards the Scots, he committed the government of certain districts, and of the chief castles in the fouth of Scotland, to his English subjects, of whose sidelity and vigilance he thought himself assured. In order to conciliate the affections of the clergy, he granted to the Scottish bishops, for ever, the privilege of bequeathing their effects by will, in the same manner as that privilege was enjoyed by the archbishops and bishops of England. In honour of the "glorious confessor St Cuthbert," he gave to the monks of Durham an annual pension of 40 pounds, payable out of the revenues of Scotland, by the tenure of maintaining, before the shrine of the faint, two waxtapers of 20 pounds weight each, and of distributing twice a-year one penny each to 3000 indigent perfons.

(D) "This stone is thus described by W. Hemingford, tom. i. p. 37. " Apud monasterium de Scone positus erat lapis pergrandis in ecclefia Dei, juxta magnum altare, concavus quidem ad modum rotundæ cathedræ confectus, in quo futuri reges loco quafi coronationis ponebantur ex more. Rege itaque novo in lapide posito, missarum solemnia incepta peraguntur, et præterquam in elevatione facri dominici corporis, femper lapidatus, mansit." And again, tom. i. p. 100. "In redeundo per Scone, præcepit tolli et Londoniis cariari, lapidem illum, in quo, ut supra dictum est, reges Scotorum solebant poni loco coronationis suæ, et hoc in signum regni conquesti et resignati." Walfingham mentions the use to which Edward put this stone : "Ad Westmonasterium transfulit illum, jubens inde fieri celebrantium cathedram facerdotum." This account of the fatal flone is here transcribed, that it may be compared with the appearance of the stone that now bears its name at Westminster.

Fordun has preserved the ancient rhymes concerning it; lib. xi. c. 25.

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<sup>&</sup>quot; Hic rex fic totam Scotiam fecit fibi notato. Qui fine mensura tulit inde jocalia plura, Et pariter lapidem, Scotorum quem fore sedem Regum decrevit fatum; quod fic inolevit, Ni fallat fatum, Scoti quocunque locatum Invenient lapidem, regnare tenentur ibidem.'

Scotland. At laft, having fettled every thing, as he thought, in tranquillity, he departed for England, with all the triumph of a conqueror.

T34 New GI-

The tranquillity established by Edward was, however, of fhort duration. The government of Scotland at that time required many qualities which Edward's vicegerents did not posses. Warenne, earl of Surrey, who had been appointed governor, took up his abode in England, on pretence of recovering his health. Creffingham, the treasurer, was a voluptuous, proud, and felfish ecclefiastic; while Ormesby the justiciary was hated for his feverity. Under these officers the administration of Edward became more and more feeble; bands of robbers infelted the highways, and the English Sir William government was univerfally despited. At this critical Wallace, moment arose Sir William Wallace, the hero so much An. 1297. celebrated in Scottish fables, by which indeed his real exploits are fo much obscured, that it is difficult to give an authentic relation of them. The most probable account is, that he was the younger fon of a gentleman (Wallace of Ellersie) in Renfrewshire (E). been outlawed for some offence, he affociated with a few companions, of fortunes equally desperate with his own. Wallace himfelf was endowed with great firength and courage, and an active and ambitious spirit; and by his affability, eloquence, and wildom, he maintained an authority over the rude and undisciplined multitudes who flocked to his flandard. In May 1297, he began to infest the English quarters; and being successful in his predatory incurfions, his party became more numerous, and he was joined by Sir William Douglas. With their united forces, these two allies attempted to surprise Ormefby the justiciary, while he held his courts at Scone; but he faved himself by a precipitate flight. After this the Scots roved over the whole country, affaulted castles, and massacred the English. Their party was joined by many perfons of rank; among whom

were Robert Wilhart bishop of Glasgow, the sleward of Scotland. Scotland (E), and his brother Alexander de Lindtay, Sir Richard Lundin, and Sir Andrew Moray of Bothwell. Young Bruce would have been a vail accession to the party; for he poffessed all Carrick and Annandale, so that his territories reached from the fith of Clyde to Solway. But the wardens of the wellern marches of England suspected his fidelity, and summoned him to Carlifle. He obeyed, and made oath on the confecrated hoft, and on the fword of Becket, to be faithful and vigilant in the cause of Edward; and to prove his fincerity, he invaded with fire and fword the citate of Sir William Douglas, and carried off his wife and children. However, he instantly repented of what he had done: " I truft (faid he), that the pope will abfolve me from an extorred oath;" on which he aban-

doned Edward, and joined the Scottish army. All this time Edward was in France, not in the least fuspecting an insurrection among people whom he magined he had thoroughly subdued. As soon as he received the intelligence, he ordered the earl of Surrey to fuppress the rebels; but he declining the command of the army himself on account of his health, refigned it to his nephew, Lord Henry Percy. A great army, D ffenfions fome fay not fewer than 40,000 men, was now affem-of the Scots bled, with which Percy marched against the Scots. He found them encamped at Irvine, with a lake in their front, and their flanks fecured by intrenchments, fo that they could not be attacked without the utmost danger. The Scots, however, ruined every thing by their diffensions. Wallace was envied on account of his accomplishments, which had raised his reputation above the other officers, whose birth and circumstances were higher than his. His companions accordingly became jealous, and began to fuggest, that an opposition to the English could only be productive of farther national de-Aruction. Sir Richard Lundin, an officer of great rank,

formed

(E) The descent of Sir William Wallace has scarcely been carried with accuracy beyond his father, Wallace of Ellerslie. It has been supposed that the family of Wallace or Walleys, came originally from Wales; but according to Mr Chalmers, they were an Anglo-Norman family, originally denominated Walente, of whom Richard Walense, who appears as a witness to the charters of Walter, the fon of Alan, the first of the Stewarts, acquired lands in Kyle, in Ayrshire, where he settled. This Richard was succeeded by his son Richard, who was cotemporary with Alan, the fon of Walter the Stewart. Another branch of the family of Walense settled in Renfrewshire, under the kindly influence of the Stewarts; and of this branch Henry Walense, probably a younger fon of the first Richard, held some lands in Renfrewshire under Walter the Stewart in the early part of the 13th century. From this Henry was descended Malcolm Waleys of Ellersly, the father of Sir William Wallace, the champion of Scottish independence.

We find that the family of Wallace was patronifed by that of Stewart, which now began to make a diftinguished figure in Scottish history. The genealogy of this illustrious house has been much disputed, and is involved in great obscurity. Mr Chalmers feems to have thrown considerable light on the origin of the Stewarts, and has traced them farther back than the generality of historians. According to this writer, Walter the fon of Alan, who is generally confidered as the first of the Stewarts, came from Shrop shire in England, and his father Alan was the fon of Flaald, and the younger brother of William, fon of Alan, the progenitor of the famous house of Firz-Alan, earls of Arundel. Alan the fon of Flaald married the daughter of Warine, the famous sheriff of Shropshire, foon after the Norman conquest, in which both these families bore a part in the suite of William; and of this marriage was born William, the undoubted heir both of Alan and of Warine. Now, Richard Fitz-Alan, earl of Arundel, who in 1335 claimed the post of steward of Scotland by hereditary right, and fold this title and claim to Edward III. for 1000 merks, had not, according to Mr Chalmers, any right to the Rewardship of Scotland; but Walter, the younger brother of William, the fon of Alan, the progenitor of Richard Fitz Alan the claimant, was the first purchaser of this hereditary office. Robert the Stewart, who was born of Margery, the daughter of Robert Bruce in 1316, and became king of Scots in 1370, was then in possession of the hereditary office of Stewart by lineal descent,

Scotland, formed a party against Wallace, and went over to Edward with all his followers. Other leaders entered into a negociation with the English. Bruce, the sleward and his brother Alexander de Lindelay, and Sir William Douglas, acknowledged their offences, and made fubmillions to Edward for themselves and their adherents.

Most of them fubmit to the Buglifh.

Wallace

Out.

still holds

This feandalous treaty feems to have been negociated by the bithop of Glasgow, and their recantation is recorded in the following words .- " Be it known to all men: Whereas we, with the commons of our country, did rife in arms against our lord Edward, and against his peace, in his territories of Scotland and Galloway. did burn, flay, and commit divers robbesies; we therefore, in our own name, and in the name of all our adherents, agree to make every reparation and atonement that thall be required by our fovereign lord; referving always what is contained in a writing which we have procured from Sir Henry Percy and Sir Robert Clifford, commanders of the English forces; at Irvine, oth July 1297." To this instrument was subjoined, " Escrit a Sire Willaume; the meaning of which Lord Hailes supposes to be, that the barons had notified to Sir William Wallace their baving made terms of accommodation for themselves and their party.

Edward accepted the Submittion of the Scottish barons who had been in arms, and granted liberty to those whom he had made prisoners in the course of the former year, on condition that they should ferve him in his wars against France. The inconstancy of Bruce, however, was fo great, that acknowledgments of fubmillion or oaths of fealty were not thought fufficiently binding on him; fur which reason the bithop of Glasgow, the Steward, and Alexander de Lindesay, became fureties for his loyalty and good behaviour, until he should deliver

his daughter Margery as an hostage.

Wallace alone refused to be concerned in these shameful fubmissions; and, with a few resolute followers, refolved to fubmit to every calamity rather than give up the liberty of his country. The barons had undertaken to procure his fubmission as well as their own; but finding that to be impossible, the bishop of Glasgow and Sir William Douglas voluntarily furrendered themselves prifoners to the English. Edward, however, afcribed this voluntary furrender, not to any honourable motive, but to treachery. He afferted, that Wishart repaired to the castle of Roxburgh under pretence of yielding himfelf up, but with the concealed purpose of forming a conspiracy in order to betray that castle to the Scots; and in proof of this, Edward appealed to intercepted letters of Withart. On the other hand, Wallace, afcribing the bithop's conduct to traiterous pufillanimity, plundered his house, and carried off his family captives.

Immediately after the defection of the barons at Irvine, Wallace with his band of determined followers attacked the rear of the English army, and plundered their baggage; but was obliged to retire, with the loss of 1000 men. He then found himself deserted by almost all the men of eminence and property. His array, however, increased considerably by the accession of numbers of inferior rank, and he again began to act on the offensive. While he employed himself in belieging the callle of Dundee, he was informed that the Englith army approached Stirling. Wallace, having charged the citizens of Dundee, under pain of death, to continue the blockade of the caffle, hallened with all Some his troops to guard the important passage of the Forth; and encamped behind a riting ground in the neighbourhood of the abbey of Cambulkenneth. Brian Fitz- A .lan had been appointed governor of Scotland by Edward; but Warenne, who waited the arrival of his fucceffor, remained with the army. Imagining that Wa .. lace might be induced by fair means to lay down his arms, he dispatched two friars to the Scottish camp. with terms of capitulation. "Return," faid Wallace, " and tell your mailers, that we came not here to treat but to affert our right, and to fet Scotland free. Let them advance, they will find us prepared." The Eng-Gives the lith, provoked at this answer, demanded impatiently to Erglish a be led on to battle. Sir Richard Lundin remonstrated great deagainst the abfurdity of making a numerous army pass Stirling by a long narrow bridge in prefence of the enemy. He with a pa told them, that the Scots would attack them before tember they could form on the plain to the north of the hidge, 1-97. and thus certainly defeat them: at the same time he offered to show them a ford, which having crossed with 500 horse, and a chosen detachment of infantry, he proposed to come round upon the rear of the enemy, and by this diversion facilitate the operations of the main body. This proposal being rejected, the English army began to pass over; which was no sooner perceived by Wallace, than he rushed down upon them, and broke them in a moment. Creffingham the treasurer was kitled, and many thousands were flain on the field, or drowned in their flight. The loss of the Scots would have been inconsiderable, had it not been for that of Sir Andrew Moray, the intimate friend and companion of Wallace, who was mortally wounded in the engage-

The victory at Stirling was followed by the furrender of Dundee caltle, and other places of firength in Scotland; at the fame time the Scots took pollettion of Berwick, which the English had evacuated. But as a famine now took place in Scotland from bad feafons and the miseries of war, Wallace marched with his whole army into England, that he might in some measure relieve the necessities of his countrymen by plundering the enemy. This expedition lasted three weeks, during which time the whole tract of country from Cockermouth and Carlifle to the gates of Newcastle was laid waste with all the fury of revenge and rapacity; though Wallace endeavoured, as far as possible, to repress the

licentiousness of his foldiers.

In 1298, Wallace assumed the title of " Governor An. 1:53. of Scotland, in name of King John, and by confent of the Scottish nation;" but in what manner this office was obtained, is now in a great measure unknown. In a parliament which he convoked at Perth, he was confirmed in his authority; and under this title he conferred the conflabulary of Dundee on Alexander furnamed Skrimgcour and his heirs. This grant is faid to have been made with the confent and approbation of the 140 Scottish nobility, 29th March 1298. From this period, Jeal my however, we may date the very great jealoufy which tween took place between Wallace and the nobles who pres whale took place between Wallace and the nobles who pre- and the tended to be of his party. His elevation wounded their Larous pride; his great services reproached their inactivity in the public cause; and thus he counsels of Scotland were perplexed with diffruit and envy, when almost its very exillence depended on unarimity.

Scotland

again in-

vaded by

Edward.

In June 1208, Edward, who had all this time been in Flanders, returned to England and fummoned the Scottish barons, under pain of rebellion, to attend him in parliament; and, on their disobeying his summons, he advanced with his army towards Scotland, His main force, commanded by himself, assembled at Berwick; but a body of troops, under the earl of Pembroke, having landed in the north of Fife, were defeated with great lofs by Wallace, on the 12th of June. The same month Edward invaded Scotland by the way of the eastern borders. No place resisted him except the castle of Dirleton. After a resolute desence, it sur-

rendered to Anthony Beck, bishop of Durham. Meanwhile the Scots were affembling all their firength in the interior of the country. Few barons of eminence repaired to the national standard. They whose names are recorded, were John Comyn of Badenoch, the younger; Sir John Stewart of Bonkill, brother to The Steward; Sir John Graham of Abercorn; and Macduff, the grand-uncle of the young earl of Fife .- Robert Bruce again acceded to the Scottish party; and with his followers guarded the important castle of Ayr, which kept the communication open with Galloway,

Argyleshire, and the isles.

The aim of Edward was to penetrate into the west, and there to terminate the war. He appointed a fleet, with provisions, to proceed to the frith of Clyde, and await his arrival in those parts. This precaution was absolutely necessary for the subfishence of his numerous army in a country impoverished and waste.

Waiting for accounts of the arrival of his fleet, he

established his head-quarters at Templeliston, between Edinburgh and Linlithgow.

A dangerous infurrection arose in his camp. He had bestowed a donation of wine among his foldiers, they became intoxicated; a national quarrel enfued .-In this tumult the Welsh slew 18 English ecclesiastics. The English horsemen rode in among the Welsh, and revenged this outrage with great flanghter. The Welth in disgust separated themselves from the army. It was reported to Edward, that they had mutinied, and gone over to the Scots: " I care not," faid Edward, diffembling the danger; " let my enemies go and join my enemies; I trust that in one day I shall chastise them all."

Edward was now placed in most critical circumstances. As the fleet with provisions had been detained by contrary winds, he could not venture to advance, neither could he subsist any longer in his present quarters. To retreat would have fullied the glory of his arms, and exposed him to the obloquy and murmurs of a discontented people. Yet he submitted to this hard necessity. Abandoning every prospect of ambition and revenge, he commanded his army to return to the eastern borders. At that moment intelligence arrived that the Scots

had advanced to Falkirk.

Edward instantly marched against them. His army lay that night in the fields. While Edward flept on the ground, his war horse struck him and broke two of his ribs. The alarm arose, that the king was wounded. They who knew not the cause, repeated the cry, " The king is wounded; there is treason in the camp; the ene. Scotland.
my is upon us." Edward mounted on horseback, and by his presence dispelled the panic. With a fortitude of spirit superior to pain, he led on his troops. At The battle of spirit superior to pain, he led on his troops. It of Falkirk, break of day, the Scottish army was descried, forming of Falkirk, on a ftony field at the fide of a fmall eminence in the 1208. neighbourhood of Falkirk.

Wallace ranged his infantry in four bodies of a circular form. The archers, commanded by Sir John Stewart, were placed in the intervals. The horfe. amounting to no more than a thousand, were at some distance in the rear. On the front of the Scots lay a morals. Having drawn up his troops in this order, Wallace pleafantly faid, " Now I have brought you to

the ring, dance according to your skill,"

Edward placed his chief confidence in the numerous and formidable body of horsemen whom he had selected for the Scottish expedition. These he ranged in three lines. The first was led by Bigot Earl Marshal, and the earls of Hereford and Lincoln; the fecond by the bishop of Durham, having under him Sir Ralph Baffet of Drayton; the third, intended for a referve, was led by the king himself. No mention is made of the difposition of his infantry: it is probable that they were drawn up behind, to support the cavalry, and to annoy the Scots with their arrows and other miffile weapons. Bigot, at the head of the first line, rushed on to the

charge. He was checked by the morafs, which in his impetuofity he had overlooked. This obliged him to incline to the folid ground on his left, towards the right flank of the Scottish army. The bishop of Durham, who led the fecond line, inclined to the right, turned the morals, and advanced towards the left flank of the Scottish army. He proposed to halt till the reserve should advance. "To mass, bishop," cried Baffet, and inflantly charged. The shock of the English cavalry on each fide was violent, and gallantly withflood by the Scottish infantry; but the Scottish cavalry, dismayed at the number and force of the English men-at-arms, immediately quitted the field. Stewart, while giving orders to his archers, was thrown from his horse and flain. His archers crowded round his body and periffied with him. Often did the English strive to force the Scottish circle. " They could not penetrate into that The Scots wood of spears," as one of their historians speaks. By defeated repeated charges, the outermost ranks were brought to with great the ground. The English infantry incessantly galled slaughter. the Scots with showers of stones and arrows. Macdust and Sir John Graham fell. At length the Scots were broken by the numbers and weight of the English cavalry, and the rout became universal.

The number of the Scots flain in this battle must have been very great. As is commonly the case, it is exaggerated by the historians of the victors, and reduced too

low by the hiftorians of the vanquished.

On the fide of the English the loss was inconfiderable. The only persons of note who fell were Brian le Jay, master of the English Templars, and the prior of Torphichen in Scotland, a knight of another order of religious foldiery (E).

The

Scotland.

The Scots in their retreat burnt the town and callle of Stirling. Edward repaired the castle, and made it a place of arms. He then marched to the west. At his approach, Bruce burnt the castle of Ayr, and retired. Edward would have purfued him into Carrick; but the want of provisions stopped his further progress. He turned into Annandale, took Bruce's caftle of Lochmaben, and then departed out of Scotland by the western borders.

Here may be remarked the fatal precipitancy of the Scots. If they had studied to protract the campaign, instead of hazarding a general action at Falkirk, they would have foiled the whole power of Edward, and re-

An. 1300-IAA John Ba-

duced him to the necessity of an inglorious retreat. In 1200 Edward thought proper to release John Baliol the unfortunate king of Scotland, whom he had Abject con- kept close prisoner ever fince the year 1296. Before this time Baliol had used the most disgraceful methods to recover his liberty. He had folemnly declared, that " he would never have any intercourse with the Scots; that he had found them a false and treacherous people; and that he had reason to suspect them of an intention to poison him." Notwithstanding all his protestations, Edward still detained him in captivity; but at last releafed him at the mediation of the pope, though after a fingular form : He ordered the governor of Dover to convey him to the French coast, and there to deliver him to the papal nuncio, " with full power to the pope to dispose of Baliol and his English estate." In consequence of this he was conveyed to Witfand, delivered to the nuncio in presence of a notary and witnesses, and a receipt taken for his person. Notwithstanding this abject state, however, the Scots continued to own him for their king, and to affert their national independence. Though the misfortune at Falkirk had deprived them of a very confiderable extent of territory, they were still in possession of the whole country beyond the Forth, as well as the county of Galloway. By general confent William Lamberton bishop of St Andrew's, Robert Bruce earl of Carrick, and John Cummin the younger, were chosen guardians of Scotland in name of Baliol. Wallace at this time was reduced to the condition of a private man; nor had he any longer the command of the Scots armies, nor any share in their councils .- The new guardians undertook to reduce the castle of Stirling, and Edward prepared to defend it. The Scots posted themselves at the Torwood, and chose their ground judiciously, fo that Edward could scarcely have raised the siege without dislodging them; which finding impossible, he returned home in difgust. Next year he invaded Scotland on the west side, wasted Annandale, and reduced Galloway; but the Scots being being now taught by experience to avoid a general action, chose their posts with such skill, that Edward could not penetrate farther; and the same year a truce was concluded with the Scots, to continue till Whitfunday 1301.

Edward obliged to retire.

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The crown This year appeared a new competitor for the crown of Scotland of Scotland. Boniface VIII, in a bull directed to Edclaimed by ward, averred, that Scotland belonged anciently, and Pope Boni-

face VIII. An. 1301.

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did fill belong, to the holy fee; and supported his ex- Scotland, travagant claim by fome ftrange authorities; fuch as, that Scotland had been miraculously converted by the relics of St Andrew: after which he proceeded to thow the futility of Edward's pretentions, and that Scotland never had any feudal dependence on England. He required Edward to fet at liberty all the Scottish ecclefiatlics, particularly Withart bishop of Glasgow, and to remove his officers from the patrimony of the church: " But (added he) should you have any pretensions to the whole, or any part of Scotland, fend your proctors to me within fix months; I will hear and determine according to juffice; I take the cause under my own peculiar cognizance."

This interpolition of the pope had probably been Hispretenprocured by Scottish emissaries at the court of Rome; forms anbut, however ridiculous his pretentions might be, they were afforded matter of very ferious confideration to Edward, and his After fpending a whole winter in deliberations, Edward parliaand his parliament made separate answers to the pope, ment, The answer of the parliament was to the following purpose: All England knows, that ever fince the firth eftablishment of this kingdom, our kings have been liegelords of Scotland. At no time has the kingdom of Scotland belonged to the church. In temporals, the kings of Eugland are not amenable to the fee of Rome. We have with one voice refolved, that, as to temporals, the king of England is independent of Rome; that he shall not suffer his independence to be questioned; and therefore, that he shall not fend commissioners of Rome. Such is, and fuch, we trust in God, ever will be, our opinion. We do not, we cannot, we must not, permit our king to follow measures subversive of that government which we have fworn to maintain, and which we

will maintain." The king entered into a more full refutation of the A fhort pope's arguments; and having, as he thought, answer-truce coned them sufficiently, he marched again into Scotland: Scotland. but, by the mediation of France, another truce was concluded, to last till St Andrew's day 1302.

After the expiration of the truce, Edward fent an Three boarmy into Scotland, under the command of John de Se. dies of the grave. This general divided his troops into three bo- feated in dies; but, keeping them so far distant that they could one day, not support each other, they were all engaged and de- An. 1302. feated in one day by the Scots, near Rollin (fee Ros-Lin). This, however, was the last fuccessful exploit of the Scots at this period. The pope deserted them; and the king of France concluded a peace with England, in which all mention of the Scots was industrioutly avoided; fo that they were left alone to bear the whole weight of Edward's refentment, who now invaded their country in person with a mighty army. He met with Scotland no resistance in his progress, except from the castle of invaded by Brechin, which was commanded by Thomas Maule, a Edward brave and experienced officer. He held out for 20 days with a vart against the whole power of the English army; but at army. laft, he was mortally wounded, and the place capitulated. Thence he proceeded northward, according to fome historians, as far as Caithness. He then returned

tow.irds

Sociand, towards the fouth, and wintered in Dunfermline. In that place there was an abbey of the Benedictine order; a building fo spacious, that, according to an English hittorian, three fovereign princes with all their retinue might have been lodged conveniently within its precincls. Here the Scottish nobles fometimes held their affemblies. The English foldiers utterly demolished this magnificent fabric.

The Scots army routed.

Capitula-

tion with

Edward,

The only fortress that remained in the possession of the Scots was the castle of Stirling, where Sir William Oliphant commanded. To protect this fingle place of refuge, Cummin affembled all his forces. He posted his army on the fouth bank of the river, in the neighbourhood of Stirling, there to make the last stand for the national liberty. The Scots fondly imagined, that Edward would attempt to force the passage, as the impetuous Creffingham had attempted in circumstances not diffimilar. But the prudence of Edward frustrated their expectation. Having discovered a ford at some distance, he crossed the river at the head of his whole cavalry. The Scots gave way, and foon dispersed.

All refources but their own courage had long failed them; that last resource failed them now, and they hastened to conciliate the favour of the conqueror. Previous to this, Bruce had furrendered himself to John de St John, the English warden. Cummin and his followers now fubmitted to Edward. They stipulated for their lives, liberties, and estates: referving always to Edward

the power of inflicting pecuniary mulcts on them as he should fee fit.

From the general conditions of this capitulation, the following persons were excepted: Wishart bishop of Glasgow, the Steward, Sir John Soulis, David de Graham, Alexander de Lindesay, Simon Fraser, Thomas Bois, and Wallace. With respect to them, it was provided, that the bifliop of Glafgow, the Steward, and Soulis, should remain in exile for two years, and should not pass to the north of Trent; that Graham and Lindefay should be banished from Scotland for fix months; that Fraser and Bois should be banished for three years from all the cominions of Edward, and flould not be permitted, during that frace, to repair to the territories of France. " As for William Wallace, it is agreed, that he shall render himself up at the will and mercy of our fovereign lord the king, if it thall feem good to him." These were all the conditions that the Scottish nation stipulated for the man who had vanquithed the English at Stirling, who had expelled them from Scotland, and who had once fet his country free !

Amid this wreck of the national liberties, Wallace scorned submission. He lived a free man: a free man he resolved to die. Fraser, who had too often complied with the times, now caught the same heroic sentiments, But their endeavours to rouse their countrymen were in vain. The feafon of relistance was past. Wallace perceived that there remained no more hope; and fought out a place of concealment, where, eluding the vengeance of Edward, he might filently lament over his

fallen country.

Edward affembled at St Andrew's what is called a parliament. Wallace, Fraser, and the garrison of Stirling, were fummoned to appear: They appeared not, and fentence of outlawry was pronounced against them.

Edward now prepared to besiege the castle of Stir-

ling; and, foreseeing that the reduction of this place Scotlands would be attended with confiderable difficulty, he thripped the abbey of St Andrew's of the lead which covered it, in order to employ the metal in bullets for his battering machines. Oliphant was folemaly fummoned to furrender; but in vain. Edward drew out all his artillery, and battered the walls with itones of 200 pounds weight. The befieged, however, defended themfelves with obstinacy, and killed a great number of the English: but at last they were obliged to surrender: and Edward, looking upon the conquest of Scotland as now complete, fet out for York, and from thence to Lincoln.

Though Edward had thus met with all the fuccefs he could defire in his expeditions against the Scots, he could not but perceive that his dominion over them must be very precarious, as long as he held them in the subjection of a conquered people. He resolved Edward attherefore once more to renew his attempts for an union tempts an union beof the two kingdoms. He began with taking into fa- tween the vour the bishop of Glasgow, Robert Bruce, and John two king-Mowbray, who, next to Bruce and the Cummins, was dome in amongst the greatest of the Scottish nobility. To them vain. he recommended the fettling the affairs of their country, but in such a manner as to leave it in his power to effect the proposed union with England. This scheme, however, was by no means agreeable to Bruce; who had now no other competitor for the crown but Cummin, who was in a great measure incapable of oppofing his defigns; nor indeed could it ever be made agreeable to the bulk of the nation; and therefore came to nothing. Scotland, however, was subdued. Its inhabitants had renounced every idea of afferting their liberty, and only strove to make their court to the conward, who had received into favour those who had re- and executpeatedly proved traitors, showed a mean revenge against ed. 23d the only man who discovered a steady and honourable August spirit, and whose friendship seemed worth the courting, 1305. Ralph de Haliburton, a prisoner, offered his ashitance for discovering Wallace; and for this purpose he was granted a temporary liberty; but what he did in this very dishonourable employment is unknown. Certain it is that Wallace was discovered, and betraved into the hands of the English, by Sir John Menteith, the sherisf of Dunbarton. This celebrated and heroic patriot was arraigned at Westminster as a traitor to Edward, and as having burnt villages, stormed castles, and slaughtered many subjects of England. Wallace denied his having been a traitor, and indeed with truth; for he had always been the avowed enemy of Edward, and had not at any time owned allegiance to him. But whatever his defences might have been, they were of no avail with a judge who had refolved on his destruction. Wallace was condemned to die a traitor's death, and the fentence was executed with the utmost rigour! In his last moments he afferted that independency which a degenerate nation had renounced. His head was placed on a pinacle at London, and his mangled limbs were distributed over the kingdom.

After the death of Wallace, Edward thought of no-Edward's thing but fettling the affairs of Scotland as a conquered precautions country; but he took care to preferve the ancient forms for fettling the Section as far as was confistent with the dependent state of the affairs. nation. It has been faid, indeed, that Edward abrogated

of Stirling reduced,

dued.

Did not

abrogate

Indemnity

granted to the Scots.

Scotland, all the Scottish laws and customs, and endcavoured to fubflitute the English in their stead; but this is denied by others. Lord Hailes gives us at length the record with respect to these laws, in the following words. " And, with respect to the laws and usages of the government of Scotland, it is ordained, that the euflom of the Scots and the Brets shall for the future be prohibited, and be no longer practifed. It is also ordained. that the king's lieutenant shall forthwith affemble the good people of Scotland: and that, at fuch affembly, shall be read over the statutes made by David king of Scots, and also the additions and amendments which have been made by other kings; and that the lieutenant. with the affidance which he shall then have, as well of Englishmen as of Scots, shall amend such of these statutes and usages as are plainly against the laws of God and reason, as they best may in so short a space, and in fo far as they can without confulting the king; and as to matters which they cannot undertake to correct of themselves, that they be put in writing, and laid before the king by the lieutenant, and any number of commiffioners, with parliamentary powers, whom the Scots shall think fit to choose. That they shall meet with commissioners appointed by the king, and finally determine as to the premisses."

This is the record by which it is generally supposed that the law of Scotland was abrogated. But Lord Hailes is of opinion, that the usage of the Scots and Brets here mentioned was fomething different from the comthe ancient mon law of the land. " We know (fays he), from our statute-book, that the people of Galloway had certain ufages peculiar to themselves; Stat. Alex. II. c. 2. One was, that causes were tried among them without juries [Quon. Attach. c. 72. 73. placed in some ancient MSS. among LL. David I. c. 15.], and this may probably have been the usage which Edward abolished. The people of Galloway were fometimes diftinguished by the name of Scots: thus the wild Scots of Galloway is an expression to be found in ancient instruments, and is proverbial even in our own days. The usage of the Brets, I take to be what relates to the judge called brithibh, or brehon; in Ireland, brehan; and confequently, that the thing here abolished was the commutation of punish-

ments by exacting a pecuniary mulct."

An indemnity was now granted to the Scots on cer-tain conditions. Various fines were imposed, from one to five years rent of the estates of the delinquents. One year's rent was to be paid by the clergy, excluding the bishop of Glasgow; two by those who were more early in their submissions than Cummin; three by Cummin and his associates, and five by the bishop of Glasgow; four years rent was to be paid by William de Baliol and John Wishart; and five by Ingelram de Umstraville, because they had stood out longer. Three years rent was also paid by the vastals of Baliol, Wishart, and Umfraville. These fines were to be paid in moieties. The person taxed was to pay half his income annually and thus Umfraville, taxed in five years rent, was allowed ten years to discharge the fine. This was an express refervation to Edward of all the royal demesses which Baliol might have alienated. There was also an exception for these who were already in custody, and

those who had not yet submitted. Overthrow Thus, after a long and obstinate contest, was Scotlift govern land wholly reduced under the dominion of Edward,

mei.t.

-Within fur math was overthrown that I flem, Sociard. which the incessant labour of lifeen years had et a life. ed by craft, diffimulation, and violence, with a wafte of treasure, and the effusion of much blood. The courses of this event are related as follows. Derverguill of Galloway had a fon, John Baliol, and a day inter named Margery, John Cummin was the Ion of Margery, and, fetting Baliol afide, was heir to the pretentions of Derverguill. He had for many years maintained the conteff against Edward; but at last laid down his arms. and fwore fealty to the conqueror; and as Baliol had repeatedly renounced all pretentions to the crown of Scotland, Cummin might now be confidered as the rightful heir. His rival in power and pretentions was Bruce earl of Carrick. This young nobleman's grandfather, the competitor, had patiently acquiefced in the award or Edward. His father, yielding to the times, had ferved under the English banners. But young Bruce had more ambition, and a more restless spirit. In his earlier years he acted on no regular plan. By turns the partifan of Edward and the vicegerent of ballol, he feems to have forgotten or stifled his pretentions to the crown. But his character developed itself by degrees, and in maturer age became firm and confiftent. cording to the traditionary report, Bruce made the following propofal to Cummin: " Support my title to the crown, and I will give you my estate; or give me your eflate, and I will support your's." The conditions were properly drawn out and figned by both parties; but Cummin, either through fear or treachery, revealed the whole to Edward. On this the king showed Bruce the letters of his accuser, and severely questioned him; but the latter found means to pacify him by mild and judicious answers. Notwithstanding this, however, Ed-Edward's ward ftill suspected him, though he dissembled his feuti-defign ments, until he should get the brothers of Bruce into against the his power, and then destroy all the family at once. The Bruce, king having drunk freely one evening, informed fome of his lords that he had refolved to put Bruce to death next day. The earl of Gloucester, hearing this resolution, fent a messenger to Bruce, with twelve pence and a pair of spurs, as if he intended to restore what he 16r had borrowed. Bruce understood the meaning of his Robert meffage, and prepared for flight. The ground was co-Bruce vered with from, which would have discovered his flight; make his but, it is faid, that Bruce ordered his farrier to invert elcape, the shoes of his horses, and immediately set out for Scotland in company with his fecretary and groom, In his way he observed a foot-passenger whose behaviour feemed to be fuspicious, and whom he foon discovered to be the bearer of letters from Cummin to the English monarch, urging the death or immediate imprisonment of Bruce. The latter, filled with refentment, immediately beheaded the messenger, and set forward to his castle of Lochmaben, where he arrived the seventh day after his departure from London. Soon after this he rapaired to Dumfries, where Cummin happened at that time to reade. Bruce requested an interview with him in the convent of the Minorites, where he reproached him with his treachery. Cummin gave him the lie, and Bruce instantly statbed him; after which he hastened out of the convent, and called "To horse." His at-and but tendants, Lindefay and Kirkpatrick, perceiving him John Currepale, and in extreme agitation, inquired how it was with mi. him? " Ill (replied Bruce); I doubt I have flain Cum-

Scotland, myn." " You doubt!" cried Kirkpatrick; on faving which, he rushed into the place where Cummin lay, and inflantly dispatched him. Sir Robert Cummin, a relation attempted to defend his kinfman, and thared his fate. Bruce had now gone fo far, that it was in vain to think of retracting; and therefore fet himfelf in decided opposition to Edward. The justiciaries were then holding their court at Dumfries; and hearing what had happened, imagined their own lives to be in danger, and barricaded the doors. Bruce ordered the house to be fet on fire : on which they furrendered; and Bruce granted them leave to depart out of Scotland without molestation.

163 Opinion of this event.

The above account of this catastrophe is taken from Lord Hailes the Scots historians; those of England differ in many concerning particulars. Lord Hailes supposes both to be wrong, and that the true circumstances of the quarrel are unknown. " My opinion (fays he) is, that Bruce, when he met Cummin at Dumfries, had no intention of embruing his hands in his blood, nor any immediate purpose of afferting his right to the crown of Scotland; that the flaughter of Cummin was occasioned by a hasty quarrel between two proud-spirited rivals; and that Bruce, from necessity and despair, did then affert his pretentions to the crown."

The death of Cummin affected the Scots variously, according to their different views and interests. The relations of the deceased viewed it as a cruel affassination, and joined with Edward in schemes of revenge. Some who wished well to the peace of their country, thought that it was better to submit quietly to the government of the English, than to attempt a revolution, which could not be effected without much danger and bloodthed; but, on the other hand, the friends of Bruce now faw the necessity of proceeding to the coronation of the new king without loss of time. The ceremony was therefore performed at Scone on the 25th of March 1306, in presence of two earls, the bishops of St Andrew's and Glasgow, the abbot of Scone, John de Athol, and John de Menteith. It had been customary, fince the days of Macbeth, for one of the family of Fife to put the crown on the king's head; and Bruce found the prepoffession of the Scots in favour of this circumstance fo strong, that he was obliged to seek for an expedient to fatisfy them. Macduff the earl of Fife was at that time in England, where he had married a near relation of Edward. His fifter was wife to the earl of Buchan, one of the heads of the family of Comyn, and confequently the determined enemy of Robert. By an uncommon effort of female patriotifm, the postponed all private quarrels to the good of her country, and in her husband's absence repaired, with all his warlike accoutrements, to Bruce, to whom the delivered them up, and placed the crown upon his head. This crown is faid to have been made by one Conyers an Englishman, who narrowly escaped being punished for it by Edward.

The king of England received intelligence of all these proceedings with aftonishment; and without delay fent a body of troops under the command of Aymer de Valence earl of Pembroke, to suppress the rebellion. Bruce omitted nothing for his defence. He had always been confidered by his countrymen as a promifing accomplished young nobleman, but firmly attached to Edward's person and government; for which reason he had not been trufted by those independent patriots who joined Scot'and. Wallace. But their confidence was now gained by his rendering himself so obnoxious to Edward, that no possibility of a reconciliation was left; and he soon saw himself at the head of a small army. With these, who He is deconsisted of raw and unexperienced foldiers, Bruce form-feated at ed a camp at Methven near Perth, which last was the Methven-head-quarters of the enemy; but knowing the difadvantage under which he laboured from the inexperience of his men, he refolved to act on the defensive. The English general at last fent Bruce a challenge to fight him, which was accepted; but the day before the battle was to have been fought by agreement, the Scots were attacked by furprife, and totally defeated. Bruce behaved with the greatest valour, and had three horses killed under him. Being known by the slaughter which he made, John Mowbray, a man of great courage and resolution, rushed on him, and catching hold of his horse's bridle, cried out, "I have hold of the newmade king !" but he was delivered by Christopher Sea-

This difaster almost gave the finishing stroke to the Is distressed affairs of Bruce. He now found himself deserted by after this a great part of his army. The English had taken pri-deseat. foners great numbers of women whose husbands followed Bruce; and all those were now ordered, on pain of death, to accompany their husbands. Thus was Bruce burdened with a number of useless mouths, and found it hard to fubfift. The confequence was, that most of his men departed with their families, fo that in a few days his army dwindled down to 500. With these he retreated to Aberdeen, where he was met by his brother Sir Neil, his wife, and a number of other ladies, all of whom offered to follow his fortune through every difficulty. But, however heroic this behaviour might be, it put Bruce to fome inconvenience, as he could fearcely procure subfistence; and therefore he persuaded the ladies to retire to his castle of Kildrommey, under the protection of Sir Neil Bruce and the earl of Athol. In the mean time the defertion among Bruce's troops continued, fo that now he had with him no more than 200 men; and as winter was approaching, he refolved to go into Argyleshire, where Sir Neil Campbell's estate lay, who had gone before to prepare for his reception. In his way thither he encountered incredible difficulties; Reaches and fome of his followers being cut off at a place called thire with Dalry, the rest were so disheartened, that they all for- great disfook him, excepting Sir Gilbert Hay, Sir James Dou-ficulty. glas, and a few domestics. Bruce, however, kept up the spirits of his little party by recounting to them the adventures of princes and patriots in circumstances similar to his own. Having croffed Lochlomond in a fmall crazy boat, he was discovered by his trusty friend the earl of Lenox, who had been profcribed in England, and now lived in retirement on his own estate. The meeting Meets with between these friends was very affecting, and drew tears the earl from the eyes of all present. Lenox, who had heard nothing of Bruce's misfortunes, furnished him and his half-familied attendants with plenty of provisions : but being foon made fenfible that it was impossible for them to live in a place where they were well known, and furrounded by enemies, Bruce refolved to feek out some more safe habitation. For this purpose Sir Neil Campbell had already provided thipping; but our adventurers had fearcely fet fail, when they were purfued by a

large

An. 1306. 164 Robert crowned king of by a wo. man.

Seetland, Jarge foundron of the enemy's fleet. The bark which with

tire.

carried the earl of Lenox escaped with the utmost difficulty to Cantire, were Bruce was already landed: and, at their meeting, both agreed that they thould

differences with his English surjects, returned his old

project of entirely fubduing Scotland, and his intention now appears to have been to divide the lands of fuch as he suspected of disaffection among his English followers. He ordered a problemation to be made, that all who had any title to the longur of knighthood, either by heritage or effate, thould repair to Westminster to receive all military ornaments, from his royal wardrobe. As the prince of Wales came under this denomination, he was the first who underwent the ceremony; which gave him a right to confer the like honour on the fons of above 300 of the chief nobility and gentry of England. The prince then repaired, at the head of this gallant train, to Edward; who received them, furrounded by his nobility, in the most folema manner. The king then made a fpeech on the treachery of the Scots, whose entire destruction he denounced. He declared his refolution of once more heading his army in person; and he desired, in case of his death, that his body might be carried to Scotland, and not

nation. Having then ordered all present to join him within fifteen days, with their attendants and mil'tary equipages, he prepared for his journey into Scotland. He entered the country foon after Bruce's defeat at Methyen. The army was divided into two bodies; one commanded by the king himfelf, the other by the prince of Wales, and, under him, by the earls of Lancaster haves with and Hereford, with orders to proceed northwards, and was throngest. As he passed along, Edward caused all that fell into his hands, whom he subjected of fa-

count of his function.

In the mean time, as the prince of Wales continued his march northwards, Bruce's queen began to be alarmed for her own fafety. She was advised to take sanctuary at the firine of St Duthac in Rossfhire; but there the was made prisoner by William earl of Ross, who was of the English party. By Edward's order she was fent to London; her dau hter, who was taken at the same time, being that up in a religious house. The directions for the entertainment of the queen are flill preferred . She was to be conveyed to the manor of Brullewick; to have a waiting woman and a maid fera butler, two men-fervants, and a foot-boy for her chamher, fober, not riotous, to make her bed : three greyhounds when the inclines to hunt; venifon, fift, and the fairest house in the manor. In 1308, she was removed to another prison; in 1312, the was removed to Windfor caltle, 20 shillings per week being allowed for her ter caftle, and was not fet at liberty till the close of that

vouring Bruce's party, to be immediately executed.

The bithop of Glafgow was the only exception to this

w's the castle of Kildrommey; and it was foon belieged

The only fortress which Bruce possissed in Sc tond

by the earls of Lancaster and Hereford. One Osburn Scotland. treacheroufly burned the r agazine; by which means the garrison, deflitute of provisions, was obliged to furren-Sir Neit Bruce and the earl of Athol were ent milo ers to Edward, who cauled them to be hanged on a gallows 50 feet high, and then beheaded and burnt. The counters of Buchan, who had crowned King Robert, was taken priloner; as was Lady Mary Bruce, the

About this time also many more of Bruce's party Adv ctur were out to death; among whom were Thomas and of R. Alexander Bruce, two of the king's brothers, and Bruce himfelf, in the mean time, was in fuch a demore diffurbance; and it was even reported that he was dead. All his misfortunes, however, could not intimidate him, nor prevent his meditating a most severe revenge upon the deftrojers of his family. He first removed to the cattle of Dumbarton, where he was hofpitably received and entertained by Angus lord of Kint re; but, fulpecting that he was not fafe there, Irish coast, where he secured nimself effectually from the pursuit of his enemies. It was during his style propagated. Notwithstanding this, his party increaled he was attended by 300 mer. Having lived for fome time in this retreat, being apprehensive that the report of his death might be generally credited among his prife of a fort held by the English under Sir John H .fuccels by his two friends Douglas and Sir Robert Boyd, art art who put the greatest part of the garrison to the itrord. and A.-The king, hearing of their faccels, palled over into Ar-ran, to have found them out by blowing a horn. He then fent a trully fervent, one Cutl bert, into his own country of Carrick; with orders, if he found it well affected to his cause, to light a fire on a certain point near his ran. Louce and his party perceived the fignal, as they thought, and immediately put to fea. Their voyage was short; and as Bruce had now 400 men along with him, he relolved immediately to act on the offensive. His first exploit was to surprise his own castle of Tun-a d the berry, which had been given, along with Bruce's effate, call of This man had met with very little encouragement on his landing in Scotland; in confequence of which he had not lighted the fire agreed upon as a fignal of his fucces, that which Bruce had obf rved having been lifh were in full possession of the country, and advited his matter to be on his guard. Soon after this the king was joined by a lady of fortune, who brought along with her 42 warriors. By her he was first particularlations; which, inflead of difficurtening, animated him

Robert's

Kileron. the farm

the more with a defire of revenge. He did not immedi-

S.ot'and, ately attempt any thing himself, but allowed Douglas to attempt the recovery of his estate of Duglas-Douglas re- dale, as Bruce himself had recovered his in Carrick. In overs his this expedition Douglas was joined by one Thomas Dickown chate, fon, a man of confiderable fortune, who gave him intelligence concerning the flate of the country. By his advice he kept himself private till Palm Sunday; when he and his followers with covered armour repaired to St Bride's church, where the English were performing divine fervice. The latter were furprifed, but made a brave defence; though, being overpowered by numbers, they were at last obliged to yield. Douglas, without farther reliffance, took poffession of his own cattle, which he found well furnished with arms, provisions, and money. He deftroyed all that he could not carry with him, and also the callle itself, where he knew that he must have been besieged if he had kept it.

The Englifk twice defeated by Robert.

Death of

Edward I.

In 1307, the earl of Pembroke advanced into the west of Scotland to encounter Bruce. The latter did not decline the combat; and Pembroke was defeated. Three days after this, Bruce defeated with great flaughter another English general named Ralph de Monthermer, and obliged him to fly to the castle of Ayr. The An. 1307. king laid fiege to the castle for some time, but retired at the approach of fuccours from England. This year the Englith performed nothing, except burning the monaftery at Pailley. Edward, however, refelved flill to execute his utmost vengeance on the Scots, though he had long been retarded in his operations by a tedious and dangerous indisposition. But now, supposing that his malady was decreased so far that he could fately proceed on his march, he offered up the horfe-litter, in which he had hitherto been carried, in the cathedral church of Carlifle; and, mounting on horfeback, proceeded on the way towards Solway. He was fo weak, however, that he could advance no farther than fix miles in four days; after which he expired in fight of that country, which he had so often devoted to destruction. With his dying breath he gave orders that his body should accompany his army into Scotland, and remain unburied until the country was totally fubdued; but his fon, difregarding this order, caused it to be deposited in Westminster abbey.

The death of fuch an inveterate enemy to the Scottifh name, could not fail of railing the spirits of Bruce and his party; and the inactive and timid behaviour of his fon Edward II. contributed not a little to give them fresh courage. After having granted the guardianship of Scotland to his favourite Piers de Gaveston earl of Pembroke, whom his father had lately banished, he advanced to Cumnock on the frontiers of Ayr-flire, and then retreated into England; conferring the office of guardian of Scotland upon John de Bretagne earl of Richmond, a fortnight after he had beflowed it on Gaveston. He was no fooner gone than Bruce invaded Galloway. The inhabitants refusing to follow his flandard, he laid waste the country; but was defeated, and obliged to retire northwards by the guardian. In the north he overran the country without opposition; and foon began to move fouthwards again in order to repair his late diffrace. He was encountered by Cummin earl of Buchan with an undisciplined body of English, whom he entirely defeated and dispersed. But about this time he was feized with a grievous diftemper, which

weakened him so much, that no hopes were left of his

recovery. In this enfeebled fituation, he was attacked Scotland. by the earl of Buchan and John Mowbray an English commander, who had affembled a body of troops in He defeats order to efface their late dishonour. The armies met the English at Invertory in Aberdeen-shire. Bruce was too weak in his torn, to support himself, and therefore was held upon horse, and recoback by two attendants: but he had the pleafure of fee- vers from a ing his enemies totally defeated, and purfued with great dufeafe. flaughter for many miles; and it is reported, that the An. 1308. agitation of his spirits on that day proved the means of curing him of his difease. This battle was fought on the 22d of May 1308.

The king of Scotland now took revenge on his enemies, after the manner of that barbarous age, by laying watte the country of Buchan with fire and Iword. His fuccesses bad so raised his character, that many of the Scots who had hitherto adhered to the English cause, now came over to that of Robert. Edward, the king's brother, invaded Galloway, and defeated the inhabitants of that country. John de St John, an English com- Successes of mander, with 1500 horsemen, attempted to surprise Edward him; but Edward Bruce having received timely infor-Bruce. mation of his defigns, ordered the infantry to entrench themselves strongly, while he himself, with not more than 50 horsemen, well aimed, under cover of a thick mist, attacked his enemies, and put them to slight. After this he reduced all the fortreffes in the country, and totally expelled the English. About this time alfo, Douglas, while roving about the hilly parts of Tweeddale, surprised and made prisoners Thomas Randolph the king's nephew, and Alexander Stewart of Bonkill, who had hitherto continued inimical to the interests of Robert. Randolph was conducted to the king, but talked to him in a haughty strain : on which his uncle fent

him into close confinement. The next exploit of Robert was against the lord of The lord Lorn, a division of Argyle-shire, It was this nobleman of Lorn dewho had reduced the king to such straits after his defeat feated, and at Methven; and Bruce now refolved to take ample re-taken. venge. Having entered the country, the king arrived at a narrow pals, where the troops of Lorn lay in ambush. This pass had a high mountain on the one side, and a precipice washed by the sea on the other; but Robert having ordered Douglas to make a circuit, and gain the fummit of the mountain with part of the army, he entered himself with the relt. He was immediately attacked; but Douglas with his men rushed down the hill, and decided the victory in favour of the king; who

foon after took the castle of Dunstaffnage, the chief residence of this nobleman.

While Robert and his affociates were thus gaining the admiration of their countrymen by the exploits which they daily performed, the English were so unfettled and fluctuating in their counfels, that their party knew not how to act. Edward fill imagined that Unfuccessthere was a possibility of reconciling the Scots to his foll negociagovernment; and for this purpose he employed Wil-tions for liam de Lambyrton, archbishop of St Andrew's, who af peace. ter having been taken prisoner, and carried from one place of confinement to another, had at last made fuch fubmissions, as procured first his liberty, and then the considence of Edward. This ecclesiastic having taken a most folemn oath of fidelity to Edward, now resolved to ingratiate himfelf, by publishing against Robert and his adherents a fentence of excommunication, which had been

Robert defeated in

Scotland, refolved on long before. This, however, produced no effect; and the event was, that in 1309, through the An 1309 mediation of the king of France, Edward confented to a truce with the Scots. This pacific disposition, however, lafted not long. The truce was fearcely concluded, when Edward charged the Scots with violating it, and funimoned his barons to meet him in arms at Newcastle: vet, probably being doubtful of the event of the war, he empowered Robert de Umfraville and three others, to conclude a new truce; declaring, however, that he did this at the request of Philip king of France, as his deareft father and friend, but who was not to be confidered as the ally of Scotland.

The new negociations were foon interrupted. They were again renewed; and in the beginning of the year 1310 the truce was concluded, but entirely difregarded by the Scots. The progress of Bruce now became very alarming to the English, The town of Pertli, a place at that time of great importance, was threatened; and to relieve it, Edward ordered a first to fail up the river Tay : he also commanded the earl of Uliter to affemble a body of troops at Dublin, and thence to invade Scotland; his own barons were ordered to meet him in arms at Berwick. About the end of September, he entered Scotland; paffed from Roxburgh, through the forest of Selkirk, to Biggar; thence he penetrated into Renfrew; and turning back by the way of Linlithgow, he retreated to Berwick, where he continued inactive for eight months.

During this invation, Robert had carefully avoided a battle with the English; well knowing, that an invasion undertaken in autumn would ruin the heavy-armed cavalry, on which the English placed their chief dependence. His cause was also favoured by a scarcity which prevailed at this time in Scotland; for as magazines and other resources of modern war were then unknown, the English army were greatly retarded in their operations, and found it impossible to subfift in the

The spirit of enterprise had now communicated itself to all ranks of people in Scotland. In 1311, the castle of Linlithgow was furprifed by a poor peafant, named William Binnock. The English garrifon were fecure, and kept but a flight guard; of which Binnock being informed, concealed eight refolute men in a load of hav, which he had been employed to drive into the caftle. With these, as foon as the gate was opened, he fell upon the feeble guard, and became nader of the place; which was difmantled by Robert, as well as all the other caftles

taken in the course of the war.

Edward now refolved to invade Scotland again; and for this purpose ordered his army to assemble at Roxburgh. But Robert, not contented with defending his own country, refolved in his turn to invade England. He accordingly entered that country, and crueltakes Perth ly ravaged the bishopric of Durham. He returned loaded with fpoil, and laid fiege to Perth. After remaining fix weeks before that place, he raifed the fiege, but returned in a few days; and having provided fcaling ladders, approached the works with a chosen body of infantry. In a dark night he made the attack; and having waded through the ditch, though the water flood to his throat, he was the fecond man who reached the top of the walls. The town was then foon taken; after which it was plundered and burnt, and the fortifications levelled with the ground. This happened on the Scotland 8th of Jaguary 1312.

Edward was now become averse to the war, and renewed his negociations for a truce; but they still ended in nothing. Robert again invaded England; burnt great Invades part of the city of Durham; and even threatened to be-England a fiege Berwick, where the king of England had for the fecond time present, fixed his residence. He next reduced the castles with great of Butel, Dumfries, and Dalfwinton, with many other fortreffes. The caftle of Roxburgh, a place of the utmost importance, next feil into his hands. The walls were scaled while the garrison was revelling on the eve of Lent. They retreated into the inner tower; but their governor, a Frenchman, having received a mortal wound,

they capitulated.

Randolph, the king's nephew, was now received into favour, and began to diffinguish himfelf in the cause of his country. He blockaded the caffle of Edinburgh fo The caffe closely, that all communication with the neighbouring of Edincountry was cut off. The place was commanded by burghta-one Leland, a knight of Gascony; but the garrison sul- & and ship pecting his fidelity, confined him in a dungeon and chofe another commander in his flead. One William Frank prefented himfelf to Randolph, and informed him how the walls might be fealed. Randolph himfelf, with 30 men, undertook to fcale the caftle walls at midnight. Frank was their guide, and first ascended the walls; but before the whole party could reach the fummit, an alarm was given, the garrifon ran to arms, and and a desperate combat ensued. The English fought valiantly till their commander was killed; after which they threw down their arms. Leland, the former governor, was released from his confinement, and entered into the Scottish service.

In 1313, King Robert found the number of his friends An. 1313. increasing with his fuccesses. He was now joined by the earl of Athol, who had lately obtained a grant of lands from Edward. This year, through the mediation of France, the conferences for a truce were renewed. Thefe, however, did not retard the military Robert inoperations of the Scots. Cumberland was invaded and vades Eng-Leid waste: the miserable inhabitants befought Edward's land, and protection; who commended their fidelity, and defired reduces the them to defend themselves. In the mean time, Robert, leaving Cumberland, passed over into the isle of Man, which he totally reduced. Edward found great difficulties in raifing the fupplies necessary for carrying on the war; but at last overcame all these, and, in the beginning of the year 1314, was prepared to invade Scotland An. 1314. with a mighty army. In March he ordered his thips to be affembled for the invafion; invited to his affiffance Eth O'Connor, chief of the Irish of Connaught, and 26 other Irith chiefs; fummoned them and his fubjects in Ireland to attend his standard, and gave the command of these auxiliaries to the earl of Uliter. His barons' were fummoned to meet him at Berwick on the 11th of

June ; and 22,000 foot foldiers, from the different coun-

ties of England and Wales, were by proclamation requi-

red to affemble at Wark. In the mean time, the fuccesses of the Scots conti-Bruce ennued. Edward Bruce had reduced the castles of Ru. ters into an therglen and Dundee, and laid fiege to the cattle of imprudent Stirling. The governor of the place agreed to fur-the goverrender, if he should not be relieved before the 24th of ner of Stir-June 1314; and to this Edward agreed, without con- ling,

185 Edward invades Scotland without fuccefs. An. 1310.

136 Lielithgow castle furprifed by the Scots. An. 1311.

Robert inwades England, and on his return. An. 1312.

William.

of fullary his brother. The king was highly displeased with this ra! treaty, which interrupted his own operations, allowed the English time to affemble their utmost force, and at last obliged him either to raise the siege or to place all on the event of a fingle battle. However, he relolved to abide by the agreement, and to meet the English by the appointed day. Having appointed a general rendezvous of his forces between Falkirk and the danger Stirling, he found their number to amount to rather more than 30,000, belides upwards of 15,000 of an undisciplined rabble that followed the camp. He determined to await the English in a field which had the brook or burn of Bannock on the right, and Stirling on the leit. His chief dread was the firength and numthod to oppose. The banks of the brook were steep in many places, and the ground between it and Stirling was partly covered with wood. The king commanded many pits, of about a foot in breadth and two or three feet deep, to be dug in all places where cavalry could have access. From the decription given of them by the hiltorians of those times, there seem to have been many rows of them, with narrow intervals. They were carefully covered with bruthwood and fod, fo that

Difpetator

valry de-

of the approach of Edward, and prepared to decide the fate of their country. The front of their army extended from the brook called Bannockburn to the neighbourhood of St Ninians, nearly upon the line of the prefent turnpike-road from Stirling to Kilfyth; and the stone in which the king is said to have fixed his standard is still to be seen. Robert commanded all his fol-diers to sight on foot. He gave the command of the centre to Douglas, and Walter the young fleward of Scotland; his brother Edward had the command of the felf taking charge of the referve, which confifted of the men of Argyle, Carrick, and the itlanders. In a valley to the rear, faid to be to the westward of a rising ground now called Gilles-hill, he placed the baggage,

they might cafi'y be overlooked by a rash and impetuous

enemy. It is faid by fome authors, that he also made ule of caltrops, to annoy the horses in the most effectual

and all the useless attendants on his army.

A porter of Randolph was commanded to be vigilant in prevent-E glon ca- ing the English from throwing succours into the cattle of Stirling; but 800 horsemen commanded by Sir Robert Clifford, made a circuit by the low grounds to the east, and approached the castle. The king, perceiving their motions, chid Randolph for his inadvertency, on which the latter hasted to encounter that body. As he advanced, the English wheeled to attack h'm. Randolph drew up his men in a circular form, holding out their spears on every side. At the first who had only a fmall party with him, was fur sounded

and not diminish the glory of Randolph and his men by Soutland.

Robert was in the front of the line when the van-An Eng-guard of the English appeared. He was meanly dreft tiffs kniet fed, with a crown above his helmet, and a battle-axe in killed in his hand. Henry de Bohun, an English knight, arm-fingle comed cap-a-pee, rode forward to encounter him. Robert bar by King did not decline the combat, and struck his antagonist so Robert. violently with his battle-axe, that he is faid to have cleft him down to the chin; after which the English vanguard retreated in confusion. The Scottish generals are faid to have blamed their king for his rashness in thus encountering Bohun; and he himself, conscious of the justice of their charge, replied only, " I have broken my

good battle-axe." On Monday the 24th of June, the whole English Commanarmy moved on to the attack. The van, confiffing of ders of the archers and lancemen, was commanded by Gilbert de English ar-Clare earl of Gloucester, nephew to the English king, my. and Humphry de Bohun constable of England; but the ground was so narrow, that the rest of the army had not sufficient room to extend itself; so that it appeared to the Scots as confilling of one great compact body. The main body was brought up by Edward in person, attended by Aymer de Valence earl of Pembroke, and Sir Giles d'Argentine, two experienced commanders. Maurice abbot of Inchaffray, placing himself on an eminence, celebrated mais in the fight of the Scottith army. He then passed along the front, barefooted, with a crucifix in his hands, and in few words exhorted the Scots to fight for their rights and liberty. The Scots fell down on their knees; which being perceived by Edward, he cried out, "They yield! See, they implore mercy." " They do," answered Umfraville, one of his commanders, " they do implore mercy, but not from us. On that field they will be victorious or

As both parties were violently exasperated against The Engeach other, the engagement began with great fury lifth entired The king of Scotland, perceiving that his troops were defeated grievously annoyed by the English archers, ordered Sir 24th June Robert Keith the marifchal, with a few armed horsemen, 1314to make a circuit and attack the archers in flank. This was infantly accomplished; and as the weapons of the archers were useless in a close encounter, they could make very little refulance, while their flight spread disorder

through the whole army.

Robert now advanced with the referve: the whole English army was in the utmost confusion; for the defeat of the archers had decided the victory in favour of the Scots. The young and gallant earl of Gloucester attempted to rally the fugitives, but was thrown from his horse, and cut in pieces, which increased the general confusion. At this critical moment, the numerous or the defire of plunder, iffined from their retirement. coming to the . flitlance of their enemies, and fled with precipitation on all fieles. Many fought refuge among the action; but now, feeing the battle irretion, bly loll,

Scotland, gentine refused to fly. He was a man of great valour, and had a high reputation in Scotland. According to that age were the emperor Henry of Luxemburg, Robert Bruce, and Giles d'Argentine. He is faid to have thrice encountered two Saracen warriors in Palestine, and to have killed them both. His valour now availed him but little; for rushing into the midst of the Scats army, he was inflantly cut in pieces. Douglas, with 60 horsemen, pursued Edward closely. At the Torwood he met Sir Lawrence Abernethy, who was hatlening to the English rendezvous with twenty horsemen. The latter foon abandoned the cause of the valiquished, and joined Douglas in the purfuit of Edward, who fled to Linlithgow. He had fcarcely arrived there, when and thence to England, he was alarmed by the approach of the Scots, and again obliged to fly. Douglas and Abernethy followed him with the greatest assiduity; but, notwithstanding their utmoil efforts, Edward got fafe to Dunbar, where he

was received by the earl of March, who protected him till he could be conveyed by fea to England.

Such was the decifive battle of Bannockburn, the greatest defeat which the English ever sustained from the Scots. On the fide of the latter no persons of note were flain, excepting Sir William Vipont, and Sir Walter Rofs the favourite of Edward Bruce; and fo grievoutly was Edward afflicted by the death of this man, that he exclaimed, "O that this day's work were undone, fo Rofs had not died!" On the English fide were flain 27 barons and bannerets, and 22 taken prifoners; of knights there were killed 42, and 60 taken prifoners; of efquires there fell 700; but the number of the common men who were killed or taken was never afcertained. The Welsh who had ferved in the English army were feattered over the country, and cruelly butchered by the Scottilh pealants. The English, who had taken refuge rendered at discretion; the castle was surrendered, and of Scots. The spoils of the English camp were immense, and enriched the conquerors, along with the ranfom of many noble prisoners who fell into their hands. Robert showed much generofity in his treatment of the prifoners who fell to his share. He set at liberty Ralph de Monhigh rank, without ransom; and by humane and geneford were fent to England, that they might be interred with the usual folemnity. There was one Baston, a Carmelite friar and poet, whom Edward is faid to have brought with him in his train to be spectator of his artievements, and to record his triumphs. Bailon was made priforer, and obliged to celebrate the victory of Robert over the English. This he did in wretched Latin rhymes; which, however, procured his liberty. Afretreated to the caffle of Bothwell, where he was beter of the king, the young earl of Mar, and the bift p

Ire terror of the End after the defeat of Ban-D las a tored h good on the cafe n fid , ray god

Northumberland, and laid the bishopric of Duriem un- Souhars der contribution. Thence they proceeded to Richmond, laid Appleby and some other towns in ashes, and re-Irrals of turned home loaded with plunder. Edward fummoned the So is a parliament at York, in order to concert means for into Luzformerly the guardian of Scotland, to be guardian of the country between the Trent and the Tweed. Robert, however, fent ami alfadors to treat for a peace; but the Scots were too much elated with their good forfulliciently humbled to yield to all their demands. The ravages of war were again renewed: the Scots continued their incursions into England, and levied contributions in different places.

In 1315, the English affairs feemed a little to revive. Expedition The Scots, indeed, plundered Durham and Hartlepool, of Edward but they were repulsed from Carlille, and failed in an at-Ireland. tempt on Berwick. The Irish of Ulster, oppressed by An. 1315. the English government, implored the affishance of Robert, and offered to acknowledge his brother Edward as their fovereign; who accordingly landed at Carrickfergus on the 25th of May 1315, with 6000 men .-This was an enterprife evidently beyond the power of Scotland to accomplifit, and this could not but be per-ecived by Robert. There were, however, motives which induced him to confent. The offer of a crown, though ever fo visionary, inflamed the ambition of Edward Bruce, whose impetuous valour difregarded difficulties, however great. It might have been deemed fafe, to have rejected the propofals of the Irifk for the more than he could repay. Befides, the invation of Ireland feemed a proper expedient for dividing the English forces. The event proved unfortunate. Edward, after He is orbeen expected from human nature, was at last defeated and killed by the English, as is related under the article

The king himfelf had gone over into Ireland, in order to affift his brother in attempting the subjection of that country; and during his absence the English had made feveral attempts to diffurb the tranquillity of Scotland. The earl of Arundel invaded the forest of Jed-ful attempts burgh with a numerous army; but being drawn into an f the Eng-Edmund de Carland, a knight of Gascony and gover-land. nor of Berwick, invaded and waited Teviotd le; but while he was returning home loaded with spoil, he was attacked, defeated, and killed by Douglas. By feat the Englith inv ded Scotland, and anchored off Interkeithing in the frith of Forth, where they from after the earl of Eife and the theriff of that county, attempted to op ofe their landing, but were intimidated by the tumber of their enemies. William Sinclair billiop of Dunkerd happened to meet the fugitives; and having by his re roaches obliged them to rally, he led hem on flips with concle at le los. For this exploit Robert conferred the title of the kin or loss p on Sinclair; and he was

the battle of Ban-

Scotland. XXII.) commanding a two years truce between Eng- he would litten to no bulls, till he was treated as king Scotland. land and Scotland, under pain of excommunication. Two cardinals were diffratched into Britain to make known his commands; and they were privately empowered to inflict the highest spiritual censures on Robert Bruce, or whomfoever elfe they thought proper. About the beginning of September 1317, two meffengers were fent to Robert by the cardinals. The king gave them a gracious reception; and after confulting with his barons, returned for answer, that he very much defired a good and lasting peace, either by the mediation of the cardinals, or by any other means. He allowed the open letters from the pope, which recommended peace, to be read in his presence, and listened to them with due respect. But he would not receive the fealed letters addressed to Robert Bruce governor of Scotland, alleging, that there might be many of his barons whose names were Robert Bruce, and that these barons might probably have fome there in the government. therefore, the letters were addressed to him as king of Scotland, he could not receive them without advice of his parliament, which he promifed immediately to affemble on the occasion. The messengers attempted to apologife for the omission of the title of KING, "The holy church was not wont," they faid, "during the dependence of a controverfy, to write or fay any thing which might be interpreted as prejudicial to the claims of Spirited be-either of the contending parties." " Since then," anhaviour of fwered the king, "my spiritual father and my holy mother would not prejudice the cause of my adversary by bestowing on me the appellation of king during the dependence of the controversy, they ought not to have prejudiced my cause by withdrawing that appellation from me. I am in possession of the kingdom of Scotland; all my people call me king; and foreign princes address me under that title; but it seems that my parents are partial to their English son. Had you prefumed to prefent letters with fuch an address to any other fovereign prince, you might perhaps have been answered in a harsher style; but I reverence you as the mellengers of the holy fee."

The messengers, quite abashed with this reply, changed the discourse, and requested the king that he would confent to a temporary cellation of hostilities; but to this he declared, that he never would confent, while the English daily invaded and plundered his people. His counfellors, however, informed the messengers, that if the letters had been addressed to the king of Scots, the negociations would instantly have been opened. This difrespectful omission they imputed to the intrigues of the English at the court of Rome, hinting at the same time that they had received this intelligence from A-

When the meslengers had informed the cardinals of these proceedings, the latter determined to proclaim the papal truce in Scotland; in which hazardous office they employed Adam Newton, guardian of the monastery of Minorites at Berwick, who was charged with letters to the clergy of Scotland, particularly to the bishop of St Andrew's. The monk found the king encamped with his army in a wood near Old Cambus, making preparations for affaulting Berwick. Perforal accels was denied to the king; but the monk, in obedience to his maders, proclaimed the truce by the authotity of the pope. The king fent him for answer, that

of Scotland, and had made himself master of Berwick. The poor monk, terrified at this answer, requested Which is

either a fafe conduct to Berwick, or permission to pass differented into Scotland, and deliver his letters to the Scottiff by the king. clergy. Both were refused; and he was commanded to leave the country without loss of time. He fet out for Berwick; but in his way thither was attacked by robbers, or some who pretended to be so. By them he was stripped and robbed of all his parchments, together with his letters and instructions; the robbers also, it is faid, tore the pope's bull, without any regard to its fanctity.

In 1318, King Robert proceeded in his enterprife Berwick against Berwick, but resolved to employ artifice as well befreged as force in the reduction of it. A citizen of Berwick, and taken by name Spalding, having been ill used by the governor, by the meditated revenge; and wrote a letter to a Scottiff Au. 1318. lord, whose relation he had married, offering on a certain night to betray the post where he kept guard. The nobleman communicated this important intelligence to the king. " You did well," faid Robert, " in making me your confidant; for if you had told this either to Randolph or Douglas, you would have offended the one whom you did not truft: Both of them, however, shall aid you in the execution of the enterprise." The king then commanded him to repair to a certain place with a body of troops; to which place he also gave feparate orders to Douglas and Randolph to repair at the fame hour, each with a body of troops under his command. The forces, thus cautiously affembled, marched to Berwick, and, affilled by Spalding, fcaled the walls, making themselves masters of the town in a few hours. The garrison of the castle, perceiving that the number of Scots was but fmall, made a defperate fally with the men who had fled into the eaftle from the town; but, after an obstinate conflict, they were defeated and driven back, chiefly by the extraordinary valour of a young knight named Sir William Keith of

Galfon .- This happened on the 28th of March 1318. King Robert no fooner heard of the fuccess of his who inforces against the town, that he hastened to lay siege to land with the castle of Berwick. This was soon obliged to capi-great sietulate; after which the Scots entered Northumherland, cels. and took the cassles of Wark, Harbottle, and Mitsord. In May, they again invaded England, and penetrated into Yorkthire. In their progress they burnt the towns of Northallerton, Boroughbridge, Scarborough, and Skipton in Craven, forcing the inhabitants of Rippon to redeem themselves by paying 1000 merks: after which they returned to Scotland with much booty; and, as an

English historian expresses it, " driving their prisoners before them like flocks of theep."

This year the interpolition of the pope was obtained against Robert, with a view to intimidate the Scottish nation; and the two cardinals refiding in England were commanded to excommunicate Robert Bruce and his adherents, on account of his treatment of the messengers of the holy fee, and his affault of Berwick, after a truce had been proclaimed by the papal authority .- This fen-King Rotence was accordingly put in execution, though Robert bert exhad certainly been excommunicated once, if not oftener communibefore. Messengers were sent from Scotland to Rome cated by in order to procure a reversal of the fentence; but Edward dispatched the bishop of Hereford, and Hugh

d'Espencer

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Robert.

composed of timber, and wall worked having flager with Sentent Scotland. d'Espencer the Elder, to counteract this negociation, informing the his holiness at the same time of certain in-

tercepted letters which had been written from Avignon to Scotland; upon which the pope ordered all the Scots refiding at Avignon, and all of that place who had cor-

responded with Scotland, to be taken into custody. The most remarkable transaction of this year, how-

ever, was the defeat and death of Edward Bruce in Ireland: of which an account is given under the article IRELAND, No 42. His body was quartered, and distributed for a public spectacle over Ireland; and his head was prefented to Edward by John lord Bermingham the commander of the English army; in return for which fervice, he was rewarded with the title of earl

of Lowth.

In the mean time Edward, who had fummoned a parliment to meet at Lincoln, was obliged to prorogue it on account of the Scottish invasion, and to affemble an army at York for the defence of his country. At Michaelmas it was determined, in a parliament held at London, that every city and town in England should furnish a certain proportion of men completely armed. Thus a confiderable body of troops was foun raifed; but, when they affembled at York, their party animofities and mutual diffrust role to fuch an height, that it was found necessary to fend them back to their habita-

In 1319, Edward, having succeeded so well in his negociations with the court of Rome, refolved to make fimilar attempts with other powers to the prejudice of the Scottish nation. Accordingly he requested the count of Flanders to prohibit the Scots from entering his country; but to this request he received the following remarkable reply: "Flanders is the common country of all men; I cannot prohibit any merchants from trafficking thither, for fuch prohibition would prove the ruin of my people." Finding himself baffled in this attempt, the English monarch once more determined to have recourse to war; and with this An. 1319. view commanded his army to affemble at Newcastle upon Tyne, on the 24th of July 1319: but before he proceeded, he requested the prayers of the clergy for the fuccess of his expedition; and, to render their prayers the more effectual, he at the same time demanded from

them a great fum of money by way of loan.

Every thing being now in readiness, the English army approached Berwick, which was commanded by by the Eng-Walter the steward of Scotland. This nobleman had long apprehended an attack from the English, and had taken every means of defence in his power. The enemy, however, confiding in their numbers, made a general affault; but were repulled on the 7th of September, after a long and oblimate contest. Their next attempt was on the fide towards the river. At that time the walls of Berwick were of an inconfiderable height; and it was proposed to bring a vessel close to them, from whence the troops might enter by a draw-bridge let down from the mast. But the Scots annoyed the affailants fo much, that they could not bring this veffel within the proper distance; and at the ebb of the tide it grounded, and was hurnt by the hefreged .- The English had then recourse to a newly invented engine which they called a f w, but for what reason is unknown. In many particulars it refembled the telludo arietaria of the ancients. It appears to have been a large fabric in it, and in height furpaffing the wall of the town. It was moved upon wheels, and ferved for the double purpole of conducting the miners to the foot of the wall, and armed men to the fform. This machine was counteracted by one confiructed by John Crab, a Flemith engineer in the Scots fervice. This was a kind of moveable crane, whereby great stones might be raised on high, and then let fall upon the enemy. The Englith made a general affault on the quarter towards the fea, as well as on the land fide; fo that the garrifon, exhausted by continual fatigue, could scarce maintain their posts. The great engine moved on to the walls; and, though stones were incessintly discharged against it from the crane, their effect was fo fmall, that all hope of preferving Berwick was loft. At length a huge perferced stone struck it with such force, that the beams gave by the way, and the Scots pouring down combustibles upon it, Scots, it was reduced to athes. The English, however, still continued the attack. The steward, with a referve of 100 men, went from post to post, relieving those who were wounded or unfit for combat. One foldier of the referve only remained with him when an alarm was given that the English had burnt a barrier at the port called St Mary's, possessed themselves of the draw-bridge, and fired the gate. The steward hastened thither, called down the guard from the rampart, ordered the gate to be fet open, and rushed out upon the enemy. A desperate combat ensued, and continued till the close of the day, when the English commanders withdrew

Notwithilanding this brave defence, it was evident who inthat the town could not hold out long without a speedy vade Engrelief; and Robert could not, with any probability of land. fuccess, attack the fortified camp of the English. He therefore determined to make a powerful diversion in England, in order to oblige Edward to abandon the undertaking. By order of the king, 15,000 men entered England by the western marches. They had concerted a plan for carrying off the queen of England from her residence near York; but being disappointed in this attempt, they laid wafte York thire. The archbishop of York hastily collected a numerous body of commons and ecclefiaftics, with whom he encountered the Scots at Mitton, near Boroughbridge, in the north riding of York-shire. The English were routed; 3200 were left dead on the field, and great part of thole who The Engfled perifhed in the river Swale. In this action 300 ed and the ecclesialties lost their lives. The news of this fuccess- fiege of Berful inroad alarmed the befiegers of Berwick. The wick raifed barons whose estates lay to the fouthward remote from the Scottish depredations were enger for continuing the fiege. But they were opposed by those of the north; who were no less eager to abandon the enterprise, and return to the defence of their own country. With them the earl of Lancaster concurred in opinion; and understanding that his favourite manor of Pontefract was exposed to the ravages of the Scots, departed with all his adherents. Edward on this, drew off the remainder of his army, and attempted to intercept Randolph and Douglas; but they eluded him, and returned in fafety

The unfuccefful event of this last attempt induced Edward feriously to think of peace; and accordingly a truce between the two nations was concluded on the . 2 wit :

again invades Scot-

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nd. 9 of December 1310; which interval it transpollity should be erected in Cumberland, to the north of the Santond. the Scots made use of in addressing a manifesto to the Tyne, or in the counties of Berwick, Roxburgh, or

pope in jutification of their cause. This was drawn un in a fpirited manner, and made a very confiderable alteration in the councils of Rome. The pope, foreleeing that Robert would not be terrified into submissions, ordered Edward to make peace with him in the beft manner he could. A negociation was accordingly let was not renewed, and in 1322 a mutual invation took place. The Scots penetrated into Lancashire by the the returned home with an extraordinary booty; while Ed-Sort d by ward made great preparations for an expedition into the are lift, Scotland, which took place in August the same year. An. 13-2. In this, however, he was not attended with fuccess.

Robert had caused all the cattle to be driven off, and all the effects of any value to be removed from Lothian and the Merfe: fixing his camp at Culrofs, on the north fide of the fifth of Forth. His orders for removing the cattle were fo punctually obeyed, that according to common tradition, the only prey which fell into the hands of the English was a lame bull at Tranent in East Lothian. Edward, however, still proceeded, and penetrated as far as Edinburgh, but without any hopes of fubduing the kingdom. His provisions being confumed, many of his foldiers perished for want; and he was obliged at last to retire without having seen an enemy. On their return, his foldiers burnt the abbeys of Holyrood, Melrofs, Dryburgh, &c. killed many of the monks, and committed many facrileges : but when they returned to their own country, and began again to enjoy a plentiful living, they indulged themselves in such exceffes as were productive of mortal difeases; infomuch Great part that, according to an English historian, almost one half of Elward's of the great army which Edward had brought from irrny de- England with him were destroyed either by hunger or

No fooner were the English retired than they were purfued by the Scots, who laid fiege to the caftle of Norham. Edward lay at the abbey of Biland in Yorkfhire, with a body of troops advantageously posted in the neighbourhood. The Scots, invited, as is faid, by fome traitors about the king's person, attempted to surprife him; and it was with the utmost difficulty that he made his escape to York, abandoning all his baggage and treasure to the enemy. The English camp was Supposed to be accessible only by a narrow pass, but Douglas undertook to force it, and Randolph prefented himfelf as a volunteer in this dangerous fervice under his friend Douglas. The Highlanders and men of the Ifles climbed the precipice on which the English camp flood, and the enemy, were driven out with great loss. their camp. The Scots purfued them to the very gates of York, wafted the country without controll, and returned home un-

> Edward, difficartened by repeated loffes, agreed to a ceffition of aims " with the men of Scotland who were engaged in war with him." But the king of Scotland would not conlent to it in that form; however, he gave his confent, on the proper form being employed, to was concluded on the 30th of March 1323, and was to endure until the 12th of June 1336. It was agreed, that, during the continuance of it, no new fortreffes

cure absolution from the pope; but in case there was no peace concluded before the expiration of the truce, that the fentence of excommunication should revive." The treaty was ratified by Robert, under the flyle of the king of Scotland, 7th June 1323.

The next care of Robert was to reconcile himfelf to

the church, and to obtain from the pope the title of king, which had been fo long denied him; and this, though not without great difficulty, was at last obtained. This year a fon was born to the king of Scotland at Dunfermline, and named David. The court-poets of Birth of the time foretold, that this infant would one day rival David his father's fame, and prove victorious over the Eng-Bruce. lish. But scarcely had this future hero come into the 222 world, when a rival began to make his appearance. Edwar John Baliol, the unfortunate king of Scotland, had long makes his been dead; but left a fon named Edward, heir of his appearance pretentions to the crown. The young prince had re- at the court fided on his paternal estate in Normandy, neglected and of England, forgotten; but in 1324 he was called to the court of An. 1324. England, for the purpole, undoubtedly, of fetting him up as a rival to young David Bruce, in case his father. now broken with fatigues, should die in a short time. The negociations for peace, however, still went on; but the commissioners appointed for this purpose made little progress, by reason of demands for feudal sovereignty still made by the English. The reconciliation with the church was also broken off, by reason of the Scots keeping poffession of Berwick. This had been taken during the papal truce; and Robert thought proper still to lie under the sentence of excommunication rather than to part with fuch an important for-

In the beginning of the year 1327, Edward II. was deposed, and succeeded by his fon Edward III. then in his 15th year. He renewed the negociations for peace, and ratified the truce which his father had made; but hearing that the Scots had refolved to invade England if a peace was not immediately concluded, he fummoned his barons to meet him in arms at Newcastle, and fortified York .- We are not certainly informed of the reasons which induced the Scots at this time to disregard the truce; however, it is certain, that on the 223 15th of June 1327, Douglas and Randolph invaded and Ran England by the western marches, with an army of dolph in-20,000 horiemen. Against them Edward III. led an vade Engarmy, confifting, at the lowest calculation, of 30,000 land. men, who affembled at Durham on the 13th of July, Au. 1327. The Scots proceeded with the utmost cruelty, burning and deflroying every thing as they went along; and on the 18th of the same month, the English discovered them by the fmoke and flames which marked their progrcfs. They marched forward in order of battle to-EdwardIII. wards the quarter where the fmoke was perceived; but, meeting with no enemy for two days, they con-again ft cluded that the Scots had retired. Difencumbering them. themselves then of their heavy baggage, they resolved by a forced march to reach the river Tyne, and, by polling themselves on the north bank of that river, to intercept the Scots on their return. On the 20th of July, the cavalry having left the infantry behind, croffed

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Scotland, the river at Haidon; but before the rest of the army could come up, the river was fo fwelled by fudden rains, that it could no longer be forded; and thus the troops remained divided for feveral days, without any accommodation for quarters, and in the greatest want of pro-visions and forage. The soldiers now began to nurmur; and it was refolved again to proceed fouthwards. The king proclaimed a reward of lands, to the value of 1001, yearly for life, to the person who should first difcover the enemy "on dry ground, where they might be attacked;" and many knights and equires fwam across the river on this strange errand. The army continued its march for three days without any news of the Scots; but on the fourth day, certain accounts of them were brought by an esquire, Thomas Rokesby: who reported, that " the Scots had made him prisoner; but that their leaders, understanding his business, had fet him at liberty; faying, that they had remained for eight days on the same ground, as ignorant of the motions of the English as the English were of theirs, and that they were defirous and ready to combat." With this man for their guide, the English soon came in view of the Scots. They were advantageously posted on a rising ground, having the river Were in front, and their flanks fecured by rocks and precipices. The English dismounted and advanced, hoping to allure the Scots from their strong post; but in vain. Edward then fent a herald to Randolph and Douglas, with a meffage in the style of chivalry: " Either," fays he, " fuffer me to pass the river, and leave me room for ranging my forces; or do you pass the river, and I will leave you room to range yours; and thus shall we fight on equal terms." To this the Scottish commanders answered, " We will do neither. On our road hither we have burnt and fpoiled the country; and here we are fixed while to us it feems good; and if the king of England is offended, let him come over and chaftife us." The armies continued in fight of each other for two

days; after which the English, understanding that their enemies were diffrested for provisions, resolved to maintain a close blockade, and to reduce them by famine. Next day, however, they were furprifed to find that the Scots had fecretly decamped, and taken post two miles up the river in ground still stronger, and of more difficult accefs, amidst a great wood. The English encamped opposite to them near Stanhope park. At midnight Desperate Douglas undertook a most desperate enterprise, resemattempt of Douglas to bling those of the ancient heroes. With 200 horsemen he approached the English camp, and entered it under the guife of a chief commander calling the rounds. Having thus eluded the centinels, he passed on to the royal quarters, overthrew every thing that opposed him, and furiously affaulted the king's tent. The domestics of Edward desperately defended their master; and his chaplain, with many others of his household, were flain. The king himfelf, however, escaped; and Douglas, difappointed of his prey, rushed through the enemy, and effected a retreat with inconfiderable loss .- The following day, the English learned from a prisoner, that orders had been issued in the Scottish camp for all men to hold themselves in readiness that evening to follow the banner of Douglas: on which, apprehending an attack in the night, they prepared for battle, lighting great fires, and keeping a firict watch; but in the morning, they were informed by two trumpeters whom they Vol. XVIII. Part II.

had taken prisoners, that the Scots had decamped be- Scotland. fore midnight, and were returning to their own country. This report could fearcely be credited, and the The Scotarmy remained for some hours in order of battle; but decamp, at length fome fcouts having croffed the river, returned and return with certain intelligence that the Scottish camp was to their totally deferted: which when the young king of Eng-own coan land was certainly informed of, he is faid to have burft into tears. Every preparation had been made by him for oppofing an enemy, and auxiliaries had even been procured at a most enormous expence from Hainault. These auxiliaries consisted of heavy-armed cavalry; and they were now fo much worn out, that they could fearcely move. Their horfes were all dead, or had become unferviceable, in a campaign of three weeks; fo that they were obliged to procure horses to convey them felves to the fouth of England. Edward having refled at Durham for fome days, marched to York, where he difbanded his army. Barbour, a Scots historian, relates, that there was a morafs in the rear of the Scottish camp, which he calls the two-mile morals; that the Scots made a way over it with brushwood, removing it as they went along, that the English might not purlue them by the fame way. The English historians are filled with descriptions of the strange appearance of the deserted camp of the Scots. They found there a number of Ikins stretched between stakes, which served for kettles to boil their meat; and for bread, each foldier carried along with him a bag of oatmeal, of which he made cakes, toasting them upon thin iron plates, which are supposed

to have been part of their armour.

On the return of Douglas and Randolph, the king led his army against the eastern borders, and belieged the castle of Norham. But in 1228, Edward, wearied out with continual losses and disappointments, confented to a perpetual peace between the two kingdoms on the following conditions. I. The stone on The Breaty which the kings of Scotland were wont to fit at the time of Northof their coronation, shall be restored to the Scots. 2. The amptonking of England engages to employ his good offices at An. 1328, the papal court for obtaining a revocation of all spiritual processes depending before the holy see against the king of Scots, or against his kingdom or subjects. 3. For these causes, and in order to make reparation for the ravages committed in England by the Scots, the king of Scots shall pay 30,000 merks to the king of England. 4. Restitution shall be made of the possessions belonging to ecclefiaftics in either kingdom, whereof they may have been deprived during the war. 5. But there shall not be any relitution made of inheritances which have fallen into the hands of the king of England or of the king of Scots, by reason of the war between the two nations, or through the forfeiture of former poffeffors. 6. Johanna, fifler of the king of England, shall be given in marriage to David, the fon and heir to the king of Scots. 7. The king of Scots thall provide the princefs Johanna in a jointure of 2000l. yearly, fecured on lands and rents, according to a reasonable estimation. 8. If either of the parties shall fail in performing these conditions, he shall pay 2000 pounds of filver to the papal treasury. The marriage of the infant prince was celebrated on the 12th of July 1328.

On the 7th of June 1329 died Robert Bruce, un-King Roquestionably the greatest of all the Scottish monarchs, bert dies, His death feems to have been occasioned by the excef- An. 1329

carry off the king of England.

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Scotland, five fatigues of military fervice; and his difeafe, called by the hittorians of those times a leprosy, was probably an inveterate feurvy, occasioned by his way of living. He died at the age of 55. He was married to Habella, daughter of Donald the tenth earl of Marr; by whom he had a daughter named Margery, married to Walter the fleward of Scotland; whole hutband died in 1326. The fecond wife of Robert was Elizabeth, the daughter of Aymer de Burgh earl of Uliter. By her he had a fon, David II.; a daughter named Margaret, married to William earl of Sutherland; another, named Matilda, married to an efquire named Thomas Isaac; and Elizabeth, married to Sir Walter Oliphant of Gask. He had also a natural son named Robert.

a confnira. cy against him.

That King Robert I, was a man of unquestionable virtue and humanity, as well as unequalled in the knowledge of the military art, must be evident from many Account of particulars already related. The only questionable part of his character is his severe punishment of a conspiracy formed against him in the year 1320; a relation of which, to avoid interrupting our detail of more important matters, we have deferred till now .- The chief of the conspirators were William de Soulis, whose ancestor had been a candidate for the crown of Scotland; the countefs of Strathern, and some other persons of high rank. The countels discovered the plot; after which Soulis confessed the whole, and was punished with perpetual imprisonment; as well as the counters, notwithstanding her having made the discovery. Gilbert de Malverb and John de Logie, both knights, and Richard Brown an esquire, were put to death as traitors: but the person most lamented was Sir David de Brechin, for his bravery fivled the flower of chivalry. He was nephew to the king, and ferved with great reputation against the Saracens. To him the conspirators, after having exacted an oath of fecrecy, revealed their defigns. He condemned their undertaking, and refused to share in it; but did not discover it, on account of the oath he had taken. Yet for this concealment he was tried as a traitor, condemned and executed, without regard to his personal merit or his relationship to the king. The conspirators were tried before the parliament at Scone in 1320; and this felfion, in which fo much blood was shed, was long remembered by the people under the name of the black parliament. Whether there was any thing real in this conspiracy, or whether the king only made use of this pretence to rid himself of fuch as were obnoxious to him, cannot now be known with certainty.

The reign of Robert Bruce is diffinguished by great Scotland at efforts, and occasioned considerable changes both in of Robert L property and in power, though it is treated by historians rather as a period of romantic adventures, than as an age of uncommon revolutions. However few and unimportant were his first supporters when he fet out for Scone, he was crowned with the applause of an indignant people. His successes, when he began to try his skill and valour against such gallant soldiers as the Englith, were not equal either to his views or his expectations. It was the battle of Bannockburn that decided the fate of Bruce, and secured the independence of Scotland. After many conflicts of various success, the English government was induced to acknowledge the regal title of Bruce and the independence of the Scottish nation.

The revolution that took place when the Saxon race Se stand of kings afcended the throne of Scotland, was fearcely greater than the changes which happened under the great restorer of the Scottish monarchy. Some of the moit eminent families in North Britain fell before the fortune of Bruce, and forfeited their all to his offended laws. Many subordinate barons, who ewed fealty to those unfortunate families, rose on their ruined estates, and thus ceased to be vailals to superior lords. Some of the greatest offices, which had been hereditary in those eminent houses, passed, with large possessions, into new families, and railed them to unwonted greatness. It is not perhaps too much to fay, when we affert, that one half of the forfeited lands of Scotland were conferred on new proprietors, who gave a different call to the population of a mixed people. It was the fault of Bruce. that he sometimes sacrificed his policy to his gratitude; but, much as the gratitude or munificence of that great prince bellowed on those who had tought by his fige in many a conflict, he attempted not to deprive thole who were innoxious to law of their possessions. Yet we have been told, that, in order to check the growing power of his nobles, he furamoned them to flew by what right they held their lands, and, that in reply to this inquiry, they drew their fwords, and exclaimed, " By thele we acquired our lands, and with thefe we will defend them." This brilliant passage, which has made such a figure in the fabulous hittory of thole times, and has been brought forward by the rhetoricians of the prefent day as a beautiful instance of the effect of passion in inverting the usual order of words, appears to have little foundation in historic truth. We have no example of any man in Scotland claiming lands by right of conquest; and, during the reigns of Bruce and his fon David, there was no other right to lands, except ancient

possession, or the grant of the king \*. As the accession of Robert Bruce forms a new and mers's Cabrilliant era in the history of Scotland, it may be proper, indonia,

before we proceed in our narration, to take a general vol. i. view of the state of manners in North Britain during the interval that elapfed from the 11th to the 14th century. In this inquiry, we must carefully diffinguish between the Gaelic and English inhabitants of Scotland. The former were the most numerous during the whole of this period. The government was administered by Scoto-Saxon kings, on Anglo-Norman principles; with the affiftance of Anglo-Saxon barons. To thefe fources must be traced the maxims of the governors and the customs of the governed. Chivalry, with its notions and pursuits, was no sooner introduced into England by the Normans, than it was adopted by the Scoto-Saxon inhabitants of North Britain. Before the reign of Malcolm IV. it had become a fort of maxim, that a prince could scarcely be confidered as a king before he had received the honour of knighthod; and before the accesfion of Alexander III. this maxim was fo fully established, that it was deemed unfit, or perhaps unlawful, to crown their fovereign before he had been knighted. The barons, in this respect, followed the example of their fovereigns, by feeking knighthood, at the peril of life, through many a bloody field. Thus chivalry, which had been unknown in Celtic Scotland, was fully established before the time of Robert Bruce; and armorial bearings were univerfally worn by the nobility. Before the conclusion of this period, the Scottish bi5. otland. Thops quartered the arms of their families, with the badges of their fees; but the establishment of heralds. with a lord-lyon at their head, is of a much more modern date.

The mode of living, the virtues, the vices, of the ordinary claifes of people, both in South and North Britain, were nearly the fame, as they were of the fame extraction. The manners of the nobles were warlike, and their diversions were analogous to their manners. Of these, tournaments were the most splendid; hunting and hawking, the most frequent amusements. The kings were the great hunters, in imitation of the Norman fovereigns of England; and they had in every county a vast forest, with a castle, for the enjoyment of their favourite sport. Attached to every forest there was a forester, whose duty it was to take care of the game. The bithops and barons had alto their foresters, with fimilar powers. The king had his falconer; an office which, like that of fleward and fome others, gave a furname to one of the principal families of Scot-

Of the domestic pastimes of those rustic ages, there are but few notices. When David led his army to the battle of the Standard (fee Nog2.), his varied people were amused by gestures, dancings, and buffoons. amusements of the same classes of people, in the two kingdoms, were pretty much the same during those congenial ages. As the English kings had their minstrels, fo the Scottish kings had their harpers and their trum-

The education of fuch a people was fimilar to their manners. As early as the reign of David I, public schools feem to have existed in the principal towns of North Britain. The monks, who were ambitious of engroffing the education of the youth, obtained grants of the principal feminaries; and the children of the most honourable parents were educated in the monasteries. The abbots had fufficient liberality to encourage the studies of the monks, in order to qualify them for becoming the instructors of youth.

It may be easily supposed, that the speech of the inhabitants derived a tinge from that of their mafters, who were not always natives of North Britain. At the beginning of the present period, the universal language of Scotland, if we except the district of Lothian, was Gaelic; but, towards the end of this period, the language was confiderably changed, especially in the fouthern districts, where it was much the same as that spoken in South Britain in the 11th and 12th centuries.

The manners which were most remarkable, and attended with the most lasting effects, were produced by that religious zeal which prevailed among all ranks of men, from the highest to the lowest. All were active to endow or to enrich a monastery, according to their circumstances; and many persons of rank were studious to be received into the fraternity of fome ecclefiastical community. It was thought an object of great confequence to be buried in the confecrated ground of some religious house; and, to obtain this end, many lands and other property were bestowed upon the monks. Every monastery had its roll of benefactors, and many a heart beat with defire to be added to the facred lift. Feafts were made, and maffes faid, for the fouls of those persons who had made the largest donations to the monks; and particular monks were fometimes maintain-

ed to pray for the foul of the giver. The fame enge- worked tic principle, which induced the people of that religious age to build chapels and erect churches, prompted them to found magnificent cathedrals, and to delight in the parade of splendid worthip. The age was warlike as well as religious. The dignified clergy did not feruple to put on armour with their caffees. The bithops and abbots, as well as the barons, had their efquires and armour-bearers, whom they rewarded with lands.

In the wars of these times, defensive armour was not commonly worn by the Scottish foldiers. The people retained the weapons of their ancestors, and their only defence was a buckler or target of leather. Their chief offensive weapons were, a spear of enormous length, and fwords of unfkilful workmanship. Their men-at-arms, or cavalry, were accounted like the fame class of foldiers in England, as they were the descendants of Eng-

After the death of Robert, the administration was af-Randolph fumed by Randolph, in confequence of an act paffed in appointed 1318, by which he was appointed regent in case of the regent. king's death. In his new character he behaved himfelf in a most exemplary manner; and by impartially difcharging the duties of his flation, and rigidly administering justice, he secured the public tranquillity in the most perfect manner. A severe exercise of justice was now rendered indispensable. During a long course of war, the common people had been accustomed to plunder and bloodshed; and having now no English enemies to employ them, they robbed and murdered one another. The methods by which Randolph repressed His excelthese crimes were much the same with those which have been adopted in latter times; for he made the counties liable for the feveral robberies committed within their bounds. He even ordered the farmers and labourers not to house the tools employed by them in agriculture during the night-time, that the fheriff's officers might be the more vigilant in fecuring them. He gave orders for feverely punishing all vagabonds, and obliged them to work for their livelihood; making proclamation, that no man should be admitted into a town or borough who could not earn his bread by his labour. These regulations were attended with the most falutary effects. A fellow who had fecreted his own plough-irons, pretending that they were stolen, being detected by the sheriff's officers, was inflantly hanged. A certain man having killed a priest, went to Rome, and obtained absolution from the pope; after which he boldly returned to Scotland. Randolph ordered him to be tried, and, on his conviction, to be executed: " Because," faid he, " although the pope may grant absolution from the spiritual consequences of sin, he cannot screen offenders from civil punishment."

King Robert, just before his death, had defired that Douglas his heart might be deposited in our Saviour's sepulchre sets at the at Jerusalem; and on this errand the great commander the Hab Douglas was employed, who fet fail in June 1330 with King Rha numerous and fplendid retinue. He anchored off Sluys bert's hears in Flanders, the great emporium of the Low Countries, An. 13 where he expected to find companions in his pilgrimage; but learning that Alphonso XI, the young king of Leon and Castile, was engaged in a war with O.myn the Moor, he could not refut the temptation of fighting against the enemies of Christianity. He met with an honourable reception at the court of Spain, and readily

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in Spain.

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Scotland.

Baliol

Scotland, obtained leave to enter into what was thought the common cause of Christianity. The Spaniards first came in fight of their enemy near Theba, a castle on the frontiers of Andalufia, towards the kingdom of Granada. The Moors were defeated; but Douglas giving way to his impetuous valour, purfued the enemy too eagerly, and throwing among them the casket which contained the heart of his fovereign, cried out, " Now pass thou onward as thou wert wont; Douglas will follow thee Is killed by or die." The fugitives rallied and furrounded Dougthe Moors las; who, with a few of his followers, was killed in at-

tempting to rescue Sir Walter St Clair of Roslin. His body was brought back to Scotland, and interred in the church of Douglas. His countrymen perpetuated his memory by bestowing upon him the epithet of the good Sir James Douglas. He was one of the greatest commanders of the age; and is faid to have been engaged in 70 battles, 57 of which he gained, and was defeated in 13 .- Of him it is reported, that meeting with an officer at the court of Alphonfo, who had his face quite disfigured with fears, the latter faid to him, " It aftonishes me, that you, who are faid to have seen so much fervice, should have no marks of wounds on your face." "Thank heaven," answered Douglas, "I had

always an arm to protect my face."

In 1331, Edward Baliol began to renew his pretenfions to the crown of Scotland, about the fame time that David II, and his confort Johanna were crowned at Scone; which ceremony was performed on the 24th of November. Some historians relate, that he was ex-An. 1331. cited to this attempt by one Twynham Lowrison, a person who had been excommunicated for refusing to do penance for adultery, and afterwards was obliged to fly on account of his having way-laid the official, beaten

him, and extorted a fum of money from him. But however this be, it is certain, that in this year differences began to arise with England, on the following

account. It had been provided by an article of the

treaty of Northampton, that " Thomas Lord Wake of Scotland-Ledel, Henry de Beaumont, called earl of Buchan, and Henry de Percy, should be restored to their estates, of which the king of Scots, by reason of the war between the two nations, had taken possession." This article had been executed with respect to Percy, but not to the other two; and though Edward had repeatedly complained of this neglect, he could not obtain any fa-

tisfaction (G).

The difinherited barons now refolved to invade Scotland, though their force confifted of no more than 3000 infantry, and 400 men at arms. Edward would not permit them to enter Scotland by the usual way, as he himself did not yet choose openly to take part in their quarrel. For this reason they were obliged to take shipping, and landed at a place called Ravenshare, Ravenspur, or Ravensburgh, at the mouth of the Humber. Randolph, having intelligence of the English preparations, had marched an army to the frontiers of East Lothian; but, being afterwards informed of the naval armament, he marched northwards; but died at Muffelburgh, fix miles east of Edinburgh, on the 20th of July 1332. With him died the glory of Scotland. The Randolph earl of Marr, a man whole only merit confilled in his the regent being related to the royal family, was chosen to succeed dies. him in the regency.—Edward, in the mean time, fell An. 1332. on a most curious expedient to show the justice of his cause. In March 1332, he had published a prohibition for any person to infringe the treaty of Northampton. The difinherited lords had been suffered to embark, expressly for the purpose of invading Scotland, after this prohibition was published. After they were gone, Henry de Percy was empowered to punish those who should prefume to array themselves in contempt of his prohibition; and because he understood that the Scots were arming in order to repel those invaders whom Edward had indirectly fent against them, he empowered Henry de Percy to arm against them.

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(G) As this is an important period of history, we shall here transcribe the opinion of Lord Hailes concerning the causes of this strange delay of executing an article seemingly of little importance where a nation was concerned. " By the treaty of Northampton (fays he), all the claims of the English barons to inheritances in Scotland were difregarded, excepting those of Henry de Percy, Thomas Lord Wake of Ledel, and Henry de Beaumont. Percy procured fatisfaction : but the others did not.

"The demand was unexpected and alarming. Made at the very moment of the fall of Isabella and Mortimer, and in behalf of men who had loudly protefted against the treaty of Northampton, it indicated a total and perilous change in the fystem of the English.

"Randolph, of late years, had beheld extraordinary viciffitudes in England. The D'Espensers alternately perfecuted and triumphant, and at length abased in the dust: The fugitive Mortimer elevated to supreme authority, victorious over the princes of the blood-royal, and then dragged to a gibbet. Hence it was natural for Randolph to wish, and even to look, for some new revolution, which might prove more favourable to the Scottish interests. Meanwhile,

<sup>&</sup>quot; Henry de Beaumont, in the reign of Edward II. had affociated himfelf with the nobility against the D'Espenfers, and on that account had fuffered imprisonment and exile. He aided Queen Isabella in the invasion which proved the cause of the deposition, captivity, and death of her husband. Although, under the administration of Mortimer, he had obtained a share in the partition of the spoils of the D'Espensers, he persisted in opposing the measures of the new favourite; and although his own interests were secured by the treaty of Northampton, he boldly exclaimed against the injustice done to the other barons by that treaty. He joined the princes of the bloodroyal in their attempt to refcue the young king from the hands of Isabella and her minion, and place him in their own; and, on the failure of that ill advised conspiracy he again took refuge in foreign parts. It appears that Lord Wake, having followed the political opinions of Henry de Beaumont, was involved in like calamities and difgrace. While the queen-dowager and Mortimer retained their influence, the claims of those two barons were altogether overlooked: But within 48 hours after the execution of Mortimer, a peremptory demand was made by Edward III. to have their inheritance restored

Scotland.

at King-Scots.

On the 31st of July, Edward Baliol and his affociates landed in the neighbourhood of Kinghorn, on the Baliol lands Forth; routed the earl of Fife, who opposed them; and marched next day to Dunfermline. Having then ordered his fleet to wait for him at the mouth of the defeats the Tay, he proceeded northwards, and encamped on the Miller's acre at Forteviot, with the river Earn in front. Nothing, however, could be more dangerous than his present situation, and his destruction seemed to be inevitable. The earl of Marr was encamped with a numerous army on the opposite bank of the river Earn. in the neighbourhood of Duplin; and another, nearly as numerous, had advanced from the fouth, through the Lothians and Stirlingshire, and fixed its quarters at Auchterarder, eight miles to the west of Forteviot. Historians differ as to the number of the two armies. Fordun fays, that the regent had with him 30,000 men, and the earl of March as many; and that Baliol had between 500 and 600 men at arms, that is, horsemen completely armed. Hemingford reckons each of the Scots armies at 40,000, and Baliol's at 500 armed men. Knyghton fays, that Baliol, when he landed in Fife, had 300 armed men, and 3000 more of different forts; but that he had in all only 2500 men in his camp at Earn. In this desperate fituation, the English general formed a design of attacking the Scots in their camp. They were directed to a ford by Andrew Murray of Tullibardine. The Scots kept no watch, but abandoned themselves to intemperance and riotous mirth; while their enemies, led by Alexander Moubray, croffed the river at midnight. They afcended a rifing ground, came unperceived on the right flank of the Scottish army, and made a dreadful flaughter. At the first attack, young Randolph hasted with 300 men at arms to oppose the enemy; and being seconded by Murdoch earl of Menteith, Alexander Fraser, and Robert Bruce natural fon to the late king, he gave a check to the English, and maintained the combat on equal terms, But now the regent himself, along with the whole multitude, rushed forward to battle without the least order : fo that while the hindmost pressed on, the foremost were thrown down, trodden upon, and fuffocated. The flaughter lasted many hours, and the remains of this vast army were utterly dispersed. Many men of eminence

were killed; among whom were Donald earl of Marr, Scotland, author of the whole catastrophe; Thomas earl of Moray, Murdoch earl of Menteith, Robert earl of Carrick, Alexander Fraser, and Robert Bruce. The flaughter of the infantry and of the men at arms was very great; the most probable accounts make it 2000 men at arms, and upwards of 13,000 common foldiers. The lofs of the English was inconsiderable.

The day after this victory, Baliol took possession of Farther Perth; and, apprehending an attack from the earl of success of March, caused the ditch to be cleared, and the town to be fortified with pallifadoes. The first information which the earl received of this dreadful defeat was from a common foldier, who fled from the place mortally wounded. When this poor wretch came up, he had time to do no more than to show his wounds; after which he fell down, and expired. On his arrival at the field of battle, he found a dreadful confirmation of the intelligence given by the foldier; but inflead of taking his measures with any prudence, he and his men hurried on to Perth, actuated only by a blind impulse to revenge. At first they defigned to affault the place; but their hearts failing them, they next determined to reduce it by famine. This, however, could not be done unless the Scots were masters at sea. John Crab, the Flemish engineer (who had distinguished himself by destroying the famous engine called the fow at the fiege of Berwick), had continued for many years to annoy the English on the eastern coasts. After the blockade of Perth was formed, he came with ten vessels to the mouth of the Tay, where the English fleet was, and took the ship belonging to Henry de Beaumont; but foon after all his ten veffels were burnt by the English in a general engagement. Af-He is ter this the blockade of Perth was railed, the earl of crowned March disbanded his army, and Edward Baliol was Scotland, crowned king of Scotland at Scone, on the 24th of September 1332.

The new monarch was no fooner put in possession of the kingdom, than he left Perth in the hands of the earl of Fife, while he himfelf repaired to the fouthern parts of the kingdom. But the party of King David was far from being extinguished. Baliol was scarcely gone, when the town of Perth was surprised, and its

fortifications

Meanwhile, with great reason and good policy, he delayed the restitution of the inheritances claimed under the treaty of Northampton, in behalf of the avowed oppolers of that treaty.

"Befides, it was necessary for Randolph to be assured that the English, while they urged the performance of one article of that treaty, did, on their part, fincerely purpose to perform its more important articles, by continuing to acknowledge the fuccession in the house of Bruce, and the independency of the Scottish nation.

" Of this, however, there was much reason to doubt. For the English king had taken Baliol under his protection, and had granted him a passport to come into England, with permission to reside there during a whole year, (10th October 1330). These things had no friendly or pacific appearance.

"Be this as it will, the event too fatally justified the apprehensions of Randolph; for, while Edward III. was demanding restitution of the estates reserved by the treaty of Northampton, his subjects were arming in violation of that treaty.

" It is remarkable, that, on the 24th March 1331-2, Edward appears to have known of the hostile association of the difinherited barons. His words are, 'Quia ex relatu accepimus plurimorum, quod diversi homines de regno nostro, et alii (meaning Baliol and his attendants), pacem inter nos, et Robertum de Brus, nuper Regem Scotorum, initam et confirmatam infringere machinantes, diversas congregationes hominum ad arma indies faciunt, et, per marchias regni nostri, dictam terram Scotice, ad cam modo guerrino impugnandum, ingredi intendunt; Fredera, tom. iv. p. 511. And yet, on the 22d April following, he demanded restitution of the inheritance of Lord Wake,, one of the barons in arms;" Fædera, tom. iv. p. 518.

Scotland, fortifications razed, by James Fraser, Simon Fraser, and Robert Keith. The earl of Fife was made prifoner, with his family and vaffals. Andrew Murray of Tullibardine, who had directed the English to a ford on the river Earn, was put to death as a traitor. Such of the Scots as still adhered to the interest of their infant prince, chose Sir Andrew Murray of Bothwell regent. He was a brave and active man, but had not as yet fufficient force to attempt any thing confiderable.

241 His thameour.

In the mean time, Baliol behaved in a most scandaful behavi- lous manner. At Roxburgh, he made a folemn furrender of the liberties of Scotland; acknowledged Edward for his liege-lord; and, as if this had not been fufficient, he became bound to put him in possession of the town, castle, and territory of Berwick, and of other lands on the marches, extending in all to the yearly value of 2000l. " on account," as the instrument bears, " of the great honour and emoluments which we have procured through the fufferance of our lord the king, and by the powerful and acceptable aid which we have received from his good subjects." He also proffered to marry the prince's Johanna, whom he confidered as only betrothed to David Bruce, and to add 500l. to her jointure; and this under the penalty of 10,000l. to be appropriated as a portion to the young lady, or otherwise disposed of for her behoof. He further engaged to provide for the maintenance of David Bruce as the king of England should advise; and, lastly, he became bound to ferve Edward in all his wars, excepting in England, Wales, and Ireland, for the space of a year together, with 200 men at arms, and all at his own charges; and he bound his fuccessors to perform the like fervice with 100 men at arms. But afterwards Edward having engaged to maintain him on the throne of Scotland, Baliol bound himself to serve him in all his wars whatever.

Though the greatest part of the nation submitted to this shameful treaty, it roused the indignation of those who wished well to the liberties of their country. John, the fecond fon of Randolph, now earl of Moray by the death of his brother; Archibald, the youngest brother of the renowned Douglas; together with Simon Fraser, assembled a body of horsemen at Mosfat in Annandale; and, fuddenly traverling the country, ind fur. affaulted Baliol unexpectedly at Annan. His brother y fed, and Henry made a gallant refiftance for fome time; but Scotland, gestler with overal other perfore of diffinction. Balled gether with feveral other persons of distinction. Baliol himfelf escaped almost naked, with scarcely a single attendant, and fled to England. After his departure, the Scots began to make depredations on the English frontiers. Edward issued a proclamation, in which he folemnly averred, that the Scots, by their hostile depredations, had violated the peace of Northampton. Baliol, in the mean time, being joined by fome English barons, returned to Scotland; took and burnt a castle where Robert de Colville commanded; and, establishing his quarters in the neighbourhood of Roxburgh, began to make preparations for belieging Berwick. Just after his arrival, Archibald Douglas, with 2000 men, invaded England by the western marches, plundered the country, and carried off much booty; in revenge for which, Sir Anthony de Lucy made an inroad into Scotland, defeated and took prifoner Sir William Dou-

glas, celebrated in history by the appellation of the Scotland. knight of Liddesdale, whom Edward caused to be put in irons. About the same time, Sir Andrew Murray the regent attacked Baliol, with a view to discomfit him before the reinforcements which he expected out of England could arrive. A sharp conslict ensued at Rox-The Sorts burgh, in which the regent, attempting to rescue a fol-regent dedier, was taken prisoner : and thus Scotland was at once leated and deprived of its two ablest commanders.

Archibald Douglas was now declared regent; and foner. Edward prepared to invade Scotland, in order to take vengeance on its inhabitants, as he faid, for the wrongs they had done, and to feek fuch redrefs as might feem good to himself. He ordered possession to be taken of the ifle of Man in his own name; and foon after made it over to Sir William de Montague, who had fome claim of inheritance in it. The chief design of Edward in this expedition, however, was to obtain possession of the town of Berwick, which had been 244 already ceded to him by Baliol. This appeared to Berwick the Scots a place of no less importance than it did to befieged by Edward; and therefore they took all the precautions life. in their power to prevent the loss of it. The earl of March was appointed to command the castle, and Sir William Keith the town. The Scots made an obfiinate defence; yet it was evident that they must foon have yielded if they had not been relieved. At length the regent, with a numerous army, appeared in the neighbourhood. He endeavoured to convey fuccours into the town, or to provoke the enemy to quit the advantage of the ground, and engage in battle. But all his efforts were in vain; the English obstructed every pasfage, and stood on the defensive.

The regent then entered Northumberland, wasted the The Scots country, and even affaulted Bamborough-caftle, where invade Philippa the young queen of England had her refidence. Northum-He fondly imagined that Edward III. would have aban-vain. doned the fiege of Berwick, after the example of his father, in circumstances not distimilar. Edward, however,

persevered in his enterprise.

During a general affault, the town was fet on fire, and in a great measure consumed. The inhabitants having experienced the evils of a fiege, and dreading the greater evils of a florm, implored the earl of March and Sir William Keith to feek terms of capitulation. A truce was obtained; and it was agreed, that the town and castie should be delivered up on terms fair and honourable, unless succours arrived before the hour of velpers on the 19th July.

By the treaty, Sir William Keith was permitted to have an interview with the regent. He found him with his army in Northumberland; urged the necessity The Scots of his return; and showed him, that Berwick, if not in-resolve to stantly relieved, was lost for ever. Persuaded by his im-come to an portunities, the regent resolved to combat the English, engage

and either to fave Berwick or lofe the kingdom.

On the afternoon of the 19th of July, the regent prepared for battle. He divided his army into four bodies. The first was led by John earl of Moray, the son of Randolph; but as he was young and inexperienced in war, James and Simon Frafer, foldiers of approved regutation, were joined with him in the command. The fecond body was led by the fleward of Scotland, a youth of 16, under the inspection of his uncle Sir James Stewart of Rosyth. The third body was led

Scotland- by the regent himfelf, having with him the earl of Carrick and other barons of eminence. The fourth body, or referve, appears to have been led by Hugh

earl of Rofs.

The numbers of the Scottish army on that day are variously reported by historians. The continuator of Hemingford, an author of that age, and Knyghton, who lived in the fucceeding age, afcertain their numbers with more precision than is generally required in historical facts.

The continuator of Heminoford minutely records the numbers and arrangement of the Scottish army. He fays, that, befides earls and other lords or great barons, there were 55 knights, 1100 men at arms, and 13,500 of the commons lightly armed, amounting in all to 14,655.

With him Knughton appears to concur, when his narrative is cleared from the errors of ignorant or care-

less transcribers.

It is probable, however, that the fervants who tended the horses of persons of distinction and of the men at arms, and the utcless followers of the camp, were more

numerous than the actual combatants.

The English were advantageously posted on a rising ground at Halidon, with a marthy hollow in their front. Of their particular disposition we are not informed, farther than that Baliol had the command of

one of the wings.

It had been provided by the treaty of capitulation. "That Berwick should be considered as relieved, in case 200 men at arms forced their pailage into the town." This the Scottish men at arms attempted; but Edward, aware of their purpose, opposed them in person, and repulsed them with great slaughter. The Scottish army rushed on to a general attack; but they had to defcend into the marfly hollow before mounting the eminences of Halydon. After having struggled with the difficulties of the ground, and after having been incessantly galled by the English archers, they reached the enemy. Although fatigued and disordered in their ranks, they fought as it became men who had conquered under the banners of Robert Bruce. The English, with equal valour, had great advantages of fituation, and were better disciplined than their antagonists. The earl of Ross led the reserve to attack in flank that wing where Baliol commanded; but he was repulsed and ilain. There fell with him Kenneth earl of Sutherland, and Murdoch earl of Menteith.

In other parts of the field, the events were equally difastrous. The regent received a mortal wound, and the Scots everywhere gave way. In the field, and during a pursuit for many miles, the number of slain and prisoners was so great, that few of the Scottish army el-

caped.

Besides the earls of Ross, Sutherland, and Menteith, there were among the flain Malcolm earl of Lenox, an aged baron; he had been one of the foremost to repair to the standard of Robert Bruce, and his last exertions were for his country: Alexander Bruce earl of Carrick, who atoned for his short defection from the family of his benefactor; John Campbell earl of Athol, nephew of the late king; James Fraser, and Simon Fraser; John de Graham, and Alexander de Lindelay, Alan Stewart, and many other persons of eminent rank,

The Steward had two uncles, John and James. John Scotland. was killed, and James mortally wounded and made pri-

The regent, mortally wounded, and abandoned on the field of battle, lived only to fee his army difcom-

fited and himfelf a prifoner.

This victory was obtained with very inconfiderable loss. It is related by the English historians, that on the fide of their countrymen, there were killed one knight, one esquire, and twelve foot-foldiers. Nor will this appear incredible, when we remember, that the English rank, remained unbroken, and that their archers, at a secure distance, incessantly annoyed the Scottith infantry.

According to capitulation the town and castle of Ber. Berwick wick furrendered, and the English king took 12 hostages, and almost

for fecuring the fidelity of the citizens.

Thus was the whole of Scotland reduced under the inbmits. fubjection of Baliol, excepting a few fortreffes; fo that it became necessary to provide for the fafety of the young king and queen. Accordingly, they were conveved to France, where they were honourably entertained. Meanwhile, Baliol employed himielf in making new concessions to his liege lord Edward; and in 1334 the work of submission was completed by a iolenm inftrument drawn up by Baliol, in which he furrendered great part of the Scottish dominions, to be for ever annexed to the crown of England. In this inftru- Mean fubment Baliol faid, that " he had formerly become bound miffions of to make a grant to Edward of lands on the marches, Baliol. to the amount of two shoufand-pound lands; that the An. 1334. Scottish parliament had ratified his obligation; and that he had accordingly furrendered Berwick and its territory; and now, for completely discharging his obligation, he made an absolute surrender to the English crown of the forests of Jedburgh, Selkirk, and Estrick; of the counties of Roxburgh, Peebles, and Dumfries; together with the county of Edinburgh, and the constabularies of Linlithgow and Haddington." This extraordinary furrender was made with fo much precipitation, that Baliol forgot to except his own private eftate out of it. This, however, was generously restored to him by Edward; who proclaimed, that, " having already received fatisfaction in full, he had too much reverence for GoD, justice, and good faith to man, to allow the cellion to be prejudicial to the private rights of the king of Scots." At the fame time, Baliol prefented himfelf before his liege-lord; did homage, and fwore fealty, " for the whole kingdom of Scotland and the ifles adjacent."

A quarrel now arole among the difinherited lords, A quarrel to whom this revolution had been owing, which pro-among the duced the worst consequences to the interest of Baliol, English dis-The brother of Alexander de Moubray died, leaving lords. daughters, but no iffue-male. Moubray having claimed a preference to the daughters of his brother, Baliol countenanced his fuit, and, as it appears, put him in possession of the inheritance. Henry de Beaumont earl of Buchan, and David de Strathbolgie or Hastings, earl of Athol, espouled the cause of the heirs-general; but perceiving that their folicitations were not heard, they left the court in difgutt, and retired to their cafiles about the end of August 1334. Baliol foon per-

ceived his error in offending these two powerful lords;

and in order to regain their favour, difmified Moubray,

248 The Scots defeated. and the regent killed.

247 Battle of

Halidon.

Scotland, and conferred on David de Strathbolgie the whole

effates of the young Steward of Scotland. Thus he alienated the affections of Moubray, and added to the power of the earl of Athol, who was by far too power-

ful before.

252 Baliol's party every where defeated.

About this time Sir Andrew Murray of Bothwell, having regained his freedom, began to affemble the friends of liberty, and was immediately joined by Moubray. In a moment every thing was in confusion. Geffrey de Moubray, governor of Roxburgh, revolted; Henry de Beaumont was belieged in his caltle of Dundarg by Murray and Moubray, and forced to furrender, but obtained liberty to depart into England. Richard Talbot, endeavouring to pass into England with a body of troops, was defeated and taken prisoner by Sir William Keith of Galiton. The Steward of Scotland, who had lain concealed in the ifle of Bute ever fince the battle of Halidon, now passed over to the castle of Dunbarton, which was one of the few forts remaining to King David. With the affiftance of Dougal Campbell of Lochow, he made himfelf mafter of the caftle of Dunoon in Cowal. His tenants of the ifle of Bute attacked and flew Alan de Lile the governor, and presented his head to their masser. John the fon of Gilbert, governor of the castle of Bute, was made prifoner in the action. He ordered the garrifon to furrender, and attached himfelf to the Scottish interest. Encouraged by these successes, the Steward entered his ancient inheritance of Renfrew, and compelled the in-habitants to acknowledge the fovereignty of David. Godfrey de Ross, the governor of Ayrshire, submitted to the Steward. The earl of Moray returned from France, whether he had fled after the battle of Halidon, and was acknowledged regent along with the Steward. The earl, having railed a body of troops, murched against the earl of Athol, compelled him to retire into Lochaber, and at last to surrender; after which he embraced the party of the conquerors. Baliol was now obliged to retire again into England, in order to folicit affiltance from Edward; and this was onteins the readily granted. Edward himself took the field at a very unfavourable feafon for military enterprifes. His army was divided into two parts. With the one Edward wasted Lothian, while Baliol did the like in Anandale with the other; and, in the mean time, Patrick earl of March, notwithitanding the unfavourable posture of affairs, renounced the allegiance he had fworn to England, His motive for this was, that though the kings of England had maintained him in an independency dangerous to Scotland, he was affured that they would never permit him to become formidable in a country which they themfelves possessed.

-Lochleven castle unfuccefsfully befieged by the Englifh.

He retires

into England, and

Edward.

The year 1335 is remarkable for the fiege of Lochleven castle by the English, under John de Strivelin. This fort is built on a fmall island, and very difficult of access. The English commander erected a fort in the cemetery of Kinrofs; and at the lower end of the An. 1335. lake, from whence runs the stream called the Water of Leven, he raifed a strong and lofty bulwark, by means of which he bored to lay the island under water, and oblige the garrifon to furrender. But four of the Scots foldiers, having found means to approach the bulwark undifcovered, pierced it fo dexteroufly, that the waters, rushing out with a prodigious force, overflowed part of the English camp; and the garrison,

fallying out under the confusion occasioned by this Scotland. unexpected inundation, stormed and plundered the fort at Kinrofs. At this time the English commander, with many of his foldiers, happened to be abfent at Dunfermline, celebrating the festival of St Margaret. On his return, he fwore that he would never defitt till he had taken the place, and put the garrison to the fword; but his utmost efforts were at last baffled, and he was obliged, notwithstanding his oath, to defift.

In the mean time, the regents affembled a parliament at Dairly, near Cupar in Fife; but no plan of defence could be fixed on, by reason of the animosities and factions which prevailed among the barons. Through the mediation of the French, fome terms of peace were proposed; but being rejected by the English, Edward again invaded Scotland, cruelly ravaging the country with one army, while Baliol and the earl of Warrene did the fame with another. Soon after the invalion, Count Guy Count Guy of Namur landed at Berwick with a confiderable num- of Namur ber of men at arms in the fervice of the English. He defeated advanced to the neighbourhood of Edinburgh; but was and taken defeated and taken prisoner by the earls of March and Moray, and Sir Alexander Ramfay. In this engagement, one Richard Shaw, a Scottish esquire, was fingled out by a combatant in the army of Count Guy, and both pierced each other with their spears; the stranger being stripped, was discovered to be a woman. The earl of Moray treated Guy with the greatest respect, The Scots not only allowing him and the remainder of his troops regent to depart from Scotland without molestation, but even taken priattending him to the borders, accompanied by William foner, in Douglas and his brother James. On his return, Wil-quence of liam de Pressen, warden of the castle and forest of Jed-which a burgh, attacked and defeated his party; James Douglas fiameful was killed, the earl himself taken prifoner, and carried treaty is into England. with Eng-

Thus was the Scottish nation once more reduced to land. the brink of ruin. Alexander de Moubray, Geffrey de Mowbray, and some others, pretending powers from " the earl of Athol and Robert the Steward of Scotland," concluded a treaty with Edward at Perth; the fubiliance of which was, that all the Scots should receive pardon, and have their fees, lands and offices reflored, excepting those who by common affent in parliament should be excluded. The liberties of the church and the ancient laws and ufages of Scotland were to remain in full force. All offices were to be filled with Scotimen, excepting that the king should appoint whom

he pleafed within his regalities. The earl of Athol now began to perfecute with the The earl of utmost fury those who wished well to the cause of Scot-Athol deland. With 3000 men he befieged the castle of Kil-feated and drommey, which had hitherto been the great refuge of killed. King David's party. Sir Andrew Murray of Bothwell resolved at all events to attempt the rescue of his wife and family, who were that up in this castle. With 1100 men he furprifed Athol in the forest of Kilblain. The earl's men, feized with a panic, fled and dispersed themselves; on which their commander, refusing to accept of quarter, was killed. Sir Andrew Murray then affembled a parliament at Dunfermline, where he was

immediately appointed regent.

In 1336 the king of England perceiving that the Edward Scots were taken under the patronage of France, re again infolved to invade their country, and crush them at once, land, before An. 1336.

before they could have any affiftance from their new allies. In this expedition he penetrated as far as Inverness; but the Scots, commanded by Sir Andrew Murray, avoided coming to a general action; fo that Edward could not effect any thing of confequence. The inhabitants of Aberdeen attacked one Thomas Rotheme, who had landed at Dunnottar. They were defeated; but Rosheme fell in the action. Edward chaftifed the vanquished severely for their temerity, and laid the town in ashes. He then began to repair the castles whose fortifications had been demolished by King Robert. He put in a flate of defence the caftles of Dunottar, Kinclevin, Lawrieston, Stirling, Bothwell, Edinburgh, and Roxburgh; greatly augmented the fortifications of Perth, and left a confiderable body of troops in the place. The Scots began to reduce these cattles as foon as Edward was departed; and in 1337, under Sir Andrew Murray, invaded Cumberland. great exploits, however, were now performed on either fide. Edward being employed in preparations for invading France, had little leifure to attend to the affairs of Scotland; and the Scots, divided among themselves, and destitute of those leaders under whom they had acquired fo much glory, could not now annoy their enemies as formerly. The most remarkable transaction was the fiege of the castle of Dunbar, belonging to the earl of March. The English commander was the earl of Salisbury. The earl of March was absent; but his wife, the daughter of Randolph, from her complexion An, 1337. commonly called Black Agnes, undertook to defend it

in her hufband's abfence. 'The English again employed that huge machine called a fow, formerly mentioned in our account of the fiege of Berwick: it met with the fame fate now as at that time; an huge flone, let fall upon it from the top of the walls, crushed it to pieces. found means to enter it with 40 resolute men, the garrifon made a fally, and cut in pieces the advanced guard of the enemy. The English, disheartened by so many

misfortunes, abandoned the enterprile.

In 1338, Sir Andrew Murray the regent died, and was fucceeded in his office by Robert the Steward of Robert the Scotland. In 1339 he reduced the town of Perth and An. 1339, the castle of Stiring; and gained over to the Scottish interest William Bullock, governor of the castle of Coupar: after which, having expelled the enemy from every post to the northward of the Forth, he employed himfelf in fettling the affairs of the nation as well as he

In 1341, the castle of Edin' urph was surprised by a Edinburgh device of Sir William Bullock. According to his ap-aftle fur-pointment, one Walter Currie of Dunder privately re-prited by Sir William Ceivell into his flip the kright of Liddefdale, with Wil-Sir William Course and the Course of the Course liam Fr. fer, Joachim of Kinbuck, and 200 refolute men. English shipmaster, who had a cause of wine and provisions, with which I are I to result the communvifions, with which I are if to conside the commander of the calls. If it's and ham ers were Irrogale to the caller, if it's and ham ers were Irrogale to the caller, if it's and it. Certifying Javid defaile, with a party of the last of the king David defaile, with a party of the last of the king Irrogale arrives in Scotiand.

The control of the party of

year, the king and quan arrived from France, and land. S

In 1342, Sir Alexander Ramfuy took the flreng for- Antitrefs of Roxburgh; for which important fervice be king bestowed on him the charge of theriff of Teviotdale, at that time held by William Dougla knight of Liddefdale. The king's linerality proved fatal to Ramfay : Miferable for from that time Donglas became his implacable and admit Su inveterate enemy; and having, after a pretended recon Al vanily ciliation, unexpectedly furprised bim with three of bis and S-Wi. friends, he put them inflantly to death, carrying off nam Bu-Ramfay himfelf to his castle of the Hermitage, where lock. he caused him to be starved to death in a most barbarous manner. The unhappy man was confined in a room, over which was a help of wheat; a few grains of which were let fall every day through a hole, not as many as would support life, but as would protract it for a time, and make him longer fensible of the agonies of hunger: and in this miferable fituation he furvived 17 days. About the fame time Sir William Bullock was put to death by Douglas in a fimilar manner; nor was King David at that time in a capacity to punish fuch atrocious cruelties committed by fo powerful a subject.

In the mean time, David having raifed a powerful David in army, prepared to take a fevere revenge of the English, and and from whom he had suffered so much. Edward was at that time in France, but commanded Baliol to raite all with the the militia beyond the Trent: which order, however, utmost produced but little effect; fo much was this mean cruelty. spirited prince despited by the English. David invaded Northumberland without opposition, and ravaged the country; but was obliged to raife the fiege of Newcastle, which was commanded by Sir John Nevil, an entered the bishoptic of Durham, which he ravaged in the most cruel manner. However, on the approach of per to retire; and a two years truce was agreed on.

This pacification was but thort-lived. In 1345 the Other ava-Scots again prepared to invade England, while Ed-fions. ward took all necessary measures for op fing th m : An. 1945. how ver, this year the Scots were fu cefsful, ravaing Wellmoreland, and burning feveral towns. The year tered England with an army of 50,000 men. His fire exploit was the taking of the fortress of Liddel, and maffacring all whom he found in it. The commander, Sir Walter Selby, capitulated with a Scots knight for Monstrous his life; but the bargain being disapproved of by Da-David. vid, he ordered two of Selby's fons to be firangled in his pronce, and then the father's head to be cut off. From the nee the Scots marched to Lower it, which they plundered; then paffing it of North imberland, they

that it might ferve as a ma azine. Three other town, Corbridge, Durham, and Darlington, were flared for the fame reafon. In his march to Durham, it is Il'd that he would have made the cour y a defert, had not fome of the monks paid him a contribution of a thou

Dunbar

caffle un-

Exploits of

Scot and der, the queen of England, in her husband's absence. affembled a powerful army, which was divided into four bodies; the first commanded by Lord Henry Percy; the second by the archbishop of York; the third by the bishop of Lincoln, the lord Moubray, and Sir Thomas Rokeby; and the fourth and principal division was headed by Edward Baliol .- The king of Scotland headed a cholen battalion, composed of the flower of his nobility, and the auxiliaries with which he had been supplied by France. The high steward of Scotland hended the second line; and the third was commanded by the earls of Moray and Douglas. While the English were approaching, Lord Douglas and Sir David Graham fairmithed with them, but were defeated with the lofs of 500 of their men; which feemed an omen of the difafter that was about to enfue. The general engagement began between the archers on both fides; but the Englith being much superior in the use The Sattle of the bow, the fleward of Scotland advanced to the re-Durham, lief of his countrymen. The English archers, unable Am 1,46. to bear his attack, fell back upon Lord Henry Percy's division, which was thus put in confusion, and would have been totally defeated, had not Baliol advanced to beir relief with a body of 4000 horse. The steward was then obliged to retire; by which means the flank of that division commanded by David, and which was then engaged with another line of the English, was left exposed to an attack. Baliol perceived the advantage; and, without purfoing the fleward, attacked the king's division, which was speedily cut in pieces or disperfed. David was left with about 80 noblemen and gen-

tlemen, but flill maintained the fight with obflinacy; nor would he yield even when wounded in the head with an arrow, expecting every moment to be relieved by the fleward and that line of his army which was flill entire under the lords Moray and Douglas. At lait finding himfelf totally overpowered, he attempted to retreat, but was overtiken by a party under one John Copeland. This captain, endeavouring to feize the king, had two of his teeth flruck cut by a blow of his gauntlet; but at last, finding it in vain to refist, the king was obliged to give up his fword and furrender himself a prifoner.—After he was taken, Baliol attacked and totally routed that division of the Scottish army which had hitherto remained under the lords Moray and Douglas. In this battle the Scots loft a great number of their nobility, and 15,000 common foldiers. Many persons of the first distinction were alfo taken with the king; and had it not been that the escape of the Scots was favoured by the avarice of the

King Dovid, after this unfortunate battle, was car-King Davidried to the caltle of Bamborough, where he was kept with fo much privacy, that for fome time it was not known where he was, or that he had been taken prifoner. As foon as the truth was known, the queen of En land demanded the royal prifoner from Copeland; but the latter positively refused to part with him even to the queen, unless the could produce an order to that provo'e under Edward's hand and feal. This refolute behaviour was refinted by the queen, and a complaint made to the king; in confequence of which Copeland was furnmented to appear before Edward, after having refigned David to the custody of Lord Nevil. The

English foldiers, who neglected the pursuit in order to

plunder, fearcely a fingle foldier would have returned.

English monarch, at that time in France, approved of Scot'and. all that he had done, rewarded him with 500l. a year, and fent him back to England with the honour of knighthood. David was then escorted by Copeland, attended, it is faid, by 20,000 men, from the cattle of Ogle in Northumberland, till the Lord Nevil, by indenture, delivered him into the hands of Sir Thomas Rokeby theriff of Yorkshire. In the same pompoue manner he was conducted all the way to London, which he entered on a black courier. He was received in the capital with the greatest solemnity by the lord mayor and other magittrates, the city-companies under arms lining all the fireets through which he paffed, the houses loaded with spectators, who expressed a generous concern for his captivity. Being arrived at the Tower, he was delivered, by indenture likewife, to the cuftody of the conflable, the Lord John Darcy, on the 2d of Ja-

Baliol now, encouraged by the misfortune of his ri-Baliol val, made an effort once more to establish himself on makes andthe throne of Scotland; and before the end of the year tempt on reduced the castles of Hermitage and Roxburgh, the it crown forest of Ettric, the Merse, with the districts of Annan- of Scitland. dale, Teviotdale, and Tweeddale. The Scots conti- An. 12-7. nued faithful to the cause of their king, notwithstanding his misfortunes, and chofe the Steward for the guardian of the kingdom. He behaved with a prudence equal to the high station which he filled: but the progrefs of Baliol was fo rapid, that it is scarcely probable he could have maintained his ground, had not Edward again confented to a truce; which, however, feems to have been ill observed on the part of the Scots. In fact, though both Scots and English historians are filent as to particulars, we find, that about the end of the year 1348, all Scotland was recovered out of the hands of the English; excepting Berwick, Roxburgh, Hermitage, The Scots and Lantic, which was part of Baliol's hereditary estate, recover the and defended by him with an army. The Scots hifto- greatest rians inform us, that the English, in revenge for the da- country mages done to their country by the breach of the peace, An. 1348. proclaimed a tournament and other military exercises at Berwick, to which they invited the Scots; but in their way thither the latter fell into an ambufcade, and were all cut in pieces.

The years 1349 and 1350 were remarkable only for Scotland a dreadful plague which invaded Scotland, after having infefted a dreadint plague which invaded Storent, after having individual reviews the continent of Europe. According to For with a dun, one-third of the people of Scotland perithed at this plague, time. The patient's fielh fwelled exceedingly, at d he An. 1749 died in two days illness; but the mortality affected chief- to 1352. ly the middling and lower ranks of people. The fame dreadful calamity continued throughout the years 1351 and 1352; occasioning a cellation of arms not only in Scotland, but throughout all Europe.

All this time King David remained a prisoner in England; for though several treaties had been proposed, they had hitherto come to nothing, because the English menarch infilled upon being indemnified for the ravages which the Scots had committed in his territories. At last it was agreed, that the king of Scotland should be Terms proimmediately fet at liberty, on paying 90,000 merks for posed for rehis ranfom, by equal proportions, within the space of sease of the nine years: That 10,000 merks, being the first proportion, should be paid at the feast of Candlemas next to narch. come, the second at Candlemas 1357, and so on till com-

263 The Scots defeated. a d their pulones.

Account of after the

plete

275 Berwick

taken by

the Scuts.

Edward.

Baliol re-

figns the

Edward.

Sectland plete payment should be made of the whole: That, during the faid space of nine years, there should be a truce between the two kingdoms: That 20 Scots gentlemen, of the best families in the kingdom, should remain in England as hoftages and furcties for the faid fum; and that, if any part thereof was not paid at the precise time appointed, then David (hould remain a prisoner in England till it was paid; or, if he was detained by any just cause, that the lord high steward, the lord Douglas, John of the Itles, and others of the highest rank, should Rejectedby The and supply his place.

Thefe terms were rejected by the Scots nobility; and, the nobility, and war in 1355, war was recommenced with England, at the recommen- infligation of France, who fent 40,000 crowns to Scot-

land as a fupply for defraving the expences.

With this fum the guardian, having raifed any army, once more took the field; but not before the English that destroyed the Lothians and Duglusdale. A battle was fought on Nifbit-moor; in which the English being drawn into an ambuscade, were totally defeated. The next attempt of the Scots was against the town of Berwick, which they defigned to furprife by an elcalade. They met, however, with fuch a vigorous refillance, that many persons of distinction were killed. The attack proved fuccefsful; but the acquifition was of no great importance, as the caftle fill held out. Edward, in the mean time, hearing of the lofs of the town, hurried back from France to London. Here he staid but three days, and marched northward to raife the flege, He reached Darham on the 23d of December 1355, where he appointed all his military tenants to meet Retaken by him on the 1st of January 1356. On the 14th of the fame month he arrived before Berwick, which was in-An 1336. stantly retaken; but the Scots were allowed to depart for their own country. The reduction of this place produced an extraordinary effect: for Baliol now perceiving that Edward meant not to establish him on the throne of Scotland, but to retain in his own possesfion as many places of that country as he could, came at last to the resolution of giving up to the king of England the whole of Scotland. This indeed was no more than a form, because at that time he was not posfeffed of the kingdom. However, the ceremony was performed at Roxburgh; and Baliol prefented his crown

> The affairs of Scotland were now in a very critical fituation; and it was necessary to gain time. For this reason Edward was amused with a negociation; and to this he the more willingly liftened, as he was at that time waiting for his fleet, from which he had great expectations. A little time, however, discovered the deceit. The Scots plainly told Edward, that they would die rather than submit to his demands; and he, in return, threatened a most dreadful revenge. His sleet in the mean time arrived in the frith of Forth; the mariners defroyed and pillaged all that was within their reach, without sparing even the facred edifices, carrying off the statues of the blessed virgin, loading the munks with chains, and committing every thing in those days called impiety and facrilege. Edward had by this time marched as far as Haddington, but was obliged to re-

kingdom of and some earth and stones by way of investiture. Baliol

Scotland to in return was to have a revenue of 2000 pounds a-year;

and as Edward was at the head of an excellent army,

he had little doubt of being able to force the Scots

ceive provisions all the way from his seet; for the Sectland Scots had defolated the country through which he paffed. During his march his army was haraffed, and his foragers cut off, to that he was reduced to diffres ; and at last his fleet being totally destroyed by a florm, But is obli-

he was obliged to return to England without accomplish, ged to re-

ing any thing. In the mean time the prince of Wales, who had been pluffing any left by his father to carry on the war in France, de-thing. feated and took prisoner John king of France at the battle of Poictiers. In this battle were 3000 Scots, who had gone over as auxiliaries to the French monarch,

and who luffered extremely. However, the fuccess of Edward, inflead of rendering him haughty, feemed to have a contrary effect; and, by the mediation of Pere Innocent a truce for two years was concluded with Trance, in which the Scots were comprehended. During this interval, the ranfom of the king of Scots was David obfettled at 100,000 merks to be paid in ten years; for tains his liwhich 20 hoftages were to be given as formerly. In berry, confequence of this treaty, David at last obtained his li-An. 1358. berty in 1358; and Edward laid afide all hopes of ever fubduing Scotland. As for Baliol, he was now funk in

oblivion; and it is not known what became of him, or when he died.

David, though now reflored to liberty, found himfelf Isembarrate greatly embarraffed with the payment of fuch a large fed by the fum as had been flipulated for his raniom; the kingdom payment of Scotland being then in a most miserable and exhaust-form, ed fituation. After fending his queen, and going into England himfelf, he could obtain no greater favour than a respite of a few months for the payment of the second moiety; fo that he was at last constrained to ask assistance from France. This could fearcely be expected in the diffressed fituation of that kingdom; however, it was at last agreed, that 50,000 marks should be paid to Scotland, in case the Scots would consent to renew the war the following year. Neither party, however, kept their word; and David, being still greatly distreffed about the remainder of his ranfom, at last entered into a very extraordinary negociation with Edward, by which he confented that the king of England should be his fuccesfor to the throne of Scotland. But this negociation was defeated through the invincible hatred which the Scots bore to an English governor. David then, being entirely unable to discharge the remainder Futers into of his ranfom, was obliged to enter into a new treaty; a new treaby which the kingdom of Scotland became indebted ty with Edto Edward the fum of 100,000 pounds Sterling, to be wardpaid by equal proportions within the space of 25 years, during which there should be a truce between the two nations.

From this time we meet with little more of any moment in the reign of King David. After the death of his queen Johanna, the fifter of Edward, he married a Scots woman, of mean birth, named Margaret Logie; but by neither of his wives had he any children. Queen Margaret he divorced, on what pretence is not known; but the left the kingdom, and complained personally to the pope, who treated her as David's lawful wife, and enjoined her husband to receive her as such under the most severe penaltics. What effect these threats had on the king is not known; but it is certain that Margaret ceeded by never returned to Scotland; and, on the 22d of Fe-Robert bruary 1371, David himself died, lowing the kingdom Stewart.

Who makes a furious invation.

4 L 2

to An. 1377;

So that to his nephew Robert Stewart, the first of that family who fat on the throne of Scotland  $(\kappa)$ .

Some authers tell us, that at the acceffion of Robert II. his title was difputed by William earl of Douglas. If any nuch claim was preferred, an affembly of the fitter feet it affide, and it was refolved that Robert flouid be crowned at Scone; and to take away for the future all diffutes concerning the fucceffion, a particular act was framed, by which the kingdom was feeured to Robert and his heirs.

The new king being thus established on the throne, endeavoured to renew the war with the English, in order to recover from them the town of Berwick, and fome other places on the borders. In this, however, he failed; and as 56,000 pounds of David's ransom still remained unpaid, Robert bound himfelf to discharge it at the rate of 4000 merks every midfummer. He then proposed an alliance with France; but the terms demanded by that kingdom being, that Scotland should be obliged to make war with England whenever France thould require it. Robert could not by any means be induced to confent to fuch a requisition, which would have obliged him to break through the most folenin treaties, whenever the king of France should think proper to break with England. A new treaty, therefore, was entered into, by which it was provided, that neither S otland nor France should be obliged to make nev r free the kings or kingdoms of France and Scotlard from the obligations they lay under to affift one mother, as often as required, in opposition to the kingdom of England. In case of a competition for the rown of Scotland, the king of France and his heirs were to take care that no English influence was used; but that the matter being by the greatest and best part of the nation decided conformably to the laws and effaliftments of Scotland, he should with all his power defend and affilt the person so citablished. Lastly, it was streed that no Frenchman should ever benceforth ferve wages, or otherwife, against Scotland, nor any Scotf-

men against France.

This last article occasioned a recal of all the Scots from the English armies, which Edward looked upon to be a prelude to an invasion. He accordingly islued writs for assembling all the militio in the north of England. At this time there substitled between the neighbouring recope of both nations an invincible hatted, which extended not only through the lower ranks, but had pervided the higher classes also. The inhabitants of the borders, indeed, p. id very little regard to the orders of their refrestive fowerigns, to that daily hostilities were committed by them up an each other when there was pear between the fovereigns. The inhabitants of these contains, which have fince been coll-sted, and go by the name of the Border-faws. The families of Douglis and Policy, whose ellates lay constiguous to one and record or the product variance. It had been cosum in for the Lorderers of both kingdoms, during a trace, to

March had been killed in a fray at that of Roxburgh, Scotlard, which was still in the hands of the English. Justice for

this murder was demanded from Lord Percy; but he his brother the earl of Moray, affembling their followers, entered the next fair that was held in Roxburgh, plundered and burnt the town, and killed all the English who fell into their hands. The English borderers were ordered to lav waste the lands of the earl of March; but, in their way thither, destroyed the estate of Sir John Gordon, a man of great property in the fouth of Scotland. Sir John in his turn invaded England, from whence he drove off a large booty in cattle, and a number of prisoners. In his retreat he was attacked by a body of fresh troops under Sir John Litburn, at a place called Caram. An obflinate encounter followed. The Scots were five times repulfed; but at last they renewed the charge with fuch fuly, that they made Lifburn, his brother, and feveral other perfons of diffinction, prifoners, together with all their furviving foldiers. On this Lord Percy with 7000 men encamped at Duns, in the fouth of Scotland; but was obliged to retire, probably for want of subfiftence for his army. In the mean time, Mufgrave, the governor of Berwick, who had been ordered to join Percy with a detachment from the garrifon, was on his march intercepted, defeated, and taken prisoner by Sir John Gordon; after which the border war became general on both fides. The iffue of thefe disturbances is but little known; however, in 1377, we find them raging with more violence than ever. The fair of Roxburgh was once more the scene of action, and the town was again burnt by the Scots. Lord Percy, who was now earl of Northumberland, refolved to take fignal vengeance. He ravaged the Scots borders, particularly the earl of March's effate, for three days, at the head of 10,000 men. Some time after this, the Berwick Scots infurgents became powerful enough to furprife taken and Berwick; which, however, was quickly retaken by the retaken. English, who soon after invaded Scotland. In this expedition, however, they succeeded so ill, that Percy thought proper to defilt from his expedition. Scots in the mean time began hostilities by fea, under one Mercer, an experienced failor; but he had the miffortune to be taken prisoner by the English, with all his ficet. In 1379, England was afflicted with a dreadful plague, of which the Scots took advantage to invade the country. The English historians tell us that they behaved with the utmost barbarity, killing and plundering the defenceless inhabitants without mercy.

This predatory war continued, generally to the difadvantage of the English, till the beginning of November 1385, when a truce was concluded, to continue for
a year; which, however, related only to the borders.
This truce, like the others, was but very indifferently
observed; so that, in 1383, new negociations were set
on foot: but, in 1384, the war was renewed with greater sary than ever. In the spring, the earls of March
and Douglas took the castle of Lochmaben, and intercerted a rich convoy which the English were feeding
Reclurch; burnt to the ground the castle of Work,

over the lots and

Sentand: and committed fuch devastations in the north of England, that feveral gentlemen offered to rough t eir eflates to King Richard, because they were not able to defend them against the Scots. The duke of Lancaster entered Scotland at the head of an army; but the inhabitants had removed every thing valuable, to that he marched on to Edinburgh without accomplishing any thing parties of Scots, who destroyed a confiderable number of his men. This year also the French fent a body of auxiliaries into Scotland. The earls of Northumberland and Nottingham entered Scotland with an army of 10,000 horse and 6000 archers; but retired, after having committed fome devastations in the fouthern The Scots revenged themselves by laying waite all the northern part of England to the gates of Newcastle. Berwick was taken by the Scots, and soon after furrendered for the fum of 2000 merks. A truce was then, as usual, concluded; but in the mean time King Robert was meditating a most severe blow against the English.

Formidable projected.

The duke of Burgundy having come to the possession of the estate of his father-in-law the earl of Flanders, claimed the fovereignty of the town of Ghent; but they refused to submit to him, and in this refusal were protected by King Richard II, of England, On this the duke of Burgundy proposed to the French court to invade England in concert with the Scots .- This being agreed to, a fleet was fitted out at Sluvs; on board of which John de Vienne, the French admiral, embarked, carrying along with him 50,000 pounds in gold, which the duke of Burgundy advanced in order to be diftributed in Scotland, where the admiral arrived fafe with a confiderable reinforcement, together with supplies of all kinds of military flores. Two thousand auxiliaries, of whom 500 were men-at-arms, arrived with this fleet; and 400 fuits of complete armour were brought along with them, in order to be distributed among the bravest

The Scots were for a fhort time elated with the great attention which had been paid them by the French king; but, in the mean time, the Flemings having revolted, the French abandoned the Scots to fusiain the whole weight of the English resentment, that they themfelves might employ their arms in Flanders. King Richard took the field with a more numerous army than had ever been mustered in England before, Hostil'ties were begun by the Scots, who, according to custom, invaded the northern parts of England, and carried off a confiderable booty : however, in their retreat, they were in t'e utmost danger of being cut off by the duke of Lancaster, who had been fent with an army to intercept them. The English army proceeded northwards; but could accomplish nothing, on account of the country being defolated, till they came to Edinburgh, which they laid in ash s. Being, however, incessantly haras-

r individe evil of Fire all Divis, and Lod College divide evil of 300 miles, after which in a bit of the invalidations.

of which had of late been very active against the Scots. Scotland. In 1388, D uglas obtained permission to raise a body de eated the Irith, plundered the town of Carlingford, and loaded 15 thips with the booty. From thence the was plundered and laid waste; after which they returned with their boo y to Loch Rian in Scotland.

proceed on a more enlarged plan. Having affembled a invaded by parliament at Aberdeen, a double invalion of England two Scots was refolved upon. Two armies were raifed; the one on c. confilling of 25,000 meh, comin nded by the earls of Mentieth and Fife, Douglas lord of Gallowiy, and Alexander Lindiay; the other army, confifting of the like number, was commanded by the earls of Douglas, Scotland, and other persons of diffinction. The former entered Cumberland, and the latter Northumberland, both which countries they laid wafte, and both armies were to meet within ten miles of Newcastle. The Englift were thrown into the greatest consternation. Newcattle was defended by the earl of Northumberland. whole age and infirmities rendered him incapable of taking the field; but his place was abundantly supplied by his two fons Henry and Ralph, the former of whom is known in English history by the name of Hotspur. The town was garrifoned by the flower of the English adjacent countries, who had fled thither for refuge, Douglas felected 2000 foot and 300 horlemen out of the two armies, and encamped on the north fide of the town, with a view, according to the Scots historians, of storming it next day, In the mean time, he was chal-Single on lenged by Hotspur to fight him hand to hand, with har activate fliarp ground spears, in fight of both armies. Douglas Lat. Douaccepted the challer e, and Percy was unhorfed the H nry Perfirst encounter, and obliged to take refuge within the v. portcullis or gate of the town; from whence Douglas brought off his antagoniil's lance, with a pennon affixed to it, and fwore in his hearing that he would carry it into Scotland. Next day Douglas attempted to florin the town; but, being repulsed in the attack, he decamped in the night. Percy, breathing furious revenge, purfued and overtook the Scots at Otterburn. His arrival was quite unexpected, fo that the principal commanders of the Scottilh army were fitting down to fupper unarmed. The foldiers, however, were inftantly Battle of prepared for battle; but in the hurry necessarily atte d. Otterbur. of the moo. , which happened that night to be unut !ly bright. The battle being joined on the moon's i t appearance, the Scots began to give ground; but, bethe English, though greatly superior in number, were to':lly routed. Twelve hundred were killed on the T Digfpot; and 100 persons of distinction, among whom were the two Percies, were made prisoners by Keith ma Dille richal of Scotland. On the file of the Scots the greated by was that of the brave Earl Douglas, who his armour, as above related. It was the fingle conScotland, bat between Douglas and Percy, and the subsequent battle, which gave rife to the celebrated battle of Chevy Chace.

In the mean time the bifhop of Durham was marching towards Newcastle with an army of 10,000 men; but was informed by the runaways of Percy's defeat, which happened on the 21st of July 1388. In a council of war it was refolved to purfue the Scots, whom they hoped eafily to vanquish, as being wearied with the battle of the preceding day, and laden with plunder. The earl of Moray, who commanded in chief, having called a confultation of his officers, refolved to venture a battle. The prisoners were almost as numerous as the whole Scots army; however, the generals required no more of them than their words of honour that they should continue inactive during the battle, and remain prisoners will. This condition being complied with, the Scots drew out their army for battle .- Their rear was fecured by marthes, and their flanks by large trees which they had telled. In fhort, their appearance was to formidable, that the English, dreading to encounter a refolute enemy fo strongly fecured, retired to Newcastle, leaving the Scots at liberty to continue their

march to their own country.

Robert being now oppressed with age, so that he could no longer endure the fatigues of government, the adminithration of affairs devolved on his fecond fon the earl of Fife; for his eldest fon was by nature indolent, and befides lame by an unlucky blow he had received from a horfe. Early in the spring of 1389, he invaded England with success: but the same year a truce was concluded, to last from the 19th of June 1389 to the 16th of August 1302; in which the allies of both crowns were included. This truce was violently opposed by the nobility, who suspected their king of being too much under French influence. Upon this the court of France thought proper to fend over ambaffadors to perfuade the the nobility to comply; informing them, that in case of a refusal, they could expect no assistance either of men or money from the continent. With difficulty they prevailed, and peace between England and Scotland was once more reftored. Scarcely, however, was this truce finished, when the peace of the nation was most fcandaloufly violated by Robert's fourth fon Alexander. the earl of Buchan, commonly called the wolf of Badenoch, from his favage difposition. This prince having a quarrel with the bithop of Murray, burnt the fine cathedral of Elgia, which has been called by historians the lanthorn and ornament of the north of Scotland. The king for this crime caused his fon to be imprisoned; and a civil war would have been the confequence. had it not been for the veneration which the Scots retained for their old king. However, they did not long enjoy their beloved monarch; for he died on the 19th of April 1390, in the 75th year of his age, and the 19th of his reign.

On the death of Robert II, the crown devolved upon his eldest fon John; but the name being thought un-An. 1390. lucky in Scotland, he changed it for that of Robert, though he was still called by the commonalty Robert John Fernsier. He had been married to Annabella, the daughter of Sir John Drummond, ancestor to the noble family of Perth; and was crowned along with his confort at Scone, on the 13th of August 1390. He ce the day of the truce which had been entered into with

England, and renewed the league with France; out Scotland. the beginning of his reign was disturbed by the wars of " the petty chieftains with each other. Duncan Stewart, Repelina fon to Alexander earl of Buchan, who had died in pri-of the earl fon for burning the cathedral of Elgin, affembling his of Buchan. followers under pretence of revenging his father's death, laid waste the councy of Angus. Walter Ogilvy, the therist of Angus, attempting to repel the invaders, was killed, with his brother and 60 of their followers. The king then gave a commission to the earl of Crawford to suppress them; which he soon did, and most of them were either killed or executed. The followers of the earl of Buchan were composed of the wildest Highlanders, dillinguithed by the title of Catterenes, which an-Account of fivers to that of banditti. That fuch a race of people the Catteexitled is certain from the records of Scotland; but it is renes, not eafy to determine how they obtained their fubfiftence, being void of the knowledge of agriculture and of every civil art. There is fome reason to believe that many of them came from the Western isles; and that they or their ancestors had emigrated from the eastern parts of Ireland. The lands which they inhabited were never cultivated till towards the middle of the 17th century; and, according to the most authentic accounts,

they lived entirely upon animal food.

The earl of Crawford's fuccess against the followers of Buchan encouraged Robert to intrust him with a commission for subduing other insurgents by whom the 296 peace of the country was disturbed. The most remark-Battle beable of these were the Clan Chattan and Clan Kay. As tween the both these tribes were numerous and brave, Crawford champions was not without apprehensions that they might unite of the cl against him as a common enemy, and defeat him if he and clan attempted to suppress them by force. He proposed, Kay. therefore, that the two rival clans should each choose 30 men, to determine their differences by the fword, without being allowed the use of any other weapon. The king and his nobility were to be spectators of the combat; the conquered clan were to be pardoned for all their former offences, and the conquerors honoured with the royal favour. This propofal was readily accepted by both parties, and the north inch of Perth was to be the scene of action. But, upon mustering the combatants, it was found that one of them, belonging to the clan Chattan, had absented himself. It was proposed to balance this difference by withdrawing one of the combatants from the clan Kay; but not one of them could be prevailed on to refign his place. At last one Henry Wynd, a faddler, though no way connected with either party, offered to supply the place of him that was absent, on condition of his receiving a French crown of gold (about 7s. 6d. of our money); which was immediately paid him. The combat then began with incredible fury; but at last, through the superior valour and fkill of Henry Wynd, victory declasred in favour of the clan Chattan. Only ten of the conquerors, befides Wynd, were left alive; and all of them desperately wounded. Of the clan Kay only one remained; and he having received no hurt escaped by fwimming acrofs the Tay

While these internal broils were going on, the truce which had lately been concluded with England was to ill observed, that it became necessary to enter into fresh negociations. Thefe, like others which had taken place before, had very little effect. The borderers on both

fides

Robert II. dies, and is fuoceed. ed by Robert III.

Title of

Seotland. fides had been fo accustomed to ravage and plunder, that they could not live in quiet. King Robert also was thought to be too much attached to the king of England. He had introduced the new title of duke. duke intro- which he bestowed first on the prince royal, whom he duced into created dake of Rothelay; but making an offer of that Scottand, honour to one of the heads of the Douglas family, it An. 1398. was rejected with didain. That powerful family had

never lost fight of an ancient claim they had upon the cattle of Roxburgh, which was still in the possession of the English; and this year the fon of the earl of Douglas, Sir William Stewart, and others, broke down the bridge of Roxburgh, plundered the town, and deflroyed the forage and corn there and in the neighbouring country. The English applied for fatisfaction; but obtained none, as the contumon which involved the kingdom by the deposition of Richard II. and the accettion of Henry IV. prevented them from having recourse to arms, the only argument to which the Scots

patriots in those days would liften.

An. 1400. No fooner was the catafrophe of Richard known in Scotland than they refolved to avail themselves of it; and invading the north parts of England, demolithed the caille of Wark, and laid the neighbouring country under contribution. The fituation of Henry's affairs did not admit of his refenting this infult. He contented himfelf with nominating the earl of Westmoreland, to treat with the Scots about a truce or peace; or, if that could not be obtained, to make a mutual agreement, that the towns of Dumfries in Scotland, and Penrith in England, should be free from hostilities during the war. To this proposal the Scots paid no regard; and being encouraged by the court of France, who refented the deposition of Richard, they renewed their ravages in England. In 1400, the king of England called a parliament, in order to confult on the most proper means of repelling the Scottish invasions; and in this he was greatly affilted by the divisions of the Scots among themselves. The duke of Rothesay, the heir apparent of the crown, was now grown up to man's estate, and it was thought proper to provide a fuitable confort for Mercena y him. The king is faid to have fernicalously put up his fon's marriage at auction, and offered him to the lady with regard whose father could give him the highest price. The

to his fon's carl of March was the highest bidder; and advanced a marriage. confiderable fum in ready money, on condition that his daughter should become the royal bride.- This fordid match was opposed by Douglas, who proposed his own daughter the lady Margery. So degenerate was the court of Scotland at this time, that neither the king nor the duke of Rotheray opposed this proposal of a new match, because it was to be purchased with a fresh furn; and they even refused to indemnify the earl of March for the money he had already advanced.

As the duke of Albany fided with Douglas, a council of the nobility was privately affembled, which annulled the contract of the lady Elizabeth Dunbar, the earl of March's daughter, in favour of the lady Margery, daughter to the earl of Douglas; but without taking any measures for repaying the money to the earl of March. The continuator of Fordun informs us, that the earl of Douglas paid a larger fun for his daughter's fortune than that which had been advanced by the earl of March, and that the earl of Douglas's daughter was married to the duke of Rothefay; that before the marriage was celebrated, March demanded Scotland. that the money he had advanced thould be reimburfed; but receiving an unfatisfactory answer, he declared, that as the king had not fulfilled his bargain, he would bring unexpected calamities upon the country. Accordingly he fled into England, leaving his caltle of Denbar to the cuttody of his nephery Robert Maitland, who foun after put it into the hands of the earl of Douglas, caile ! in Littory Archibald the Grim, from the sternees of his

As foon as Robert heard of the revolt of the carl of March, he fent ambaffadors demanding back his fubject; but the request was differented. On the other hand, the earl of March demanded repossession of the castle of Dunbar, pleading, that he had committed no act of treason, but had come to England under a safe condust from King Henry, on purpose to negociate his private affairs : but this request was difregarded; on which he fent for all his family and followers to England, where they joined him in great numbers. This produced a war between the two king. Invalion of doms. The earl of March, with Henry Percy fur-Scatland by named Hotspur, invaded Scotland, penetrating as far cy. as Haddington, and carrying off great numbers of the inhabitants into captivity. Thence they went to Peebles, and then to Linton, ravaging the country as they passed along. They next beneged the cattle of Hales, and took feveral of the neighbouring forts; but Archibald the Grim, or rather his fon, having raifed an army against them, they were struck with terror, and fled to Berwick, to the gates of which they were purfued by the Scots. At this time the Scottish admiral, Sir Robert Logan, was at fea with a foundron; but miscarried in an attemot he made on some English thirs of war that protected their fleet while fishing on the coast of Scotland. After this the English plundered the Orkney islands; which, though belonging to the crown of Norway, were at that time governed, or rather farmed, by Sinclair the Scots earl of Orkney and

All this time the earl of March continued under the protection of the king of England. He had received repeated invitations to return to his allegiance; but all of them being rejected, he was proclaimed a traitor; and the Scottish governor made a formal demand of him from King Henry. With this the latter not only refused to comply, but renewed his league with the lord of the ides. He pretended also, that at this time he had intercepted fome letters from the Scottish regency, which called him " a traitor in the highest degree;" and he alleged this as a reason why he protected not only the earl of March, but the lord of the

On the 25th of July 1400, the earl of March renounced his homage, fealty, and fervice, to the king of Scotland, and transferred them to Henry by a formal indenture. For this the earl was rewarded with a penfion of 500 merks sterling, and the manor of Clipestone in Sherwood forest. Henry now began to revive the Heary IV. claim of homage from the kings of Scotland, and even projects the to meditate the conqueit of the kingdom. He had in conqueit of deed many reasons to hope for success; the principal of Scotland. which were, the weakness of the Scottish government, the divided state of the royal family, and the dissensions among the chief nobility. For this purpose he made

great preparations both by fea and land; but before he let out on his journey, he received a letter from the duke of Rothefay, full of reproaches on account of the prefumptuous letters which Henry had addressed to Robert and his nobility. The letter was addressed by the duke to his adverfary of England, as the Scots had not yet recognized the title of Henry to the crown of In pland. Towards the end of it the duke, according to the custom of the times, defired Henry, in order to avoid the effusion of Christian blood, to fight him in person with two, three, or a hundred noblemen on a fide. But this challenge produced no other answer from Henry, than that "he was furprifed that the duke of Rothefay should consider noble blood as not being Christian, fince he defired the effusion of the one, and not of the other," Henry arrived at Leith on the very day on which he had appointed the Scottish nobility to meet him and pay their homage, and conclude a peace between the two crowns. In all probability, he expected to have been joined by great numbers of the discontinted Scots; and he flattered the English with a promife of raising the power and glory of their country to a higher pitch than it had ever yet known. Under this pretext, he feized on the fum of 350,000 pounds in ready money, besides as much in plate and jewels, which had been left by Richard in the royal treasury. bility, and on the principal towns and cities. At last, finding that neither his vast preparations, nor the interest of the earl of March, had brought any of the Scots to his standard, he laid siege to Edinburgh castle, which was defended by the duke of Rothelay, and, as fome fay, by the earl of Douglas. The duke of Albany, brother to King Robert, was then in the field with an army, and fent a letter to King Henry, promising, that if he would remain where he was for fix days, he would give him battle, and force him to raife the fiege, or lose his life. When this was written, the duke was at Calder muir; and Henry was so much pleased with the letter, that he presented the herald who delivered it with his upper garment, and a chain of gold; promifing, on his royal word, that he would remain where he was until the appointed day. On this occasion, however, the duke forfeited his honour; for he fuffered fix days to elapse without making any attempt on the English army.

Henry, in the mean time, pushed on the siege of Eance from the duke of Rothelay, that the hopes of reducing it were but fmall. At the same time he was informed that the Welsh were on the point of rebellion under the famous chieftain O-en Glendower. knew also that many of the English were highly distatispeaceable poffettion of it to the moderation of Mortimer, alfo called the earl of March, who was the real heir to the fiege of Edinburgh castle, and return to Engby the commissioners of the two crowns, who met at

In 1401, Sc tland fuffered a great loss by the de th

exemplary partial, and a person of great influence. Ar- Scotland. chibald Don to the Grim had died tome time before. and hil lofs was now feverely felt; for the king himfelf, naturally feeble, and now quite difabled by age and infirmities, was fequeftered from the world in luch a manner, that we know not even the place of his refidence during the last invasion of Scotland by the English. This year also Oucen Anabella died, so that none remained who were able to heal those divisions which prevailed among the royal family. Robert duke of Albany, a man of great ambition, was an enemy to the duke of Rothefay, the heir-apparent to the crown ; and endeavoured, for obvious reasons, to impress his father with a bad opinion of him. This prince, however, appears to have been chargeable with no misdemeanour of any confequence, except his having debauched, under promise of marriage, the daughter of William Lindfay of Roffy. But this is not supported by any credible evidence; and, though it had been true, could never have justified the horrid treatment he met with, and which we are now to relate.

One Ramorgny, a man of the vilest principles, but Conspiracy

an attendant on the duke of Rothefay, had won his against the confidence; and, perceiving how much he refented the duke of Ro-conduct of his uncle the duke of Albany, had the villany to fugget to the prince the dispatching him by affassination. The prince rejected this infamous propofal with fuch horror and displeasure, that the villain, being afraid he would disclose it to the duke of Albany, informed the latter, under the feal of the most inviolable fecrecy, that the prince intended to murder him; on which the duke, and William Lindsay of Rossy his associate in the treason, resolved on the prince's death. By practifing on the doating king, Lindfay and Ramorgny obtained a writ directed to the duke of Albany, impowering him to arrest his son, and to keep him under restraint, in order for his amendment. The same traitors had previously possessed the prince with an apprehension that his life was in danger, and had persuaded him to feize the castle of St Andrew's, and keep posfession of it during the vacancy of that see. Robert had nominated one of his baftard brethren, who was then deacon of St Andrew's, to that bishopric: but being a person no way fitted for such a dignity, he declined the honour, and the chapter refused to elect any other during his lifetime; fo that the prince had a prospect of possessing the castle for some time. He was riding thither with a small attendance, when he was arrested between the towns of Nidi and Stratirum (according to the continuator of Fordun), and hurried to the very castle of which he was preparing to take pos-

The duke of Albany, and the earl of Douglas, who was likewise the prince's enemy, were then at Culross, waiting the event of their detestable conspiracy; of which they were no fooner informed, than they ordered a firing body of ruffians to carry the royal captive from the cattle of St Andrew's; which they did, after clothing him in a ruffet cloak, mounting him on a very forry horse, and committing him to the custody of two were ordered by the duke of Albany to flarve him to death. According to Buchanan, his fate v s for fome w o i time prolonged by the compassion of one of lis keeper's flarved to daugalers, who thrust thin caten cakes through the death.

Scotland, chinks of his prifon-walls, and by a woman who, being a wet nurle, found means to convey part of her milk to him through a small tube. Both these charitable temales were detected, and put to death; the young lady's inhuman father being himfelf the profecutor. The prince himself died a few days after, on Eafter-cve, his hunger having impelled him to devour part of his own fleth.

> In the mean time, Robert, being yet ignorant of the murder of his ion, had renewed, or rather confented to renew, hotfilities with England. On the expiration of the truce, Henry had fent a commission to the earls of Northumberland and Westmoreland, to offer the Scots any terms they could reasonably defire; but every offer of this kind being rejected, there was a necessity for renewing hostilities. The earl of March had received another pension from Henry, on condition of his keeping on foot a certain number of light troops to act against the Scots. This had been done; and to effectually did thefe now annoy their enemies, that the earl of Douglas was obliged to take the field against them. By dividing his men into finall parties, he repressed the depredations of these invaders; and Thomas Haliburton, the commander of one of the Scottish parties, made incursions into England as far as Bamborough, from whence he returned with a confiderable booty. This encouraged another chieftain, Patrick Hepburn, to make a fimilar attempt : but being elated with his fuccess, he remained too long in the enemy's country; fo that the earl of March had time to fend a detachment to intercept him on his return. This produced a desperate encounter, in which Hepburn was killed; the flower of the youth of Lothian, who had attended in this expedition, were cut off, and scarcely a fingle Scotsman remained unwounded.

> On the news of this difaster, the earl of Douglas applied to the duke of Albany for affiftance. He was immediately furnished with a considerable army, according to fome, confisting of 10,000; according to others of 13,000; and according to the English historians, of 20,000 men. Murdoc, the fon of the duke, attended the earl on this expedition, as did also the earls of Moray, Angus, Orkney, and many others of the chief nobility, with 80 knights. The Scots on this occasion conducted themselves with the same imprudence as before. Having penetrated too far into the country they were intercepted by the English on their return, and obliged to engage at a place called Homeldon, under great disadvantages. The consequence was, that they were utterly defeated, and almost the whole army either

killed or taken.

Henry Hotspur, to whom chiefly this victory was owing, refolving to purfue the advantage he had gained, entered the fouthern parts of the kingdom, and laid fiege to a castle called Cocklawys, on the borders of Teviotdale. The castle was for some time bravely defendthe English ed : but at last the governor entered into a treaty, by which he agreed to deliver up the cattle, in case it was not relieved by the king or governor in fix weeks; during which time no additional fortifications were to be made. But while the English were retiring, one of Percy's foldiers pretended that the Scots had broken the capitulation, by introducing a mattock into the place. The governor, hearing of this charge, offered to fight any Englishman who should engage to make it good. VOL. XVIII. Part II.

A champion was accordingly fingled out, but was de- Scotland. feated by the Scotfman; and the English army retired according to agreement. The matter then being debated in the Scottish council, it was resolved to fend relief to the castle. Accordingly the duke of Albany, with a powerful army, fet out for the place ; but before he came there, certain news were received of the defeat and death of Hotspur, at Shrewsbury, as related under the article ENGLAND, Nº 182.

In the year 1404, King Heary, exceedingly defirous An. 1404. of a peace with Scotland, renewed his negociations for that purpole. These, however, not being attended with fuccefs, hostilities were still continued, but without any remarkable transaction on either side. In the mean time. King Robert was informed of the miferable fate of his eldeit fon the duke of Rothefay; but was unable to refent it by executing justice on such a powerful murderer. After giving himself up to grief, The Scottherefore, for some time, he resolved to provide for the ish prince, fafety of his fecond fon James, by fending him into James, fent France. This scheme was not communicated to the but is taken duke of Albany; and the young prince took shipping by the Engwith all imaginable fecrecy at the Bass, under the care ... fh. of the earl of Orkney. On his voyage he was taken by an English privateer off Flamborough-head, and brought before Henry. The English monarch having examined the attendants of the prince, they told him that they were carrying the prince to France for his education. " I understand the French tongue (replied Henry), and your countrymen ought to have been kind enough to have trufted me with their prince's education." He then committed the prince and his attendants close prisoners to the tower of London. The news of this difaster arrived at the castle of Rothefay in the ifle of Bute (the place of Robert's refi-

dence) while the king was at supper. The news threw Robert dies him into fuch an agony of grief, that he died in three of grief. days, the 29th of March 1405, after having reigned An. 1405. nearly I ; years.

By the death of Robert, and the captivity of the prince, The duke all the regal power devolved on the duke of Albany, of Albany who was appointed regent by a convention of the regent. states assembled at Scone. The allegiance of the people, however, to their captive prince could not be fhaken; fo that the regent was obliged to raife an army for the purpole of rescuing him. Henry summoned all his military tenants, and made great preparations: but, having agreed to treat of a final peace with Ireland and the lord of the Isles, the regent laid hold of this as a pretence for entering into a new negociation with the English monarch; and a truce was concluded for a year, during which time all differences were to be fettled. In confequence of this agreement, Rothefay, king at arms, was appointed commissary-general for the king and kingdom of Scotland; and in that quality repaired to the court of England. At the time when the prince of Scotland was taken, it feems there exisled a truce, however ill observed on both sides, subfilting between the two nations. Rothefay produced the record of this truce, which provided that the Scots should have a free navigation; and in confequence of this, he demanded justice of the captain and crew of the privateer who had taken the prince. Henry ordered the matter to be inquired into: but the English brought their complaints as well as the Scots; and the A M claims

Scots cut off by the English.

Their defeat at Homeldon. An. 1402.

castle be-

Scotland, claims of both were fo intricate, that the examination fell to the ground, but at the same time the truce was prolonged.

Schemes of Henry Scotland. An. 1410.

In the end of the year 1409, or the beginning of 1410, the war was renewed with England, and Henry prepared to thrike a fatal blow which he had long meditated against Scotland. He had, as we have feen, entered into a league with the lord of the liles, where a confiderable evolution then happened. Walter Lefley had fucceeded to the estate and honours of the earl of Rois, in right of his wife, who was the heir. By that marriage, he had a fon named Alexander, who fucceeded him; and a daughter, Margaret, who was married to the lord of the Illes. This Alexander had married one of the regent's daughters; and dying young, he left behind him an only daughter, Euphane, who was deformed, and became a nun at North Berwick. Her grandfather, the regent, procured from her a refignation of the earldom of Rofs, to which she was undoubted heir, in favour of John earl of Buchan, but in prejudice of Donald lord of the ifles, who was the fon of Margaret, fifter to the earl Alexander, and confequently the nearest heir to the estate after the nun. Donald applied for redrefs; but his fuit being rejected, he, with his brother John, fled into England, where he was most gracionfly received by King Henry. According to the infructions given him by the English monarch, Donald returned to his own dominions in the ifles, where he raifed an army, and passing over into Ross-shire, violently seized on the estate in dispute. In a short time he found himself at the head of 10,000 Highlanders; with whom he marched into the province of Moray, and from thence to Strathbogie and Garioch, which he laid under contribution. Advancing towards Aberdeen, with a view to pay his troops with the plunder of that city, which was then a place of confiderable trade, he was met by the earl of Marr, whom the regent had employed to command against him, at a village called Harlaw, in the neighbourhood of Aberdeen. A fierce engagement enfued, in which great numbers were killed on both fides, and the victory remained uncertain: but Donald, finding himfelf in the midit of an enemy's country, where he could raife no recruits, began to retreat next day; and the shattered state of the royal army preventing him from being purfued, he escaped to his own dominions, where in a short time he submitted, and swore allegiance to the crown of Scotland.

March reallegiance

to Scot-

kand.

Battle of

Harlaw.

In the mean time, Henry continued the war with The earl of quently folicited by the Scots. He had now, howturns to his ever, fustained a great loss by the defection of the earl of March, who had gone over to the Scots, though the historians have not informed us of his quarrel with the English monarch. On his return to Scotland, he had been fully reconciled to the Douglas family, and now strove to distinguish himself in the cause of his country. This, with the countenance shown the Scots by the court of France, a bull published by the pope in their favour, and the vigorous behaviour of the regent himself, contributed to reduce Henry to reason; and we hear of no more hostilities between the two nations till after the death of the English monarch, which happened in the year 1413.

Au. 1415.

In 1415, the truce being either broken or expired,

the Scots made great preparations for belieging Ber- Scotlant. wick. The undertaking, however, came to nothing; all that was done during the campaign being the burning of Penrith by the Scots, and of Dumfries by the English. Next year a truce was agreed on, and a treaty entered into for the ranfom of King James; which was fo far advanced, that the English king agreed to his vifiting Scotland, provided he engaged to forfeit 100,000 pounds sterling, in case of his failure to return by a certain day. For reasons now un-Unsuccessknown, this treaty was broken off, and veft prepara-ful expedi-tions were made for a new invafion of Scotland; tion of which, however, was executed with fo little fucces, Henrythat it became known among the common people of Scotland by the name of the fule raid, or the foolish

In 1420, died Robert duke of Albany, regent of An. 1420 Scotland, at the age of 80; and fuch was the veneration which the Scots had for his memory, that his post of regent was conferred upon his eldest fon Murdoch, though a person no way qualified for that flation,-The war with England was now discontinued; but in France Henry met with the greatest opposition from the Scots auxiliaries, infomuch, that at last he proclaimed all the Scots in the service of the dauphin to be rebels against their lawful fovereign, and threatened to treat them as fuch wherever he found them. It was not long before he had an opportunity of putting His cruelty this menace in execution; for the town and caffle of to the Scote Melun being obliged through famine to capitulate, in France, one of the articles of capitulation was, that all the English and Scots in the place should be refigued to the absolute disposal of the king of England; and, in consequence of his resolution above-mentioned, caused twenty Scots foldiers who were found in the place to be hanged as traitors. In 1421, Henry returned to England, and with him James the Scots king. On his arrival there, he was informed that the Scots, under the earl of Douglas, had made an irruption into England, where they had burned Newark, but had been forced to return to their own country by a pessilence, though a new invafion was daily expected. Inflead of refenting this infult, Henry invited the earl of Douglas to a conference at York; in which the latter agreed to serve him during life, by sea and land, abroad or at home, against all living, except his own liege-lord the king of Scotland, with 200 foot and as many horse, at his own charges; the king of England, in the mean time, allowing an annual revenue of 2001, for paying his expence in going to the army by fea or land.

for the ranfom of King James; but he did not obtain his liberty till the year 1424. Henry V. was then dead; and none of his generals being able to supply his place, the English power in France began to decline. They then became fensible how necessary it was to be at peace Treaty for with Scotland, in order to detach such a formidable ally the liberty from the French interest. James was now highly ca-of James. refled, and at his own liberty, within certain bounds. The English even consulted him about the manner of conducting the treaty for his ranfom; and one Dougal Drummond, a prieft, was fent with a fafe-conduct for the bishop of Glasgow chancellor of Scotland, Dunbar earl of March, John Montgomery of Ardroffan, Sir Patrick Dunbar of Bele, Sir Robert Lawder of Ed-

At the same time, a new negociation was set on foot

rington,

Shriand rington, Sir William Borthwic of Borthwic, and Sir John Forrelter of Corftorphin, to have an interview, at Pomfret, with their mafter the captive king of Scotland. and there to treat respecting their common interests. Most of these noblemen and gentlemen had before been nominated to treat with the English about their king's return; and Dougal Drummond feems to have been a domestic favourite with James. Hitherto the Scottish king had been allowed an annual revenue of 7001, ; but while he was making ready for his journey, his equipages and attendants were increased to those bentting a fovereign; and he received a prefent from the English treasury of 1001, for his private expences. That he might appear with a grandeur every way fuitable to his dignity, at every stage were provided relays of horses, and all manner of fish, flesh, and fowl, with cooks and other fervants for furnishing out the most sumptuous royal entertainment. In this meeting at Pomfret, James acted as a kind of a mediator between the English and his own fubjects, to whom he fully laid himfelf open; but, in the mean time, the English regency issued a commission for fettling the terms upon which James was to be reftored, if he and his commissioners should lay a proper foundation for such a treaty. The English commissioners, were the bishops of Durham and Worcester, the earls of Northumberland and Westmoreland, the Iords Nevil, Cornwal, and Chaworth, with mafter John Wodeliam, and Robert Waterton. The instructions they received form one of the most curious passages of this history; and we shall here give them, as they are necessary for confirming all we have said concerning the dispositions of the two courts at this juncture.

> First, To make a faint opposition to any private conference between the king of Scotland and the Scotch

commissioners.

Secondly, To demand that, before the faid king shall have his full liberty, the kingdom of Scotland thould pay to the English government at least thirty-fix thoufand pounds as an equivalent, at two thousand pounds ayear, for the entertainment of King James, who was maintained by the court of England, and not to abate any thing of that fum; but if possible to get forty thou-

fand pounds.

Thirdly, That if the Scots should agree to the payment of the faid fum, the Englith commissioners should take fusficient fecurity and hostages for the payment of the same; and that if they should not (as there was great reason for believing they would) be so far mollified, by fuch easy terms, as to offer to enter upon a negociation for a final and perpetual peace between the two people, that then the English should propose the fame in the most handsome manner they could. Farther, that if fuch difficulties should arise as might make it impracticable immediately to conclude fuch perpetual peace, that the English ambassadors should, under pretence of paving a way for the same, propose a long

Fourthly, That if the English commissioners should fucceed in bringing the Scots to agree to the faid truce, they flould further urge, that they should not send to Charles of France, or to any of the enemies of England, any succours by sea or land. Farther, that the faid English commissioners should employ their utmost endeavours to procure the recal of the troops already furnished by the Scots to France. The English are commanded to inful very strenuously upon this point, Setland. but with difcretion.

Fifthly, If the Scots should, as a further bond of amity between the two nations, propose a marriage between their king and some noblewoman of England, the English commissioners are to make answer, "That the king of Scots is well acquainted with many neblewomen, and even those of the blood royal, in England; and that if the king of the Scots thall please to open his mind more freely on that head, the English commisfioners shall be very ready to enter upon conferences thereupon." But (continues the record) in cafe the Scotch commissioners thould make no mention of any fuch alliance by marriage, it will not appear decent for the English to mention the same, because the women of England, at least the noblewomen, are not used to offer themselves in marriage to men.

Sixthly, If there should be any mention made concerning reparation of damages, that the commissioners should then proceed upon the same as they should think moll proper; and that they should have power to offer fafe-conduct to as many of the Scots as flould be demanded, for to repair to the court of England. Those instructions are dated at Westminster, July 6th 1423.

Nothing definitive was concluded at this treaty, but that another meeting should be held at York instead of Pomfret. This meeting accordingly took place. The English commissioners were, Thomas bishop of Dur-ham, chancellor of England, Philip bishop of Winchefter Henry Percy earl of Northumberland, and Mr. John Wodeham. Those for Scotland were, William bithop of Glafgow, George earl of March, James Douglas of Balveny, his brother Patrick abbot of Cambufkenneth, John abbot of Balmerino, Sir Patrick Dunbar of Bele, Sir Rohert Lauder of Edrington, George Borthwic archdeacon of Glasgow, and Patrick Houston canon of Glafgow. On the 10th of September, after their meeting, they came to the following agree-

First, That the king of Scotland and his heirs, as an equivalent for his entertainment while in England, should pay to the king of England and his heirs, at London, in the church of St Paul, by equal proportions, the fum

of 40,000l. Sterling.

Secondly, That the first payment, amounting to the fum of ten thousand merks, should be made fix months after the king of Scotland's entering his own kingdom; that the like fum should be paid the next year, and fo on during the space of fix years, when the whole sum would be cleared; unless, after payment of forty thousand merks, the last payment of ten thousand should be remitted, at the intreaty of the most illustrious prince Thomas duke of Exeter.

Thirdly, That the king of Scotland, before entering his own kingdom, should give sufficient hostages for performance on his part. But, in regard that the Scots plenipotentiaries had no instructions concerning hostages,

it was agreed,

Fourthly, That the king of Scotland should be at Branspath, or Durham, by the first of March next, where he should be attended by the nobles of his blood, and other subjects, in order to fix the number and quality of the hostages.

Fifthly, That, to cement and perpetuate the amity of the two kingdoms; the governor of Scotland flould fend 4 M 2

Sectiond fend ambaffadors to London, with power to conclude a contract of marriage between the king of Scotland and

fome lady of the first quality in England. It is probable that James had already fixed his choice upon the lady Joan, daughter to the late earl of Somerfet, who was fon to John of Gaunt duke of Lancaster, by his second marriage; but he made his people the compliment, not only of confulting their opinion, but of concluding the match. The commissioners, after their agreement at York, proceeded towards London; and Thomas Somerville of Carnwath, with Walter Ogilvy, were added to their number. Being arrived at that capital, they ratified the former articles, and undertook for their king, that he should deliver his hostages to the king of England's officers, in the city of Durham, before the last day of the ensuing month of March; that he should also deliver to the faid officers four obligatory letters, for the whole fum of 40,000l. from the four burghs of Edinburgh, Perth, Dundee, and Aberdeen; that he should give his obligatory letter to the same purpole, before removing from Durham, and should renew the fame four days after his arrival in his own kingdom; that the hoftages might be changed from time to time for others of the same fortune and quality; that if any of them should die in England, others should be fent thither in their room; and that while they continued to flay in England, they should live at their own charges.

Marriage

of King

James. An. 1424

The marriage of James with the lady Joan Beaufort was celebrated in the beginning of February 1424. The young king of England presented him with a suit of cloth of gold for the ceremony; and the next day he received a legal discharge of 10,000 pounds, to be deducted from the 40,000 at which his ranfom was fixed, and which fum was given as the marriage-portion of the lady. The ceremony being performed, the king and queen let out for Durham, where the hoftages were waiting; and arrived at his own dominions, along with the earl of Northumberland and the chief of the northern nobility, who attended him with great pomp. On the 20th of April the same year, he was crowned at Scone; after which ceremony, he followed the example practifed by other fovereigns at that time, of knighting feveral noblemen and gentlemen.

During the dependence of the treaty for James's releafe, the Scots had emigrated to France, in fuch numbers, that no fewer than 15,000 of them now appeared in arms under the duke of Touraine; but as the history of the war in that country has already been given under the article FRANCE, we shall take no farther notice

of it, but return to the affairs of Scotland.

On his return James found himfelf in a disagreeable feveral abu-fituation. The great maxim of the duke of Albany, les in Scot- when regent, had been to maintain himself in power by exempting the lower class of people from taxes of every kind. This plan had been continued by his fon Murdoch; but as the latter was destitute of his father's abilities, the people abused their happiness, and Scotland became such a scene of rapine, that no commoner could fay he had a property in his own estate. The Stewart family, on their accession to the crown of Scotland, posfeffed a very confiderable patrimonial effate, independent of the flanding revenues of the crown, which confifted chiefly of customs, wards, and reliefs. The revenues of the paternal citate belonging to James, bad

they been regularly transmitted to him, would have Sectiond. more than maintained him in a splendour equal to his dignity, while he was in England; nor would he in that case have had any occasion for an allowance from the king of England. But as the duke of Albany never intended that his nephew (hould return, he parcelled out among his favourites the effates of the Stewart family, in fuch a manner that James on his return found all his patrimonial revenues gone, and many of them in the hands of his best friends; so that he had nothing to depend on for the support of himself and his court but the crown-revenues above-mentioned, and even fome of these had been mortgaged during the late regency. This circumstance, of itself sufficiently disagreeable, was attended with two others, which tended to make it more fo. The one was, that the hoftages which had been left for the king's ranfom in England, being all perfons of the first rank, were attended by their wives, families, children, and equipages, which rivalled those of the fame rank in England, and drew a great deal of ready money out of the nation. The other circumstance arose from the charge of the Scots army in France; where Charles, who had never been in a condition to support it, was now reduced to the utmost necessity; while the revenues of James himself were both scanty and precarious. To remedy these inconveniences, therefore, the king obtained from his parliament an act obliging the theriffs of the respective counties to inquire what lands and effates had belonged to his ancestors David II. Robert II. and Robert III.; and James formed a refolution of refuming these lands wherever they could be difcovered, without regard to perfons or circumstances. On this occasion many of the most illustrious personages in the kingdom were arrested: the duke of Albany, his Several of two fons, and the earl of Lennox the duke's father in the nobility law, were put to death, though their crimes are not executed.

specified by historians. James now proceeded with great fpirit to reform the abuses which had pervaded every department of the state, protected and encouraged learning and learned men, and even kept a diary in which he wrote down the names of all the learned men whom he thought deferving of his encouragement. James himfelf wrote fome poetry; and in music, was such an excellent compofer, that he is with good reason luoked upon as the father of Scots mufic, which has been fo much admired for its elegant fimplicity. He introduced organs into his chapels, and a much better ftyle of architecture into all buildings whether civil or religious. Nor did he confine his cares to the fine arts, but encouraged and protected those of all kinds which were useful to society; and, in short, he did more towards the civilization of his people than had been done by any of his prede-

ceffors.

In the mean time the truce continued with England. James, however, feemed not to have any inclination to enter into a lasting alliance with that kingdom. On the contrary, in 1428, he entered into a treaty with France; by which it was agreed, that a marriage should be concluded between the dauphin of France, afterwards Louis XI. and the young princess of Scotland; and so great was the necessity of King Charles for troops at that time, that he demanded only 6000 forces as a portion for the princefs.

The rest of the reign of James was spent in reform-

He reforms

The king murdered. An. 1437.

Scotland, ing abuses, curbing the authority of the great barons, and recovering the royal estates out of the hands of usurpers. In this, however, he used so much severity, that he was at last murdered, in the year 1437. The perpetrators of this murder were the earl of Athol; Robert Grahame, who was connected with the earl, and who was discontented on account of his losing the estate of Strathern, which had been re-annexed to the crown; and Robert, grand-child and heir to the earl of Athol, and one of the king's domestics. The king had difmiffed his army, without even referving to himfelf a body-guard, and was at fupper in a Dominican convent in the neighbourhood of Perth. Grahame had for some time been at the head of a gang of outlaws, and is faid to have brought a party of them to Perth in the dead of the night, where he posted them near the convent. Walter Straton, one of the king's cupbearers, went to bring some wine to the king while at fupper; but perceiving armed men standing in the pasfage, he gave the alarm, and was immediately killed. Catharine Douglas, one of the queen's maids of honour, ran to bolt the outer door; but the bar was taken away by Robert Stuart, in order to facilitate the entrance of the murderers. The lady thrust her arm into the staple; but it was instantly broken, and the conspirators rushed in upon the king. Patrick Dunbar, brother to the earl of March, was killed in attempting to defend his fovereign, and the queen received two wounds in attempting to interpole herfelf betwixt her hutband and the daggers of the affaffins. James defended himfelf as long as he could; but at last expired under the repeated strokes of his murderers, after having received 28

his reign.

1437.

In the reign of James I. feveral important regulations were made for the improvement of the internal polity of the kingdom. James's long refidence in England, then a great and happy nation, had taught him, that the prosperity of a people depended much on the wifdom of the legislature, in enacting falutary laws, and on the activity of the chief magnitrates in putting them in execution. In his third parliament, was patied an act, which affords the first appearance of a College of Justice in Scotland. By this it was ordained, that the king might appoint the chancellor, and three discreet persons of the three estates, to act as the Session, whenever the king should think fit, three times in the year, for determination of fuch causes as had before been adjudged by the king and his council. In 1425, it was enacted, that fix wife men of the three estates should examine the books of law, which then confifted of what were called Regiam Majestatem and Quoniam Archiamenta, and thould amend what needed amendment. Various statutes were made, called the Black Acts, for preserving domestic tranquillity, diminishing the exorbitant power of the nobles, and promoting religious worship. Happy would it have been for Scotland if fo wife a monarch had lived to execute strictly what had been enacted in so many parliaments for the general good of a wretched nation.

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After the murder of James I, the crown devolved on Succeeded his fon James II. at that time only seven years of age. by James A parliament was immediately called by the queen-20th March mother, at which the most cruel punishments were decreed to the murderers of the late king. The crime, no doubt, deserved an exemplary punishment ; but the

barbarities inflicted on fome of those wretches are flock. Scotlands ing to relate. Within less than fix weeks after the death of the king, all the conspirators were brought to Edinburgh, arraigned, condemned, and executed. The meaner fort were hanged; but on the earl of Athol and Robert Graham the most cruel torments were inflicted, fuch as pinching with hot irons, diflocation of the joints, &c. The earl of Athol, had, befides, a crown of red-hot iron put on his head; and was afterwards cut up alive, his heart taken out, and thrown into a fire. In short, so dreadful were these punishments, that Æneas Sylvius, the pope's nuncio, who beheld them, faid, that he was at a loss to determine whether the crime committed by the regicides, or the punishment inflicted upon them, was the greater.

As the late king had prescribed no form of regency An. 1438. in case of his death, the settlement of the government became a matter of great difficulty as well as importance. Archibald earl of Douglas, who had been created duke of Touraine in France, was by far the greatest subject in the kingdom; but as he had not been a favourite in the preceding reign, and the people were now disgusted with regencies, he was not formally appointed to the administration, though by his high rank he in fact enjoyed the supreme power as long as he lived; which, however, was but a flort time. He died Supreme the same year (1438); and Sir Alexander Livingstone power diviof Callendar was appointed to fucceed him as governor ded beof the kingdom, that is, to have the executive power, governor while William Crichton, as chancellor, had the direc- and chantion of the civil courts. This was a most unfortunate cellor of the partition of power for the public. The governor and kingdom. chancellor quarrelled; the latter took possession of the king's person and the castle of Edinburgh, to neither of which he had any right; but the former had on his fide the queen-mother, a woman of intrigue and spirit. Her fon was shut up in the castle of Edinburgh; and in a short time there was no appearance either of law or government in Scotland. The governor's edicts were counteracted by those of the chancellor under the king's name, and those who obeyed the chancellor were punished by the governor; while the young earl of Douglas, with his numerous followers and dependents, was a declared enemy of both parties, whom he equally fought

The queen-mother demanded access to her son, which The queen-Crichton could find no pretext for denying her; and mother fets fhe was accordingly admitted with a fmall train into her fon at the castle of Edinburgh. She played her part so well, liberty. and diffembled with fo much art, that the chancellor, believing the had become a convert to his cause, treated her with unbounded confidence, and fuffered her at all hours to have free access to her son's person. Pretending that she had vowed a pilgrimage to the white church of Buchan, the recommended the care of her fon's perfon, till her return, to the chancellor, in the most pathetic and affectionate terms; but, in the mean time, fhe fecretly fent him to Leith, packed up in a clothescheil; and both the and James were received at Stirling by the governor before the escape was known. As every thing had been managed in concert with Livingston, he immediately called together his friends; and laying before them the tyrannical behaviour of the chancellor, it was refolved to beliege him in the caltle of Edinburgh, the queen promiting to open her own gra-

to destrov.

naries

Scotland, for the use of the army. The chancellor foresaw the ftorm that was likely to fall upon him, and fought to prevent it by applying to the earl of Douglas. That haughty nobleman answered him in the terms already mentioned, and that he was preparing to exterminate both parties. The fiege of Edinburgh cattle being formed, the chancellor demanded a parley, and a perfonal interview with the governor; to which the latter, who was no ftranger to the fentiments of Douglas, readily agreed. Common danger united them in a common cause; and the chancellor resigning to the other the custody of the castle and the king's person, with the highest professions of duty and loyalty, the two competitors swore an inviolable friendship for each other. Next day the king cemented their union, by confirming both of them in their respective charges.

325 Intertine broils.

The lawless example of the earl of Douglas encouraged the other great landholders to gratify their private animolities, fometimes at the expence of their honour as well as their humanity. A family difference happened between Sir Allan Stuart of Darnley, and Thomas Boyd of Kilmarnock; but it was concluded that both parties should come to a peaceable agreement at Polmaisthorn, between Linlithgow and Falkirk, where Stuart was treacherously murdered by his enemy. Stuart's death was revenged by his brother, Sir Alexander Stuart of Beilmouth, who challenged Boyd to a pitched battle, the principals being attended by a retinue which carried the refemblance of small armies. The conflict was fierce and bloody, each party retiring in its turn, and charging with fresh fury; but at last victory declared itself for Stuart, the bravest of Boyd's attendants being cut off in the field. About this time, the islanders, under two of their chieftans, Lauchlan Maclean and Murdoc Gibson, notorious freebooters, invaded Scotland, and ravaged the province of Lenox with fire and fword. They were opposed by John Colquhoun of Luís, whom they flew, some fay treacheroufly, and others, in an engagement at Lochlomond, near Inchmartin. After this, the robbers grew more outrageous than ever, not only filling all the neighbouring country with rapine, but murdering the aged, infants, and the defenceless of both sexes. At last, all the labouring hands in the kingdom being engaged in domestic broils, none were left for agriculture; and a dreadful famine enfued, attended, as utual, by a peftilence. James was now about ten years of age; and the wifest part of the kingdom agreed, that the public distresses were owing to a total disrespect of the royal authority. The young earl of Douglas never had fewer than 1000, and fometimes 2000 horse in his train; so that none was found hardy enough to controll him. He pretended to be independent of the king and his courts of law; that he had a right of judicature upon his own large estates; and that he was entitled to the evercife of royal power. In confequence of this he issued his orders, gave protections to thieves and murderers, affected to brave the king, made knights, and, according to some writers, even noblemen, of his own dependents, with a power of fitting in parlia-

The queen-mother was not wholly guiltless of those abuses. She had fallen in love with and married Sir James Stuart, who was commonly called the Black knight of Lorn, brother to the lord of that title, and a defeen Stotland; dant of the house of Darnley. Affection for her husband caused her to renew her political intrigues; and not finding a ready compliance in the governor, her interest inclined towards the party of the Douglases. The governor fought to strengthen his authority by restoring the exercise of the civil power, and the reverence due to the perion of the fovereign.

The conduct of the lord Callendar was in many re- The queenspects not so defensible, either as to prudence or policy, mother and When the queen expreded her inclinations that her huf- her hufband might be admitted to some part of the administra-band imtion, the governor threw both him and his brother the pritoned. lord Lorn into prison, on a charge of undutiful practices against the state, and abetting the earl of Douglas in his enormities. The queen, taking fire at her hulband's imprisonment, was herfelf confined in a mean apartment within the cattle of Stirling; and a convention of the states was called, to judge in what manner she was to be proceeded against. The case was unprecedented and difficult; nor is it credible that the governor would have carried matters to such extremity, had he not had strong evidences of her illegal behaviour. She was even obliged to dissemble her resentment, by making an open profession before the states, that the had always been entirely innocent of her husband's practices, and that she would for the future behave as a peaceable and dutiful subject to the laws and the sovereign 327 Upon making this purgation (as Lindfay calls it), But are the was released, as also her hutband and his brother, being bailed by the chancellor and the lord Gordon, who became fureties for their good behaviour in the penalty of 4000 merks. The governor was afterwards accused of many arbitrary and partial acts of power; and indeed, if we consider his situation, and the violence of the parties which then divided Scotland, it was almost impossible, consistently with his own safety, to have exerted the virtues either of patriotism or moderation.

The chancellor was exceedingly vexed at the fmall regard which the governor paid to his person and dignity, and fecretly connected himfelf with the queenmother; but in the mean time he remained at Edin-burgh. The king and his mother continued all this time at Stirling; where the governor, on pretence of confulting the public fafety, and that of the king's perion, maintained a ftrong guard, part of which at-tended James in his javenile exercises and diversions. The queen-mother did not fail to represent this to her fon as a restraint on his liberty; and obtained his The chanconfent to put himself into the chancellor's hands. The cellor gets latter, who was a man of activity and courage, knew the king's well how to avail himself of this permission; and person into croffing the Forth in the dark with a ftrong body his hands. of horse, they surrounded the king as he was hunting next morning by break of day. It was eafy to perceive from the behaviour of James, that he was no flranger to the chancellor's attempt; but some of the king's guard offering to dispute the possession of his person, Sir William Livingston, the governor's eldest fon, restrained them, and suffered the king to depart quietly. This furprifal happened on a day when the governor was ablent from Stirling; and the chancellor, to make fure of his royal acquisition, entered Edin-

burgh

most councils.

Stotland, burgh at the head of 4000 horfe, where the king and he were received by the citizens with loud acclamations

bchaviour

The governor showed no emotion at what had hanpened; on the contrary, he invited the chancellor to an interview, and fettled all differences with him in an Rebellious amicable manner. The young lord Douglas, however, of the earl continued to brave both parties. As if he had been a of Douglas, fovereign prince, he demanded by his ambaffadors, Malcolm Fleming of Cumbernauld, and Allan Lawder, the inveiliture of the fovereignty of Touraine from Charles the feventh of France; which being readily granted him, ferved to increase his pride and infolence. The first-fruits of the accommodation between the two great officers of state was the holding of a parliament at Edinburgh, for redreffing the public diforders occasioned by the earl of Douglas; and encouragement was given to all persons who had been injured to make their complaints. The numbers which on that occafion reforted to Edinburgh were incredible; parents, children, and women, demanding vengeance for the murder of their relations, or the plunder of their effates; till, by the multiplicity of their complaints, they became without remedy, none being found bold enough to encounter the earl of Douglas, or to endeavour to bring him to a fair trial. The parties therefore were difinified without relief, and it was refolved to proceed with the haughty earl in a different manner. Letters were written to him by the governor and chancel-lor, and in the name of the states, requesting him to appear with his friends in parliament, and to take that lead in public affairs to which they were intitled by their high rank and great possessions. The manner in which those letters were penned made the thoughtless earl confider them as a tribute due to his greatness, and as proceeding from the inability of the government to continue the administration of public affairs without his countenance and direction. Without dreaming that any man in Scotland would be fo bold as to attack him, even fingle or unarmed, he answered the letters of the chancellor and governor, by affuring them that he intended to fet out for Edinburgh: the chancellor, on pretence of doing him honour, but in reality to quiet his fuspicions, met him while he was on his journey; and inviting him to his castle of Crichton, he there entertained him for fome days with the greatest magnificence and appearance of hospitality. The earl of Douglas believed all the chancellor's professions of friendship, and even sharply checked the wifest of his followers, who counfelled him not to depend too much on appearances, or to trust his brother and himself at the fame time in any place where the chancellor had power. The latter had not only removed the earl's fufpicion, but had made him a kind of convert to patriotifm, by painting to him the miferies of his country, and the glory that must redound to him and his friends in removing them. It was in vain for his attendants to remind him of his father's maxim, never to rifk himfelf and his brother at the same time: he without hesitation attended the chancellor to Edinburgh; and being admitted into the castle, they dined at the same table with the king. Towards the end of the entertainment, a bull's head, the certain prelude of immediate death, was ferved up. The earl and his brother started to their

feet, and endcavoured to make their escape : but armed Scotland. men rushing in, overpowered them, and tying their hands and those of Sir Malcolm Fleming with cords, 15 put to they were carried to the hill and beheaded. The young acast with king endeavoured with tears to procure their pardon; his brother. for which he was feverely checked by the unrelenting

In 1443, the king being arrived at the age of 14, An. 1443. declared himfelf out of the years of minority, and took upon himfelf the administration of affairs. He appears to have been a prince of great spirit and resolution : and he had occasion for it. He had appointed one Robert Sempil of Fulwood to be chief governor of the callle of Dumbarton; but he was killed by one Galbraith (a noted partizan of the earl of Douglas), who feized upon the government of the castle. The popularity of the family of Douglas having formewhat fubfided, and the young earl finding himlelf not supported by the chief branches of his family, he began to think, now that the king was grown up, his fafeil course 331 would be to return to his duty. He accordingly re-The young paired to the king at Stirling; and voluntarily throw-earliabnuts ing himfelf at his majetly's feet, implored pardon for to the king, all his transgressions, and solemnly promised that he and is rewould ever after fet a pattern of duty and loyalty to lavour, all the rest of his subjects. The king, finding that he infifted on no terms but that of pardon, and that he had unconditionally put himfelf into his power, not only granted his request, but made him the partner of his in-

James had always difliked the murder of the earl of Douglas and his brother; and the chancellor, perceiving the afcendancy which this earl was daily gaining at court, thought it high time to provide for his own fafety. He therefore refigned the great feal, and retired to the castle of Edinburgh, the custody of which. he pretended had been granted to him by the late king during his life, or till the prefent king should arrive atthe age of 21; and prepared it for a fiege. The lord Great di-Callendar, who knew himself equally obnoxious as sturbances Crichton was to the earl of Douglas, and that he could in scotnot maintain his footing by himfelf, refigned likewife land. all his posts, and retired to one of his own houses, but kept possession of the castle of Stirling. As both that and the castle of Edinburgh were royal forts, the two lords were summoned to surrender them; but instead of complying, they justified their conduct by the great power of their enemies, who fought their destruction, and who had been fo lately at the head of robbers and outlaws: but promifed to furrender themselves to the king as foon as he was of lawful age, (meaning, we suppose, either 18 or 21). This answer being deemed contumacious, the chancellor and the late governor, with his two fons Sir Alexander and Sir James Livingston, were proclaimed traitors in a parliament which was fummoned on purpose to be held at Stirling. In another parliament held at Porth the fame year, an act paffed, that all the lands and goods which had belonged to the late king should be possessed by the present king to the time of his lawful age, which is not specified. This act was levelled against the late governor and chancellor, who were accused of having alienated to their own uses, or to those of their friends, a great part of the royal effects and jewels; and their effates being confifeated, the

Scotland, execution of the fentence was committed to John Forrester of Corstorphin, and other adherents of the carl of Douglas.

This fentence threw all the nation into a flame. The caftle of Crichton was belieged; and being furrendered on the king's fummons and the display of the royal banner, it was levelled with the ground. It foon appeared that the governor and chancellor, the latter especially, had many friends; and in particular Kennedy archbishop of St Andrews, nephew to James the first, who sided with them from the dread and hatred they bore to the earl of Douglas and his family. Crichton thus foon found himfelf at the head of a body of men; and while Forrester was carrying fire and fword into his estates and those of the late governor, his own lands and those of the Douglases were overrun. Corftorphin, Abercorn, Blackness, and other places, were plundered; and Crichton carried off from them more booty than he and his adherents had loft. Particular mention is made of a fine breed of mares which Douglas loft on this occasion. That nobleman was fo much exasperated by the great damages he had fustained, that he engaged his friends the earl of Crawford and Alexander Ogilvy of Innerquharity, to lay waste the lands of the archbishop of St Andrew's, whom he confidered as the chief support of the two ministers. This prelate was not more considerable by his high birth, than he was venerable by his virtue and fanctity; and had, from a principle of confcience, opposed the earl of Douglas and his party. Being confeious he had done nothing that was illegal, he first admonished the earl of Crawford and his coadjutor to defift from destroying his lands; but finding his admonitions ineffectual, he laid the earl under an excommunication.

That nobleman was almost as formidable in the northern, as the earl of Douglas had been in the fouthern, parts of Scotland. The Benedictine monks of Aberbrothwic, who were possessed of great property, had chosen Alexander Lindsay, his eldest son, to be the judge or bailiff of their temporalities; as they themselves, by their profession, could not sit in civil or criminal courts. Lindfay proved fo chargeable to the monks, by the great number of his attendants, and his high manner of living, that their chapter removed him from his post, and substituted in his place Alexander Ogilvy of Innerquharity, guardian to his nephew John Ogilvy of Airley, who had an hereditary claim on the bailiwick. This, notwithstanding their former intimacy, created an irreconcileable difference between the two families. Each competitor firengthened himfelf by calling in the affiftance of his friends; and the lord Gordon taking part with the Ogilvies, to whom he was then paying a vifit, both parties immediately mustered in the neighbourhood of Aberbrothwic. The earl of Crawford, who was then at Dundee, immediately posted to Aberbrothwic, and placing himfelf between the two armies, he demanded to fpeak with Ogilvy; but, before his request could be granted, he was killed by a common foldier, who was ignorant of his quality. His death exasperated his friends, who immediately rushed on their enemies; and a bloody conflict enfued, which ended to the advantage of the Lindfays, that is, the earl of Crawford's party. On that of the Ogilvies were Lilled Sir John Oli hat of Aberdalgy, John Forbes of Pitiligo, Alexander Barclay of Gartley, Robert Max. Scotland wel of Teling, Duncan Campbell of Campbelfether, William Gordon of Eurrowfield, and others, With those gentlemen, about 500 of their followers are faid to have fallen; but some accounts diminish that number, Innerquharity himfelf, in flying, was taken prifoner, and carried to the earl of Crawford's house at Finhaven. where he died of his wounds; but the lord Gordon (or. as others call him, the carl of Huntley) escaped by the fwiftness of his horse.

This battle feems to have let loofe the fury of civil discord all over the kingdom. No regard was paid to magistracy, nor to any description of men but that of clergy. The most numerous, fiercest, and best allied family, wreaked its vengeance on its foes, either by force or treachery; and the enmity that actuated the parties, stifled every fentiment of honour, and every feeling of humanity. The Lindfavs, fecretly abetted and firengthened by the earl of Douglas, made no other use of their victory than carrying fire and fword through the estates of their enemies; and thus all the north of Scotland presented scenes of murder and devastation. In the west, Robert Boyd of Duchal, governor of Dumbarton, treacherously surprifed Sir James Stuart of Achmynto, and treated his wife with fuch inhumanity, that the expired in three days under her confinement in Dumbarton castle. The castle of Dunbar was taken by Patrick Hepburn of Hales. Alexander Dunbar dispossessed the latter of his castle of Hales; but it was retaken by the partifans of the earl of Douglas, whose tenants, particularly those of Annandale, are faid to have behaved at that time with peculiar fierceness and cruelty. At last, the gentlemen of the country, who were unconnected with those robbers and murderers, which happened to be the case with many, thut themselves up in their several houses; each of which, in those days, was a petty fortress, which they victualled, and provided in the beit manner they could for their own defence. This wife resolution seems to have been the first measure that composed the public commotions.

The earl of Douglas, whose power and influence at court still continued, was sensible that the clergy, with the wifer and more difinterested part of the kingdom, confidered him as the fource of the dreadful calamities which the nation fuffered; and that James himfelf. when better informed, would be of the fame opinion. He therefore fought to avail himself of the juncture, by forming fecret but strong connections with the earls of Crawford, Rofs, and other great noblemen, who defired to see their feudal powers restored to their full vigour. The queen-dowager and her hufband made little or no figure during this feafon of public confusion : she had retired to the caftle of Dunbar, while it was in Hepburn's possession, where she died soon after. She left by her fecond husband three fons; John, who in 1455 was made earl of Athol, by his uterine brother the king; James, who under the next reign, in 1469, was created earl of Buchan; and Andrew, who afterwards became bishop of Murray. As the earl of Douglas was an enemy to the queen dowager's husband, the latter retired to England, where he obtained a pass to go abroad, with 20 in his train; but being taken at fea by the Flemish pirates, he died in confinement.

The great point between the king and Sir William

Crichton.

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5 offend. Crichton, whether the latter should give up the castle to his mijefly, remained till undecided; and by the be in created lord-lieutenant of the kingdom, it had of the caftle, or an opinion entertained by Douglas that Crichton would be a valuable acquisition to his party, procured better terms for the latter than he could otherwife have expected; for he and his followers were offered a full indemnity for all part offences, and a promile was made that he should be restored not only to He accepted the conditions; but refused to act in any public capacity till they were confirmed by a parliament, which was foon after held at Perth, and in which he was reflored to his effate and honours. By this reconciliation between Douglas and Crichton, the former was left at full liberty to profecute his vengeance against the lord Callendar, the late governor, his friends and family. That vengeance was exercifed with rigour, The governor himfelf. Sir James Dundas of Dundas. and Sir Robert Bruce of Clackmannan, were forced to fave their lives by the loss of their estates; but even that could not preserve their liberty, for they were fent prisoners to the castle of Dumbarton. The fate of Alexander, the governor's eldeit fon, and of two other gentlemen of his name and family, was still more lamentable; for they were condemned to lofe their heads. These severities being inflicted after the king fwelled the public outcry against the earl of Douglas. We have in Lindfay an extract of the speech which Alexander Livingston, one of the most accomplished gentlemen of his time, made on the fcaffold, in which he complained, with great bitterness, of the cruel treatment which his father, himfelf, and his frlends, had undergone; and that he fuffered by a packed jury of his

The king being now about 18 years of age, it was thought proper that a fuitable confort should be provided for him; and, after various confultations, Mary, the daughter of Arnold duke of Gueldres, was chofen, at the recommendation of Charles king of France, though the marriage was not completed till fome time after. This produced an immediate rupture with Eng-Invasion of land. The earls of Salisbury and Northumberland entered Scotland at the head of two feparate bodies. The by the Eng-former burnt the town of Dumfries, as the latter did that of Dunbar; while Sir John Douglas of Balveny made reprilals by plundering the county of Cumberland, and burning Alnwic. On the return of the English armics to their own country, additional levies were m de, and a fresh invasion of Scotland was resolved on under the earl of Northumberland, who had with him a lieutenant, whom the Scots of those days, from the bushiness and colour of his beard, called Magnus with the red mane. He was a foldier of fortune, but wars; and he is faid to have demanded no other recompense for his services from the English court, but that he should enjoy all he could conquer in Scotland. The Scots, in the mean time, had raifed an army commanded by George Douglas earl of Ormond, and under him by Wallace of Craigie, with the lords Maxwell and Johnston. The English having passed Solway frith, Vor XVIII Pat II.

ravaged all that part of the country which belonged to Scotland. the Scots; but hearing that the earl of Ormond's army was approaching, called in their parties, and fixed their camp on the banks of the river Sark. Their advanced guard was commanded by Magnus; their centre by the poled of Welch, by Sir John Pennington, an other of

The Scots drew up in three divisions likewife. Their The battle right wing was commanded by Wallace, the centre by of Said the earl of Ormond, and their left wing by the lords Maxwell and Johnston. Before the battle began, the earl of Ormond harangued his men, and inspired them with very high refentment against the English, who, he faid, had treacherously broken the truce. The fignal for ward on their enemies: but, as usual, were received by so terrible a discharge from the English archers, that their impetuofity must have been stopped, had not their brave leader Wallace put them in mind, that their forefathers had always been defeated in diffant fights by the English, and that they ought to trust to their fwords and spears; commanding them at the same time to follow his example. They obeyed, and broke in upon the English commanded by Magnus, with such fury, as foon fixed the fortune of the day on the fide of the Scots, their valour being fuitably seconded by the other two divisions. The flaughter (which was the more confiderable as both parties fought with the utmost animofity) fell chiefly upon the division commanded by Magnus, who was killed, performing the part of a brave officer; and all his body-guard, confit-

The battle then became general : Sir John Penning-Th ton's division, with that under the earl of Northumber-lib cour ; land, was likewife routed; and the whole English army, denamed. flruck by the lofs of their champion, fled towards the Solway, where, the river being swelled by the tide, numbers of them were drowned. The lofs of the Englith in flain amounted to at least 3000 men. Among the prifoners were Sir John Pennington, Sir Robert Harrington, and the earl of Northumberland's eldeft fon the lord Percy, who loft his own liberty in forwarding his father's escape. Of the Scots about 600 were killed; but none of note, excepting the brave Wallace, who died three months after of the wounds he had received in this battle. The booty that was made on this occasion is faid to have been greater than any that had fallen to the Scots fince the battle of Ban-

The remaining history of this turbulent reign confifts Rebellion almost entirely of a relation of the cabals and conspira- of the earl cies of the great men. The earl of Douglas had entered of Douginto a confederacy with the earls of Crawford, Moray, others, and Rofs, and appeared on all occasions with such a train of followers as bade defiance to royal power itself. This infolence was detelted by the wifer part of the nation; and one Maclellan, who is called the Tutor of Bomby, and was nephew to Sir Patrick Gray, captain of the king's guard, refused to give any attendance on the

earl, or to concur in his measures, but remained at home as a quiet fubject. This inoffensive behaviour was violently feizing on Maclellan's house and person, he fent him close prisoner to the castle of Douglas. As Maclellan

Scotland. Maclellan was a gentleman of great worth and reputation, his uncle Gray applied carneilly to James in his favour; and fuch was that prince's regard for Maclellan, that he wrote and figned a letter for his release, addressed to the earl of Douglas. Upon Gray's delivering this letter to Douglas at his castle, the latter feemed to receive it with the highest respect, and to treat Gray with the greatest hospitality, by inviting 'im to dinner; but, in the mean time, he gave private orders that Maclellan's head should be struck off, and his body exposed upon the green before the castle covered with a linear cloth. After dinner, the earl told Gray, that he was ready to obey the king's commands; and conducting him to the green, he showed him the lifeless trunk, which he said Gray might dispose of as he pleased. Upon this, Gray mounted his horse, and trufted to his furiftness for his own safety; for he was purfued by the earl's attendants to the gates of Edinburgh.

The confpiracy against James's government was now no longer a fecret. The lords Balveny and Hamilton, with fuch a number of other barons and gentlemen, had acceded to it, that it was thought to be more powerful than all the force the king could bring into the field. Even Crichton advised James to dissemble. The confederates entered into a folemn bond and oath never to defert one another during life; and, to make use of Drummond's words, "That injuries done to any one of them should be done to them all, and be a common quarrel; neither should they defill, to their best abilities, to revenge them: that they should concur indifferently against whatsoever persons within or without the realm. and spend their lives, lands, goods, and fortunes, in defence of their debates and differences whatfoever." All who did not enter into this affociation were treated as enemies to the public; their lands were destroyed, their effects plundered, and they themselves imprisoned or murdered. Drummond fays, that Douglas was then able to bring 40,000 men into the field; and that his intention was to have placed the crown of Scotland on his own head. How far he might have been influenced by a fcene of the same nature that was then pasfing between the houses of York and Lancaster in England, we shall not pretend to determine; though it does not appear that his intention was to wear the crown him elf, but to render it despicable on his fovereign's head. It is evident, from his behaviour, that he did not affect royalty; for when James invited him to a conference in the castle of Stirling, he offered to comply provided he had a safe-conduct. This condition plainly implied, that he had no reliance on the late act of parliament, which declared the proclamation of the king's peace to be a fufficient fecurity for life and fortune to all his subjects; and there is no denying that the fafe conduct was expedited in the form and manner required.

This being obtained, the earl began his march toward. Stirling with his usual great retinue; and arrived there on Shrove-Tuesday. He was received by the king as if he had been the best of his friends, as and the earl we'l as the greatest of his subjects, and admitted to sup with his majesty in the castle, while his attendents were dispersed in the town, little suspecting the catastrophe that followed. The entertainment being over, the king told the earl with an air of frankness, "That as he was

now of age, he was resolved to be the father of all his Scotlend. people, and to take the government into his own hands; that his lordship, therefore, had no reason to be under any apprehensions from his old enemies Callendar and Crichton; that there was no occasion to form any confederacies, as the law was ready to protect him; and that he was welcome to the principal direction of affairs under the crown, and to the first place in the royal confidence; nay, that all former offences done by himfelf and his friends thould be pardoned and forgotten."

This speech was the very reverse of what the earl of Douglas aimed at. It rendered him, indeed, the first fubject of the kingdom; but flill he was controulable by the civil law. In thort, on the king's peremptorily putting the question to him, he not only resused to diffolve the confederacy, but upbraided the king for his government. This produced a paffionate rejoinder on the part of James; but the earl represented that he was under a fafe-conduct, and that the nature of his confederacy was fuch, that it could not be broken but by 358 the common confent of all concerned. The king in-The king

fifted on his fetting the example; and the earl con kills him tinuing more and more obflinate, James flabbed him with his own hands with his dagger; and armed men rushing into the room, finished the atrocious deed.

After the death of the earl of Douglas, the confederacy came to nothing. The infurgents excused them-felves as being too weak for such an enterprise; and were contented with trailing the fafe-conduct at a horse's tail, and proclaiming, by trumpets and horse, the king a perjured traitor. They proceeded no far-ther; and each departed to his own habitation, after agreeing to affemble with fresh forces about the beginning of April. James loft no time in improving this fhort respite; and found the nation in general much better disposed in his favour than he had reason to expect. The intolerable oppressions of the great barons made his subjects esseem the civil, far preferable to the feudal, subjection: and even the Douglases were divi-ded among themselves: for the earl of Angus and Sir John Douglas of Dalkeith were among the most forward of the royalists. James at the same time wrote letters to the earl of Huntly, and to all the noblemen of his kingdom who were not parties in the confederacy, besides the ecclesisatics, who remained firmly attached to his prerogative. Before the effect of those letters could be known, the infurgents had returned to Stilling (where James still wisely kept himself on the desensive); repeated their insclences, and the opprobrious treatment of his fafe-conduct; and at last they plundered the town, and laid it in aftes. Being still unable to take the castle, partly through their own divisions, and partly through the diversity of the operations they were obliged to carry on, they left Stirling, and deflroyed the eflate of Sir John Douglas of Dalkeith, whom they confidered as a double traitor, because he was a Douglas and a good subject. They then besieged his castle: but it was so bravely defended by Patrick Cockburn, a gentleman of the family of Langton, that they raised the siege; which gave the royal party farther leifure for humbling them.

All this time the unhappy country was fuffering the most cruel devastations; for matters were now come to fuch extremity, that it was necessary for every man to be

Scotland. a royalist or a rebel. The king was obliged to keep on the defensive; and though he had ventured to leave the castle of Stirling, he was in no condition to face the re-bels in the field. They were in possession of all the strong paffes by which his friends were to march to his affiftance; and he even confulted with his attendants on the means of escaping to France, where he was fure of an hospitable reception. He was diverted from that resolution by Archbishop Kennedy and the carl of Angus, who was himfelf a Douglas, and prevailed on to wait for the event of the earl of Huntly's attempts for his fervice. This nobleman, who was descended from the Seatons, but by marriage inherited the great effates of the Gordons in the north, had raifed an army for James, to whose family he and his ancestors, by the Gordons as well as the Seatons, had been always remarkably devoted. James was not mistaken in the high opinion he had of Huntly; and in the mean time he issued circular letters to the chief ecclefiattics and bodies-politic of his kingdom, fetting forth the necessity he was under of proceeding as he had done, and his readiness to protect all his loyal subjects in their rights and privileges against the power of the Douglaies and their rebellious adherents. Before these letters could have any effect, the rebels had plundered the defencelefs houses and eslates of all who were not in their confederacy, and had proceeded with a fury that turned to the prejudice of their cause.

The indignation which the public bad conceived

against the king, for the violation of his fafe-conduct, began now to subside; and the behaviour of his enemies in some measure juitified what had happened, or at least made the people fuspect that James would not have proceeded as he did without the strongest provocation. The forces he had affembled being unable, as yet, to act offenfively, he refolved to wait for the earl of Huntly, who by this time was at the head of a confiderable army, and had begun his murch fouthwards. He had been joined by the Forbefes, Ogilvies, Leflies, Grants, Irvings, and other relations and dependents of his family; but having advanced as far as Brechin, he was opposed by the earl of Crawford, the chief ally of the earl of Douglas, who commanded the people of Angus, and all the adherents of the rebels in the neighbouring counties, headed by foreign officers. The two armies joining battle on the 18th of May, victory was for fome time in fulpence; till one Coloss of Bonnymoon, on whom Crawford had great dependence, but whom he had imprudently difobliged, came over to the royalids with the division he commanded, which was the strongest part of Crawford's army, armed with battle axes, broadfwords, and long spears. His defection gave the fortune of the day to the earl of Huntly, as it left the centre flank of Crawford's army entirely exposed to the royalists. He himself lost one of his brothers; and fled with another, Sir John Lindfay, to his house at Finhaven, where it is reported that he broke out into the following ejaculation: " That he would be content to remain feven years in hell, to have in fo timely a feafon done the king his mafter that fervice the earl of Huntly had performed, and carry that applause and thanks he was to receive from him.

No author informs us of the lofs of men on either fide, though all agree that it was very confiderable on the whole. The earl of Huntly, particularly, loft two brothers, William and Henry; and we are told, Scotland. that, to indemnify him for his good fervices, as well as for the rewards and prefents which he had made in lands privileges to his faithful followers, the king bestowed on him the lands of Badenoch and Lochaber.

The battle of Brechin was not immediately decifive The rebelin favour of the king, but proved fo in its confequences, hon fup-The earl of Moray, a Douglas likewife, took advantage preffed. of Huntly's absence to harass and ravage the estates of all the royalifts in the north; but Huntly returning from Brechin with his victorious army, drove his enemy into his own county of Moray, and afterwards expelled him even from thence. James was now encouraged by the advice of his kinfman Kennedy archbithop of St Andrew's, to whole firmnels and prudence he was under great obligations, to proceed against the rebels in a legal manner, by holding a parliament at Edinburgh, to which the confederated lords were fummoned; and upon their non-compearance, they were folemnly declared traitors. This proceeding feemed to New affemake the rebellion rage more fiercely than ever; and ciation aat last, the consederates, in fact, dilowned their alle-gainst the giance to James. The earls of Douglas, Crawford, Or- the earls of mond, Moray, the lord Balveny, Sir James Hamilton, Douglas, and others, figned with their own hands public mani- Crawford, festoes, which were pasted on the doors of the principal &c. churches, importing, " That they were resolved never to obey command or charge, nor answer citation for the time coming; because the king, so far from being a just maiter, was a bloodfucker, a murderer, a transgreffor of hospitality, and a surpriser of the innocent." It does not appear that these atrocious proceedings did any fervice to the cause of the confederates. The carl of Hantly continued victorious in the north; where he and his followers, in revenge for the earl of Morav's having burnt his castle of Huntly, seized or ravaged all that nobleman's great estate north of the Spey. When he came to the town of Forres, he burned one fide of the town, because it belonged to the earl, and fpared the other, because it was the property of his own friends. James thought himfelf, from the behaviour of the earl of Douglas and his adherents, now warranted to come to extremities; and marching into Annandale, he carried fire and fword through all the chates of the Douglales there. The earl of Crawford, on the other hand, having now recruited his thrength, destroyed the lands of all the people of Angus and of all others who had abandoned him at the buttle of Brechin; though there is reason to believe, that he had already fecretly refolved to throw himfelf upon the king's

Nothing but the most obtlinate pride and refentment could have prevented the earl of Douglas, at this time, from taking the advice of his friends, by returning to his duty; in which case, James had given sufficient intimations that he might expect pardon. He coloured his contumacy with the specious pretent, that his brother's face, and those of his two kinkmen, sufficiently instructed him never to trust to James or his ministers; that he had gone too far to think now of receding; and that kings, when on e offended, as James had been, never pard med in good e mest. Such were the chief reasons, with others of less consequence, which Drammond has put into the mouth of Douglas at this time. James, after his expedition inco Annundale, found the

339 Battle of Brechin, rebels are defeated.

as their king.

Crawford,

Scotland, feafon too far advanced to continue his operations; and returning to Edinburgh, he marched northwards to Angus, to reduce the earl of Crawford, who was the fecond rebel of power in the kingdom. That nobleman had hitherto deferred throwing himfelf at the king's feet, and had refumed his arms, in the manner related, only in hopes that better terms might be obtained from James for himself and his party. Perceiving that the earl of Douglas's obstinacy had cooled some other lords of the confederacy, and had put an end to all hopes of a treaty, he refolved to make a merit of breaking the con-342 Broken by federacy, by being the first to submit. James having arrived in Angus, was continuing his march through the country, when the earl and some of his chief followers fell on their knees before him on the road, bareheaded and barefooted. Their dreary looks, their fuppliant poftures, and the tears which ftreamed abundantly from the earl, were expressive of the most abject contrition, which was followed by a penitential speech made by the earl, acknowledging his crimes, and im-

James was then attended by his chief counsellors. particularly Archbithop Kennedy, who, he refolved, should have some share in the favour he meant to extend to the earl. He asked their advice; which proving to ceived into be on the merciful fide, James promifed to the earl and his followers the restitution of all their estates and honours, and full pardon for all that had paffed. The earl, as a grateful return for this favour, before the king left Angus, joined him with a noble troop of his friends and followers; and attending him to the north, was extremely active in suppressing all the remains of the

ploring forgiveness.

rebellion there. The fubmillion of the earl of Crawford was followed by that of the earl of Douglas; which, however, continued only for a fhort time. This powerful nobleman foon refumed his rebellious practices; and, in the year An. 1454 1454, raifed an army to fight against the king. The king erected his flandard at St Andrew's; marched from thence to Falkland; and ordered all the forces of Fife, Angus, and Strathern, with those of the northern parts, to rendezvous by a certain day at Stirling; which they did to the number of 30,000. Douglas affembled his forces, which amounted to 40,000, fome fay 60 000 men, on the fouth fide of the river Carron, about half way between Stirling and Abercorn. Notwithflanding this fuperiority of force, however, the earl did not think it proper to fight his fovereign. Archbishop Kennedy, the prelate of St Andrew's, had advised the king to divide his enemies by offering them pardon feparately; and fo good an effect had this, that in a few army, except about 100 of his nearest friends and domeffics, with whom he retired towards England. His mediately; but the earl, for reasons now unknown, rea confider ble body of forces, confilling of his own tethough at the name of Douglas, continued firm in the royal c . C. Ah co : a cat enfued at Ancram muir ; where Douglas was entirely destated, and he himfelf with great difficulty efcuped to an adjacent wood.

What his fate was after this battle does not appear; but Scotland. it is certain that his effates were afterwards forfeited to the king.

The reft of the reign of James II. was fpent in ma-King Ja. II. king proper regulations for the good of his people. In killed by 1460 he was killed at the fiege of Roxburgh cattle, by accident the burfting of a cannon, to which he was too near An. 1460. when it was discharged. This siege he had undertaken in favour of Margaret queen of England, who, after lofing feveral battles, and being reduced to diffrefs, was obliged to apply to James for relief. The nobility who were prefent concealed his death, for fear of discouraging the foldiers, and in a few hours after his queen appeared in the camp, and presented her son, James III.

James III. was not quite feven years of age at his ac- James III. cession to the crown. The administration naturally devolved on his mother; who pushed the siege of Roxburgh caftle with fo much vigour, that the garrifon was obliged to capitulate in a few days; after which the army ravaged the country, and took and difmantled the cattle of Wark .- In 1466, negociations were begun for Marriagea marriage between the young king and Margaret prin- treaty with cels of Denmark; and, in 1468, the following condi-of Dentions were flipulated. 1. That the annual rent hither-mark, to paid for the northern ifles of Orkney and Shetland An. 1468. should be for ever remitted and extinguished. 2. That King Christiern, then king of Denmark, should give 60,000 florins of gold for his daughter's portion, whereof 10,000 should be paid before her departure from

made over to the crown of Scotland, by way of pledge for the remainder; with this express proviso, that they should return to that of Norway after complete payment of the whole fum. 3. That King James thould, in cafe. of his dying before the faid Margaret his fpouse, leave her in possession of the palace of Linlithgow and castle of Down in Menteith, with all their appurtenances, and the third part of the ordinary revenues of the crown, to be enjoyed by her during life, in case she should choose to refide in Scotland. 4. But if the rather chose to return to Denmark, that in lieu of the faid liferent, palace, and castle, she should accept of 120,000 florins of the Rhine; from which fum the 50,000 due for the remainder of her portion being deduced and allowed, the islands of Orkney should be reannexed to the crown of Norway as before.

Denmark; and that the islands of Orkney should be

When these articles were agreed on, Christiern found himself unable to fulfil his part of them. Being at that time engaged in an unfuccefsful war with Sweden, he could not advance the 10,000 florins which he had promifed to pay down as part of his daughter's fortune. He was therefore obliged to apply to the plenipotentiaries to accept of 2000, and to take a farther mortgage of the iffes of Shetland for the other 8000. The Differ out Scottish plenipotentiaries, of whom Boyd earl of Ar- the earl of ran was one, gratified him in his request; and this armily. concession is thought to have proved fatal to the earl. Certain it is, that his father was beheaded for long before, and for which he in vain produced a parliamentary indemnity: the carl himfelf was divorced

from his wife the king's fifter, and obliged to live in

perpetual eaile, while the countefs was married to an-

He : -

Scotland.

Beginning of James's misfor-

Is infatuated with

Death of

In 1.176, those misfortunes began to come on James which afterwards terminated in his ruin. He had made his brother, the duke of Albany, governor of Berwick; and had entrusted him with very extensive powers on the borders, where a violent propenfity for the feudal law still continued. The Humes and the Hepburns, An. 1476. then the most powerful subjects in those parts, could not brook the duke of Albany's greatness, especially after he had forced them, by virtue of a late act, to part with some of the estates which had been inconsiderately granted them in this and the preceding reign. The pretended science of judicial astrology, by which James happened to be incredibly infatuated, was the eafiest as well as most effectual engine that could aid of aftrology, their purposes. One Andrew, an infamous impostor in that art, had been brought over from Flanders by James; and he and Schevez, the archbishop of St Andrew's, concurred in perfuading James that the Scotch lion was to be devoured by his own whelps; a prediction that, to a prince of James's turn, amounted to a certainty.

The condition to which James reduced himfelf by his belief in judicial aftrology, was truly deplorable. The princes on the continent were fmitten with the fame infatuation; and the wretches who belieged his person had no fafety but by continuing the delution in his mind. According to Lindfay, Cochran, who had fome knowledge of architecture, and had been introduced to James as a master-mason, privately procured an old woman, who pretended to be a witch, and who heightened his terrors by declaring that his brother intended to murder him. James believed her; and the unguarded manner in which the earl of Mar treated his weakness, exasperated him so much, that the earl giving a farther earl of Mar. examperated finit to indent, that against his brother's unworthy favourites, was arrested, and committed to the castle of Craig Miller; from which he was brought to the Canongate, a fuburb of Edinburgh, where he fuf-

fered death.

The duke of Albany was at the callle of Dunbar All any ar- when his brother the earl of Mar's tragedy was acted; refted, but and James could not be eafy without having him likewife in his power. In hope of surprising him, he marched to Dunbar: but the duke, being apprized of his coming, fled to Berwick, and ordered his cattle of Dunbar to be furrendered to the lord Evendale, though not before the garrifon had provided themselves with boats and fmall veffels, in which they escaped to Eng-James was fo well ferved with spies, that he was feized, that he should speak with none but in the presence of his keepers. The duke had probably suspected and provided against this disagreeable event; for we are

caffle, as if they had come from court, and reported Scouendthe state of matters between him and the king, while his keepers were prefent, in fo favourable a light, that they made no doubt of his foon regaining his liberty, and being readmitted to his brother's favour. The feeming negociation, at last, went on so prosperously, that the duke gave his keepers a kind of a farewell entertainment, previous to his obtaining a formal deliverance; and they drank fo immoderately, that being intoxicated, they gave him an opportunity of escaping over the castle wall, by converting the sheets of his bed into a rope. Whoever knows the fituation of that fortrefs, must be amazed at the boldness of this attempt : and we are told that the duke's valet, the only domeftic whom he was allowed, making the experiment before his master, broke his neck; on which the duke, lengthening the rope, flid down unburt; and carring his fervant on his back to a place of lafety, he went on board a ship which his friends had provided, and escaped to France.

In 1482, the king began to feel the bad confequen- An. 1482. ces of taking into his favour men of wortlless characters, which feems to have been one of this prince's chief foibles. His great favourite at this time was Courten, Cochran, whom he had raifed to the dignity of earl of the king's Mar. All historians agree that this man made a most yourite. infamous use of his power. He obtained at last a liberty of coinage, which he abused so much as to endanger an infurrection among the poor people : for he iffued a bale coin, called black money by the common people, which they refused to take in payments. This to James; but he maintained his power by other arts: for knowing that his maller's predominant paffich was the love of money, he procured it by the meanest and most oppressive methods. James, however, was inclined to have relieved his people by calling in Cochran's money; but he was diverted from that resolution, by confidering that it would be agreeable to his old nobility. Belides Cochran, James had other favourites whose professions rendered them fill less worthy of the royal countenance; James Hommil a taylir, Leonard a blacksmith, Torsifan a dancing master, and fome others. The favour frown to thele men gave fo much offence to the nobility, that, after fome deliberation, they refolved to remove the king, with fome of his least exceltionable domestics (but without offering any then the common place of execution. Their deliberation before d'y-break, and informed him of the meeting.

<sup>(</sup>L) L'adfay's description of this unstant's magnificence is very particular, and may serve to give the reader an idea of the fivery of that age. "Coen an (1) she), the earl of Me, came from the king to the council (which council was holden in the kirk of Lawter for the time), who was well accompanied with a band of men of war, to the number of 302 light axe, all cold in white livery, and black bends thereon, that they might be known for Coch in the e rl of Mar's me). Hir fee was clad in a riving pie of black relvet, with a great chain of gold about

death.

Scotland. fay, who feems to have had very minute information as to this event, Cochran rudely knocked at the door of He is feized the church, just after the affembly had finished their and put to consultation; and upon Sir Robert Douglas of Lochleven (who was appointed to watch the door) informing them that the earl of Mar demanded admittance, the earl of Angus ordered the door to be thrown open ; and rushing upon Cochran, he pulled a massy gold chain from his neck, faving, that a rope would become him better; while Sir Robert Douglas stripped him of a costly blowing horn he wore by his side, as was the manner of the times, telling him he had been too long the hunter of mischief. Cochran, with astonishment, asked them whether they were in jest or earnest; but they foon convinced him they were in earnest, by pinioning down his arms with a common halter, till he fhould be carried to execution.

with others

caftle of

358 Relieved

The earl of Angus, with some of the chief lords, atof the king's tended by a detachment of troops, then repaired to the vavourites, king's tent, where they feized his other favourites, Thomas Preston, Sir William Rogers, James Hommil, William Torfifan, and Leonard: and upbraided James himfelf, in very rude terms, with his misconduct in government, and even in private life, in not only being counfelled by the above minions, but for keeping company with a lady who was called the Daify. We know of no relistance made by James. He only interceded for the fafety of a young gentleman, one John Ramfay of Balmaiu. Cochran, with his other worthless favourites, were hanged over Lawder-bridge before his eyes; and he himself was conducted, under an easy restraint,

James con- to the caltle of Edinburgh. fined in the

James, though confined, behaved with great fpirit; and even refused to pardon those who had confined him, Edinburgh. or who had any hand in the execution at Lawder. At last, however, he was relieved by the duke of Albany, by the duke who, at the queen's defire, undertook to deliver her of Albany. hufband from confinement. This he accomplished, as fome fay, by furpriting the castle of Edinburgh; though, according to others, the gates were opened, on a for-mal requisition made for that purpose by two heralds at arms. After he had obtained his liberty, the king repaired to the abbey of Holyroodhouse with his brother, who now acted as his first minister. All the lords who were near the capital came to pay him their compliments; but James was fo much exasperated at what had happened, that he committed 16 of them prisoners to the castle of Edinburgh. After his release, James granted a patent to the citizens of Edinburgh, and enlarged their privileges.

359 Secret negociations with Henry VII. of England.

In 1487, James finished some secret negociations in which he had been for fome time engaged with Henry VII. king of England. The principal articles agreed on between the two monarchs were, That King James's fecond fon fhould marry Catherine the third daughter of Edward IV. and fifter to the princes Elizabeth, now queen of England; and that James himself, who was now a widower, should marry Queen Elizabeth. A third marriage was also to be concluded between the duke of Rothefay and another daughter of Edward IV, Scotland. That in order to these treaties, and for ending all controversies concerning the town of Berwick, which the king of Scotland defired fo much to poffess, a congress

should be held the ensuing year. But in the mean time a most powerful confederacy A powerwas formed against the king; the origin of which was ful confedeas follows. James was a great patron of architecture; racy formand being pleafed with the fituation of Stirling caffle, ed against he refolved to give it all the embellishments which that art could bestow; and about this time he made it the chief place of his residence. He raised within it a hall, which at that time was deemed a noble ftructure: and a college, which he called the chapel-royal. This college was endowed with an archdean who was a bishop, a subdean, a treasurer, a chanter and subchanter, with a double fet of other officers usually belonging to fuch intitutions. The expences necessary for maintaining these were considerable, and the king had resolved to affign the revenues of the rich priory of Coldingham to that purpose. This priory had been generally held by one of the name of Hume; and that family, through length of time, confidered it as their property: they therefore strongly opposed the king's intention. The dispute seems to have lasted for some years; for the former parliament had paffed a vote, annexing the priory to the king's chapel royal; and the parliament of this year had passed a statute, strictly forbidding all persons, spiritual and temporal, to attempt any thing, directly or Owing to indirectly, contrary or prejudicial to the faid union and a quarrel annexation. The Humes refented their being stripped family of of fo gainful a revenue, the loss of which affected most Hume. of the gentlemen of that name; and they united themfelves with the Hapburns, another powerful clan in that neighbourhoud, under the lord Hales. An affuciation was foon formed; by which both families engaged to stand by each other, and not to suffer any prior to be received for Coldingham, if he was not of one of their furnames. The lords Gray and Drummond foon joined the affociation; as did many other noblemen and gentlemen, who had their particular caufes of discontent. Their agents gave out, that the king was grasping at arbitrary power; that he had acquired his popularity by deep hypocrify; and that he was refolved to be figually revenged on all who had any hand in the execution at Lawder. The earl of Angus, who was the foul of the confederacy, advised the confpirators to apply to the old earl of Douglas to head them : but that nobleman was now dead to all ambition, and inflead of encouraging the conspirators, he pathetically exhorted them to break off all their rebellious connections, and return to their duty; expressing the most sincere contrition for his own past conduct. Finding he could not prevail with them, he wrote to all the numerous friends and descendants of his family, and particularly to Douglas of Cavers, theriff of Teviotdale, diffuading them from entering into the confpiracy; and some of his original letters to that effect are faid to be fill extant. That great man furvived this application but a fhort time;

<sup>15.</sup> This Cochran had his heumont borne before him, overgilt with gold; so were all the rest of his horns; and all his pallions (pavilions or tents were of fine canvas of filk, and the cords thereof fine twined filk; and the count ...... his pallions were double evergilt with gold,"

of Douglas

An. 1448.

Extinction of the principal branch of the family

Pufillanimuus behaviour (f James.

rators.

Scotland, time; for he died without iffue at Lindores, on the 15th of April 1488; and in him ended the first branch of that noble and illustrious house. He was remarkable for being the most learned of all the Scots nobility, and for the comeline's of his person.

James appears to have been no firanger to the proccedings of the confpirators; but though he dreaded them, he depended on the protection of the law, as they did on his pulllanimity. His degeneracy in this respect is remarkable. Descended from a race of heroes, he was the first of his family who had been branded with cowardice. But his conduct at this time fully justifies the charge. Instead of vigorously supporting the execution of the laws in his own person, he shut himself up in his beloved castle of Stirling, and raised a body guard; the command of which he gave to the lord Bothwel, mafter of his household. He likewife iffued a proclamation, ferbidding any perfon in arms to approach the court; and Bothwei had a warrant to fee the same put in execution. Though the king's proceedings in all this were perfectly agreeable to law, yet they were given out by his enemies as fo many indications of his averlion to the nobility, and ferved only to induce them to parade, armed, about the country in more numerous bodies.

VII. of England, alarmed the confpirators, and made them refelve to strike the great blow, before James could avail himself of an alliance that seemed to place him above all opposition either abread or at home. The acquifition of Berwick to the crown of Scotland, which was looked on to be as good as concluded; the marriage of the duke of Rothelay with the daughter of the dowager and fifter to the confort queen of England; and, above all, the first harmony which reigned between James and the states of his kingdom, rendered the conspirators in a manner desperate. Besides the carl of Angus, the earls of Argyle and Lenex favoured the conspirators. When the whole of James's convention with England is confidered, and compared with afterevents, nothing can be more plain, than that the fuccels of the con-pirators was owing to his English connections; and that they made use of them to affirm, that Scotland was foon to become a province of England, and that James intended to govern his fubjects by an English force .- Those specious allegations did the conspirators great service, and inclined many, even of the moderate party, to their caute. They foon tock the field, appointed their rendezvouses, and all the fouth of Scotland was in arms. James continued to rely on the authority of his parliament; and fummoned, in the terms of law, the infurgents to answer at the proper tribunals for their repeated breaches of the peace. 364 tubunats for their repeated. It fet at de. The conspirators, far from paying any regard to his citations, torc them in pieces, buffeted and otherwife maltreated the messengers, and set the laws of their courtry at open defiance. Even north of the Forth, the heads of the houses of Gray and Drummond spread the fpirit of disaffection through the populous counties of Fife and Angus; but the counties north of the Grampians continued firm in their duty.

The duke of Rothelay was then a promising youth about fifteen years of age; and the subjecting the kingdom of Scotland to that of England being the chief, if not the only cause urged by the rebels for

their appearing in arms, they naturally threw their eyes Scotland. upon that prince, as his appearance at their head would give firength and vigour to their cause; and in this they were not deceived. James, in the mean time, finding the inhabitants of the fouthern provinces either were engaged in the rebellion, or at bett of ferved a cold neutrality, embarked on board a veffel which was then lying in the frith of Forth, and paffed to the north of that river, not finding it fafe to go by land to Stirling. Arriving at the caftle, he gave orders that the The duke duke of Rothefay (as if foresceing what afterwards hap of Nothepened) should be put under the care of one Schaw of fay put into Sauchie, whom he had made its governor, charging him ment. not to luffer the prince on any account to depart out of the fort. The rebels giving out that James had fled to Flanders, plundered his equipages and baggage before they passed the Forth; and they there found a large fum of money, which proved to be of the utmost confequence to their affairs. They then furprifed the caf-Success of tle of Dunbar, and plundered the houses of every man the rebell. to the fouth of the Forth whom they suspected to be a royalift.

James was all this time making a progress, and holding courts of justice, in the north, where the great families were entirely devoted to his fervice, particularly the earls of Huntly, Errol, and Marshal .-Every day brought him fresh alarms from the fouth. which left him no farther room either for delay or deliberation. The confpirators, notwithstanding the promifing appearance of their affairs, found, that in a fhort time their cause must languish, and their numbers dwindie, unless they were furnished with fresh pretexts, and headed by a person of the greatest authority. While they were deliberating who that person should be, the enl of Angus boldly proposed the duke of Rothefay; and an immediate application was made to Schaw, the young prince's governor, who fecretly favoured their cause, and was prevailed on by a confiderable sum of They are money to put the prince into their hands, and to de-headed by the duke of clare for the rebels.

James having ordered all the force in the north to affemble, hurried to Perth (then called St John's town), where he appointed the rendezvous of his army, which amounted to 30,000 men. Among the other noblemen who attended him was the famous lord David Lindfay of the Evres (an officer of great courage and experience, having long ferved in foreign countries), who headed 3000 foot and 1000 horse, raised chiefly in Fiteshire. Upon his approaching the king's person, he presented him with a horse of remarkable spirit and beauty, and informed his majesty, that he might trust his life to his agility and fure footedness. The lord Ruthven, who was theriff of Strathern, and ancestor (if we miltake not) to the unfortunate earls of Gowrie, joined James at the head of 3000 well armed men .-The whole army being affembled, James proceeded to James ai-Stirling; but he was autonished, when he was not only fembles has denied entrance into the caffle, but faw the guns point- army. ed against his person, and understood, for the first time, that his fon was at the head of the rebels. Schaw pretended that the duke of Rothefay had been carried off against his will: but the king's answer was, " Fye, traitor, thou hast deceived me; and if I live I shall be revenged on thee, and thou shalt be rewarded as thou

hait deserved." James lay that night in the town of

Stirling,

I So and where he was joined by all his army; and un-! buttle. The earl of Athol his uncle, who was truffed by both parties, proposed an accommodation; which was accordingly effected, if we are to believe Abereromby and other historians; but we know not the terms, for none are mentioned on either fide .-James is faid to have failed on his part; but had there been any grounds for fuch a charge against him, there can fearcely be a doubt that the rebels would have published them. That a treaty was entered into is past a hostage into the hands of the rebels.

James was fenfible of the advantage which public clamour gave to his enemies; and he applied to the kings of France and England, and the pope, for their interposition. His holinc's named Adrian de Castello for his puncio on that occasion; and the two kings threatened to raife troops for the fervice of James .-He, by a fatality not uncommon to weak princes, left the throng castle of Edinburgh, where he might have been in fafety, till his friends, who had dispersed themfelves upon the faith of the late negociation, could be reassembled; and croffing the Forth, he made another attempt to be admitted into the calle of Stirling; but was disappointed, and informed that the rebels were at Torwood in the neighbourhood, and ready to give him battle. He was in possession of the castle of Blackne's; his admiral, Wood, commanded the Forth; and his loval subjects in the north were upon their march to join him. Hawthornden fays, that the rebels had made a show of dismissing their troops, that they might draw James into the field; and that while he remained at Blackness, he was attended by the earls of Montrose, Glencairn, and the lords Maxwell and Ruthven. To give his northern troops time to join him, he proposed a negociation; but that was foon at an end, on the rebels peremptorily requiring him to refign his crown to

The rebels had been inured to war. They confifted chieffy of borderers, well armed and disciplined; in which they had the advantage of the king's Lowland fubjects, who had not been accustomed to arms. What the numbers on both fides were does not clearly appear; but it is probable that the forces of James were Superior to the rebels. They were then at Falkirk; but they foon passed the Carron, encamped above the bridge near Torwood, and made fuch dispositions as rendered a battle unavoidable, unless James would have disperfed his army, and gone on board Wood's ships: but he did not know himfelf, and refolved on a battle. He was encamped at a fmall brook named Sauchie-burn, near the fame fpot of ground where the great Bruce had defeated the English under Edward the fecond. The earl of Mentcilh, the lords Erskine, Graham, Ruthven, and Maxwell, commanded the first line of the king's army. The fecond was commanded by the earl of Glencairn, who was at the head of the Weilland and Highland men. The earl of Crawford, with the lord Boyd and Lindsay of Byres, commanded the rear, wherein the king's main strength confisted, and where he himself appeared in person, completely armed, and to him by Lindfay.

The first line of the royalists obliged that of the re-

bels to see way I at the latter being supported by Scalls the Armond le then and bordeters, the first and second line of the line, any were beat back to the third. The little course. James possibled had forfaken him at M. the first outet; and he had put spurs to his horse, in-his army, and shes. tending to gain the backs of the Forth, and to go on board one of Wood's thips. In passing through the village of Barnackburn, a woman who was filling her ritcher at the brook, frightened at the fight of a man in horse taking tright, the king was thrown to the ground, Is thrown and carried, bruited and maimed, by a miller and his wife, from his into their hovel. He immediately called for a priest to horse, and make his confession; and the rustics demanding his 11th June. name and rank, " I was (faid he incauticusty) your An. 1458. king this morning." The woman, overcome with alto-niffment, clapped her hands, and running to the door called for a priest to confeis the king. "I am a priest (faid one passing by), lead me to his majesty." Being introduced into the hovel, he faw the king covered with a coarse cloth; and kneeling by him, he asked James whether he thought he could recover, if properly attended by phylicians? James answering in the aftir-mative, the villain pulled out a dagger, and slabbed him to the heart. Such is the dark account we are able to give of this prince's unhappy end. The name of the person who murdered him is faid to have been Sir Andrew Borthwick, a priest, one of the pope's knights. Some pretend that the lord Gray, and others that Robert Stirling of Keir, was the regicide; and even Buchanan (the tenor of whofe history is a justification of this murder), is uncertain as to the name of the person who gave him the fatal blow.

It is probable that the royalifts loft the battle through the cowardice of James. Even after his flight his troops fought bravely; but they were damped on receiving the certain accounts of his death. The prince, young as he was, had an idea of the unnatural part he was acting, and before the battle he had given a ffrict charge for the fafety of his father's person. Upon hearing that he had retired from the field, he fent orders that none should pursue him; but they were inestectual, the rebels being fenfible that they could have no fafety but in the king's death. When that was certified, hostilities feemed to cease; nor were the royalists purfued. The number of flain on both fides is uncertain; but it must have been confiderable, as the earl of Glencain, the lords Sempil, Erskine, and Ruthven, and other gentlemen of great eminence, are mentioned. As to the Grief of his duke of Rothefay, who was now king, he appeared in ten for his confolable when he heard of his father's death; but death. the rebels endeavoured to efface his grief, by the profusion of honours they paid him when he was recognized as king.

The remorfe and anguish of the young king, on reflecting upon the unnatural part which he had acted, was inexpressible; and the noblemen who had been engaged in the rebellion became apprehensive for their own fafety. The catastrophe of the unfortunate James III. however, was not yet become public; and it was thought by many that he had gone aboard one of the thips belonging to the Scottish admiral Sir Anit was possible, defired an interview with the admiral; but the latter refused to come on shore, unless he had

bels to re-

Wood.

Scotland. fufficient hoftages for his fafety. These being delivered, Sir Andrew waited on the king at Leith. He had 374 again and again, by messages, assured him that he knew haviour of nothing of the late king; and he had even offered to Sir Andrew allow his ships to be searched: yet such was the anxiety of the new king, that he could not be fatisfied till he had examined him in person. Young James had been long a stranger to his father, so that he could not have diffinguithed him eafily from others. When Wood, therefore, entered the room, being ftruck with his noble appearance, he asked him, " Are you my father ?" "I am not," replied Wood, bursting into tears; " but I was your father's true fervant, and while I live I shall be the determined enemy of his murderers." This did not fatisfy the lords, who demanded whether he knew where the king was. The admiral replied, that he knew not; and upon their questioning him concerning his manœuvres on the day of battle, when his boats were feen plying backwards and forwards, he told them. that he and his brother had determined to affift the king in person; but all they could do was to save some of the royalists in their ships. "I would to God, (fays he), my king was there fafely, for I would defend and keep him fkaithless from all the traitors who have cruelly murdered him: for I think to fee the day to behold them hanged and drawn for their demerits." This fpirited declaration, and the freedom with which it was delivered, struck the guilty part of the council with difmay; but the fear of facrificing the hostages procured Wood his freedom, and he was fuffered to depart to his thips. When he came on board, he found his brother preparing to hang the two lords who had been left as hostages; which would certainly have been their fate, had the admiral been longer detained.

Wood had fearcely reached his ships, when the lords, calling the inhabitants of Leith together, offered them a large premium if they would fit out a sufficient force to destroy that bold pirate and his crew, as they called Wood; but the townsmen, swho, it seems, did not much relish the fervice, replied, that Wood's ships were a match for any ten ships that could be fitted out in Scotland. The council then removed to Edinburgh, where James IV. was crowned on the 24th of June 1488.

If we were to form an opinion of the manners of the reign of these times from the statutes enacted by the Scottish parliament during the reign of James 111. we should Suppose them to have been more refined than is evinced by the actions which we have just related. By those statutes the rights of the church were again confirmed, yet we have feen, from events, how little effect religion had produced on the morals of the age. One of the first acts of this reign was, to give the king the right of presentation to all benefices of ecclesiastical patronage, while the episcopal sees were vacant. The king was empowered to hold plea of any matter personally, at his empleafance, as it was wont to be of before. The parliament again delegated to a few of its members the whole legislative power, yet was it not felt in that age, as begetting contempt, and confequently diffibedience. The leges burgarum were declared to be part of the law, and the books of regiam mais flat m were called his majesty's laws. In these declirations we may perceive antiquaries, yet did the effectes display a just anxiety for the prefervation of their rolls and registers, by directing Vol. XVIII. Part II.

that they should be entered in books. With an allu- Scotland. fion, perhaps, to the atrocities of that period, the three estates declared that murder and affasfinations were not to be entitled to fanctuary. During this terrible reign, the parliament displayed more zeal than knowledge for promoting the agriculture and fithery, and for regulating the trade, coinage, and fhipping of a people who still wanted credit, capital, and circulation, for the enjoyment of an active and profitable commerce. The legitlative acts of this reign flew, to an inquifitive eye, fome progress towards civilization, though the history of its political events attests that there had been little improvement in the morality of the national character, or in the refinements of domestic life.

In the month of October this year, the nobility and The regiothers who had been present at the king's coronation, rides atconverted themselves into a parliament, and pailed an parliament. act by which they were indemnified for their rebellion against their late sovereign; after which, they ordered the act to be exemplified under the great feal of Scotland, that it might be producible in their juffification if called for by any foreign pri, e. They next proceeded to the arduous task of vindicating their rebellion in the eyes of the public; and so far did they gain on the king by force of flattery, that he confented to fummon the lords who had taken part with his father, before the parliament, to answer for their conduct. In conse-Trial of quence of this not fewer than 28 lords were cited to Lord Daappear at Edinburgh in the space of 40 days. The vid Lindsay first on the lift was the lord David Lindsay, whose form of arraignment was as follows. " Lord David Lindfay of the Byres, answer for the cruel coming against the king at Bannockburn with his father, giving him counsel to have devoured the king's grace here prefent; and, to that effect, gave him a fword and a good horse, to fortify him against his fon. Your answer hereto." Lord Lindfay was remarkable for the bluntnels of his conversation and the freedom of his fentiments; and being irritated by this charge, he delivered himself in such a manner concerning the treason of the rebellious lords, as abathed the boldett of his accufers. As they were unable to answer him, all they could do was to prefs him to throw himself on the king's clemency; which he refused, as being guilty of no coime. His brother, Patrick Lindfay, undertook to be his advocate, and apologized on his knees for the roughness of his behaviour, and at last observed an informality in it proceedings of the court; in confequence of which Lindfay was released, on entering into recognizance to appear again at an appointed day; but he was afterwards fent prisoner by the king's order, for a whole year, to the castle of Rothesav in the isle of Bute.

The regicid s now endeav ured to g in the public favour by affecting a first alministration of unice. The king was advited to make a prograss round the kingdom, attended by his comeil and ja res; while, in the mean time, certain noblemen and gentlemen were; appointed to evereif juffice, and to up refs all kinds of 1 differens in their own halds and is the accioing to " them, till the king came to the age of 21. The memory of the late king was bracked in the mill o probrieus manner. All justices, I sitts, a litte and sweep possessed of territable come. Lut who had taken up arms for the late king, were either disprived of the n for three years, or rendered incapable of en oying their

Review of

James III.

Sections for ever after. All the young nobility who had been difinherited by their fathers for taking arms against the late king, were, by act of parliament, restored to their feveral faccessions in the most ample manner. At last, in order to give a kind of proof to the world that they intended only to refettle the flate of the nation, wi hout prejudice to the lower ranks of subjects, who did no more than follow the examples of their fuperiors, it was enacted, " That all goods and effects taken from burgeffes, merchants, and those who had only personal estates, or, as they are called, unlanded men, fince the battle of Stirling, were not only to be restored, but the owners were to be indemnified for their loffes; and their persons, if in custody, were to be set at liberty. Churchmen, who were taken in arms, were to be delivered over to their ordinances, to be dealt with by them according to the law." The castle of Dunbar was ordered to be demolished; and some statutes were enacted in favour of commerce, and for the exclusion of foreigners.

These last acts were passed with a view to recom-

penfe the boroughs, who had been very active in their opposition to the late king. Before they disfolved their parliament, the lords thought it necessary to give some public testimony of their disapproving the late king's con action with England. It was therefore enacted, 380 Act rela-"That as the king was now of an age to marry a tive to the noble princess, born and descended of a noble and worhing's mar-fhipful house, an honourable embally thould be sent to the realms of France, Brittany, Spain, and other places, in order to conclude the matter." This embaffy was to be very splendid. It was to confist of a bishop, an earl, or lord of parliament, a fecretary, who was generally a clergyman, and a knight. They were to be attended by 50 horsemen; 5000l, was to be allowed them for the discharge of their embassy, and they were empowered to renew the ancient league between France and Scotland; and, in the mean time, a herald, or, as he was called, a trufty fauire, was fent abroad to vifit the feveral courts of Europe, in order to find out a proper match for the king. One confiderable obflacle, They are however, lay in the way of this embaffy. The pore had laid under an interdict all those who had appeared in arms against the late king; and the party who now governed in Scotland were regarded by all the powers of Europe as rebels and murderers. The embaffy was therefore suspended for a confiderable time; for it was not till the year 1401 that the pope could be prevailed on to take off the interdict, upon the most humble fubmissions and professions of repentance made by the guilty parties.

In the mean time, the many good qualities which discovered themselves in the young king began to conciliate the affections of his people to him. Being con-Attempts fidered, however, as little better than a prisoner in the the death of hands of his father's murderers, feveral of the nobility James Lit. made use of that as a pretence for taking arms. The most forward of these was the earl of Lenox, who with 2000 men attempted to furprise the town of Stirling; but, being betrayed by one of his own men, he was defeated, taken unawares, and the callle of Dumbarton, of which he was the keeper, taken by the opposite party. In the north, the earls Huntly and Marshal, with the lord Forbes, complained that they had been deceived, and declared their refolution to revenge the

late king's death. Lord Forbes having procured the 5. ot'and. bloody thirt of the murdered prince, displayed it on the point of a lance, as a banner under which all loyal fubjects thould enlid themselves. After the deleat of Lenox, however, the northern chieftains found themtelves incapable of marching fouthwards, and were therefore o liged to abandon their enterprise. The caute of the Henry VII. murdered king was next undertaken by Henry VII, fends five of England, who made an offer to Sir Andrew Wood of five thips to revenge it. The admiral accepted the pote, propofal; but the English behaving as pirates, and plundering indifcriminately all who came in their way, he thought proper to separate himself from them, yet without offering to attack or oppose them. Upon this, James was advited to fend for the admiral, to offer him a pardon, and a commission to act against the English Who act freebooters. Wood accepted the king's offer; and being well provided with ammunition and artillery, he, with aid are all two flips only, attacked the five English vessels, all of then by which he took, and brought their crews prifoners to Wood. Leith, for which he was nobly rewarded by his majetty.

This conduct of Wood was highly referted by the king of England, who immediately vowed revenge. The Scottish admiral's ships had been fitted out for commerce as well as war, and Henry commanded his best fea-officer, Sir Stephen Bull, to intercept him on his return Sir Stephen from Flanders, whither he had gone upon a commercial Bull feut avoyage. Wood had not more than two thips with him : scient the the English admiral had three; and these much larger, miral. and carrying a greater weight of metal, than the Scottith veffels. The English took their station at the itland of May, in the mouth of the frith of Forth, and, having come unawares upon their enemies, fired two guns as a figual for their furrendering themselves. The Scottith commander encouraged his men as well as he could; and finding them determined to fland by him to the laft, began the engagement in fight of numberless spectators who appeared on both fides of the frith. The fight continued all that day, and was renewed with redoubled fury in the morning; but, in the mean time; the ebbtide and a fouth wind had carried both fquadrons to the mouth of the Tay. Here the English fought under great disadvantages, by reason of the sand-banks; and before they could get clear of them, all the three were obliged to submit to the Scots, who carried them to Dandee. Wood treated his prisoners with great humanity; and having afterwards presented them to King ken with all James, the latter difmified them not only without ran- his flips. fom, but with prefents to the officers and crews, and a letter to King Henry. To this Henry returned a polite answer, a truce was concluded, and all differences for the present were accommodated.

James all this time had continued to display such mo- An. 1490. deration in his government, and appeared to have the advantage of his fubjects fo much at heart, that they became gradually well affected to his government, and in 1400 all parties were fully reconciled. We may hence date the commencement of the reign of James IV .; and the next year the happiness of his kingdom was completed, by taking off the pope's interdict, and giv-

ing the king absolution for the concern he had in his ta-Tranquillity being thus reftored, the negociations An. 1493. concerning the king's marriage began to take place, but met with feveral interruptions. In 1493, Henry VII.

proposed

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coulin the prince's Catharine. James was too much attached to France to be fond of Englith connections, and probably thought this match below his dignity; in confequence of which the propofal was treated with con-Manage- tempt. Natwithflanding this ill faccess, however, tre by with Henry made another offer of alliance with James; and, in 1495, proposed a marriage betwixt him and his eldett An. 1495.

daughter Margaret. This propofal was accepted : but the match feems not to have been at all agreeable to James; for, at the very time in which he was negociating the marriage, he not only protected Perkin Warbeck, the avowed enemy and pretender to the crown of Henry, but invaded England on his account. conduct was highly referted by the English parliament; but Henry himfelf forgave even this gross infult, and the marriage negociations were once more refumed. The bride was no more than ten years and fix months old; and being only the fourth degree of blood from James, it was necessary to procure a dispensation from the pope. This being obtained, a treaty of perpetual peace with peace was concluded between the two nations, on the that nation. It of July 1503, being the first that had taken place for

An. 1503. 170 years, fince the peace of Northampton concluded between Robert I. and Edward III.

One of the great ends which Henry had in view in promoting this marriage, was to detach James from the French interest: no sooner, therefore, was the treaty figned, than he wrote to his fon-in-law to this purpose; who, however, politely declined to break with his ancient ally. On the 16th of June, the royal bride fet out from Richmond in Surrey, in company with her father, who gave her convoy as far as Colleweston, the residence of his mother the countess of Richmond. After passing some days there, the king resigned his daughter to the care of the earls of Surrey and Northumberland, who proceeded with her to the borders of Scotland. Here many of the company were permitted to take their leave; but those who remained still made a royal appearance. At Lamberton-church they were met by James, attended by a numerous train of his no-

bility and officers of flate, From Lamberton they are. S. otla d. the nuptials were celebrated with the greatest iplendor. On this occasion, it is faid that the Scots surpassed all their guests in extravagance and luxury; a circumstance which must be imputed to the great intercourse and commerce which James and his subjects maintained with so-

After the celebration of the nuptials, James appears James beto have enjoyed a tranquillity unknown almost, to any powerful of his predecessors; and began to make a considerable monarch. figure among the European potentates. But the magnificence of his court and embaffies, his liberality to strangers and to learned men, his costly edifices, and, above all, the large fums he laid out in fhip-building, had now brought him into fome difficulties; and he to far attended to the advice and example of his father-inlaw, that he supplied his necessities by reviving dormant penal laws, particularly with regard to wardthips and old titles of estates, by which he raised large sums. Though he did this without affembling his parliament, yet he found agents who justified those proceedings, in the same manner as Epsom and Dudley, did those of Henry, under the fanction of law. At last, however, touched with the fufferings of his fubjects, he ordered all profecutions to be flopped. He even went farther: for, fenfible of the detellation into which his father-inlaw's avarice had brought himfelf and his administration, he ordered the ministers who had advised him to those shameful courses to be imprisoned; and some of them, who probably had exceeded their commission, actually died in their confinement.

About this time, James applied himfelf, with incre-Applies dible assiduity, to the building of ships; one of which, himself to the St Michael, is supposed to have been the largest affairs, then in the world (M). He worked with his own hands in building it; and it is plain, from his conduct, that he was aspiring to maritime power, in which he was encouraged by the excellent feamen which Scotland then produced. The first essay of his arms by sea was in favour of his kinfman John king of Denmark. This

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(M) Of this flip we have the following account by Lindfav of Pitfcottie. "In the fame year, the king of Scotland bigged a great ship, called the Great Mchael, which was the greatest ship, and of most strength, that ever failed in England or France. For this thip was of fo great stature, and took so much timber, that, except Falkland, the waited all the woods in Fife, which was oak-wood, by all timber that was gotten out of Norway; for the was fo ftrong, and of fo great length and breadth (all the wrights of Scotland, yes, and many other flrangers, were at her device, by the king's commandment, who wrought very bufily in her: but it was a year and day ere the was complete); to wit, the was twelve score foot of length, and thirty-fix foot within the fides. She was ten foot thick in the wall, outted jefts of oak in her wall, and boards on every fide, fo flark and fo thick, that no cannon could go through her. This great ship cumbered Scotland to get her to the fea. From that time that the was atloat, and her mails and fails complete, with tows and anchors effeiring thereto, the was counted to the king to be thirty thousand pounds of expences, by her artillery, which was very great and coffly to the king, by all the reft of her orders; to wit, the bare many cannons, fix on every fide, with three great baffils, two behind in her dock, and one before, with three hundred that of fmall artillery, that is to fay, myand and battret-falcon, and quarter-falcon, flings, peffelent ferpetens, and double dogs, with hagter and culvering, cors-bows and handbows. She had three hundred mariners to fail her; the had fix score of gunners to use her artillery; and had a thousand men of war, by her captain, shippers, and quarter-masters,

"When this flip past to the sea, and was lying in the road, the king gart shoot a cannon at her, to essay her it the was wight a but I heard fay, it deared her not, and did her little fkaith. And if any man believe that this defeription of the thin be not of verity, as we have written, let him pass to the gate of Tillibardin, and there, afore the same, ye will see the length and breadth of her, planted with hawthorn, by the wright that helped to make her. As for other properties of her, Sir Andrew Wood is my author, who was quarter mafter of her; and Ro-

bert Bartyne, who was mafter-fhipper,"

Scotland. prince was brother to the queen dowager of Scotland; and had partly been called to the throne of Sweden, and partly possessed it by force. He was opposed by the administrator, Sture, whom he pardoned after he was crowned. Sture, however, renewing his rebellion, and the Norwegians revolting at the fame time, John found himself under such difficulties, that he was forced to return to Denmark; but he left his queen in possession of the castle of Stockholm, which she bravely defended against Sture and the Swedes. This heroic princess became a great favourite with James; and feveral letters that passed between them are still extant. The king of Denmark, next to the French monarch, was the favourite ally of James; who, early in his reign, had compromised some differences between them. It likewife appears, from the hittories of the north, that both James and his father had given great affiftance to his Danish majesty in reducing the Norwegians; and he refolved to become a party in the war against the Swedes, and the Lubeckers who affiited them, if the former continued in their revolt. Previous to this, he fent an ambaffador to offer his mediation between John and his fubjects. The mediation was accordingly accepted, and the negociations were opened at Calmar. The deputies of Sweden not attending, John prevailed with those of Denmark and Norway to pronounce fentence of forfeiture against Sture and all his adherents. In the mean time, the fiege of the castle of Stockholm was so warmly preffed, that the garrison was diminished to a handful, and those destitute of all kinds of provisions; so that the brave queen was forced to capitulate, and to furrender up the fortress, on condition that she might be suffered to depart for Denmark; but the capitulation was perfidiously broken by Sture, and she was confined in a monastery.

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It was on this occasion that James resolved to employ his maritime power. He wrote a letter, conceived in the strongest terms, to the archbishop of Upfal, the prigainst Swe-mate of Sweden, exhorting him to employ all his authority in favour of the king; and another letter to the Lubeckers, threatening to declare war against them, as well as the Swedes, if they jointly continued to affift the rebels. According to Hollinshed, James, in consequence of King John's application, gave the command of an army of 10,000 men to the earl of Arran, who replaced John upon his throne. Though this does not appear to be firifly truth, yet it is certain, that, had it not been for James, John must have sunk under the weight of his enemies. Sture, whose arms had made great progrefs, hearing that a confiderable armament was fitting out in Scotland, and knowing that James had prevailed with the French king to affift John likewife, agreed to release the queen, and to conduct her to the frontiers of Denmark; where he died. By this time, James's armament, which was commanded by the earl of Arran. had fet fail; but perceiving that all matters were adjusted between John and the Swedes, the ships returned fooner than James expected, " which (fays he, in a very polite letter he wrote to the queen upon the occasion) they durit not have done, had they not brought me an account that her Danish majesty was in perfect health and fafety." The feverity of John having occasioned a fresh revolt, James again sent a squadron to his assistance, which appeared before Stockholm, and obliged the Lubeckers to conclude a new treaty.

James, having thus honourably discharged his en- Scotland. gagements with his uncle the king of Denmark, turned his attention towards the Flemings and Hollanders, who Chattues had infulted his flag, on account of the affiltance he had the Flemafforded the duke of Gueldres, as well as from motives mgs and of rapaciousness, which diffinguished those traders, who Hollanders, are faid not only to have plundered the Scots thips, but to have thrown their crews overboard to conceal their villany. James gave the command of a squadron to Barton; who put to sca, and, without any ceremony, treated all the Dutch and Flemish traders who fell into his hands as pirates, and fent their heads in hogtheads to James. Soon after, Barton returned to Scotland, and brought with him a number of rich prizes, which rendered his reputation as a feaman famous all over Europe.-James was then fo much respected on the continent, that we know of no refentment shown either by the court of Spain, whose subjects those Netherlanders were, or of any other power in Europe, for this vigorous proceeding.

The peace with England continued all the remaining Caufe of part of the reign of Henry VII. nor did his fon Hen-quarret ry VIII. though he had not the fame reason as his fa- with Engther to keep well with the Scots, for some time shew any disposition to break with them. A breach, however, at length took place, and was never afterwards

thoroughly made up.

About 30 years before, one John Barton (a relation, probably, to the famous Barton) commanded a trading veffel, which was taken by two Portuguese sea captains in the port of Sluys; and the captain, with feveral Scotchmen, were killed in endeavouring to defend their property. The action was efteemed cowardly as well as piratical, because it was done under the protection of a large Portuguese squadron. The ship, and the remaining part of the crew, with the cargo, were carried to Portugal, whence no redrefs could be obtained; and James III. granted letters of marque to John and Robert Bartons, heirs to the Barton who had been murdered. Upon the accession of James IV, to the crown of Scotland, the letters of marque were recalled, and a friendly correspondence was entered into between James and his Portuguese majesty. No redress, however, was to be had from the latter; and Robert Barton being made prisoner, and his ship a prize, he was detained in Zealand, till James procured his deliverance, by applying in his favour to the emperor Maximilian. Sir Andrew Barton took part in the quarrel; and having obtained a like letter of marque, he made dreadful depredations on the Portnguese trade, and, according to English authors, he plundered many English ships, on pretence of their carrying Portuguese property, and made the navigation of the narrow feas dangerous to Englishmen. The court of London received daily complaints of Barton's depredations; but Henry being at this time very averse to quarrel with James, these complaints were heard with great coldness at his councilboard. The earl of Surrey had then two fons, gallant. noblemen; and he declared to Henry's face, that while he had an estate that could furnish out a ship, or a fon who was capable of commanding one, the narrow feas should not be infested. Henry could not discourage this generous offer; and letters of marque were accordingly granted to the two young noblemen, Sir Thomas and Sir Edward Howard. The prizes that Barton had taken. Scotland, taken had rendered his thips immenfely rich, confequently they were heavy laden, and unfit for fighting ; while we may eafily suppose, that the ships of the Howards were clean, and of a superior force in every respect to those of Barton. After encountering a great deal of

foul weather, Sir Thomas Howard came up with the Lyon, which was commanded by Sir Andrew Barton in person; and Sir Edward fell in with the Unicorn. Barton's other ship. The event was such as might be expected from the inequality of the match. Sir Andrew Barton was killed, while he was animating, with his whiftle, his men to hold out to the last; and both

the Scotch ships being taken, were carried in triumph

to London, with their crews prisoners.

James could never forgive Henry for the lofs of his brave officer. He fent to demand fatisfaction; but all the answer he received was, that Barton and his crews were lawless pirates, and that what had been done against them ought never to have been refented amongst fovereign princes. James afferted, that Barton was no pirate, because he bore his commission; and that he ought to have been convicted of piratical acts before he was treated as being guilty of them. Henry intimated to James, that he was willing to accommodate the affair by way of negociation; but James thought

himself affronted by the proposal.

Various negociations took place concerning this and folves to in-other affairs till the year 1513; when James, though vade Eng- he had for some time before been fully resolved on a war with England, thought it highly necessary that it should have the fanction of his parliament, which he affembled for that purpofe. The young nobility were not only inspired with the sentiments of James, but had been won over by the French; and the majority of them, as well as of the clergy (which was fomewhat extraordinary, as James was, in effect, to fight against the pope and his allies), were keen for a war with England. The old counsellors, on the other hand, who saw the flourishing state of Scotland, arising from a long peace and commerce protected by a fleet, dreaded the ruinous confequences of the war. The queen naturally headed this party; and she was joined by the earl of Angus and the wifest part of the nobility. Their arguments made no impression upon James, who had received a prefent from Louis of four thips laden with wine and flour, and two thips of war completely equipped, one of them carrying 31 pieces of brafs ordnance. He promised to the French queen, upon his honour, that he would take the field against the English; and she had fent him a fresh letter, gently reproaching him for want of gallantry, and for not being fo good as his word. In flort, the reasonings of the wifest and best part of the nobility were overruled, and the expedition against England was refolved on.

The earl of Hume, who was chamberlain of Scotland, was, at this juncture, at the head of 7000 or 8000 men, with whom he committed prodigious devastations on the English borders. Henry's queen, Catharine of Spain, whom he had left regent of his dominions, issued a commission of array, directed to Sir Thomas Lovel, knight of the garter, for affembling the militia of the counties of Nottingham, Derby, Warwick, Leicester, Stafford, Rutland, Northampton, and Lincoln. The management of the war, however, was chiefly committed to the earl of Surrey, who affembled the militia of Chester, Lancaster, Northumberland, Westmoreland, Scotland. Cumberland, and the bithopric of Durham. The earl of Hume had by this time laid great part of Northumberland watle; and his men were returning home laden with booty. The earl of Surrey, refolving to intercept them, ordered Sir William Bulmer to form an ambuth with 1000 archers, at a place called Broomhouse, which was extremely convenient for that purpose, as the Scots were obliged to pass that way. As the latter expected nothing of that kind. Bulmer executed his orders with great fuccefs. The archers affaulted the Scots all at once, and made so good use of their arrows, that their main body was put to flight, 500 were killed, and 400 taken, with the lord Hume's standard, which he left on the field of battle; the greatest part of the plunder being recovered at the same time. The commonalty of Scotland termed this expedition of the lord Hume's the Ill road.

James was more exasperated than ever by this de-The oueen feat, and continued his preparations for invading Eng. endeavours land with additional vigour. His queen did all that to diffuade became a wife and prudent wife to divert him from his his defign. fatal purpose. She endeavoured to work on his fuperstition, by recounting to him her ominous dreams and boding apprehensions. James treating these as mere illusions and fictions of the brain, she had recourse to other arts. While James was waiting at Linlithgow for the arrival of his army from the north and the Highlands, he affifted one afternoon at the vespers in the church of St Michael. Being placed in one of the canon's feats, a venerable comely man, of about 52 A phantom years of age, entered, dreffed in a long garment of an appearato azure colour, and girded round with a towel or roll him. of linen, his forehead bald, and his yellow locks hanging down his shoulders; in short, he was dressed and formed to appear like St Andrew, the apostle of Scotland, as he is represented in painting and sculpture. The church being crowded, this personage, with some difficulty, made his way to the king's feat; and leaning over it, he spoke to the following purpose: "Sir (faid he), I am fent hither to intreat you for this time to delay your expedition, and to proceed no farther in your intended journey: for if you do, you shall not prosper in your enterprise, nor any of your followers. I am further charged to warn you, if ye be fo refractory as to go forward, not to use the acquaintance, company, or counfel of women, as ve tender your honour, life, and estate." After delivering these words, he retired through the crowd, and was no more feen, though, when the fervice was ended, James earnestly inquired after him.

That this scene was acted, seems to be past dispute; for Sir David Lindfay, who was then a young man, and prefent in the church, reported it both to Buchanan and Lindsay the historian. It is, however, equally certain, that the whole was a contrivance of the queen, to whole other afflictions the flings of jealouly were now added. In one of the Scotch inroads into Eng-James deland, one Heron, the proprietor of the callle of Ford, he'ed by had been taken priloner, and fent to Scotland; where his matrets he was detained on a charge of murder, of which he feems to have been innocent. The English historians mention this as having pail d after James entered England: but from the litter part of the support d phan-

tom's speech, it is probable that it happened before;

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The Scots

S. stland. and that Heron's wife and beautiful daughter had been for fome time foliciting James for his deliverance. Be that as it may, it is too probable that James was fmitten with the charms of the daughter; and that her mother, who was a most artful woman, knew how to avail herfelf of the conquest. Pretending that she had interest enough to procure the release of the lord Johnston and Alexander Home, who were prisoners in England, the was permitted by James to keep a conftant correfpondence with the earl of Surrey, to whom the is faid to have betraved all James's fecrets and measures. The rendezvous of James's army was at the Burrow moor, to which James repaired; and having given orders for the march of his artillery, he lodged at the abbey of Holyroodhouse. While he was there, another attempt was made to divert him from his purpose of invading England: but James, deaf to all the folicitations and inventions of his queen, mustered his army; and on the 22d of August he passed the Tweed, encamping that night near the banks of the Twiffel. On his arrival at Twiffelhaugh on the 14th, he called an affembly of his lords together, and made a declaration, that the heirs of all such as should die in the army, or be killed by the enemy during his flay in England, should have their wards, relief, and marriages of the king; who, upon that account, difpenfed with their This is faid to have been the crifis of that prince's fate. Abandoned to his passion for his English mistrefs, the prevailed with him, at her mother's infligation, to trifle away his time for fome days; during which interval, the junction of the English army was formed. The earl of Surrey, the English general, was then at Pomfret: but ordered the landholders of the neighbouring counties to certify to him in writing what number of men each could furnish, charging them to be ready at an hour's warning; and he laid his plan fo as not to being his army into the field till James had advanced fo far into England as to render it very difficult for him to retire without a general battle. precaution affifted the lady Ford (as the is called) in perfunding James that there was no danger in the delay, because the English had not the face of an army in

> In the mean time, the earl of Surrey ordered the governors of Berwick and Norham, the two strongest places on the frontiers of England, to prepare for a vigorous refistance in case they were attacked; and directed them to certify how long they could hold out, in hopes, that if they made a resolute defence, James would march on, and leave them in his rear. The governor of Norham's answer was, that his castle was so well provided, as to leave him no doubt, in case of a fiege, to be able to defend it till King Henry should return from abread, and relieve it in person. James, however, belieged it on the 25th of August, and battere! it fo furiously, that he took it by capitulation the fixth day after. James then proceeded to the castle of Etal belonging to the family of Manners (now duke of Rutland); which he took and demolished likewife, as he also did Wark, and arrived before the cast's of Ford. The Scotch army is generally allowed to have confifted of at lead 50 000 men when it passed the Tweed. At this time it was encamped on the heights of Cheviot, in the heart of a country naturally borren, and now defolate through the precautions taken by the English ge

neral. Being obliged to extend their quarters for the Scotland. benefit of subliftence, the mercenary part of them had acquired a confiderable plunder, with which, as usual, they refired to their own country, as many more did for want of fubfiftence. The earl of Surrey knew their fituation, and ordered the rendezvous of his army, first at Newcastle, and then near Norham, having certain intelligence of the vast desertions daily happening in the Scotch army, which had reduced it greatly. The wetness of the season rendered his march, especially that of the artillery, extremely difficult; but being joined by feveral persons of distinction, he marched on the 3d of September to Aluwic, where he was reinforced by 5000 hardy veteran troops, fent from the English army on the continent, under the command of his fon the lordadmiral of England; fo that, as the English authors admit, his army confifted of 26,000 men, all completely armed and provided for the field. James having, in the manifesto which he dispersed on his entering England, given the death of Barton as one of the causes of his invation, the lord-admiral had prevailed with Henry to fend him upon this fervice; and he informed James by a letter, that he intended to justify the death of that pirate in the front of the English army.

By this time the army of James was, by defertion James dif-By this time the army of James was, by defection guilts feve-and other causes, reduced to less than half its numbers; jud of his but the chief misfortune attending it was his own con-nobility. duct. His indolence and inactivity, joined to the fcandalous example of his amours, at fuch a feafon, had difgusted several of his greatest men and best friends; and some of them more than suspected a correspondence between the English lady and the earl of Surrey. James was deaf to all their remonstrances; and the earl of Angus declared, that he was refolved to return home. as he forefaw that the ruin of the army was inevitable through the obstinacy of James. He accordingly withdrew to Scotland, but left behind him his two fons. The lord Hume and the earl of Huntly were likewife discontented. The former had brought his men into the field: but according to frme Scotch historians, with a defign rather to betray than to ferve James; but Huntly, though he difliked his mafter's conduct, remain-

The defection or backwardness of those great men feemed to make no impression upon James. He had chosen a strong camp in the neighbourhood of Ford. on the fide of a mountain called Flodden-hill; and he was separated from the English army by the river Till. This advantageous fituation put the carl of Surrey un-Encamps der great difficulties; for it rendered the Scotch army in an advantageous inacceffible, as it was fortified by artillery, and was now fituation.

ed firmly attached to his person.

well supplied with provisions by the change of its fituation. The earl drew up a manifesto, with which he charged Rouge Croix herald, who was attended by a trumpet. It contained some proposals for an exchange of priloners, which feems to have been calculated to give the lady Ford the more credit with James; but concluded with reproaches for his perfidious invafion of England, and a defiance to James to fight him in a general battle. The herald was farther charged with a verbal commission to acquaint James, that the carl of Surrey had iffued orders that no quarter should be given to any of the Scotch army but the king himfelf.

A council of war was called on this occasion; in which the earl of Huntly and others made firong re-

The Sots Wark.

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Scotland. monfirances against a general engagement. They shewed how fatal it must be to Scotland, should it prove unfuccessful; and that the wilest course James could follow was to return home, where, if he was pulled by the enemy, he could fight to great advantage. The earl of iluntly, however, added, that his opinion should be determined by that of the king and council; and that he was equally ready to there in his majetty's danger as his glory.

Huntly and the other noblemen were opposed by the French ambaffador, who repretented a retreat as difgraceful to the nobili y of Scotland and the arms of James; and used many romantic arguments of the same concrary to kind, which but too well fuited with the king's disposition. According to Drummond, the council were of opinion that the king should immediately besiege Berhis officers. wick; but the majority of them declared that it was beneath the dignity of James to fight the earl of Surrey at that nobleman's requisition, and that James could lose no honour by returning home. Patrick Lord Lindfay of Byres, mentioned on a former occasion, and who was prefident of the council, expressed himself so strongly on that head, that James, in a passion, is said by the historian Lindsay to have sworn, that if ever he lived to return to Scotland, he would hang that nobleman at his own gate. He ordered Rouge Croix to be called in; and after treating him with great politeness, he sent a message to the earl of Surrey by one of his own heralds (Islay), importing, that he would give the English battle on the Friday following; and that had he received such a meffage from the earl even in his own caftle of Edinburgh. he would have left that, and all other bufinefs, to fight him. With this meffage, a fmall manifesto, in vindication of James's conduct, was fent by the fame herald.

The earl of Surry, who was then fo infirm that he was carried about in a fedan or chariot, had forefeen that James would return an answer by one of his own heralds; but, unwilling that he should obtain any knowledge of the fituation of the English camp, he ordered proper persons to receive him at two miles distance, where soon after he attended himself in person. Islay executed his commission, without paying much respect to the person of the English general; who dismitfed has, after bestowing great compliments on the honour and courage of James. The earl then ordered his army to march in the line of battle towards Wollerhaugh. There he was joined by Rouge Croix, his herald, who gave him an account of the strong situation of the Scottish camp; but the advanced posts of the English army were then within three miles of their enemies, and the earl of Surrey found his difficulties daily increasing. The roads were broken up, the swelling of the rivers cut him off from the necessary communications for supplying his army, and nothing but a battle could fave bim either from being difbarded or destroyed.

James feems to have fo far regarded he advice of his wifest counsellors, as not to ahandon his strong situation. They endeavoured to perfuade him, that it was a fufficient guard to his honour, if he did not decline the battle on the day appointed; and that his engagement did not bind him to fight upon difadvantageous ground. The Scots, at the fame time, knew of their enemy's distreffes; and, as Drummond elegantly expresses it, they remonstrated to their king, that he lacked nothing but patience to be victorious. The Scots thus lving on the defensive, the earl of Surrey again sent Rouge Croix to inform James that he was ready to give him battle. Scotland James was fenfibly nettled at this tacit imputation on his honour, and perhaps was inwardly vexed at having followed the wife advice of his noblemen. It appears, from the best authorities, that he neglected the necellary precautions for guarding the pallages of the Till, which the English crossed, partly at a place where it was fordable, and partly at a bridge. We are told, not without great appearance of probability, that while the Englith were patling the bridge, Borthwick, mafter of the Scotch artillery, fell on his knees, and begged permission from James to point his cannon against the bridge; but that James answered him in a passion, that it must be at the peril of his (Borthwick's) head, and that he was resolved to see all his enemies that day on the plain before him in a body. The earl of Surrey, atter passing the Till, took posicition of Braxton, which lay to the right of the Scotch camp; and by that fituation he cut off the communication of his enemies with the Tweed, and commanded the Till below Eton-calle. The Scotch generals faw themselves now in danger of being reduced to the same firaits in which their enemies had been involved two days before, and their country open to an invalion of the English army. James had fecret intelligence that this was far from being the intention of the English general; and imagining that the latter's intention was to take possession of a strong camp upon a hill between him and the Tweed, which would give the English a farther command of the country, he refolved to be before-hand with the earl, and gave orders for making large fires of green wood, that the fmoke might cover his march along the height, to take advantage of that eminence. But while this ilratagem concealed his march from the English, their movements were concealed from him: for when he came to the brow of the height over which he had marched, he found the enemy drawn up in order of battle on the plain, but fo close to the height where he was, that his artillery, on which his great dependence was, must overshoot them.

A battle was now not only unavoidable, but the only Account of means of faving the Scotch army, which was probably the battle far from being a dilagreeable circumstance to James of Fodden, His person was so dear to his troops, that many of them 9th Sepdrested themselves as nearly as they could in the same An. 1513. coats of armour and with the same diffinctions that James wore that day. His generals had earnettly defired him to retire to a place of fafety, where his person would be fecure in all events: but he obstinately refused to follow their advice; and on the 9th of September, early in the morning, dispositions were ordered for the line of battle. The command of the van was allotted to the earl of Huntly; the earls of Lenox and Argyle commanded the Highlanders under James, who, some say, served only as a volunteer; and the earls of Crawford and Montrole led the body of referve. The earl of Surrey gave the command of his van to his fon, the lord admiral; his right wing was commanded by his other fon, Sir Edward Howard; and his left by Sir Ma maduke Conflable. The rear was commanded by the earl himfelf, Lord Dacres, and Sir Edward Stanley. Under those leaders served the flower of all the nobility and gentry then in England. Other writers give different accounts of the disposition of the English army, but they may be reconciled by the different forms into which the battle was thrown before it was decided. The lord

His imprudent con-

Scotland. Hume is mentioned as ferving under the earls of Crawford and Montrole, and Hepburn earl of Bothwel was in the rear.

The first motion of the English army was by the lord admiral, who fuddenly wheeled to the right, and feized a pass at Milford, where he planted his artillery fo as to command the most sloping part of the ascent on which the Scots were drawn up; and it did great execution. The Scots had not foreseen this manœuvre ; and it threw them into fuch diforder, that the earl of Huntly found it necessary to attack the lord-admiral: which he did with fo much fury, that he drove him from his post; and the confequence must have been fatal to the English, had not his precipitate retreat been covered by some squadrons of horse under the lord Dacres, which gave the lord-admiral an opportunity of rallying and new-forming his men. The earl of Surrey now found it necessary to advance to the front. fo that the English army formed one continued line. which galled the Scots with perpetual discharges of their artillery and bows. The Highlanders, as usual, impatient to come to a close fight, and to share in the honour of the day, which they now thought their own. rushed down the declivity with their broad swords, but without order or discipline, and before the rest of the army, particularly the division under Lord Hume, advanced to support them. Their impetuofity, however, made a confiderable impression on the main battle of the English; and the king bringing up the earl of Bothwel's referve, the battle became general and doubtful: but by this time the lord-admiral, having again formed his men, came to the affiltance of his father, and charged the division under the earls of Crawford and Montrole, who were marching up to support the Highlanders, among whom the king and his attendants were now fighting on foot : while Stanley, making a circuit round the hill, attacked the Highlanders in the rear. Crawford and Montrole, not being feconded, according to the Scottish historians, by the Humes, were routed; and thus all that part of the Scotch army which was engaged under their king, was completely furrounded by the division of the English under Surrey, Stanley, and the lord-admiral. In this terrible fituation, James acted with a coolness not common to his temper. He drew up his men in a circular form, and their valour more than once opened the ranks of the English, or obliged them to fland aloof, and again have recourse to their bows and artillery. The chief of the Scotch nobility made fresh attempts to prevail with James to make his escape while it was practicable; but he obstinately continued the fight; and thereby became accessory to his own ruin, and that of his troops, whom the English would gladly have fuffered to retreat. He faw the earls of Montrofe, Crawford, Argyle, and Lenox, fall by his fide, with the bravest of his men lying dead on the spot; and darkness now coming on, he himself was killed by an unknown hand. The English were ignorant of the victory they had gained; and had actually retreated from the field of battle, with a defign of renewing it next morning.

This difafter was evidently owing to the romantic disposition of the king himself, and to the want of discipline among many of his foldiers; though fome writers have ascribed it to the treachery of Lord Hume. Many of James's domestics knew and mourned over his I

body; and it appeared that he had received two mortal Scotland. wounds, one through the trunk with an arrow, and the other in the head with a ball. His coat of armour was presented to Queen Catharine, who informed her husband, then in France, of the victory over the Scots. The loss on both fides, in this engagement, is far from being afcertained; though Polydore Virgil, who lived at the time, mentions the loss of the English at 5000, and that of the Scots at 10,000 men.

Thus fell James IV. after having exercifed the regal Review of power for 25 years, and lived about 40. In reviewing the reign of the principal transactions of his reign, our chief attention is directed to the acts of the legislature. These, as in the preceding reigns, appear to have been very mindful of the freedom of the halie kirke. During the year 1489, was passed an act, by which it was made criminal for any one to intermeddle with the profits or duties of the church; and this act, which did not long protect, either the church or the clergy from the rapacity of the times, was speedily followed by legislative declarations for universal concord among the king's lieges. The parliament also endeavoured to protect the king's privileges, confidering him, ftill, however, as a minor; but he attempted in vain to restore to the royal prerogative the necessary vigour of ancient times. Additional exemptions were given to those members whose duty required their constant attendance in parliament; but by these exemptions the authority of the parliament was neither strengthened nor enlarged. The general principles of former ages, that the king, by his precept, might fummon any of his fubjects to give their presence and advice in parliament, was again recognized; and confidering how much of the public revenue was paid by the boroughs, it was a falutary provision that their deputies should be always summoned as representatives of one of the three estates, when it was intended to require contributions from the people.

There feems to have been, during this reign, confiderable zeal for promoting domestic economy, though the best means were not always employed for that purpose. Agriculture was encouraged, weights and meafures were fettled, crafismen were regulated, coins were struck, the value of money diminished, and shipping were required to come first to the free boroughs. In addition to all these regulations, it was enacted under a penalty, that barons and freeholders should fend their cldest fons to the schools, to learn Latin and law; but there feems to have been no provision made for instruct- \* See Chaling them in the more important information of morals mers's Caand manners, in which the nation was notoriously defi-p. 837.

After the death of King James IV, the administra- The queen tion devolved on the queen-dowager; but the being dowager afpregnant with a posthumous child, and unable to bear governthe weight of public bufiness, accepted Beaton archbi-ment. shop of Glasgow and chancellor of Scotland, with the earls of Huntly, Angus, and Arran, to affift her in the affairs of government. Soon after her hulband's death Writes to the had written an affecting letter to her brother the the king of king of England, informing him of her pregnancy, fet. England. ting forth the deplorable state of the kingdom, with her own condition, and imploring his friendship and protection for herfelf and her infant fon. This letter feems never to have been communicated by Henry to his council; but he answered it, and informed his fifter, that if

406 In which the Scots are defeattheir king killed.

Scotlant, the Scots would have peace, they should have peace, - and war if they chose it. " He added (according to difereet rathness, and foolith kindness to France; that he regretted his death as his ally, and should be willing to prohibit all hostility against the country of Scotland during the minority of her fon. For a remedy of prefent evils, one year's truce and a day longer was yielded unto; in which time he had leifure to protecute his

The Scot-Thus far Drummond : but though Henry might grant this time to his finter's introaty, yet it certainly did not become a national measure; for it appears by a letter dated two years after, from the Scots council to the king of France, published by Rymer, that the Scots never had defired a truce. So far from it, the French influence, joined to a defire of revenge, remained to frong in the kingdom, that after the meeting of the parliament, some of the members were so violent as over-ruled by the more moderate part of the affem ly : but they could not be brought to make any advances towards Henry for a peace; and every day now teemed with public calamity, which feems to have g-thered firength while the queen was in childbed. The archbithopric of St Andrew's being vacant, it was offered by univerfal confent to Elphintton bishop of Aberdeen; but being now old and indian, he declined it. Three first was Gawin Douglas, then abbot of Aberbrothwick, very (having been brought to bed of a fon) the very Angus: and upon the death of Biling Eliginston in was John Hepburn, prior of St Andrew's; a bold, avatence of ancient privileges, to elect him ar hoishop, without regard to the nomination either of the queen or pope, he drove Douglas's servants from the callle of third and most powerful competitor was Forman bishop of Moray in Scotland, and archbillip of Bourges in France, a dignity to which he had been raifed for his public ervices. He had in his interest not only the duke of Albany (fon to the truitor duke) first prince of

The prefere ce given to Torman discouraged Douglas from purlaing his pretentions; but Hepburn, Leing supported by the can of his own name and by the are the rich abbey of Coldin ham for his younger Irather, the earl put himself at the head of his followers, S wand and, notwithstanding all the opposition given by the Herburns, he proclaimed the pove's bull at the cross of Edinburgh. This daring action clainly proved that the earl of Elume had more power than the queen-reof his friends, obliged Forman to agree to a compromise. accounting for the revenues of the archbithopric, which he had received during its vacancy; and he gave For man a prefent of three thousand crowns, to be divided among his friends and followers.

In April 1514, the polthumous fon, of whom the An. 1514. queen had been delivered in Stirling cattle, was by the bithop of Caithness baptized by the name of Alexander. The queen-On the 6th of August this year the was married to the earl married to of Angus; a circumflance than which no hing could be the coul of accounted more impolitic. She had neither comulted & .. us.

her brother nor the states of Scotland in the match ; and by her having accepted of a hutband, the in fact refigued all claim to the regency under the late king's will. The Douglases did not dispute her having div fled herfelf of the regency; but they affirmed, that the parliament might lawfully reinstate her in it; and only measure that could preserve the happy tranquillity which then fubilited between Scotland and England. The earl of Hume put himself at the head of the oppoand he dreaded that the farther aggranuizement of was joined by a number of the young nobility, who, In thort, the general opinion was, that the Dougrafes reinstated in the regency, they must be absolute within the kingdom, and engross all places of power and profit.

After fome deliberations, the duke of Albany was T. 41 chofen regent. He was a man possessed of all the qua-or A. ... lities requifite for a good governor; nor did he dilap-clitten: Glafgow, he took upon him the titles of earl of March, Marr, Garioch, lord of An andale, and of the ifle of Man, regent and protector of the kingdom of Scotland. On his arrival at Edinburgh, he was received in form by the three estates of the kingdom, and the queen had met him at some distance from the town. The

that he seppressed fome daring rebbers, one of whom informeds profession. So great was his love of good orat arms, whose person, as the first herald in Scotland, Secret cannot are inc. told ficred. Nay, it was at the chief now we wist a greater punishment was not inflife. The fur siture was afterwards, however, remitted; but no fore Drammord had, up n his knees, acknowledged his effence, and humbled himfelf before

Hepturn

The regent had not been long in office before he took into feveur Hepburn the plor of St Andrew's, whom he consisted for information concerning the flate of Scotland. Heplurn acquainted him with all the feuds and . Limofities which raged among the great families of Scotland, their ferocious character, and barbarous behaviour to their enemies. He represented the and gave it as his opinion that the regent's administration ought to be supported by foreign arms, meaning

Hepburn is faid also to have gained an ascendency ever the r gent by means of large fums of money laid out among his dem flics, by an inlinuating and plaufible address, and by well-directed flatteries; and he employed this ofcendency to deflroy those who were obnexious to bimfelf. The earl of Hume, as being the full fubjust in rank and authority, became obnoxious to the regent through the infinuations of Hepburn; and as that nobleman had frequent occasion to be at court by virtue of his office of chamberlain, he foon perceived that neither he nor his friends were welcome guests there. Alarmed for his own fafety, he resolved to form a party with the queen-mother and her new husband against the regent. This was by no means a difficult talk: for the queen naturally imagined that her new husband ought to have had some share in the government; and the earl of Angus readily concurred in the scheme. In the mean time, the regent was making a progress through Scotland, while bloody fends were raging among the nobles: but before any remedy could be applied to these diforders, he was informed of the schemes laid by the queenmother and her party; and that she had resolved to sly into England with her two infants. On this he infrantly returned to Edinburgh; and as no time was to be loft, fet out that very night, and surprised the castle of Stirling, where he found the queen-mother and her two

The regent, after this bold step, took care to show that the care of the royal infants was his chief study. As he himself was nearly allied to the crown, in order to remove all suspicions and calumnies on that account, he committed the care of the king and his brother to three noblemen of the most unexceptionable characters in the kingdom, but of whom we now know the name only of one, viz. the earl of Lenox. They were appointed to attend the princes by turns; to whom also a guard, confuting partly of French and partly of Scots, was affigned; and the queen-mother was left at liberty

to refide where the pleafed.

The earl of Hume, finding his schemes thus abordriven into tive, retired to his own estate; whence he was foon after driven, and o liged to fly into England, by the earls of Arran and Lenox. The queen-mother retired to a monastery at Coldstream; and messengers were difpatched to the court of England, to know how Henry would have his fifter disposed of. He ordered the lord Dacres, his warden of the marches, to attend her to

Harbotile-caffle in Northumberland; and here the was Scotland delivered of her daughter the Lady Mary Douglas, mother to Henry Lord Darnley, father to James VI. The regent dispatched ambassadors to Henry, in order to vindicate his own conduct. He likewife fent to affure the casen that the had nothing to fear in Scotland; and to invite her to return thither, where she should at all times be admitted to fce her children. This offer, however, the declined; and fet out for London, The queen where the was affectionately received and entertained by goes to her brother. But in the mean time many diforders England. were committed throughout the kingdom by the party of the queen-mother; though, by the interpolition of Archbifton Forman, they were at present terminated without bloodshed, and some of the principal offenders were perfuaded to return to their duty. Among these was the earl of Angus himself, the queen's hutband; Her hut-which when King Henry heard, he exclaimed, "That band fub-the earl, by deferting his wife, had acted like a Scot." must be the Lord Hume refused to surrender himself, or to accept regent. of the regent's terms; and was of confequence declared a traitor, and his estate conficated. All this time he had been infeiling the borders at the head of a lawlefs banditti; and now he began to commit fuch devaftations, that the regent found it necessary to march against him at the head of 1000 disciplined troops. Hume being obliged to lay down his arms, was sent prisoner to Edinburgh castle; where the regent very unaccountably committed him to the charge of his brother-in-law the earl of Arran. Hume easily found means to gain over this near relation to his own party; An. 1515 and both of them, in the month of October 1515, escaped to the borders, where they soon renewed holdi-Rebellion lities. Both the earls were now proclaimed traitors, and combut Hume was allowed fifteen days to furrender him-motions in felf. This short interval the regent employed in quel-places. ling the rebellion, for which purpose the parliament had allowed him 15,000 men. He belieged the caffle of Hamilton, the earl of Arran's chief feat, which was in no condition for defence: but he was prevailed on by Arran's mother, daughter to James II. and aunt to the regent himfelf, to forbear further hostilities, and even to pardon her fon, provided he should return to his duty. Arran accordingly fubmitted; but the public tranquillity was not thus restored. An affociation, at the head of which was the earl of Moray, the king's natural brother, had been formed against the earl of Huntly. That nobleman was too well attended to fear any danger by day; but his enemies found means to introduce some armed troops in the nighttime into Edinburgh. On this a fierce skirmish ensued, in which some were killed on both sides; but farther bloodshed was prevented by the regent, who confined all the lords in prifon till he had brought about a general reconciliation. One Hay, who had been very active in stirring up the quarrels, was banished to France; and only the earl of Hume now continued in arms.

415 who is England.

In 1516 died the young duke of Rothefay: an event An. 1516. which brought the regent one degree nearer the crown, fo that he was declared heir in case of the demise of young James. Negociations were then entered into about prolonging the truce which at that time fubfifted with England; but Henry infifting on a removal of the regent from his place, they were for the present dropped,

Scotland, dropped. Finding, however, that he could neither prevail on the parliament as a body to difmits the regent, nor form a party of any confequence against him. he at last confented to a prolongation of the truce for a

An. 1517. The earl of Hume put to death.

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roes to

Scotland.

In 1517, the affairs of the regent requiring his prefence in France, he refolved, before his departure, to remove the earl of Hume, who, as we have feen, alone continued to diffurb the public tranquillity. Under pretence of fettling fome differences which flill remained with England, he called a convention of the nobility; and fent special letters to the earl of Hume and his brother to attend, on account of their great knowledge in English affairs. Both of them imprudently obeyed the fummons, and were feized and executed as foon as they arrived at Edinburgh. Whatever occafion there might be for this feverity, it alienated the affections of the people to fuch a degree, that the regent could fearcely get the place filled up which Lord Hume had possessed. That of lord warden of the marches he at last gave to his French favouring La Beaute, called by historians Sir Anthony D'Arcy. The post of lord chamberlain was given to Lord Fleming. Soon after this, the regent levied an army, on pretence of reprefsing fome diffurbances on the borders. These being speedily quelled, he seized on his return the earl of Le-The regent nox, and forced him to deliver up his castle of Dumbarton; not choosing to leave it, during his intended ab-France, and sence in France, in the custody of a nobleman of sufthe queen returns to pected fidelity; and from fimilar motives, afterwards took him with him on his departure for the continent.

> He then procured himself to be nominated ambassador to France, in which character he left the kingdom; having committed the government to the archbishops of St Andrew's and Glasgow, the earls of Arran, Angus, Huntly, and Argyle, with the warden D'Arcy, on whom was his chief dependence.

On the departure of the regent, the queen-mother left the English court; and arrived with a noble retinue at Berwick, on purpose to visit her son. Here she was received by her husband; for whom she had contracted an invincible aversion; either on account of his infidelities to her bed, or because he had deserted her in the manner already related. She suppressed her refentment, however, for the prefent, and accompanied him to Edinburgh. Here, in confequence of the propofals made by the regent, she demanded access to her fon; but this was refused by D'Arcy. Lord Erskine, however, who was one of those to whom the care of the young king was committed, conveyed him to the caftle of Craigmillar (where D'Arcy had no jurisdiction), on pretence that the plague was in Edinburgh; and there the queen was admitted; but this gave such offence to D'Arcy, that Lord Erskine was obliged to carry back the king to the castle of Edinburgh, where all further access was denied to his mother. In short, the behaviour of this favourite was on all occasions so haughty and violent, that he rendered himself universally odious; and was at last murdered, with all his attendants, in his way to Dunfe, where he proposed to hold a court of justice .- His death was little regretted; yet his murderers were profecuted with the utmost feverity, and feveral perfons of distinction declared rebels on that account.

Meanwhile, the regent was treated with high marks

of dillinction in France. The king showed him the Scotland. greated respect, promised to afful in co-onthing his authority in Scotland, and folemaly confirmed the ancient league between the two kingdoms. Soon after, the earl of Lenox arrived from France, with affurances of protection and affiftance from the king, who was highly pleased with the zeal of the governors in punishing D'Arcy's murcerers; and 500 foldiers arrived with him, to reinforce the garrifons, especially that of

All this time the queen mother continued at Edin-The queen burgh, employed herfelf in attempts to procure a di-attempts to vorce from her hufband, under pretence of his having averce her been previously contracted to another. The affeirs of An. 1110. the kingdom again began to fall into confusion, and many murders and commotions happened in different parts of the country. The earl of Arran had the chief direction in the flate; but the earl of Angus, no ithflanding the difference with his wife, had ftill great interest, and waited every opportunity to oppose him. This emulation produced an encounter at Edinburgh; in which skirning were killed. This fkirmilli was fought on the 30 h of the follow-April 1519, and has been known in Scots history by the ers of the

On the 19th of November 1521, the regent returned vigus. from France. He found the kingdom in great diforder, An. 1521-The earl of Angus domineered in the field, but his antagonists outvoted his party in the partiament. The queen-mother, who had fixed her affections on a third hurband, hated all parties almost equally; but joined the duke of Albany, in hopes of his depriving the other two of their power. This happened according to her ex pectation; and the was with the regent when he made a kind of triumphal entry into Edinburgh, attended by a number of persons of the first rank .- The earl of Angus wa; now fummoned to appear as a criminal; but his wife interceded for him, not out of any remains of affection, but because he gave her no opposition in the process of divorce which was depending between them. An. 1512. -In the mean time, Henry VIII. of England, perceiving that the Scots were entirely devoted to the War with French interest, sent a letter full of accusations against England. the regent, and threats against the whole nation, if they did not renounce that alliance. No regard being paid to these requisitions, Lord Dacres was ordered to proclaim upon the borders that the Scots must fland to their peril if they did not accede to his measures by the first of March 1522. This producing no effect, Henry feized the effects of all the Scots reliding in England, and banished them his dominions, after marking them, according to Bishop Lesley, with a cross, to distinguish them from his other subjects. A war was the unavoidable confequence of these proceedings; and, on the 30th of April, the earl of Shrewfbury, Henry's Heward of the household, and knight of the garter, was appointed commander in chief of the army that was to act against the Scots; and, in the mean time, Lord Dacres made an inroad as far as Kelfo, plundering and burning wherever he

The regent ordered his army to rendezvous at Rof- The Scots lin; but the Scots, remembering the difaster at Flod-refuse to inden, showed an extreme aversion to the war, and even vade Engdeclared to the regent, that though they would de-land. fend themselves in case they were attacked, they would

Settled not engage in a French quarrel. The regent remonflrated, but without effect; and as the malcontents continued obilinate, he was in danger of being left by himfelf, when the queen-mother interpoled, and prevailed with Lord Dacres to agree to a conference, the event of which was a renewal of the negociations for

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415 Ti Erg-

The regent perceiving, by the difgrace of this expedition, that he had loft his former popularity, determined to revenge himfelf; and therefore told those in whom he could confide, that he was about to return to France, whence he should bring such a force by fea and land, as should render it unnecessary for him again to ask leave of the Scots to invade England. Accordingly he embarked for France on the 25th of October, but publicly gave out that he would return the en-

On the regent's arrival in France, he made a demand of 10,000 foot and 5000 horse for carrying on the war against England; but the situation of Francis did not then allow him to force fo many at once, though he was daily fending over thips with men, ammunition, and money, for the French garrifons in Scotland. At last it was publicly known in England that the regent was to intercept about to return with a throng fleet, and 4000 of the best troops in France; on which Henry determined, if poffble, to intercept him. Sir William Fitz Williams, with 36 large ships, was ordered to block up the French frandron in the harbour of Finhead; Sir Anthony Powelz cruized with another in the western feas, as Sir Christopher Dow and Sir Henry Shireburn did in the northern with a third squadron. The duke of Albany, being unable to cope with Fitz-Williams, was obliged to let out from another port with 12 ships, having some troops on board. They fell in with Fitz-Williams's fquadron; two of their thips were funk, and the reft driven back to Dieppe. Titz-Williams then made a defcent at Troport, where he burnt 18 French thips, and returned to his flation off Finhead. By this time the French had given the duke fuch a reinforcement as made him an overmatch for the English admiral, had the men been equally good; but the regent had no dependence on French failors when put in competition 427 He escapes with the English. Instead of coming to an engagement, therefore, as foon as Fitz-Williams appeared, he disembarked his foldiers, as if he had intended to delay his expedition for that year; but a fform foon arifing, which obliged the English sleet to return to the Downs, the regent took that opportunity of reimbarking his men, and, failing by the wellern coasts, arrived fafe in Scotland.

Scot and.

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All this time the earl of Surry had been carrying fixions of on the most cruel and destructive war against Scotland; infomuch that, according to Cardinal Wolfey, "there w s left neither house, fortress, village, tree, cattle, corn, nor other fuccour for man," in the diffricts of Tweed-dale and March. The regent's return did not immeciately put a flop to thefe devastations; for the inteffine divisions in Scotland prevented him from taking the field. His pary was weakened by his long abfence, and the queen-mother had been very active in firengthening the English interest. A parliament was called in 1523, in which it was debated, V hether peace or war with E g d hould be refolved on? and the determinations of this parliament were evidently on the

worse fide of the question. Henry was at this time so Scotland. well disposed to cultivate a friendship with Scotland, that he offered to James his eldest fifter Mary in mar-Henry ofriage; but the Scots, animated by the appearance of fers peace. their French auxiliaries, and corrupted by their gold, which is rejected all terms, and refolved on war. However, rejected. when the army was affembled, and had advanced to the borders, he found the fame difficulty he had formerly experienced; for they peremptorily refused to enter England. With great difficulty he prevailed with part of the army to pass the Tweed; but not meeting with fuccess, he was obliged to return to Scotland, which at this time was divided into four factions. One of these was headed by the regent, another by the queen, a third by the earl of Arran, and a fourth by the earl of Angus, who had lived as an exile under Henry's protection. Had it been possible for the earl of Angus and his wife to be reconciled to each other, it would have been much for the interest of the kingdom; but all the art even of Cardinal Wolfey could not effect The duke this reconciliation. At last, the duke of Albany, find-of Albany ing all parties united against him, refigned his office refigus his of regent of Scotland. On the 14th of March that office of reyear, he went on board one of his own thips for France, gent. whence he never returned to Scotland. He did not indeed make a formal abdication of his government; but he requested the nobility, whom he convened for that purpose, to enter into no alliance with England during his abfence, which he faid would continue no longer than the first of September following; to make

no alteration in the government; and to keep the king at Stirling. The nobility, who were impatient for the absence of

the regent, readily promifed whatever he required, but without any intention of performing it : nor, indeed was it in their power to comply; for it had been previoully determined that James himself should now take the administration into his own hands. According to Buchanan, the regent had no fooner returned to France than Scotland relapfed into all the miferies of anarchy. The queen dowager had the management of public affairs, but her power was limited. The earl of Arran, apprehending danger from the English, entered into the views of the French party. The queen-mother's diflike to her hufband continued as great as ever, which prevented an union among those who were in the English interest; and Wolfey took that opportunity of restoring the earl of Augus to all his importance in Scotland,-The queen mother, therefore, had no other means left to keep herfelf in power, than to bring James himfelf An. 1524. into action. On the 29th of July, therefore, he removed from Stirling to the abbey of Holyroodhouse; James takes where he took on himself the exercise of government, on himself by convoking the nobility, and obliging them to swear ment, allegiance to his person a second time. The truce with England was now prolonged, and the queen's party carried all before them. On the very day in which the last truce was figned with England, the earl of Angus entered Scotland. He had been invited from his exile in France into England, where he was carefled by Henry, who difre arded all his fifter's intreaties to fend him The carl f back to France, and now refolved to support him in An us re-Scotland. Yet, though his declared intention in fend-turns to ing the carl to Scotland was, that the latter might ba-Scotland. lance the French party there, the king enjoined him to

Negocia-

ran, who now acted as prime minister, as long as he thould oppose the French party. On his return, however, he found himself excluded from all share in the government, but foon found means to form a ftrong party in opposition to Arran. In the mean time, ambaffadors were fent to the court of England, in order to bring about a latting peace between the two nations. At the fame time a match was proposed between the young king of Scotland and Henry's daughter. This neace with had originally been a scheme of Henry himself; but England. the emperor Charles V. had refolved to outbid him, by offering James a princels of his own family, with an immense treasure. The ambassadors arrived at London on the 19th of December, and found Henry very much disposed both to the peace and to the match. Commillioners were appointed to treat respecting it; but they were infructed to demand by way of preliminary, that the Scots flould absolutely renounce their league with France, and that James should be sent for education to England till he should be of a proper age for marriage. The Scottish commissioners declared, that they had no instructions respecting these points: but one of them, the

mean time the truce was prolonged to the 15th of May The carl of Angus power.

1525. On his arrival at Edinburgh, he found the earl of Angus the leading man in parliament; by whole incomes into fluence it was determined that the Scots should renounce their league with France, and substitute in place of it a An. 1525 fimilar league with England; and that the king should be brought up at the English court till he was of an age proper for marriage: but at the same time they required of Henry to break off all engagements with Charles V. who was the bitter enemy of Francis, and at that time detained him prisoner. To this the English monarch returned but a cool reply, being then engaged in a number of treaties with the emperor, among which one was concerning the marriage of the princels Mary with his imperial majesty himself; however, before Caffilis returned, a truce of two years and a half

earl of Cassilis, offered to return to Scotland, and bring

a definitive answer from the three states; and in the

was concluded between England and Scotland. 435 Is opposed Now, however, the queen-mother, though the had al-

ways been a warm advocate for an alliance between the two nations, disliked the means of bringing it about .--She faw her hufband's party increasing every day in power; fo that now the had no other refource but to keep poffession of the king's person, whom the removed to the castle of Edinburgh. Being now under the necessity of convening a parliament, it was resolved to hold it within the castle; but this being an unconstitutional measure, gave a pretext to the earl of Arran and his party to complain of the innovation. They began with remonstrances; but finding the'e ineffectual, they form-Edinburgh ed a block de of the castle with 2000 men, and cut off the queen ordered some of the cannon to be turned against the tor n, in order to force the citizens to terwhen all things appeared ready for a civil war, matters were compromised, though in fuch an imperfect manner as le every little room to hope for perfect tranof illity. It was agreed, that the king flighted remote out of the carrie of Edinburgh to the palace of Holyroodhouse; from which he should repair with all posfible magnificence to his parliament, in the house where it was commonly held; and there a termination was to An. 1526. be put to all differences. This agreement was ligned on the 25th of February 1 526. The parliament accord-Marriage ingly met, and the king's marriage with the princess of with an England was ratified; but no mention was made of English the king's being fent for his education into that coun-princess retry; on the contrary, he was committed to the care of lalved on. eight lords of parliament. These were to have the cultody of the king's person, every one his month in rotation, and the whole to fland for the government of the state; yet with this limitation, " that the king, by in great affairs to which the queen-dowager, as princets and dowager, fhould not give her confent," This partition of power, by giving the queen-dowager a negative in all public matters, foch threw every thing into confu-The earl of Angus, by leading the king into various scenes of pleasure and dislipation, so gained the afcendency over him, that he became almost totally guided by him. The queen mother, perceiving that she could not have access to her fon, without at the same time being in company with her hufband, whom the hated, retired fuddenly with her domestics to Stirling. Thus the king was left under the fole tuition of the carl He is left of Angus, who abused his power, engroffing all the hands of places of honour or profit. The architifhop of St the enrof Andrews having now joined the queen's party, advited angus her to make a fermal demand upon her husband, that last parliament should take place, and that under a penalty he fhould fet the king at liberty. To this the brother; in which he declared, that " the earl of Angus having been fo highly favoured by his good uncle the lords need be in any pain about him, as he chose to fpend his time with the earl of Angus rather than with any lord in the kingdom." James himself, however, Attempts had fufficient discernment to perceive, that, notwith to regiver standing all the fair pretences of the earl of Angus, he his liberty. was in fact no better than his prisoner; and resolved to attempt the recovery of his liberty. The earls of Argyle and Arran had for fome time retired from court, where they had no there in the administration, and were living on their own effates; but the earl of Lenox difneither by the earl of Angus, nor any of the Douglas family, who were his partifins. The king being gainto him, and requelled his affiltance against his treacherous keepers. At the fame time he fent letters to his mother, and the heads of her party, by some of his

On receiving this letter, the queen-mother and her

domestics whom Lenox had pointed out, intreating them to remove him from the eart, and not fuffer him any

longer to remain under his imperious jurisdiction; ad-

ding, that if this could not be done by any other means,

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Scotland, but at the same time to carry along with him his royal charge. This resolution being made known to the queenmother, the was to much concerned for the fafety of her ion, that the whole party disbanded themselves; and thus the authority of the car! of Angus feemed to be more established than ever. Nothing, indeed, was now wanting to render him despotic but the possession of the great feal, which the archbishop of St Andrew's had carried with him to Dunfermline. As no deed of any confequence could be executed without this, he prevailed on the king to demand it by a special message; in confequence of which, the archbishop was obliged to The queen relinquish it. About this time the divorce which had mother dibeen fo long in agitation between the queen-mother and the earl of Angus actually took place; and this, no doubt, increased the diflike of James to his confinement, while the imprudence of Angus daily gave fresh reason of difguit. As Angus knew that he had no firm fupport but in the attachment of his followers to his perfon, he fuffered them to rob and plunder the estates of his opponents without mercy. These, again, did not fail to make reprifals; so that, towards the end of the year 1526, there was scarcely any appearance of civil government in Scotland. Thus the court became almost totally deferted; every nobleman being obliged to go home to defend his own estate. Even Angus himself shared in the common calamity, and hence was frequently obliged to leave the king to the custody of Lenox. To this nobleman the king now made the most grievous complaints, and charged him to contrive fome 442 The baron plan for his escape. Lenox accordingly recommended to him the baron of Buccleugh, who was very powerful in the fouthern parts, and a violent enemy to Angus and the whole family of Douglas. To him he gave king, but is instructions to foment the disorders in the southern parts to fuch a degree as to require the king's personal prefence to compose them. Buccleugh was then to attack the party, and take the king by force from the Douglases. This scheme was put in execution, but Buccleugh had the misfortune to be defeated; fo that the attempt proved abortive, and James found himfelf in a worse situation than before. After this attempt, however, as the earl of Angus could not but know that Lenox had been acceffory to it, the former behaved towards him with fuch visible indifference, that Lenox openly declared against him, and advised the king to form a friendship with the archbishop of St Andrew's, in order to effect his liberty. This was accordingly done; but the interest of the archbishop and Lenox was overbalanced by that of Arran and the Hamilton family, whom the earl of Angus had now drawn over

> The citizens immediately put themselves under orms; but James, pretending to be indifposed, Sir George

> Douglas, brother to the earl of Angus, made him the following speech: "Sir, rather than our enemies should

> take you from us, we will lay hold of your person;

443 Another attempt by ceived powers from the king for that purpole, fuddenly Lenox. An. 1527.

to his party. The earl of Lenox, however, having reretired from court; and published a manifelto, inviting all loyal fubjects to affift him in delivering the king from confinement. In confequence of this lie was foon joined by a numerous army, with whom he advanced towards Edinburgh. Angus did not fail to affemble his adherents; and fent orders to the inhabitants of Edinburgh to take the field, with the king at their head.

and should you be torn in pieces in the struggle, we Scotland. will carry off part of your body." Upon this speech, which James never forgot, he mounted his horse and set forward to Linlithgow, but with a very flow pace; infomuch that Sir George Douglas, afraid of not coming in time to fuccour his brother, made use of many indecent expressions and actions to push James on to the field of battle. Three expresses arrived from the earl of Angus; the first informing his brother that he was about to engage with a fuperior army; the fecond, that Angus was engaged with a division of Lenox's army, commanded by the earl of Glencairn; and that Lenox himself was engaged with the Hamiltons. The third informed him that Lenox, if not actually defeated, was on the point of being fo. Upon receiving this last who is denews, James hastened to the field of battle, that he feated and might fave Lenox, and put an end to the flaughter .- killed. But he came too late: for the royal party was already defeated with great flaughter; and Lenox himfelf, after being wounded and taken prisoner, was murdered

by Sir James Hamilton.

On the night of the battle, the king was removed to Linlithgow; and though he was under the greatest grief for the fate of Lenox, the behaviour of the Douglases struck him with such terror that he dissembled his fentiments. . The earl of Angus led his victorious troops into Fife, in hopes of furpriling the queen-mother and the archbishop of St Andrew's. The queen mother, on The queenthe news of his approach, fled, with her new husband mother and Henry Stuart, brother to Lord Evandale, to Edinburgh, archbishop and both were admitted into the castle. The archbishop beiged to fled to the mountains, where he was obliged to keep fly. cattle as a shepherd. Angus, after having plundered the castle of St Andrew's and the abbey of Dunfermline, returned in triumph to Edinburgh, where he prepared to befiege the caitle; but the queen-mother, hearing that her fon was among the number of the befiegers, ordered the gates of the castle to be thrown open, and furrendered herfelf and her hufband prifoners to James, who was advised to confine them to the castle. After these repeated successes, the earl of Angus established a kind of court of justice, in which he prosecuted those who had opposed him, among whom was the earl of Cassilis. He was offered by Sir James Hamilton, natu-Trial and ral ion of the earl of Arran, the same who had murdered murder of Lenox, an indemnity if he would own himfelf a vaffal the earl of of that house; but this condition was rejected. Being Cassilisa called to his trial, and accufed of having taken arms against the king, a gentleman of his name and family, who was his advocate, denied the charge, and offered to produce a letter under James's own hand, defiring him to affift in delivering him from his gaolers. This firiking evidence confounded the profecutor fo much, that the earl was acquitted; but on his return home he was way-laid and murdered by one Hugh Campbell, at the infligation of Sir James Hamilton.

During these transactions in the fouth, many of the Highland clans were perpetrating the most horrid scenes of rapine and murder, which also prevailed in some parts of the Lowlands. The state of the borders was little better than that of the Highlands ; but it engaged the attention of Angus more, as he had great interest in thele parts. Marching, therefore, against the banditti which infested these districts, he soon reduced them to fubjection. His power feemed now to be firmly estament.

Scotland, bliffied, infomuch that the archbiffiop of St Andrew's began to treat with Sir George Douglas, to whom he offered lucrative leafes and other emoluments if he would intercede with the rement, as Angus was called, in his favour. This was readily agreed to; and the archbithop was allowed to return in fafety to his palace about the same time that Angus returned from his expedition against the borderers. Nothing was then seen at court but fe livities of every kind, in which the queen the caltle of Stirling; which Angus, not confidering its importance, had neglected to fecure. In the mean time the archbithop invited the Douglafes to frend fome days with him at his castle; which they accordingly did, and carried the king along with them. Here James diffembled fo well, and feemed to be fo enamoured of his new way f life, that Angus thought there could be no danger in leaving him in the hands of his friends, while he returned to Lothian to fettle fome public as well as private affairs. Having taken leave of the king, he left him in the custody of his uncle Archibald, his brother Sir George, and one James Douglas of Parkhead, captain of the guards who watched his majesty on pretence of doing him honour. The earl was no fooner gone than the archbishop fent an invitation to Sir George Douglas, defiring him to come to St Andrew's, and there put the last hand to the leases, and finish the bargains that had been spoken of between out for St Andrew's; while his uncle the treasurer went to Dundee. James thinking this to be the best opportunity that ever prefented itself for an escape, resolved to avail himself of it at all events; and found means, by a private message, to apprise his mother of his design. It was then the feafon for hunting and diversion, which James often followed in the park of Falkland: and calling for his forrefter, he told him, that as the weather was fine, he intended to kill a stag next morning, ordering him at the same time time to summon all the gentlemen in the neighbourhood to attend him with their best dogs. He then called for his chief domestics, and commanded them to get his supper early, because he intended to be in the field by day-break; and he talked with the captain of his guard of nothing but the excellent sport he expected next morning. In the mean time, he had engaged two young men, the one a page of his own, the other John Hart, a helper about his flables, to attend him in his flight, and to provide him with the drefs of a groom for a difguife. Having formally taken leave of his attendants, charging them to be ready early in the morning, and being left alone, he stole foftly out of his bed-chamber, went to the stable unperceived by the guards, dreffed himfelf in his disguise; and he and his companions mounting the three by the queen's appointment, he was admitted foon after day-break. He commanded all the gates to be fecured; and the queen having previously prepared every thing for a vigorous defence, orders were given that none should be admitted into the castle without the king's permission.

About an hour after the king's escape from Falkland, Sir George Douglas returned; and being affured that his majesty was asscep, he went to bed. It appears that James Lad been feen and known in his flight, for antiard. in the morning the bailiff of Abernethy came post hafte to inform Sir George that the king had passed Stirling bridge. They had, however, fome glimmering hope that he king might be gone to Bambrigh : but that dipate led, informing Angus of all that had has pened. manding access to the king.

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James by this time had iffued letters to the earls of He pre-

Huntly, Argyle, Athol, Glencairn, Menteith, Rothes, Pares to and Eglinton; the lords Gral .m, Livingston, Lindfay, or Semple. Before all of them could arrive at Stirlin , the earl of Angus and his friends were upon their journey to the same place; but were stopped by a herald at arms, commanding them on their alleginnce not to approach within fix miles of the king's retidence. This order having fufficiently intimated what thy were to expect, the earl deliberated with his party how he should proceed. Some of them were for marching on and taking the castle by surprise: but that was found to be impracticable, especially as they had no artillery. The earl and his brother therefore resolved to make a show of submission to the king's order; and they accordingly went to Linlithgow. By this time all the nobility already mentioned, and many others, had affembled as Stirling; and James, calling them to council, inveigl ed against the tyranny of the Douglases with an acri mony that fufficiently discovered what pain it must have given him when he was obliged to bear it in filence. He concluded his speech with the'e words: "Therefore I defire, my lords, that I may be fatisfied of the faid earl, his kin, and friends. For I vow that Scotland shall not hold us both, while I be revenged on him

The refult of the council's deliberation was that proclamation should be made, renewing the order for the Douglafes not to approach the court, and divetting the earl of Angus and his brother of all their public employment. In the mean time, fuch was the moderation of the aslembly, that by their advice James ordered the earl to retire to the north of the Spey till his pleafure should be known; but his brother was commanded to furrender himfelfa prisoner in the castle of Edinburgh, to take his trial in a very full parliament (all the members being fummoned to attend), to be held in that city next September. The earl and his brother confidered compliance with these conditions as a prelude to their destruction; and resolved to justify their treasons by still greater excelles, in furprifing the town of Edinburgh, and holding it against the king and parliament, before the latter could affemble. Historians have not done that justice to the proceedings of the royal party on this occasion which they deserve. The management of the king's escape, his reception into Stirling, the fortifying that caffle, and the ready obedience of his great nobility, fome of whom attended him with their followers before they received any fummonfes for that purpofe, are proofs of wife and spirited deliberations. Their conduct at this time was equally confishent with the same

It was naturally to be supposed that the Douglases, who remained affembled in a numerous body, would

2 of m the attempt already mention 1, but the royalids had the precaution to dispatch the lord Maxwell and forces to their relief. Maxwell and Lochinvar made fuch dispatch, that they were in possession of the town when the Donglases appeared before it, and repulsed them; while a most terrible florm had scattered the troops under James before he could come to their affittance, fo effectually, that, being left almost without atterdants, his perion might have been taken by the fmallest party of the enemy. On the retreat of the Douglases from Edinburgh, the parliament met; and none of them appearing in pursuance of their summons. the earl of Angus, his brother Sir George Douglas, his uncle Archibald Douglas, and Alexander Drummond of Carnock, with some of their chief dependents, were indicted, and their estates forfeited for the following offences: " The affembling of the king's lieges, with intenting to have affailed his person; the detaining of the king against his will and pleasure, and contrary to the articles agreed upon, for the space of two years and more; all which time the king was in fear and danger of his life." We know of no advocate for the earl and his friends but one Banantyne, who had the courage to plead their cause against those heinous charges; and so exasperated were both the king and parliament against them, that the former (wore he never would forgive them, and the latter that they never would intercede for their pardon. Thus it was not deemed fufficient finply to declare their resolutions; but the solemnity of oaths was added with an intention to discourage the king of England from continuing the vigorous applications he was every day making, by letters and otherwife, for the pardon of Angus; and to exclude all hapes of that kind, James created his mother's third hutband (to whom the had been married for fome time) Lord Methyen, and gave him the direction of his

> The difference and forfeiture of the Douglases having ere ted many v cancies in the flate, Gavin Dunbar, archilliop of Glasgow, and tutor to the king, was nofied for a post which ought to have been filled by an able Batelinan; and Robert Carnerofs, a person (fays Buchange) more eminent for wealth than virtue, was made tree larce: but this last was foon after displaced, being impected of favouring the Douglafes; and Robert Barton, one of the king's favourites, was appointed to facceed him. The Douglafes fill kept their arms; and being joined by a great number of outlaws and robenomics, carrying their devailations to the very gates ed to the eal of Bothwell to act against those rebels: law ever, in the neighbourhood of Edinburgh, were rollest were carried off to their calle of Tantallon, which now ferved as their head-quarters, and was threat-

It is remarkable, that the coftle of Danbar remained

recognited no mafter but lim. The place was well 3 otland. flored with artillery of all kinds; and lying in the neighbourhood of l'antallon, it was easy to transport them to the fiege; but James thought he had no right to make use of them without the confent of one Maurice, governor of the cattle. Having fummoned, by proclamation, the inhabitants of Fife, Angus, Strathern, Stirlingthire, Lothian, Merfe, and Teviotdale, to be ready to compear at Edinburgh on the 10th of December, with 40 days victuals, to affift in the fiege, he fent three noblemen to borrow artillery from Maurice. and to remain as pledges for the fafe redelivery of the fame; and the feveral pieces required were accordingly fent him. This delicacy is the more remarkable, as we James is are told that the duke of Albany had given orders that disappointevery thing in his caltle should be at the king's service, scheme of However unanimous the parliament might appear against revenge. the Douglases, James was but ill-seconded in this attempt. This proceeding, in a country where the Douglates had so many connections, carried with it an appearance of cruelty, and a thirst of revenge, especially as James had chosen such a season of the year for carrying on the fiege. In fhort, after battering the place for fome days, and lofing one Falconer, his chief engineer, the king was obliged to abandon his enterprife, or rather to turn the fiege into a blockade, with no great credit to his first military attempt in the field. Some historians intimate, that Angus found means to corrupt the other engineers; but we find, that before this time, a negociation was going forward between James and the king of England; the nature of which proves that the former was now rendered more placable towards the Douglases, and this was the true reason why the siege was fuspended.

The truce between Scotland and England was now near expiring; and Henry, under that pretence, gave a commission to the prior of Durham, Thomas Magnus, Sir Anthony Ughtred captain of the town and castle of Berwick, William Frankelyn chancellor of Durham, and Sir Thomas Tempest. James seems to have been in no hafte to enter upon this negociation, because he underflood that the English commissioners were privately instructed to infilt upon the Douglases being restored to their effates and dignities. England was at that time The Douthe principal ally of Francis against the emperor; and glases obthis gave a pretence to Francis to interpole fo far in fa-tain a feyour of the Douglases, that he brought James to con-in Englan! fent to a preliminary negociation for their obtaining at least a secure retreat in England. This was at last com-

James being now delivered from all dread of the Douglases, and under no controul from any party, showed excellent dispositions for government. Finding that the James re borderers were by no means pleafed with the late treaty, duce the and that they were renewing their depredations, he re-borderer folved to firike at the root of an evil which had fo long proved differenceful and dangerous to his anceflors, by giving no quarter to the chiefs of thefe robbers, whole principal refidence was in Liddefdale. This was the more necoffary, as their daring attempts had exasperated the English so much, that they had actually burnt a town in Teviotdale; and had killed one Robert Kerr, a man of some consequence. Two of the chiefs of the Scotch barderers were Cockburn of Kenderlaw, and

Adam Scot, commonly called king of the thieves. Both

Scotland, of them were barons; and had been fo inured to the practice, that they thought there was no crime in robbing : they therefore appeared publicly in Edinburgh ; where James ordered them to be apprehended, tried, and hanged. He next proceeded with great firmness against many noblemen and principal gentlemen, who were only suspected of being disaffected to the late peace. All of them had behaved with great loyalty, and some of them had done him the most important services. Of

this number were the earl of Hume, the lord Maxwell, with the barons of Buccleuch, Farniherst, Polwart, Johnston, and Mark Kerr. Though we know nothing particularly of what was laid to the charge of these noblemen and gentlemen, yet fo zealous was James for the impartial administration of justice, that he ordered them

all, with many other chief gentlemen of the borders, to be fent to prison; where they lay till they entered into recognizances themselves, and found bail for their good

Of all the party of the Douglases, none of any note

excepting Alexander Drummond of Carnock was futfered to return home, at the earnest request of the ambassadors, and the treasurer Barton. This lenity was of very little confequence; for James having appointed the earl of Murray to be fole warden of the Scotch marches, with power to treat with the earl of Northumberland, their conferences had broken off on account of fresh violences happening every day; and fome information he had received from them, had prevailed with James to imprison the noblemen and gentlemen already mentioned. He now resolved to attempt in person what his predecessors and himself had so often failed to accomplish by their deputies. As he was known to be violently addicted to hunting, he fummoned his nobility, even on the north of the Forth, to attend him with their horses and dogs; which they did in such numbers, that his hunting retinue confitted of above 8000 persons, two-thirds of whom were well armed. This preparation gave no suspicion to the borderers, as great hunting-matches in those days commonly consisted of some thousands; and James having set out upon his diversion, is faid to have killed 540 deer. Among the other gentlemen who had been fummoned to attend him, was John Armstrong of Gilnockhall. He was the head of Armstrong, a numerous clan, who lived in great pomp and splendor upon the contributions under which they laid the English on the borders. He was himself always attended by 26 gentlemen on horseback, well mounted and armed, as his body-guard. Having received the king's in-vitation, he was fond of displaying his magnificence to his sovereign; and attiring himself and his guard more pompoully than usual, they presented thenselves before James, from whom they expected some particular mark of distinction for their fervices against the Englifh, and for the remarkable protection they had always given to their countrymen the Scots. On their first appearance, James, not knowing who he was, returned Armstrong's falute, imagining him to be some great nobleman; but upon hearing his name, he ordered him and his followers to be immediately apprehended, and fentenced them to be hanged upon the fpot. It is faid that James, turning to his attendants, afked them, pointing at Armstrong, " What does that knave want that a king should have, but a crown and a sword of honour?" Armstrong begged hard for his life; and offer-VOL. XVIII, Part II.

ed to ferve the king in the field with forty horsemen. Scotland. besides making him large presents of jewels and money, with many other tempting offers. Finding the king inexorable, " Fool that I am (faid he) to look for warm water under ice, by asking grace of a graceless face;" and then he and his followers submitted to their fate. These and similar executions restored peace to the borders.

Hitherto we have confined ourselves chiefly to the State of civil transactions of North Britain, and have only inci-the Scotdentally noticed the ecclefialtical affairs. These are tish church now, however, to claim a confiderable there of our at- at the betention, as about this time the spirit of the reformed re-the 15th ligion had extended itself to Scotland, where it foon century.

made a most rapid progress.

We have feen, that for feveral centuries, the hierarchy of North Britain possessed no finall degree of influence and power; but we have found few instances of any remarkable respect being paid to the supremacy of the Roman pontiff. The pope, indeed, as supreme head of the church, had long affumed the right of confecration, and this right, in the opinion of those ages, was undoubted, according to the chablished law of the Christian world. The spiritual jurisdiction of the pope was always acknowledged; but before the end of the 12th century, his temporal power was disputed, because it would have absorbed the sovereign right of independent princes. After many struggles, Pope Celestine III. in 1188, declared the church of Scotland to be the daughter of Rome by special grace, and to be immediately subject to the apostolic jurisdiction. This was confidered by the Scottish clergy as a charter, by which they were emancipated from the claims of jurisdiction which had been brought by the English archbishops of York and Canterbury.

From the beginning of the 12th century we begin to meet with instances of national councils of the Scottish clergy, at which the pope's legates affifted; but still we find no authority assumed by the pope in temporal mat-ters, before the reign of Alexander II. when the people of Scotland were excommunicated for engaging in hostilities with King John of England, then the adopted fon of the church. This excommunication, indeed, produced but little effect, and during a reign which reflected glory on the king, and was productive of advantage to his kingdom, Alexander nearly established

the independence of the Scottish church.

In the progress of papal usurpation, the court of Rome proceeded, from appropriating the revenues of the Scottish church, to the appointment of the Scottish bishops. This usurpation was first attended with success in 1259, when the pope appointed his own chap-lain to the bishopric of Glasgow. The church of Scotland, however, to shew her independence on papal authority, affembled a general council at Perth in 1269-This was called by one of their own bishops, who prefided at its meetings, and by this affembly was enacted a body of canons, which remained the ecclefiaftical code of Scotland till the epoch of the reformation. Such councils continued to assemble from time to time for correcting clerical abuses, and maintaining the freedom of the Scottish church.

The right of presentation appears to have been exerted from the 12th century in North Britain, as it has

Hangs a noted robber, with 26 of his fellow\* Chala

Caledonia.

Scotlard, always been exerted in England. The bishops were named by the king, elected by their chapters, and confecrated by the pope, or by some of the other bishops. The king appointed the rural deans, and the chancellor of Scotland exercised the king's right of presentathe right of prefentation to those benefices which had arifen from their own munificence, or the piety of their ancestors. The bishops and abbots had acquired, by the royal charters, or grants from the barons, the right of advowfon over many churches, and from this right were deduced other privileges of great importance \*

That form of popery which prevailed in Scotland was of the most bigotted and illiberal kind. Those doctrines which are most apt to shock the human undertlanding, and those legends which farthest exceed belief, were proposed to the people, without any attempt to palliate or disguise them; nor did they ever call in question the reasonableness of the one, or the

truth of the other.

The power and wealth of the church kept pace with the progress of superstition; for it is the nature of that spirit to observe no bounds in its respect and liberality towards those whose character it esteems facred. The Scottish kings early demonstrated how much they were under its influence, by their vast additions to the immunities and riches of the clergy. The profuse piety of David I. who acquired on that account the name of faint, transferred almost the whole crown lands, which were at that time of great extent, into the hands of ecclefiaftics. The example of that virtuous prince was imitated by his fucceffors. The fpirit fpread among all orders of men, who daily loaded the priesthood with new possessions. The riches of the church all over Europe were exorbitant; but Scotland was one of those countries wherein they had farthell exceeded the just proportion. The Scottish clergy paid one half of every tax imposed on land; and as there is no reason to think that in that age they would be loaded with any unequal share of the burden, we may conclude, that by the time of the Reformation, little less than one half of the property in the nation had fallen into the hands of a fociety, which is always acquiring, and can never lofe.

The nature, too, of a confiderable part of their property extended the influence of the clergy. Many estates throughout the kingdom held of the church; church-lands were let in leafe at an eafy rent, and were possessed by the younger sons and descendants of the best families. The connection between superior and vaffal, between landlord and tenant, created dependences, and gave rife to a union of great advantage to the church; and in estimating the influence of the popith ecclefiaftics over the nation, thefe, as well as the real amount of their revenues, must be attended to,

and taken into the account.

This extraordinary there in the national property was accompanied with proportionable weight in the supreme council of the kingdom. At a time when the number of the temporal peers was extremely fmall, and when the leffer barons and reprefentatives of boroughs feldom attended parliaments, the ecclefiaftics formed a confiderable body there. It appears from the ancient Souls & rolls of parliament, and from the manner of choofing the lords of articles, that the proceedings of that high court must have been, in a great measure, under their direction.

The reverence due to their facred character, which was often carried incredibly far, contributed not a little towards the growth of their power. The dignity, the titles, and precedence of the popilh clergy are remarkable, both as causes and effects of that dominion which they had acquired over the rest of mankind. They were regarded by the credulous laity as beings of a fuperior species; they were neither subject to the same laws, nor tried by the fame judges. Every guard that religion could supply, was placed around their power, their possessions, and their persons; and endeavours were used, not without success, to represent them all as

equally facred.

The reputation for learning, which, however inconfiderable, was wholly engroffed by the clergy, added to the reverence which they derived from religion. The principles of found philosophy, and of a just taste, were altogether unknown; in place of these were substituted fludies barbarous and uninstructive; but as the ecclefiastics alone were conversant with them, this procured them efteem; and a very flender portion of knowledge drew the admiration of rude ages, which knew little. War was the fole profession of the nobles, and hunting their chief amusement; they divided their time between these: unacquainted with the arts, and unimproved by science, they distained any employment foreign to military affairs, or which required rather penetration and address, than bodily vigour. Wherever the former were necessary, the clergy were entrusted, because they alone were properly qualified for the trutt. Almost all high offices in civil government devolved, on this account, on them. To all this we may add, that the clergy being separated from the rest of mankind by the law of celibacy, and undiffracted by those cares, and unincumbered with those burdens which occupy and oppress other men, the interest of their order became their only object, and they were at full leifure to purfue it.

The nature of their function gave them access to all persons and at all seasons. They could employ all the motives of fear and of hope, of terror and of confolation, which operate most powerfully on the human mind. They haunted the weak and the credulous; they befleged the beds of the fick and of the dying; they fuffered few to go out of the world without leaving marks of their liberality to the church, and taught them to compound with the Almighty for their fins, by bestowing riches on those who called themselves his fervants \*. \* Robert-

During the Scoto-Saxon period, there were in Scot- fon's Scotland two archbishoprics, viz. those of St Andrew's and land Glasgow, and ten bishoprics, viz. those of Orkney, the book ii. Western islands, Galloway, Dunkeld, Moray, Brechin, Dunblane, Aberdeen, Rofs, and Argyle or Lifmore (N). To the 'archbithopric of St Andrew's were attached eight deaneries, and nine to that of Glafgow.

The opinions of Luther had been propagated in Bri- Account of tain foon after his preaching in 1517. They had for the reforfome mation.

Scotland some years insensibly gained ground; and, when the contentions began between James and his nobility, were become formidable to the established religion. We have feen how James escaped from the hands of his nobles by means of the archbithop of St Andrew's. To the clergy, therefore he was naturally favourable; and as Why James they naturally opposed the reformation, James became a zealous perfecutor of the reformed. On the other

she clergy. hand, the nobility having already opposed the king and clergy in civil affairs, did the fame in those of religion. The clergy finding themselves unequal in argument, had recourse to more violent methods. Rigorous inquisitions were made after heretics, and fires were everywhere

prepared for them.

459 Martyrdom Hamilton.

The first person who was called on to suffer for the of Patrick reformed religion was Patrick Hamilton abbut of Ferne. At an early period of life he had been appointed to this abbacy; and having imbibed a favourable idea of the doctrines of Luther, had travelled into Germany, where, becoming acquainted with the most eminent reformers, he was fully confirmed in their opinions. Upon his return to Scotland, he ventured to expose the corruptions of the church, and to infift on the advantages of the tenets which he had embraced. A conduct fo bold, and the avidity with which his difcourfes were received by the people, gave an alarm to the clergy. Under the pretence of a religious and friendly conference, he was feduced to St Andrew's by Alexander Campbell, a Dominican friar, who was instructed to remonstrate with him on the subject of the reformation, The conversations they held only ferved to establish the aboot more firmly in his fentiments, and to inflame his zeal to propagate them. The archbishops of St Andrew's and of Glasgow, and other dignitaries of the church, constituting a court, called him to appear before them.

An. 1527. The abbot neither loft his courage nor renounced his opinions. He was accordingly convicted of heretical pravity, delivered over to the fecular arm, and executed in the year 1527 (0). This reformer had not attained the 24th year of his age. His youth, his virtue, his magnanimity, and his fufferings, all operated in his favour with the people. To Alexander Campbell, who infulted him at the stake, he objected his treachery, and cited him to answer for his behaviour before the judgement-feat of Christ. And this perfecutor, a few days after, being feized with a frenzy, and dying in that condition, it was believed with the greater confidence, that Mr Hamilton was an innocent man and a true

martyr.

460

mation.

Excites ge-A deed to affecting, from its novelty and in its cirreral indig- cumitances, excited throughout the kingdom an univerfal curiofity and indignation. Minute and particular inquiries were made into the tenets of Mr Hamilton. Converts to the new opinions were multiplying in every quarter, and a partiality to them began to prevail even

among the Romish clergy themselves. Alexander Se- Sertland. ton, the king's confessor, took the liberty to inveigh against the errors and abuses of Popery; to neglect, in his discourses, all mention of purgatury, pilgrunages, and faints; and to recommend the doctrines of the reformed. What he taught was impugned; and his boldness rising with contradiction, he defended warmly his opinions, and even ventured to affirm, that in Scotland there were no true and faithful bithops, if a judgement of men in this flation is to be formed from the virtues which St Paul has required of them. A farcafin fo just, and fo daring, inflamed the whole body of the prelacy with refentment. They fludied to accomplish his deflruction; and, as Mr Seton had given offence to the king, whom he had exhorted to a greater purity of life, they flattered themselves with the hope of conducting him to the stake; but, being apprehensive of danger, he made his escape into England.

In 1533, Henry Forest, a Benedictine friar, who dif- An. 1533. covered a propenlity to the reformed doctrines, was not 461 fo fortunate. After having been imprisoned for some Henry Fotime in the tower of St Andrew's, he was brought to his trial, condemned, and lcd to the flames. He had faid, that Mr Hamilton was a pious man, and a martyr; and that the tenets for which he suffered might be vindicated. This guilt was aggravated by the discovery that Friar Forest was in possession of a New Testament in the English language; for the prietls esteemed a careful attention to the Scriptures an infallible fymptom of herefy. A cruelty fo repugnant to the common lenfe and feelings of mankind, while it pleafed the infolent pride of the ecclefialtics, was deflroying their importance, and exciting a general disposition in the people to

adopt in the fulleil latitude the principles and fentiments of the reformed.

The following year, James Beaton archbishop of St An. 1334 Andrew's, though remarkable for prudence and moderation, was overawed by his nephew and coadjutor David Beaton, and by his brethren the clergy. In his own person, or by commission granted by him, persecutions were carried on with violence. Many were driven into banishment, and many were forced to acknowledge what they did not believe. The more strenuous and rewhat they did not believe. The more includes and its gas also folute were delivered over to punishment. Among as also Gourlay these were two private gentlemen, Norman Gourlay and and Stra-David Straton. They were tried at Holyroodhouse be-ton: fore the bishop of Ross; and refusing to recant, were condemned. King James, who was prefent, appeared exceedingly folicitous that they should recant their opinions; and David Straton, upon being adjudged to the fire, having begged for his mercy, was about to receive it, when the priests proudly pronounced, that the grace of the fovereign could not to be extended to a criminal whom their law and determination had doomed

to fuffer. A few years after, the bishops having affembled at with seve-Edinburgh, ral others-

(0) His tenets were of the following import, and are enumerated in the fentence pronounced against him. "Man hath no free-will. Man is in fin fo long as he liveth. Children, incontinent after their baptisme, are finners. All Christians, that be worthie to be called Christians, do know that they are in grace. No man is justified by works, but by faith only. Good works make not a good man, but a good man doth make good works. And faith, hope, and charity, are so knit, that he that hath the one hath the reit; and he that wanteth the one of them wanteth the reft." Keith, Hift. of the Church and State of Scotland, Appendix, p. 3.

Scotland. Edinburgh, two Dominican friars, Killor and Beverage, with Sir Duncan Sympson a priest, Robert Forrester a gentleman of Stirling, and Thomas Forrest vicar of Dolour in Perthibine, were condemned to be confumed in the fame fire.

An. 1539.

At Glafgow, a fimilar fcene was acted in 1539: Hieronymus Ruffel a Gray-friar, and a young gentleman of the name of Kennedy, were accused of herefy before the bishop of that see. Russel, when brought to the stake, displaying an undaunted demeanour, reasoned gravely with his accusers, and was only answered with reproaches. Mr Kennedy, who was not yet 18 years of age, feemed disposed to disavow his opinions, and to link under the weight of a cruel affliction; but the exhortation and example of Ruffel awakening his courage, his mind affumed a firmnels and conftancy, his countenance became cheerful, and he exclaimed with a joyful voice, " Now, I defy thee, Death; I praise my God, I am ready." James Beaton, the archbishop of St Andrew's ha-

ton, his coadjutor, was gratified in the fullest manner.

Promotion of Cardinal ving died about this time, the ambition of David Bea-Beaton.

He had before been created a cardinal of the Roman church, and he was now advanced to the poffession of the primacy of Scotland. No Scottish ecclesiastic had ever been invested with greater authority; and the reformers had every thing to fear from fo formidable an enemy. The natural violence of his temper had fixed itself in an overbearing insolence, from the success His charac-which had attended him. His youth had been paffed in fcenes of political intrigue, which, while it communicated to him address and the knowledge of men, corrupted altogether the simplicity and candour of his mind. He was dark, crafty, and defigning. No principles of justice were any bar to his schemes; nor did his heart open to any impressions of pity. His ruling paffion was an inordinate love of power; and the fupport of his confequence depending only on the church of Rome, he was animated to maintain its superstitions with the warmest zeal. He seemed to delight in per-Ediousness and diffimulation: he had no religion; and he was stained with an inhuman cruelty, and the most

open profligacy of manners. In connection with these Scotland. defects, he possessed a persevering obstinacy in pursuing his measures, the ability to perceive and to practife all the arts which were necessary to advance them, and the allurements of oftentation and prodigality.

He was scarcely invested with the primacy, when he exhibited an example of his tatte for magnificence, and of his aversion to the reformation. He proceeded to St Andrew's with an uncommon pomp and parade. The earls of Huntly, Arran, Marifchal, and Montrole, with the lords Fleming, Lindsey, Erskine, and Seton, honoured him with their attendance; and there appeared in his train, Gavin archbishop of Glasgow and lord high chancellor, four bishops, fix abbots, many private gentlemen, and a vast multitude of the inferior clergy. In the cathedral church of St Andrew's, from a throne erected by his command, he harangued concerning the state of religion and the church, to this company, and to a crowd of other auditors. He lamented the increase of heretics; he infifted on their audacity and contempt of order; he faid, that even in the court of the fovereign too much attention was shown to them; and he urged the firong necessity of acting against them with the greatest rigour. He informed this affembly, that Sir John he had cited Sir John Borthwick to appear before it, Borthwick for maintaining tenets of faith hostile to the church, and impeached. for dispersing heretical books; and he defired that he might be affifted in bringing him to justice. The articles of accusation (P) were accordingly read against him; but he neither appeared in his own person, nor by any agent or deputy. He was found guilty; and the cardinal, with a folemnity calculated to strike with awe and terror, pronounced fentence against him. His goods and eftate were conficated; and a painted repretentation of him was burned publicly, in testimony of the malediction of the church, and as a memorial of his obstinacy and condemnation. It was ordained, that in the event of his being apprehended, he should suffer as a heretic, without hope of grace or mercy. All Chriflians, whether men or women, and of whatever degree or condition, were prohibited from affording him any harbour or fustenance. It was declared, that every of-

1. "That he held the pope to have no greater authority over Christians than any other bishop or prelate had. 2. "That indulgences and pardons granted by the pope were of no force nor effect, but deviled to abuse people, and deceive poor ignorant fouls.

3. " That bishops, priests, and other clergymen, may lawfully marry.

5. " That the people of Scotland are blinded by their clergy, and professed not the true faith,

6. " That churchmen ought not to enjoy temporalities.

7. " That the king ought to convert the rents of the church into other pious uses.

8. " That the church of Scotland ought to be governed after the manner of the English.

10. "That the orders of the friars and monks should be abolished, as had been done in England.

11. " That he did openly call the pope fimoniac, for that he fold spiritual things.

<sup>(</sup>F) They are preferved by Archbishop Spotiswood, and display great liberality of mind, in a period when philosophy may be faid to have been almost unknown in Scotland. They are thus detailed by this judicious writer.

<sup>4. &</sup>quot;That the herefies, commonly called herefies of England, and their new liturgy, were commendable, and to be embraced of all Christians.

<sup>9. &</sup>quot;That the canons and decrees of the church were of no force, as being contrary to the law of God-

<sup>12. &</sup>quot;That he did read heretical books, and the New Toftament in English, and some other treatises written by Melancthon, Oecolampadius, and Erafmus, which he gave likewife unto others.

<sup>13. &</sup>quot;The last and greatest point was, that he refused to acknowledge the authority of the Roman see, or be Subject thereunto." Hift. of the Church, p. 70.

Scotiand, fice of humanity, comfort, and folacement, extended to him, thould be confidered as criminal, and be punished

with confifcation and forfeitures. 467 He files in-

to Eng-

land.

Sir John Borthwick having been apprifed of his danger, fled into England, where he was kindly received by Henry VIII. who employed him in negociations with the Proteslant princes of Germany. Cardinal Beaton perceived with concern that this act of severity did not terrify the people. New defections from the church were announced to him. Andrew Cunningham fon to the master of Glencairn, James Hamilton brother to Patrick Hamilton the martyr, and the celebrated George Buchanan the historian, were imprisoned upon fuspicion of herely; and if they had not found means to escape, would probably have perished at the stake. In this declining condition of Popery, the cardinal held many mournful confultations with the bishops. All their intrigues and wisdom were employed to devise methods to support themselves. The project of an inquisitorial court was conceived, and afforded a distant view of the extirpation of heretics. To erect this tribunal, they allured James V. with the hopes of the confication and spoils, which might enrich him, from the perfecution and punishment of the reformed. He yielded to their folicitations, and gave them the fanction of his authurity.

468 Sir James Hamilton appointed a kind of inquifitor.

469

Projects

brother.

A formal commission was granted, constituting a court of inquiry after heretics, and nominating for its prefident Sir James Hamilton of Fennard, natural brother to the earl of Arran. The officious affiduity of this man, his ambition, and his thirst of blood, were in a high degree acceptable to the clergy; and to this eminence their recommendation had promoted him. Upon the flightest fuspicion he was allowed to call any person before him, to serutinize his creed, and to absolve or to condemn him. A tribunal fo dreadful could not have found a director more suited to it. He was in haste to fill the prisons of the kingdom with culprits, and was taking down in lifts the names of all those to whom herefy was imputed by popular report, and whom the arts of malicious men had represented as the objects of correction and punishment. But, while he was brooding over mischief, and multiplying in fancy the triumphs of his wickedness, an unexpected turn of affairs presented Hamilton himself in the light of a criminal, and conducted him to the fcaffold.

The brother of Mr Hamilton the martyr, to avoid persecution, had been obliged to go into banishment; the ruin of but, by the intercession of his friends, he was permit-Hamilton's ted to return for a (hort time to his own country, that he might regulate the affairs of his family. He was connected with Sir James Hamilton; and, trufting to the ties of blood, ventured to prolong his stay beyond the period allowed him. This trefpaís was trivial. Sir James Hamilton, being willing to give a fignal example of feverity, and by this means to ingratiate himself the more with the priesthood, took the refolution of making his own relation the victim of his power. Mr Hamilton, attentive to his personal security, and not unacquainted with the most private machinations of this inquifitor, dispatched his fon to the king, who was about to pass the Forth in a barge, and intreated him to provide for his fafety, as Sir James Hamilton had conspired with the house of Douglas to affaffinate him. James V. being at variance

with the house of Douglas, had reasons of suspicion, Sc tland. and was disposed to believe every thing that is most flagitious of Sir James Hamilton. He inttructed the young gentleman to go with expedition to Edinburgh. and to open the matter to the privy-council: and that he might be treated with the greater respect, he furnished him with the ring which he was accustomed to fend to them on those important occasions which required their address and activity. Sir James Hamilton was apprehended and impriloned. An accufation of having devised and attempted the king's death at different times was preferred against him. His defence appeared to be weak and unfatisfactory. A jury, which consisted of men of rank and character, pronounced him guilty; and, being condemned to suffer the death Condemnof a traitor, he loft his head, and the quarters of hised and exebody were exposed upon the gates of the city of Edin cuted. burgh. The clergy, who could not prevent his trial and execution, regretted his death, but dir! not think of appointing a fuccessor to him in their court of inquisi-

In other respects, however, James showed great concern for the welfare of his people. Being diffatisfied with the ordinary administration of justice, he had recourse to the parliament of Paris for a model of the like intlitution in Scotland. Great objections lay against juries in civil matters, and to ambulatory courts of juthice. The authority of the heritable jurisdictions was almost exclusive of all law; for though the king might James reprefide in them, yet he feldom did fo; and appeals be-gulates the fore the council were disagreeable and expensive. The courts of institution of the lords of articles threw too much weight justice. into their scale, as no business could be transacted in parliament but what they allowed or permitted; and it was always in the power of the king to direct them as he pleased. The true source of the public grievances, in matters of property, lay in the difregard shown to the excellent acts which had past during the reigns of the first three James's, and which had not been sufficiently supported in the late reigns. The evil had gathered strength during the minority of James V.; and he refolved to establish a standing jury for all matters of law and equity (for, properly fpeaking, the court of feffion in Scotland is no more), with a prefident, who was to be the mouth of the affembly. On the 13th of May, An. 1532 1532, as we find by a curious manuscript in the British museum, the lords of the articles laid before the parlia-Origin of ment the proposition for instituting this court, in the fol-the court lowing words: " Item, anent (concerning) the fecond artickel concerning the order of justice; because our sovereign lord is maill defirous to have an permanent order of jultice for the universal of all his lieges; and therefore tendis to inflitute an college of cunning and wife men

for doing and administration of justice in all civil actions : and therefore thinke to be chosen certain persons maift convenient and qualified yair (there), to the number of fifteen persons, half spiritual, half temporal, with an prefident."

In the year 1533, hostilities were recommenced with An. 1533. England; but after some slight incursions on both sides, a truce again took place. The most remarkable trans- Negociaactions of this period, however, next to the religious the king's persecutions already mentioned, were the negociations marriage. for the king's marriage. Indeed, there is fearcely any monarch mentioned in hiflory who feems to have had a

he is accufed of trea-

Offers of

many,

Scotland, greater variety of choice, or whom it was more difficult to please. The fituation of affairs on the continent of Europe, had rendered Scotland a kingdom of great confequence, as holding the balance between France, England, and the empire of Germany; and each of the empe-

which are James.

the rival powers endeavoured to gain the favour of An. 1534. James, by giving him a wife. - In 1534, King Francis offered him his daughter; and the match was strongly recommended by the duke of Albany, who was still living in France, and ferved James with great fidelity. The same year the Imperial ambassador arrived in Scotland, and prefented, in the name of his master, the order of the Golden Fleece to James, who had already been invested with that of St Michael by Francis. At the fame time, he offered him his choice of three princesses; Mary of Austria, the emperor's sister, and widow of Lewis king of Hungary; Mary of Portugal, the daughter of his fifter Eleonora of Austria; or Mary of England, the daughter of Catharine and Henry. Another condition, however, was annexed to this propofal, viz. that, to suppress the herefies of the time, a council should be held for obviating the calamities which threatened the Christian religion. These propofals would have met with a more ready acceptance from James, had not his clergy, at this time, been difgusted with Charles, for allowing too great a latitude to the Protestants of Germany. James, in his answer, returned the emperor his acknowledgments in the most polite terms, for the splendid alliances he had offered. He mentioned the proposal of the council as being a measure rather to be wished for than expected; because it ought to be free and holy, and upon the model of the first councils; its members confisting of the most charitable, quiet, and difinterested part of the clergy. He faid, that if fuch a council could be obtained, he would willingly fend ecclefiaftics to it; but if not, that every prince ought to reform the errors of doctrine, and the faults of the clergy, within his own dominions. He bewailed the obstinate conduct of his uncle in his divorce and marriage; and offered his best offices for effecting a reconciliation between him and the emperor, withing that all the princes of Christendom would unite their arms against their common enemy the Turks. He hinted, very justly, that his Imperial majesty had offered more than he could perform; because his coufin. Mary of England, was not at his disposal. The ambaffador replied, that his mafter, if perfuasion failed, would compel Henry by force of arms to refign her. James answered this ridiculous declaration by observing, that the emperor then would be guilty of a breach of all laws both divine and human; that it would be impolitic to give a preference to any of the three princeffes, all of them being fo illustrious and deferving; but, to thow how much he valued an alliance with his Imperial majefty, he would become a fuppliant to that prince for his niece, daughter to Christiern king of Denmark, to become his bride. The ambaffador's anfwer to this unexpected request was, that she was already betrothed to the count palatine, and that before that time the marriage was probably completed. But whether the Imperial ambaffador had any right to

offer the English princess or not, it is agreed by most hiftorians, that James was offered either Mary or Elizabeth by their father Henry himfelf. To Mary of Bourbon, the daughter of the duke of Vendofine, he is faid to

have been contracted; but for some reason all these Scotlandmatches were broken off; and the king at last went to France, where he married Magdalen the eldest daugh- He marries ter of Francis. The nuptials were celebrated at Paris the king of in the year 1537, with great magnificence; and among France's other things ferved up by way of desfert at the marriage daughter, feast, were a number of covered cups filled with pieces An. 1537of gold and gold dust, the native produce of Scotland, which James distributed among the guests. This gold was found in the mines of Crawford-moor, which were then worked by the Germans. In the beginning of May, the royal pair embarked for Leith, under convoy of four large thips of war, and landed on the 28th of the fame month. The joy of the Scots was inex-who dies preffible, but it was of thort continuance; for the foon after. young queen died of a fever on the 22d of July the same

year. King James did not long remain a widower; for the fame year he fent Beaton abbot of Arbroath, to negociate his second marriage with a French lady, Mary of James ri-Guife, duchefs-dowager of Longueville. In this he willed by was rivalled by his uncle Henry VIII. but not before his uncle James had been contracted to her. But this was no in a fecond thing to Henry; for he not only infifted on having this marriage. lady for his wife, but threw out fome menaces against An. 1538. Francis, because he would not comply with this unjustifiable request. In January 1538, she was married to James, and escorted to Scotland by the admiral of France with a confiderable fquadron; as both James and Francis were suspicious that Henry would make fome attempt to intercept the royal bride. But nothing of this kind happened, and she landed safely at Fifeness; whence she was conducted to the king at St

Andrew's. But while James appeared thus to be giving himfelf Cruel exeup to the pleasures of love, he was in other respects ution of showing himself a bloody tyrant. Some differences sub-the heir of the house fifted between the families of Gordon and Forbes in the of Forbes north. The heir of the house last mentioned had been

educated in a loofe diffipated manner, and affociated with a worthless fellow named Strahan. Having refufed this favourite fomething he had asked, the latter attached himself to Gordon earl of Huntly, who, it is faid, affifted him in forming a charge of treason against Forbes. He was accused of intending to restore the Douglases to their forseited estates and honours; which improbable flory being supported by some venal evidences, the unhappy young man was condemned and executed as a traitor. The king could not but fee the injustice of this execution; and, in order to make some compensation for it, banished Strahan. The following execution, which happened a few days after, was much more inhuman, infomuch that it would have flained the annals even of the most despotic tyrant. The earl of Angus, finding that he could not regain the favour of the king, had recourse to the method usual in those days, viz. the committing of depredations on the borders. This crime was fufficient with James to occasion and of the the death of his innocent fifter, the dowager-lady of dowager Glammis. She had been addressed by one Lyon, whom addy of the had rejected in favour of a gentleman of the name of Campbell. Lyon, exasperated at this repulse, sound

means of admittance to James, whom he filled with the

greatest terrors on account of the practices of the family

of Angus; and at last charged the lady, her husband,

Death of

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483 The king

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Septeand, and an old pricft, with a design of poisoning the king in order to restore Angus. The parties were all remarkable for their quiet and innocent lives; but even this circumstance was by their diabolical accuser turned to their prejudice, by representing it as the effect of cunning or caution. In this reign an accufation of treason was always followed by condemnation. The evidence against the lady, however, appeared so abfurd and contradictory, that fome of the judges were for dropping the profecution, and others for recommending her cafe to the king : but the majority prevailed to have it determined by a jury, who brought her in guilty; and she was condemned to be burnt alive on the Castle-hill of Edinburgh. The defence made by her would have done honour to the ablest orator, and undeniably proved her innocence; but though it was reported to James, it was fo far from mitigating her sentence, that it was aggravated by her hufband being obliged to behold her execution. The unhappy hufband himfelf endeavoured to make his way over the castle wall of Edinburgh; but the rope proving too fhort, he was dashed in pieces: and Lord Glammis her fon, though but a child, was imprisoned during the remainder of this reign. The old prieft, though put to the torture, confessed nothing, and was freed. Lyon, like the other accuser already men-

tioned, was banished. Whether these and other cruelties had affected the feized with king's conscience, or whether his brain had been deranged by the diffractions of the different parties, is undistraction. known; but it is certain, that, in the year 1540, he An. 1540. began to live retired : his palace appeared like the cloiflered retreat of monks; his fleep was haunted by the most frightful dreams, which he construed into apparitions; and the body of Sir James Hamilton, whose execution has already been mentioned, feemed continually presented to his eyes. Perhaps the loss of his two sons, who died on the fame day that Sir James was executed. might have contributed to bring this man more remarkably to his remembrance. No doubt, it added to the gloom of his mind; and he now faw his court abandon-

ed by almost all his nobility.

At last James was in some degree roused from his incommence action, by the preparations made against him by his uncle Henry VIII. of England. Some differences had already taken place; to accommodate which, Henry had defired a conference with James at York, But this the latter, by the advice of his parliament, had declined. The confequence was a rupture between the two courts, and the English had taken 20 of the Scots trading vesfels. Henry threatened to revive the antiquated claim of the English superiority over Scotland, and had given orders for a formidable invalion of the Scotch borders. He complained that James had usurped his title of Defender of the Faith, to which he had added the word Christian, implying that Henry was an infidel : but the kings of Scotland had, fome time before, been complimented by the papal fee with that title. James, on the other hand, turned his attention towards Ireland, the north of which was peopled with inhabitants who owned no fovereign but the king of Scotland, and who offered to serve James against the English; some of their chiefs having actually repaired to Scotland, and done reignty or Ireland homage to James. Henry had, about this time, declar-claimed by ed himself king of Ireland, of which he was before both kings only ftyled the lord; and James fremuoufly afferted,

that he had a preferable claim to at least one half of that Scotivad. island, which had been peopled by the subjects of Scotland. Though the Scotch historians of this reign take very little notice of this incident, yet James appears to have been very tenacious of his title; and that there was a great intercourse carried on between the subjects of Scotland and the northern Irifh, who unanimously acknowledged James for their natural fovereign. Indeed, this was the only ground of quarrel that the king. with the leaft shadow of justice, could allege against Henry.

His parliament being met, many public spirited acts An act of were passed; and before the assembly was dissolved, indemnity the members renewed the acts against leasing-making; committed by which is meant the mifreprefenting of the king to his during the nobles, or the nobles to their king; and James, to dif-king's gatmifs them in good humour, passed an act of free grace nonly. for all crimes committed in his minority; the earl of Angus, and Sir George and Sir Archibald Douglas, be-

Henry, after cutting off the head of his wife Ca-

ing excepted.

tharine Howard, married and divorced the princess Anne of Cleves, and found himself either deserted or distrusted by all the princes on the consinent, Proteflant as well as Catholic. James and his clergy relied greatly on this public odium incurred by Henry; but the emperor having again quarrelled with Francis, left Henry, whose dominions they had threatened jointly to Preparainvade, at liberty to continue his preparations against tions of the Scots. Henry first ordered his fleet, then the most Henry. formidable of any in the world, to make freth descents upon Scotland. At the same time, he appointed a very confiderable army to rendezvous upon the borders, under the command of Sir Robert Bowes, one of his wardens, the earl of Angus, and his two brothers Sir George and Sir Archibald Douglas. James was every day expecting fupplies of money, arms, and other necessaries from Francis; but these not arriving, he reassembled his parliament on the 14th of March, which gratified him in all his demands. Many excellent regulations were made for the internal government, peace, and fecurity of the kingdom, and against the exportation of money instead of merchandise. Acts were passed for fortifying and embellishing the town of Edinburgh, and for better supplying the subjects with wine and all the other necessaries of life. The royal revenue was increased by many additional citates; and there was completed one of the best plans for a national militia that perhaps ever appeared. As yet, excepting in the difappointment which Henry met with from his nephew in not meeting him at York, he had no grounds for commencing hostilities. But it is here proper to observe, Death of that the queen-mother was then dead; and confequent-the purenly the connection between James and Henry was weak-mother. ened. Whatever her private character might be, the was certainly a happy indroment of preventing bloodthed between the two kingdoms. She was builed with

James, to all appearance, was at this time in a most defirable fituation. His domain, by forfeitures and otherwife, far exceeded that of any of his predecessors. He could command the purses of his clergy; he had large fums of ready money in his exchequer; his forts were well flored and fortified; and he was now daily receiving remittances of money, arms, and ammunition

roval honours at Perth.

485 The lovereignty of

Scotland. from France. All this happiness, however, was only apparent; for the affections of his nobility, and the James loses wifer part of his subjects, were now alienated from him the affecmore than ever, by his excessive attachment to bigotry rions of his and persecution.

An. 1542.

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He had nominated the earl of Huntly to command his army on the borders, confitting of 10,000 men; and his lieutenant-general was Sir Walter Lindfay of Torphichen, who had feen a great deal of foreign fervice, and was esteemed an excellent officer. Huntly acquitted himfelf admirably in his commission; and was fo well ferved by his fpies, as to have certain intelligence that the English in:ended to surprise and burn Jedburgh and Kelfo. The English army under Sir Robert Bowes and the Douglases, with other northern Englithmen, continued still on the borders; and one of the resolutions which the Scotch nobility and gentry had formed, was, not to attack them on their own ground, nor to act offenfively, unless their enemies invaded Scotland. Huntly being informed that the English had advanced, on the 24th of August, to a place called Haldanrig, and that they had destroyed great part of the Scotch and debateable lands, refolved to engage them: and the English were assonished, when at daybreak they faw the Scotch army drawn up in order of battle. Neither party could now retreat without fightlish defeating; and Torphichen, who led the van, confifting of 2000 of the best troops of Scotland, charged the English so furiously, that Huntly gained a complete and an eafy victory. Above 200 of the English were killed, and 600 taken prisoners; among whom were their general Sir Robert Bowes, Sir William Moubray, and about 60 of the most distinguished northern barons; the earl of Angus escaping by the swiftness of his horse. The lofs of the Scots was inconfiderable.

> In the mean time, the duke of Norfolk having raifed a great army, had orders to march northwards, and to distribute a manifesto, complaining of James for having disappointed Henry in the interview at York, and reviving the ridiculous claim of his own and his ancestors superiority over the kingdom of Scotland. It was plain, from the words of this manifesto, that Henry was still placable towards James; and that he would easily have dropt that claim, if his nephew would make any perfonal ad-

vances towards a reconciliation.

The condition of James was now deplorable. The few faithful counfellors whom he had about him, fuch as Kirkaldy of Grange, who was then lord treasurer, plainly intimated, that he could have no dependence on his nobles, as he was devoted to the clergy; and James, Diffraction fometimes, in a fit of diffraction, would draw his dagger on the cardinal and other ecclefiaftics when they came to him with fresh propositions of murder and proscriptions, and drive them out of his presence. But he had no constancy of mind; and he certainly put into his pocket a bloody fcroll that had been brought him by his priefts, beginning with the earl of Arran, the first subject of the kingdom. In one of his cooler moments, he appointed the lord Erskine, and some others of his nobility, to make a fresh attempt to gain time; and Henry even condescended to order the duke of Norfolk (who was then advanced as far as York), the lord privy seal, the bishop of Durham, and others, to treat with him. The conferences were thort and unfuccefsful. The duke bitterly complained, that the Scots fought only to amuse him till the season for ac- Scotiand. tion was over. In flort, he confidered both them and Learmouth, who was ordered to attend him, as fo many fpies, and treated them accordingly. It was the 21ft The duke of October before he entered the eaftern horders of Scot-ot Nortolk land. According to the Scotch historians, his army land with a confilled of 40,000 men; but the English have fixed it formidable

James affected to complain of this invafion as being unprovoked; but he lost no time in preparing to repel the danger. The fituation of his nobility, who were pressed by a foreign invasion on the one hand, and domettic tyrants on the other, induced them to hold frequent confultations; and in one of them, they refolved to renew the scene that had been acted at Lawder bridge under James III, by hanging all his grandfon's evil counsellors. The Scots historians fay, that this Confpiracy refolution was not executed, because the nobility could against not agree about the victims that were to be facrificed; James's faand that the king, who was encamped with his army at Falla-moor, having intelligence of their confultation, removed haftily to Edinburgh; from which he fent orders for his army to advance, and give battle to the duke of Norfolk, who appears not as yet to have entered the Scotch borders. The answer of the nobility was, that they were determined not to attack the duke on English ground; but that if he invaded Scotland, they knew their duty. The earl of Huntly, who cammanded the van of the Scottish army, confishing of 10,000 men, was of the fame opinion; but no fooner did Norfolk pass the Tweed, than he haraffed the English army, cut off their foraging parties, and diffreiled them in fuch a manner, that the duke agreed once more to a conference for peace; which was mana-The Engged, on the part of the Scots, by the bishop of Ork. hish obliged ney and Sir James Learmouth; but nothing was con-to retreat. cluded. The English general, finding it now impossible on many accounts to profecute his invalion, repalled the Tweed; and was haraffed in his march by the earl of Huntly, who defifted from the purfuit the moment his enemies gained English ground.

James, whose army at this time amounted to above The Scots 30,000 men, continued still at Edinburgh, from which refuse to he fent frequent messages to order his nobility and ge-pursue. nerals to follow the duke of Norfolk into England; but these were disregarded. James was flattered, that now he had it in his power to be revenged for all the indignities that had been offered by England to Scotland. In this he was encouraged by the French ambaffador, and the high opinion he had of his own troops. About the beginning of November, he came to a resolution of reassembling his army, which was disbanded after the duke of Norfolk's retreat. This project appeared fo plaufible and fo promifing that feveral of the nobility are faid to have agreed to it, particularly the lord Maxwell, the earls of Arran, Cassilis, and Glencairn, with the lords Fleming, Somerville, and Erskine: others represented, but in vain, that the arms of Scotland had already gained fufficient honour, by obliging the powerful army of the English, with their most experienced general at their head, to make a shameful retreat before a handful; that the force of Scoland was inferior to that of England; and that an honourable peace was still practicable. It was faid, in reply to those confiderations, that the slate of the quar-

of James.

Sertland, rel was now greatly altered; that Flenry had in his

vi rages and towns in other; and that no Scotchnan, But a lift confent to man of great honour and courage, to agree to carry the war into E of and by S way, previded he were at the earl of Arran and the car inal flould openly raife men. as if they intended to enter the ellern marches, where well was to make the real attempt upon the welt. Priwho were to ferve under the lord Maxwell; among whom were the earls of Cashilis and Glencairn, the lords Fleming, Somerville, Erskine, and many other persons of great importance. James, who never was suspected of puflianimity, would probably have put himfelf at the head of this expedition, had he not been diffuaded from it by his priests and minions, who reminded him of the consultations at Fulamoor, and the other treasonable practices of the nobility. They added, that most of them being corrupted by English gold, he could not be too much on his guard. He was at last persuaded to repair to the castle of Lochma'en or Carlaverock, and there to wait the iffue of

497 Lor Niaxthe command by €.air.

England.

It was probably at this place that James was prewell i per- vailed on to come to the fatal refolution of appointing On the 23d of November, the Scots beg n their march at nid ight; and having possed the Ea, all the adjacent villages were seen in slames by the ore k of day. Sir Thomas Wharton, the English warden of those marches, the baftard Dacres, and Mulgrave, haftily raiand drew them up on an alvantageous ground; when being mounted on the shoulders of two tall men, produced and read his commission. It is impossible to imagine the condernation into which the Scots were thrown on this occasion; and their leaders fetting the example, the whole army declared according to the Scotch authors), that they would rather furrender commanded by fuch a reneral. In an inflant, all order fo dies and fee llions, to ble nen and plaints, were intermingled. It wis easy for the English general to perceive this confusion, and perhaps to gue's at its however, no more than 800 common foldiers having been South d.

James was then at Carlaverock, which is about 12 miles dittant from the place of action, depressed in las earl of Arran and the cardinal were returned to Edinburgh, he was feized with an additional dei cli n of ! mind, which brought him to his grave. In such a situmind, which prought him to his grave. In their a tea his confeience; and he at last tunk into a tulen me'en-1/42. choly, which admitted of no confolation. From C. laverock he removed to Falkland; and was fometimes heard to express himself as it he th ught that the whole body of the nobility were in a conspiracy against his person and dignity. The presence of the sew attendants who were admitted into his chamber, and who were the wicked inflruments of his misconduct, seemed to aggravate his fufferings, and he either could not or would not take any fitten nce. His death being now inevitable, Beaton approached his bed-fide with a paper, to which he is faid to have directed the king's a melienger came from Linlithgow, with an account will end as it begin; the crown came by a lais, and it will go by a lais." He then turned his face to the difference he fuffered. In this state he languished for some days; for it is certain he did not farrive

James V. w. s succeeded by his infant daughter Mary, Is 60 c.cd. whose birth we have already mentioned. James had ed by Mataken no steps for the fecurity of his kingdom, so that 1). ambitious men had now another opportunity of throwing the public aff-irs into confusion. The situation of Scotland indeed at this time was very critical. Many it is of the nobility were priloners in England, and those who fire attention remained at home were factious and turbulent. The nation was diffirited by an unfaccefsful war. Calemory VIII. had formed a defign of adding Scotland to his other dominions. By a tellamentary deed, which Carhe was appointed tutor to the queen and governor of the realm, a d three of the p in ipal noblity were The number and the ceople, however, calling in question they in led . Le entitled to this diffinction, as the fe-

ben sidered with vigour o mind and at his. Put

Protland. his views were circumferibed; and he did not compenfate not this defect by any firmness of purpole. His characturas too indolent to gain partizans, and too irrefolute to fix them. Slight difficulties filled him with emberraffment, and great ones overpowered him. enemies, applying themselves to the timidity of his difposition, betrayed him into weaknesses; and the esteem which his gentleness had procured him in private life, which was feeble, thefteating, and inconfittent.

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The attachment which the regent was known to profess for the reformed religion, procured him the love of the people; his high birth, and the mildness of his virtues, conciliated their respect; and from the circumment to the stance, that his name was at the head of the roll of heretics which the clergy had prefented to the late king, a fentiment of tendernels was mingled with his popularitv. His conduct at first corresponded with the impressions entertained in his favour. Thomas Guillame and John Rough, two celebrated preachers, were invited to live in his house; and he permitted them to deelaim openly aganit the errors of the church of Rome. They attacked and exposed the supremacy of the pope. the worthip of images, and the invocation of faints. Cardinal Beaton and the prelates were exceedingly provoked, and indefatigably active in defence of the effa-

This public fanction afforded to the reformation was of little confequence, however, when compared with a measure which was foon after adopted by Robert Lord Maxwell. He proposed, that the liberty of reading the foriptures in the valgar tongue should be permitted to the people; and that, for the future, no heretical guilt should be imputed to any person for having them in his possession, or for making use of them. The regent and the three effates acknowledged the propriety of this propofal. Gavin Dunbar arehbishop of Glasgow, and chancellor of Scotland, protefted, indeed, for himfelf and for the church, that no act on this subject should pass and be effectual, till a provincial council of all the clergy of the kingdom should consider and determine, whether there was a necessity that the people should consult and fludy the feriptures in the vulgar tongue. But his protestation being difregarded, the bill of the lord Maxwell was carried into a law, and the regent made it generally

From this period copies of the Bible were imported in great numbers from England; and men, allured by an appeal fo flattering to their reason, were proud to recover from the fup ne ignorance in which they had been kept by an artful priefthood. To read became a common accom lithment : and books were multiplied in every quarter, which disclosed the pride, the tyranny, and the abfurdities of the Romish church and

The death of James V proved very favourable to Flenry VIII. propotes to the ambitious defigns of Henry. He now propoted unite the an wion of the two kingdoms by the marriage of his fon Edwar VI. with Mary the young queen of Scotby the market Laure. VI. With M. ry the young queen of Scot-riage of Ed. Laure. To promote this, he released the noblemen who ward VI had been token priloners at Silvay, after having enwith Mary gaged them on oath, not only to concer in promoting the alliance, but to endeavour to procure him the charge and cuffedy of the young quen, with the government of her kingdom, and the possession of her castles. The

earl of Angus and his brother, who had been fifteen Souland. years in exile, accompanied them to Scotland, and brought letters from Henry recommending them to the restitution of their honours and estates. The regent was inclined to favour the demands of perfons of fuch eminent flation; but shough the flates were inclined to the marriage, they refused to permit the removal of the queen into England, and treated with contempt the idea of giving the government of Scotland and the eare of the castles to the king of England. Sir Ralph Sadler, the English ambailador, excrted all his endeavours to induce the regent to comply with the requifitions of his matter; but all his intrigues were unfuccefsful; and Henry perceiving that he must depart from such extra- He departs vagant conditions, at last authorised the commissioners of his proto confent to treaties of amity and marriage, on the pofals. most favourable terms that could be procured. fequence of these powers given to the commissioners, it was agreed that a firm peace and alliance should take place between the two nations, and that they flould mutually defend and protect each other in case of an invalion. The queen was to remain within her own dominions till the was ten years of age; and Henry was not to claim any share in the government. Six nobles, or their apparent heirs, were to be furrendered to him in fecurity for the conveyance of the young queen into England, and for her marriage with Prince Edward, as foon as the was ten years of age. It was also stipulated, that though the queen should have iffue by Edward, Scotland should retain not only its name, but its laws and liberties.

These conditions, however advantageous to Scotland, The recent did not give entire fatisfaction. Cardinal Beaton, who opposed by had been imprisoned on pretence of treasonable schemes, Cardinal and was now released from his confinement by the in-Beaton, fluence of the queen dowager, took all opportunities of exclaiming against the alliance, as tending to destroy the independence of the kingdom. He rointed out to the churchmen the dangers which arose from the prevalence of herefy, and urged them to unanimity and zeal. Awakening all their fears and felfithness, they granted him a large fum of money with which he might gain partizons; the fri rs were directed to greach against the treaties with England; and fanatics were inftructed to display their rage in offering indignities to Sir Ralph

Sadler.

Cardinal Beaton was not the only antagonift with and by fe-whom the regent had to deal. The earls of Argyle, veral puble-Huntly, Bothwel, and Murray, concurred in the opposi-men; tion; and having collected fome troops, and poffessed themselves of the queen's person, they assumed all the authority. They were joined by the earl of Lenox, who was led to hope that he might espouse the queen-dowager and obtain the regency. He was also inclined to copose the earl of Arran, from an ancient quarrel which had fubfifted between their two families; and from a claim which he had to superfede him, not only in the enjoyment of his personal estates, but in the succession to the crown. The regent, alarmed at fuch a powerful combination against him, inclined to attend to some advances which were made him by the queen-dowager and cardinal. To refuse to confirm the treaties, after he had brought them to a conclusion, was, however, a flep fo repugnant to probity, that he could not be prevailed on to adopt it. He therefore, in a folemn man-

The people permitted to read the feriptures

but confirms the treaties of amity and marriage

with England. 511 He abandons the tereft, and

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Henry's

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Scotland, ner, ratified them in the abbey church of Holyroodhouse, and commanded the great feel of Scotland to be affixed to them. The fame day he went to St Andrew's, and iffued a mandate to the cardinal, requiring him to return to his allegiance. To this the prelate refused to pay any attention, or to move from his cattle; on which the regent denounced him as a rebel, and threatened to compel him to submittion by military force. But in a few days after, the pufillanimous regent meeting with Beaton, forlook the interest of Henry VIII. and embraced that of the queen dowager and of France. Being English in- in haste also to reconcile himself to the church of Rome. he renounced publicly, at Stirling, the opinions of the the Protef- reformed, and received absolution from the hands of the tant teli- cardinal.

By this mean-spirited conduct the regent exposed himself to universal contempt, while Cardinal Beaton usurped the whole authority. The earl of Lenox, finding that he had no hopes of fuccess in his suit to the queen-dowager, engaged in negociations with Henry, to place himself at the head of the Scottish lords who were in the English interest, and to affert the cause of the reformation. The confequence of all this was a violent pro-rupture with England. Henry not only delayed to ratify the treaties on his part, but ordered all the Scottish ships in the harbours of England to be taken and conficated. This violent proceeding inflamed the national difgusts against the English alliance; and the party of the cerdinal and queen-downger thus obtained an increase of popularity. Henry himself, however, was fo much accultomed to acts of outrage and violence, that he feemed to think the ften he had just now taken a matter of no moment; and therefore he demanded that the hostages, in terms of the treaty of marriage, should still be delivered up to him. But the cardinal and regent informed his ambaffador, Sir Ralph Sadler, that from their own authority they could not command any of the nobles to be committed to him as hostages; and that the offensive strain of behaviour affumed by the English monarch might have altered the fentiments of the Scottish parliament with regard to a The negomeasure of such importance. After much altercation. the conferences were broken off; and as the lords who broken off. were releafed from captivity had promifed to return prifoners to England, it now remained with them to fulfil their engagements. None of them, however, had the courage to do fo, except the earl of Cashilis; and Henry, being flruck with his punctilious fense of honour, dismissed him loaded with presents. Cardinal Beaton being thus in possession of power,

took measures to secure it. The solemnity of the co-

the kingdom; and Cardinal Beston, upon the request of the regent and the three effates, accepted the office of

514 The queen growned.

ronation of the young queen was celebrated at Stirling. A council was chosen to direct and affirt the regent in the greater affairs of flate, and at the head of this was the queen-dowager. John Hamilton, the abbot of Paisley, who had acquired an afcendancy over the regent, was also promoted to the privy feal, and made treasurer of

Enmity be-After the flatteries and the hopes with which the tween Car- earl of Lenox had been amused, the cardinal had reaton and the fon to dread the utmost warmth of his refentment. He earl of Le- had therefore written to Francis I. giving a detail of the critical fituation of affairs in Scotland, and intreat-

ing him to recal to France the earl of Lenox, who was Scotland now interested to oppose the influence and operations of the queen-dowager. But the indignation with which the treachery of the cardinal had inflamed the earl of Lenox, precipitated him into immediate action, and de-Hoffstities feated the intention of this artifice. In the hoftile committed fituation of his mind towards Scotland, an opportunity of by the latcommencing hotilities had prefented ittelf. Five thing ter. had arrived in the Clyde from France, loaded with warlike flores, and having on board the patriarch of Venice, Peter Contareni, legate from Paul III. with La Broffe and James Melhaige, ambaffadors from France; and 30,000 crowns, which were to be employed in firengthening the French faction, and to be diffributed by the queen-dowager and the cardinal. Prevailing with the comm inders of these vessels, who conceived him to be the firm friend of their monarch, he fecured this money for his own use, and deposited the military stores in his caille of Dumbarton, under the care of George Stirling the deputy-governor, who at that time was entirely in

of Lenox called forth the full exertion of his party in levying a formidable army, with which he threatened the destruction of the regent and the cardinal, offering them battle in the fields between Leith and Edinburgh. The regent, not being in a condition to accept the Lenox furdinal Beaton and the earl of Huntly proposed terms to be amuof amity, and exerted themselves with so much address, sed by his that the earl of Lenox, losing the opportunity of chaftifing his enemies, contented to an accommodation, and again indulged the hope of obtaining the queen-dowager in marriage. His army was difinified, and he three himself at the feet of his mittre's, by whom he was, in appearance, favourably received; but many of his friends were feduced from him under different pretences; and at last, apprehending his total ruin from some secret enterprife, he fled to Glasgow, and fortified him elf in that city. The regent, collecting an army, marched and is against him; and having defeated his friend the earl of obliged to Glencairn in a bloody encounter, was able to reduce ay. the place of ftrength in which he confided. In this ebb of his fortune, the earl of Lenox had no hope but from England. The revolution produced in the political flate of Scot-

land by the arts of Cardinal Beaton, while it defeated the intrigues of Henry VIII. pointed all its ffrength against the progress of the reformation. After abandoncardinal, was ambitious to undo all the fervices he had rendered to them. The three estates annulled the trea- Alliance ties of antity and marriage, and empowered committioners with France to conclude an alliance with France. The regent dif-concluded, charged the two preachers Guillame and Rough, whom Protestants he had invited to impuga the doctrines of the church perfecuted. vance the new opinions. He carefled with particular respect the legate whom the rope had fent to discourage the marriage of the young queen with the prince of Water, and to promife his affidence against the enterprifes of Henry VIII. He procured an act of parliament to be passed for the persecution of heretics; and, on the foundation of this authority, the most rigorous 4 R 2

5 .......d. proceedings were concerted against the reformed; when the arms of England, roufing the apprehenfions of the nation, gave the fullest employment to the regent and

In the rage and anguish of disappointed ambition. the earl of Lenox made an offer to affirt the views of the English the king of England; who, treating him as an ally, engaged, in the event of fuccels, to give him in marriage his niece the lady Margaret Douglas, and to invest him with the regency of Scotland. To establish the reformation in Scotland, to acquire the superiority over it to Henry VIII, and to effectuate the marriage of the prince of Wales with the queen of Scots, were the great objects

of their confederacy.

Henry, though engaged in a war with France, which required all his military force, could not reful the carlieft An. 1544.

opportunity in his power to execute his vengeance against Scotland, Edward Seymour, earl of Hartford, was appointed to command 10,000 men; who were embarked at Tinmouth, on board a fleet of 200 ships, under the command of Sir John Dudley lord Lifle, This army was landed without opposition near Leith; and the earl of Hartford made it known to Sir Adam Otterburn, the provost of Edinburgh, that his commission empowered him to lay the country waste and desolate, unless the regent should deliver up the young queen to the king of England. It was answered, that every extremity of diffrels would be endured, before the Scottish nation would submit to so ignominious a demand. Six thousand horse from Berwick, under the Iord Evers, now joined the earl of Hartford. Leith and Edinburgh, after a feeble refultance, yielded to the English commander; who abandoned them to pillage, and then fet them on fire. A cruel devastation enfued in the furrounding villages and country, and an immenfe booty was conveyed on board the English fleet. But, while an extreme terror was everywhere excited, the earl of Hartford re-imbarked a part of his troops, and ordered the remainder to march with expedition to the frontiers

The regent, affifted by Cardinal Beaton and the earls of Huntly, Ar yle, Bothwell, and Murray, was active, in the mean time, to collect an army, and to provide for the security of the kingdom. He felt, therefore, the greatest surprise on being relieved so unexpectedly from the most imminent danger; and an expedition, conducted with fo little differnment, did not advance the measures of Henry VIII. To accomplish the marriage of the young queen with the prince of Wales, to poffcis himfelf of her person, or to achieve a conquelt over Scotland, were all circumflances apparently within the reach of the English commander: and yet, in the moment of victory, he neglected to profecute his of his m. fler, le't them to recover from their difafter,

The earl of Len x, taking the opport vity of the E. lish fle , went to confest with Henry VIII. on The street of the deficial fit of his affairs. He revewed his engarements with this monarch; and received in mardering and devailation. But George Stirling, to Scotland. whom the castle was intrusted, resuled to surrender it; and even obliged him to reimbark his troops. After engaging in a few petty incursions and skirmishes, he

returned to England. In this year, Henry confented to a truce; and Scot- A truce land, after having suffered the miseries of war, was sub-concluded jected to the horrors of perfecution. The regent had with Engprocured an act of parliament for the perfecution of land. the reformed; and the cardinal, to draw to himself an additional splendour and power, had obtained from the pope the dignity of legate à latere. A visitation of his own diocese appeared to him the most proper method of commencing the proposed extirpation of herefy; and he carried with him in his train the regent, and many persons of distinction, to affist in his judicatories, and to

thare in his differace. In the town of Perth many persons were accused and Many cruel condemned. The most trifling offences were regarded executions as atrocious crimes, and made the subjects of profecution on account and punishment. Robert Lamb was hanged for affirm- of religiouing that the invocation of faints had no merit to fave. William Anderson, James Reynold, and James Finlay-

fon, fuffered the same death, for having abused an image of St Francis, by putting horns upon his head. James Hunter, having affociated with them, was found equally guilty, and punished in the same manner. Helen Stirke, having refused, when in labour, to invoke the affillance of the Virgin, was drowned in a pool of water. Many of the burgeffes of Perth, being suspected of herely, were fent into banishment; and the lord Ruthven, the

provoft, was upon the fame account difmiffed from

The cardinal was firenuous in perfecuting herefy in Account of other parts of his diocefe. But the discontents and Mr George clamour attending the executions of men of inferior fia-Wifhart. tion were now loft in the fame of the martyrdom of George Withart; a person who, while he was respectable by his birth, was highly eminent from the opinion entertained of his capacity and endowments. The historians of the Protestant persuasion have spoken of this reformer in terms of the highest admiration. They extol his learning as extensive, infift on the extreme candour of his difposition, and ascribe to him the utmost purity of morals. But while the firain of their panegyric is exposed to suspicion from its excess, they have ventured to impute to him the spirit of prophecy; so that we must necessarily receive their eulogiums with fome abatement. It may be fufficient to affirm, that Mr Wishart was the most eminent preacher who had hitherto appeared in Scotland. His mind was certainly cultivated by reflection and fludy, and he was amply poffeffed of thote abilities and qualifications which awaken and agitate the passions of the people. His cefs; and his courage in encountering danger grew with his reputation. The day before he was apprehended, he faid to John Knox, who attended him, "I am weary of the world, fince I perceive that men are weary terrible death which awaited him. He was found in who reful he to deliver him to the fervants of the re-

required that he faculd be intro cd to his care, and

Who com-

Scotland, promifed that no injury should be done to him. But the authority of the regent and his counsellors obliged the earl to furrender his charge. He was conveyed to the cardinal's castle at St Andrew's, and his trial was conducted with precipitation. The cardinal and the clergy proceeding in it without the concurrence of the fecular power, adjudged him to be burnt alive. In the circumftances of his execution there appears a deliberate and most barbarous cruelty. When led out to the stake, he was met by priests, who, mocking his condition, called upon him to pray to the virgin, that she might intercede with her Son for mercy to him." Forbear to tempt me, my brethren," was his mild reply, A black coat of linen was put upon him by one executioner, and bags of gun-powder were failened to his body by another. Some pieces of ordnance were pointed to the place of execution. He spoke to the spectators, intreating them to remember that he was to die for the true gospel of Christ. Fire was communicated to the faggots. From a balcony in a tower of his castle, which was hung with tapestry, the cardinal and the prelates, reclining upon rich culhions, beheld the inhuman fcene. This infolent triumph, more than all his afflictions, affected the magnanimity of the fufferer. He exclaimed, that the enemy, who fo proudly folaced himfelf, would perish in a few days, and be exposed ignominiously in the place which he now occupied.

Cardinal Beaton took a pleasure in receiving the congratulations of the clergy upon a deed, which, it was thought, would fill the enemies of the church with terror. But the indignation of the people was more excited than their fears. All ranks of men were difguited at an exercise of power which despited every boundary of moderation and justice. The prediction Beaton af- of Mr Withart, fuggefied by the general odium which fafficated. attended the cardinal, was confidered by the disciples An. 1546. of this marter as the effusion of a prophet; and perhaps gave occasion to the affaffination that followed, Their complaints were attended to by Norman Lefly, the eldest fon of the earl of Rothes, whom the cardinal had treated with indignity, though he had profited by his fervices. He consented to be their leader. The cardinal was in the castle of St Andrew's, which he was fortifying after the strongest fashion of that age. The conspirators, at different times, early in the morning, entered it. The gates were fecured; and appointing a guard, that no intimation of their proceedings might be his domeflies, who amounted to not fewer than 50 perfons. The eldeft fon of the earl of Arrah, whom he kept as an hoftage for his father's behaviour, was alone detained by them. The prelate, alarmed with their noise, lo ked fr m lis window, and was informed that his castle we taken by Norman Lelly. It was in vain that he endeavoured to fecure the door of his chamber by bells and chefts. The combit this brought Withart. He fwore, that he was actuated by no liones Scotland of his riches, no dread of his power, and no hatred to his person, but that he was moved to accomplish his destruction, by the obstinacy and zeal manifested by him against Christ Jesus and his holy gospel. Waiting for no answer to his harangue, he thrust the cardinal three times through the body with his dagger, on the 20th of

The rumour that the castle was taken giving an alarm to the inhabitants of St Andrew's, they came in crowds to gratify their curiofity, and to offer their affillance, according to the fentiments they entertained. The adherents and dependents of the cardinal were clamorous to fee him; and the conspirators, carrying his dead body to the very place from which he had beheld the fufferings of Mr Withart, exposed it to their view.

The truce, in the mean time, which had been con-Treaty of cluded with England was frequently interrupted; but peace beno memorable battles were fought. Mutual depredative n E gtions kept alive the hostile spirit of the two kingdoms; hand, and while the regent was making military preparations, Scotland. which gave the promife of important events, a treaty of peace was concluded between England and France, in nation. In this treaty it was stipulated by Flenry, that he was not to wage war against Scotland, unless he

with applications to Henry for allittance; and being joined by more than 120 of their friends, they took themselves. Henry, netwithstanding his treaty with France, resolved to embrace this opportunity of augmenting the ditturbances of Scotland. He Lattened to collect troops; and the regent and his counfeilors preffed France for supplies in men, money, military stores, and artillers.

The high places which the cardinal occupied were Proceed. and George earl of Huntly was promoted to be chan erect the cellor. By thefe officers the regent was urged to proceed with vigour against the conspirators; and it was a matter of the greatest anxiety to him to recover his had, in the most folemn manner, pronounced them to paffed, excluding him from his birthright while he reand fability ing lis brothers in his place, according to

A powerful army left fixed to the call to the call the state of the st drew's and continued their of rations - s 'or and

Scotland, months; but no fuccess attended the affailants. The fortifications were strong; and a communication with the belieged was open by fea to the king of England. who supplied them with arms and provisions. The garriton received his pay, and the principal conspirators had penfions from him. In return for his generofly, they engaged to promote the marriage of his fon with the young queen; to advance the reformation; and to keep in cultody the eldest fon of the regent. Negociation fucceeded to hostility; and as the regent expected affirtance from France, and the conspirators had the prospect of support from an English army, both parties were difposed to gain time. A treaty was entered into, in which the regent engaged to procure from Rome an abfolution to the conspirators, and to obtain to them from the three estates an exemption from profecutions of every kind. On the part of the befieged, it was flipulated, that when these conditions should be fulfilled, the castle should be surrendered, and the regent's fon delivered up to him. In the mean time Henry VIII. died; and a few Henry VIII weeks after Francis I. also paid the debt of nature. But and Franthe former, before his death, had recommended the profecution of the Scottith war; and Henry II. the fucceffor of Francis, was eager to show his attention to the ancient ally of his nation. When the absolution arrived from Rome, the confpirators refused to confider it as valid; and an expression used by the pope, implying an abfurdity, furnished an apology for their conduct. They knew that the counfellors of Edward VI. were making

The favourers of the reformation, in the mean time. adopting the intolerant maxims of the Roman Catholics. were highly pleafed with the affaffination of Beaton; and many of them congratulated the conspirators on what they called their godly deed and enterprise. John Rough, who had formerly been chaplain to the regent, Toha Knox entered the calle and joined them. At this time also begins to John Knox began to diffinguish himself, both by his success in argument and the unbounded freedom of his difcourse; while the Roman clergy, everywhere deseated and ashamed, implored the assistance of the regent and his council, who affured them that the laws against he-

vigorous preparations to invade Scotland; they were

confident of their present ability to defend themselves;

and the advocates for the reformation encouraged them

retics should be rigidly put in execution.

with hopes and with flattery.

In the mean time the castle of St Andrew's being invefted by a fleet of 16 fail under Admiral Strozzi from France, was obliged to capitulate. Honourable conditions were granted to the conspirators; but after being conveyed to France, they were cruelly used, from the hatred entertained by the Catholics against the Protestants. Many were confined in prilons; and others, among whom, fays Dr Stuart, was John Knox, were fent to the galleys. The castle itself was nearly rased to the ground.

The same year (1547), Scotland was invaded by an English army under the duke of Somerset, who had been chosen protector of England during the minority of Edward VI. The defign of this invafien was to oblige the Scots to comply with the scheme of Henry VIII. and conclude a marriage between Edward and the young queen of Scotland, 'The English army confifte ! of 18,000 men; hefides which the protector had a deet of 60 fail, one half of which were thips of war,

and the others confifted of veffels laden with provisions Scatterd. and military flores. On the other hand, the regent opposed him with an army of 40,000 men. Before the commencement of hostilities, however, the duke of Somerfet addressed a letter or manifello to the government. in which he prefied the marriage with fuch powerful arguments, and to clearly showed the benefits which would refult from it to both nations, that the regent and his party, who were averse to peace, thought proper to fuppress it, and to circulate a report that the English had come to force away the queen, and to reduce the kingdom to a state of dependence on him. All hopes of an accommodation being thus removed, the English army advanced to give battle to the Scots. They found the latter posted in the most advantageous situation, around the villages of Musselburgh, Inveresk, and Monckton; fo that he could not force them to an action, at the same time that he found himself in danger of having his communication with his ships cut off, which would have totally deprived his army of the means of fubfiflence. In this dangerous fituation he had again recourse to negociation, and offered terms still more fa-vourable than before. He now declared himself ready to retire into England, and to make ample compenfation for the injuries committed by his army, if the Scottish government would promise that the queen should not be contracted to a foreign prince, but should be kept at home till the was of age to choose a husband for herfelf, with the confent of the nobility. These concessions increased the confidence of the regent fo much, that, without taking advantage of the firength of his fituation, he resolved to come to a general engagement.— 535.

The protector moved towards Pinkey, a gentleman's Bartle of house to the eastward of Musselburgh; and the regent Pinkey, conceiving that he meant to take refuge in his fleet, left 10th 1547the flrong position in which he was encamped. He commanded his army to pass the river Esk, and to approach the English forces, which were posted on the middle of Faide-hill. The earl of Angus led the van : the main body marched under the regent; and the earl of Huntly commanded in the rear. It was the regent's intention to feize the top of the hill. The lord Gray, to defeat this purpole, charged the earl of Angus, at the head of the English cavalry. They were received on the points of the Scottish spears, which were longer than the lances of the English horsemen, and put to flight. The earl of Warwick, more successful with his body of in antry, advanced to the attack. The ordnance from the fleet affifted his operations; and a brifk fire from the English artillery, which was planted on a rifing ground, contributed flill more to intimidate the Scottish soldiery .- The remaining troops under the protector were moving flowly, and in the best order, to share in the engagement. The earl of Angus was not well supported by the regent and the earl of Huntly. A panic spread through the Scottish army. It fled in different directions, prefenting a fcene of the greatest havock and confusion. Few perished in the fight; but the pursuit continuing in one direction to Edinburgh, and in another to Dalkeith, with the utmost fury, a prodigious flaughter enfued. The lofs of the conquerors The Scots did not amount to 500 men; but 10,000 foldiers perith-defeated ed on the fide of the vanquished. A multitude of pri-with great foners were taken; and among these the earl of Huntly, flaughter. the lord high chancellor. Amidft

An. 1547.

Death of

difti. gu'fh himfelf.

Caftle of St Andrew's taken.

Scotland invaded by the English.

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An idst the consternation of this decisive victory, the duke of Somerfet had a full opportunity of effecting the marriage and union projected by Henry VIII. and on the fubject of which fuch anxiety was entertained by the English nation. But the cabals of his enemies threatening his destruction at home, he yielded to the necessities of his private ambition, and marched back into England. He took precuttions, however, to fecure an entry into Scotland, both by fea and land. A Duke of Somerfet. return to garrifon of 200 men was placed in the ifle of St Colum-England. I a in the Forth, and two thips of war were left as a further guard. A garrifon was also stationed in the castle of Broughty, fituated in the mouth of the Tay. When he passed through the Merie and Teviotdale, the leading men of thele counties repaired to him; and taking an oath of allegiance to King Edward, furrendered their places of firength. Some of these he demolished, and to others he added new fortifications. Hume caffle was garrifoned with 200 men, and intriffed to Sir Edward

The only refource of the regent now was the hope of affiltance from France. The young queen was lodged in the calle of Dumbarton, under the care of the lords Erskine and Livingstone; and ambassadors were fent to Henry II. of France, acquainting him with the difafter at Pinkey, and imploying his affiltance. The regent had fought permittion from the protector to treat of peace, and the earl of War vick was appointed to wait Au. 1548. for them at Berwick; but none were ever fent on the part of Scotland. It was not long, therefore, before hostilities recommenced by the English. Lord Gray led an army into Scotland, fortified the town of Haddington, took the castles of Yester and Dalkeith, and laid wafte the Mcrfe, and the counties of East and Mid Lothian. On the other hand, in June 1548, Monfieur de Desfe, a French officer of great reputation, landed

at Leith with 6000 foldiers, and a formidable train of

Dudley; and 300 foldiers were posted with 200 pioneers, in the cuttle of Roxburgh, under the command

of Sir Ralph Bulmer.

In the mean time, the regent was in disgrace on account of the difafter at Pinkey; and the queen-down er being disposed to superfede his authority, attempted to improve this circumflance to her own advantage. As the perceived that her power and interest could be best supported by France, the resolved to enter into the strictest alliance with that kingdom. It had been proposed that the dauphin of France should marry the queen of Scotland; and this proposal new met with many partizans, the hostilities of the English having lost a great number of friends to the cause of that country. It was resolved to fend the queen immediately to France, which would remove the cause of the present contentions, and her subsequent marriage with the dauphin would in the fullest manner cement the friendship betwist the two nations. The French government also entered deeply into the scheme; and in order to promote it made presents of great value to many of the Scottish nobility. The regent himself was gained over by a penfion of 12,000 livres, and the title of duke of Chatelherault. Monfieur de Villegagnon, who commanded four galleys in the harbour of Leith, making a feint as if he intended to proceed infrantly to France, tacked about to the north, and, failing round the ifles, received the queen at Dumbarton; whence he conveyed her to France, and delivered her to her uncles the Scalan! princes of Lorraine, in the month of July 1548.

These transactions did not put an end to the military operations. The fie of Hiddington had been undertake as foon as the French auxiliaries arrived, and was now conducted with vigour. To reinforce the garrifon, 1 500 horfe advanced from Berwick; but an ambufcade being laid for them, they were intercepted, and almost totally destroyed. Another body of English the Engtroops, however, which arounted only to 300 perions, is in meet was more fuccelsful. Eluding the vigilance of the Scots raichecks. and the French, they were able to enter Haddington, and to fupply the belieged with ammunition and provifions. The lord Seymour, high-admiral of England, made a descent upon Fife with 1200 men, and some pieces of artillery; but was driven back to his thips with great flaughter by James Stuart, natural brother to the young queen, who opposed him at the head of the militia of the county. A fecond defeent was made by him at Montrofe; but being equally unfuccesful there, he was obliged to leave Scotland without performing any important or memorable achievement.

Having collected at army of 17,000 men, and adding to it 3000 German Protesiants, the protector put it under the direction of the earl of Shrewsbury. On the approach of the English, Desie, though he had been reinforced with 15,000 Scots, thought it more prudent to retreat than to Lazard a battle. He raised the siege of Haddington, and marched to Edinburgh. The earl Quarrels of Shrewibary did not follow him to force an engage-between ment; jealousies had arisen between the Scots and the the Scots French. The infolence and vanity of the latter, en- and French couraged by their fuperior faill in military affairs, had offended the quick and impatient spirit of the former. The fretrulness of the Scots was augmented by the calamities inseparable from war; and after the conveyance of the young queen to France, the efficacious and peculiar advantage conferred on that kingdom by this transaction was fully understood, and appeared to them to be highly differential and impolitic. In this flate of their minds, Deffe did not find at Edinburgh the reception which he expected. The quartering of his foldiers produced difputes, which ended in an infurrection of the inhabitants. The French fired upon the citizens. Several persons of diffinction fell, and among these were the provost of Edinburgh and his son. The national discontents and inquietudes were driven, by this event, to the most dangerous extremity; and Delle, who was a man of ability, thought of giving employment to his troops, and of flattering the people by the fpleudour of

fome martial exploit. The earl of Shrey bury, after supplying Findding- Unforces ton with troops, provisions, and military thores, retired ful attempt with his army into England. Its garrison, in the cn-on Hadpyment of ficurity, and unfulpicious of danger, might dington be furprifed and overpowered. Marching in the night, Deffe reached this important post; and de troying a fort of observation, prepared to form the main gates of the city, when the garrison took the alarm. A French deferter pointing a double cannon against the thickest ranks of the affailants, the that was incredibly deftructive, and threw them into confusion. In the height of their consternation, a vigorous fally was made by the befieged. Deffe renewed the affault in the morning, and was again discomfitted. He now turned his arms

The queen

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against Broughty castle; and, though making to reduce it, he received the neighbouring torm of Diffuse, . religious borgh, and pot its garriton to the food. Encouraged ferent incursions, and obtained several petty victories. Leith, which from a finall villege had now grown into a town, was fertified by him; and the island of Inchkei h, nearly opposite to that harbour, being occupied ma 'e them priloners after a brifk encounter.

His activity and valour could not, however, compose the discontents of the Scottish nation; and the queen dowager having written to Henry II. to recal him, he was fucceeded in his command by Monfieur de Thermes, who was accompanied into Scotland by Monluc bishop of Valence, a person highly esteemed for his adthe loss of Cardinal Beaton, and to discharge the office of lord high chancellor of Scotland. But the jealoufies of the nation increefing, and the queen-dowager herfelf Infresting his ambition and turbulence, he did not atin to this dignity, and foon returned to his own coun-

De Thermes brought with him from France a reinforcement of 1000 foot, 2000 horfe, and 100 men-atarms. He erected a fort at Aberlady, to dittrefs the garrifon of Haldington, and to intercept its supplies of provisions. At Coldingham he cut in pieces a troop of Speniards in the English pay. Fast-castle was regained by farprife. Distractions in the English court did not permit the protector to act vigoroufly in the war. The earl of Warwick was diverted from marching an army into Scotland. An infectious distemper had broken out in the garrison at Haddington; and an apprehension prevailed, that it could not hold out for a confiderable time against the Scots. The earl of Rutland, therefore, with a body of troops, entered the town; and after fetting it on fire, conducted the garrison and artillery to Berwick. The regent now in possession of Haddington, was folicitous to recover the other places which were yet in the power of the English. De Thermes I id siege to Broughty castle, and took it. He then befieged Lawder; and the garrifon was about to furrender at differetion, when the news arrived that a peace An. Isse. was concluded between France, England, and Scot-

By this treaty the king of Trance obtained the restibeen taken from him by the king of England, and for to be given to the marriage of the queen of Scotland with the depphin: the fourteffes of Lawder and Douglas were to be reflored to the Scots, and the English were to duliny the crilles of Roxburgh and Eymouth. The queen- After the reliteration of these articles, the queen-dowager France, and many of the nobility. Having arrived there, the comthemes as municated to the king her defign of a luming the government of Scotland, and he promifed to affilt her to the utmost of his power. But the jeal ufy which pre-

vo . Il . Iy to berge his office. For this purpole intrigues were impactisely commenced; and indeed the fearcely proclaimed, when he provoked the public refentment by an act of fanguinary infolence. Adam Adam Wal-Wallace, a man of fimple manners, but of great zeal lace fuffers for the reformation, was accused of herety, and brought in account to trial in the church of the Black Friars at Edinburgh, if re is ion. baptizing one of his own children, and with denying ted to him, that he accounted prayers to the faints and the dead an ufcless superstition, that he had pronounced the mass an idolatrous service, and that he had atfirmed that the bread and wine in the facrament of the altar. after the words of the confecration, do not change their nature, but continue to be bread and wine. These orfences were effeemed too terrible to admit of any pardon .- The earl of Glencairn alone protested against his punishment. The pious sufferer bore with refignation the contumelious infults of the clergy; and by his courage and patience at the stake gave a fanction to the

opinions which he had embraced. nistration of the regent. In his own palace, William Rances of Crickton, a man of family and reputation, was affaffina-the regent ted by the lord Semple. No attempt was made to and pinfpunish the murderer. His daughter was the concubine nee. of the archbishop of St Andrew's, and her tears and intreaties were more powerful than justice. John Melvil, a person respectable by his birth and fortune, had written to an English gentleman, recommending to his care a friend who at that time was a captive in England. This letter contained no improper information in matters of flate, and no fulpicion of any crime against Melvil could be inferred from it. Yet the regent brought him to trial on a charge of high treason; and, for an act of humanity and friendship, he was condemned to lose his head. The forfeited effate of Melvil, was given

Amidst the pleasures and amusements of the French Schoues of court, the queen-dowager was not inattentive to the the queenfeheme of ambition which the had projected. The earls dwager to of Hun'ly and Sutherland, Marifchal and Cassilis, with regency. the lord Maxwell, and other perfons of eminence who had accompanied her to France, were gained over to her intercils. Robert Carnegie of Kinnaird, David Panter bithop of Rofs, and Gavin Hamilton commendator of Kilwinning, being also at this time in that kingdom, and having most weight with the regent, were treated with a most punctious respect. Henry declared to them his earnest wish that the queen-dowager might acquire the government of Scotland. In case the regent should confert to this measure, he expressed a firm intertion that no detriment should happen to his cense-Scots ge darmes in France, and was ready to beflow other marks of favour on his family and tel tions. On this Lufinets, and with this mellage, Mr Carnegie w s

An. 1551.

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Scotland, dispatched to Scotland; and a few days after, he was followed by the bifhop of Rofs. The bifhop who was a man of eloquence and authority, obtained, though with great difficulty, a promife from the regent to relign his high othee; and for this fervice he received, as a recompenfe, an abbey in Poitou.

The queen-dowager, full of hope, now prepared to return to Scotland, and in her way thither made use of a fafe-conduct obtained from Edward VI. by the king of France. The English monarch, however, had not yet forgotten the beautiful queen of Scotland; and did not fail to urge his superiority of claim to her over the dauphin. The queen-dowager did not feriously enter upon the bufiness; but only in general terms complained of the hottilities committed by the English; and two days after this conversation, the proceeded towards Scotland, and was conducted by the earl of Bothwel, lord Hume, and some other noblemen, to Edinburgh, amidst the acclamations of the people. She had not long returned to the capital, when the bad conduct of the regent afforded her an opportunity of exerting her influence and address to the advantage of her project. The regent having proposed a judicial circuit through the kingdom, under pretence of repressing crimes and diforders, molested the people by plunder and rapine. Great fines were levied for offences pretended as well as real; and the Protestants in particular seemed to be the the regent. objects of his displeasure and severity. In his progress he was accompanied by the queen-dowager; and as she affected to behave in a manner directly opposite, the most difagreeable comparisons were made between her

promifed to refign his office, did not fail to put him in mind of his engagements; but he had now altered his mind, and wished still to continue in power. His resolution, however, failed him on the first intimation of a parliamentary inquiry into the errors of his administration. An agreement with the queen-dowager then took place; and it was stipulated, that he should succeed to the throne upon the death of the queen without iffue; that his fon should enjoy the command of the genthe queendarmes; that no inquiry should be made into his expen-An. 155 4. diture of the royal treasures; that no scrutiny into his government should take place; and that he should enjoy in the most ample manner his duchy and his penfion. These articles were ratified at an assembly of par-

and the regent. The bishop of Ross, to whom he had

She renders vernment than those of intrigue. She was scarcely settled herfelf un- in her new office when the rendered herfelf unpopular in

liament, and the queen-dowager was formally invested with the regency. Mary of Lorraine, the new regent, though the had with great difficulty attained the fummit of her wishes, feemed to be much less conversant with the arts of gotwo respects; one by her too great attachment to France, and the other by her perfecution of the reformed religion. She was entirely guided by the councils of her brothers the duke of Guise and the cardinal of Lorraine; and paid by far too much attention to M. d'Oyfel the French ambassador, whom they recommended to her as an able and faithful minister. Several high of-Vol. XVIII, Part II.

fices were filled with Frenchmen, which excited in the Sotlands highest degree the resentment of the Scottish nobility; and the commonalty were instantly prejudiced against her by the partiality which the thowed to the Papitle, At first, however, she enacted many falutary laws; and while the made a progrets through the fouthern provinces of the kingdom to hold jufficiary courts, the endeavoured to introduce order and law into the wettern counties and ifles; first by means of the earl of Huntly, and afterwards of the earls of Argyle and Athole, to whom the granted commissions for this purpose with cffectual powers. In another improvement, which the Attempts queen regent attempted by the advice of her French in vain to council, the found herfelt opposed by her own people, establish a It was proposed that the possessions of every proprietor array, of land in the kingdom should be valued and entered in regilters; and that a proportional payment should be made by each. The application of this fund was to maintain a regular and standing body of troops. This guard or army, it was urged, being at all times in readiness to march against an enemy, would protect effectually the frontiers; and there would no longer be any necessity for the nobles to be continually in motion on every rumour of hostility or incursion from English invaders. No art, however, or argument, could recommend these measures. A perpetual tax and a standing army were conceived to be the genuine characteristics of despotism. All ranks of men considered themselves infulted and abused; and 300 tenants of the crown affembling at Edinburgh, and giving way to their indignation, fent their remonstrances to the queen-regent in fuch ftrong and expressive language, as induced her to abandon the scheme. Yet still the attempt which she had made left an impression in the minds of the people. They suspected her to be a secret enemy to their government and liberties; and they were convinced that the king of France was engaging her in refinements and artifices, that he might reduce Scotland to a province of France.

While an alarm about their civil rights was fpread- John Knox ing itself among the people, the Protestants were rising engourages daily in their spirit and in their hopes. John Knox (P), the reformwhose courage had been confirmed by misfortunes, and ers, whose talents had improved by exercise, was at this time making a progress through Scotland. The characterist tic peculiarities of Popery were the favourite topics of his declamation and censure. He treated the mass, in particular, with the most fovereign contempt, representing it as a remnant of idolatry. Many of the nobility and gentry afforded him countenance and protection. They invited him to preach at their houses, and they partook with him in the ordinances of religion after the reformed method. Religious focieties and affemblies were publicly held, in defiance of the Papills; and celebrated preachers were courted with affiduity and bribes to refide and officiate in particular diffricts and towns. The clergy cited Knox to appear before them at Edinburgh, in the church of the Black-friars. On the appointed day he presented himself, with a numerous attendance of gentlemen, who were determined to exert themselves

<sup>(</sup>P) When he was fent to France (fays Dr Stuart), with the confpirators against Cardinal Beaton, he was confined to the galleys; but had obtained his liberty in the latter end of the year 1549.

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agent.

Scotland, themselves in his behalf. The priesthood did not choose to proceed in his profecution; and Knoy, encouraged by this fymptom of their fear, took the refolution to explain and inculcate his doctrines repeatedly and openly in the capital of Scotland. In 1556, the earl of Glencairn allured the earl Marifchal to hear the ex-Writes an hortations of this celebrated preacher; and they were fo much affected with his reasonings and rhetoric, that they requeited him to address the queen-regent upon the fubject of the reformation of religion. In com-An. 1556. pliance with this request, he wrote a letter in very disagreeable terms; and the earl of Glencairn delivered it with his own hand, in the expectation that fome advantage might in this manner be obtained for the reformed. But the queen-regent was no less offended with the freedom of the nobleman than of the preacher; and, after perufing the paper, the gave it to James Beaton archbishop of Glafgow, with an expression of disdain, " Here,

my lord, is a pasquil." Amidit these occupations, John Knox received an invitation to take the charge of the English congregation and is burnt at Geneva; which he accepted. The clergy called on him, in his absence, to appear before them, condemned him to death as a heretic, and ordered him to be

burned in effigy.

This injurious treatment of John Knox did not in the least obstruct the progress of the reformation. Defertions were made from Popery in every town and village; and even many members of the church, both fecular and regular, were forward to embrace the new principles, and to atone for their past mistakes by the most bitter railleries against the corruptions and the folly of the Romish faith. The priests were treated in all places with ridicule and contempt. The images, crucifixes, and relics, which ferved to roufe the decaying fervours of superstition, were taken from the churches, and trampled under foot. The bithops implored the affittance of the queen-regent. Citations were given to the preach-ers to appear in their defence. They obeyed; but with fuch a formidable retinue, that it was with difficulty she was permitted to apologise for her conduct. James Chalmers of Gaitgirth, pressing forward from the crowd, thus addressed her: "We vow to God, that the devices of the prelates shall not be carried into execution. We are oppressed to maintain them in their idleness. They seek to undo and murder our preachers and us; and we are determined to submit no longer to this wickedness." The multitude, applauding his speech, put their hands to their daggers.

A trufty messenger was dispatched to Geneva, inviting John Knox to return to his own country. But in the infancy of their connection, the Protestants being apprehensive of one another, uncertain in their counsels, or being deferted by perfons upon whom they had relied, it appeared to them that they had adopted this measure without a due preparation; and, by other difpatches, Knox was requelted to delay his journey for

fome time. To this zealous reformer their unfleadiness was a matter of ferious affliction; and in the answer he transmitted to their letters, he rebuked them with feverity: but amidst this correction, he intreated them not to faint under their purposes, from apprehensions of danger, which, he faid, was to separate themselves from the fayour of God, and to provoke his vengeance. To particular persons he wrote other addresses; and to all of Scotland. them the greatest attention was paid. In 1557, a formal bond of agreement, which obtained the appellation the int of the first covenant, was entered into, and all the more cover ant. eminent perfons who favoured the reformation were in- An. 1557vited to subscribe it. The earls of Argyle, Glencairn, and Morton, with the lord Lorn, and John Erskine of Dun, led the way, by giving it the fanction of their names. All the subscribers to this deed, renouncing the superflitions and idolatry of the church of Rome. promifed to apply continually their whole power and wealth, and even to give up their lives, to forward and establish the word of God. They distinguished the reformed, by calling them the Congregation of Christ; and by the opprobrious title of the Congregation of Satan, they peculiarized the favourers of Popery.

After the leaders of the reformation had fubscribed John Knox the first covenant, they addressed letters to John Knox, and Calvin urging in the flrongest terms his return to Scotland; I vited in and that their hopes of his assistance might not be dif-Scotland. appointed, they fent an address to John Calvin, the celebrated reformer, begging him to join his commands to their intreaties. The archbishop of St Andrew's, who perceived the rifing ftorm, was now in a difficult fituation. A powerful combination threatened ruin to the church; and he had feparated himfelf from the politics of the queen-regent. The zeal of the Roman Catholics pointed out ftrong measures to him; and his dispositions were pacific. The clergy were offended with his remiffnels and neglect of duty. The reformers detelted his loofeness of principles, and were shocked with the diffolute depravity of his life and conversation. He refolved to try the force of address, and did not succeed. He then refolved to be fevere, and was still more unfuc-

The earl of Argyle was the most powerful of the re-The arch-To allure him from his party, the bothop of formed leaders. archbishop of St Andrew's employed the agency of Sir St Andrew's at-David Hamilton. But the kindness he affected, and tempts in the advices he bestowed, were no compliment to the un-vainto sederstanding of this nobleman; and his threats were re-duce the garded with contempt. The reformers, inflead of lo-earl of Arfing their courage, felt a fentiment of exultation and tri-gyle. umph; and the earl of Argyle happening to die about this time, he not only maintained the new doctrines in his last moments, but intreated his fon to feek for honour in promoting the public preaching of the gospel of Jefus Chrift, and in the utter ruin of superstition and idolatry.

It was determined by the archbishop and the prelates, that this disappointment should be succeeded by the furious perfecution of the reformed. Walter Mill, a prieft, Walter had neglected to officiate at the altar; and having been unterest long under the suspicion of herefy, was carried to Staccount of Andrew's, committed to prifon, and accused before thereligion. archbishop and his suffragans. He was in extreme old age; and he had struggled all his life with poverty. He funk not, however, under his fate. To the articles of his accufation he replied with figual recollection and fortitude. The firmness of his mind, in the emaciated flate of his body, excited admiration. The infults of his enemies, and their contempt, ferved to discover his fuperiority over them. When the clergy declared him a heretic, no temporal judge could be found to condemn him to the fire. He was respited to another day; and

557 Goes 10 Gereva, in effigy.

558 Progrets of the reformation.

Scotland, fo great sympathy prevailed for his misfortunes, that it was necessary to allure one of the archbishop's domestics to fupply the place of the civil power, and to pronounce the fentence of condemnation. When brought to the flake, the rejolution of this fufferer did not forfake him. He praifed God, that he had been called to feal the truth with his life; and he conjured the people, as they would escape eternal death, not to be overcome by the errors and the artifices of monks and priefts, abbots and bishops.

563 The Profolve to affert their rights.

regent.

The barbarity of this execution affected the refortestants re- mers with inexpressible horror. Measures for mutual defence were taken. The leaders of the reformation. dispersing their emissaries to every quarter, encouraged the vehemence of the multitude. The covenant to establish a new form of religion extended far and wide. The point of the fword, not the calm exertions of inquiry, was to decide the disputes of theology.

When the leaders of the reformation were apprifed of the ardent zeal of the people, and confidered the great number of subscriptions which had been collected in the different counties of the kingdom, they affembled to deliberate concerning the steps to be pursued. It the queenwas refolved, accordingly, that a public and common fupplication of the whole body of the Protestants should be prefented to the queen-regent; which, after complaining of the injuries they had fuffered, should require her to bestow upon them her support and affistance, and urge her to proceed in the work of a reformation. To explain their full meaning, a fchedule, containing particular demands, was at the fame time to be prefented to her ferutiny. To Sir James Sandilands of Calder they committed the important charge of their manifesto and articles of reformation; and in appointing him to this commission, they consulted the respect which was due both to the government and to themselves. His character was in the highest estimation. His services to his country were numerous; his integrity and honour were above all fuspicion; and his age and experience gave him authority and reverence.

The petition or supplication of the Protestants was expressed in strong but respectful terms. They told the queen-regent, that though they had been provoked by great injuries, they had yet, during a long period, abstained from assembling themselves, and from making known to her their complaints. Banishment, confiscation of goods, and death in its most cruel shape, were evils with which the reformed had been afflicted; and they were still exposed to these dreadful calamities, Compelled by their fufferings, they prefumed to ask a remedy against the tyranny of the prelates and the estate ecclefiaftical. They had usurped an unlimited domination over the minds of men. Whatever they commanded, though without any fanction from the word of God, must be obeyed. Whatever they prohibited, though from their own authority only, it was necessary to avoid. All arguments and remonstrances were equally fruitless and vain. The fire, the faggot, and the fword, were the weapons with which the church enforced and vindicated her mandates. By thefe, of late years, many of their brethren had fallen; and upon this account they were troubled and wounded in their consciences. For conceiving themselves to be a part of that power which God had established in this kingdom, it was their duty to have defended them, or to have concurred with them

in an open avowal of their common religion. They Scottand now take the opportunity to make this avowal. They break a filence which may be mifinterpreted into a juftification of the cruelties of their enemies. And difdaining all farther diffigulation in matters which concern the glory of God, their present happiness, and their future falvation, they demand, that the original purity of the Christian religion shall be restored, and that the government thall be fo improved, as to afford to them a fecurity in their persons, their opinions, and

With this petition or fupplication of the Proteffants. Sir James Sandilands prefented their fchedule of demands, or the preliminary articles of the reformation. They were in the spirit of their supplication, and of the

following tenor.

I. It thall be lawful to the reformed to perufe the Articles of Scriptures in the vulgar tongue; and to employ also the refortheir native language in prayer publicly and in private. mation. II. It shall be permitted to any person qualified by

knowledge, to interpret and explain the difficult paf-

fages in the Scriptures.

III. The election of ministers shall take place according to the rules of the primitive church; and those who elect shall enquire diligently into the lives and doctrines of the persons whom they admit to the clerical

IV. The holy facrament of baptifm shall be celebrated in the vulgar tongue, that its institution and nature

may be the more generally understood.

V. The holy facrament of the Lord's supper shall likewife be administered in the vulgar tongue; and in this communion, as well as in the ceremonial of baptifm, a becoming respect shall be paid to the plain institution of Christ Jesus.

VI. The wicked and licentious lives of the bishops and estate ecclesiastical shall be reformed; and if they discharge not the duties of true and faithful pastors, they shall be compelled to defist from their ministry and

functions. The queen-regent now found it necessary to flatter The Protectthe Protestants. She affured them by Sir James Santants flatdilands, their orator or commissioner, that every thing the queen they could legally defire should be granted to them; reger to and that, in the mean time, they might, without moleftation, employ the vulgar tongue in their prayers and religious exercifes. But, upon the pretence that no encouragement might be given to tumults and riot, the requested that they would hold no public affemblies in Edinburgh or Leith. The Congregation, for this name was now assumed by the Protestants, were transported with these tender proofs of her regard; and while they

raged in the undertaking they had begun, and anxious to accomplish the work of the reformation. Nor to the clergy, who at this time were holding a provincial council at Edinburgh, did the Congregation scruple to communicate the articles of the intended reformation. The clergy received their demands with a

fought to advance still higher in her esteem by the in-

offensive quietness of their carriage, they were encou-

florm of rage, which died away in an innocent debility. Upon recovering from their passions, they offered to They is. fubmit the controverly between them and the reformed to dispute to a public disputation. The Congregation did not with the refuse this mode of trial; and defired, as their only con-

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Sectland. ditions, that the Scriptures might be confidered as the flandard of orthodoxy and truth, and that those of their brethren who were in exile and under persecution might be permitted to affift them. Thele requests, though highly reasonable, were not complied with; and the church would allow of no rule of right but the canon law and its own councils. Terms of reconciliation were then offered on the part of the estate ecclefiaftical. It held out to the Protestants the liberty of praying and administering the facraments in the vulgar tongue, if they would pay reverence to the mafs, acknowledge purgatory, invoke the faints, and admit of petitions for the dead. To conditions fo ineffectual and abfurd the Congregation did not deign to return any answer.

The meeting of parliament approached. The parties in contention were agitated with anxieties, apprehenfions, and hopes. An expectation of a firm and open assistance from the queen-regent gave courage to the reformed; and, from the parliamentary influence of their friends in the greater and the leffer baronage, they expected the most important fervices. They drew up with eagerness the articles which they wished to be passed into a law; and as the spirit and sense of their transactions are to be gathered in the completest manner from the papers which were framed by themselves, cles to the it is proper to attend to them with exactness. Their

petitions were few and explicit.

I. They could not, in consequence of principles which they had embraced from a conviction of their truth, participate in the Romish religion. It was therefore their defire, that all the acts of parliament, giving authority to the church to proceed against them as heretics, should be abrogated; or, at least, that their power should be fuspended till the disputes which had arisen were brought to a conclusion.

Il. They did not mean that all men should be at liberty to profess what religion they pleased, without the controll of authority. They confented that all transgressors in matters of faith should be carried before the temporal judge. But it was their wish that the clergy should have the power of accusing; and they thought it conformable to justice, that a copy of the criminal charge should be lodged with the party upon trial, and that a competent time should be allowed him

III. They infifted, that every defence confiftent with law should be permitted to the party accused; and that objections to witnesses, founded in truth and reason,

should operate in his favour.

IV. They defired that the party accused should have permission to interpret and explain his own opinions; and that his declaration should carry a greater evidence than the deposition of any witness; as no person ought to be punished for religion, who is not obstinate in a wicked or damnable tenet.

V. In fine, they urged, that no Protestant should be condemned for herefy, without being convicted by the word of God, of the want of that faith which is neces-

fary to falvation.

The Congregation presented these articles to the queen-regent, expecting that she would not only propose them to the three estates assembled in parliament, but employ all her influence to recommend them. But finding themselves disappointed, they began to doubt her fincerity; and they were fensible that their Scotland. petitions, though they should be carried in parliament, could not pass into a law without her consent. They therefore abilianed from presenting them; but as their complaints and defires were fully known in parliament, they ordered a folemn declaration to be read there in their behalf, and demanded that it should be inserted in the records of the nation. In this declaration, after extheir scheme of reformation, they protested, that no proceed. blame should be imputed to them for continuing in their ings. religion, which they believed to be founded in the word of God; that no danger of life, and no political pains, should be incurred by them, for difregarding statutes which support idolatry, and for violating rites which are of human invention; and that, if infurrections and tumults should disturb the realm, from the diversity of religious opinions, and if abuses should be corrected by violence, all the guilt, diforder, and inconvenience thence arifing, instead of being applied to them, should be ascribed to those solely who had refused a timely redress of wrongs, and who had despised petitions presented with the humility of faithful fubjects, and for the purposes of establishing the commandments of God, and a most just and falutary reformation.

The three estates received this formidable protest with attention and respect; but the intention of inserting it in the national records was abandoned by the Congregation, upon a formal promise from the queen-regent, that all the matters in controverfy should speedily be brought by

her to a fortunate iffue.

While the Protestants were thus making the most vigorous exertions in behalf of their spiritual liberties, the queen regent, in order to establish herself the more effectually, used every effort to promote the marriage of her daughter with the dauphin of France. In 1557, commissioners were appointed to negociate this marriage; but while these negociations were going on, the court of France acted in the most perfidious manner. At the age of 15, after folemnly ratifying the indepen- Perficions dence of Scotland, and the fuccession of the crown in conduct of the house of Hamilton, Queen Mary was influenced by the court of the king and her uncles the princes of Lorraine to fign France. privately three extraordinary deeds or instruments. By the failt she conveyed the kingdom of Scotland to the king of France and his heirs, in default of children of her own body. By the fecond the affigned him, if the should die without children, the possession of Scotland, till he should receive a million of pieces of gold, or be amply recompensed for the sums expended by him in the education of the queen of Scotland in France. By the third she confirmed both these grants in an express declaration, that they contained the pure and genuine fentiments of her mind; and that any papers which might be obtained, either before or after her marriage, by means of the Scottish parliament, should be invalid, and of no force or efficacy. On the 24th Mariage of April, the nuptials were celebrated; and the dau-of the phin, Francis, was allowed to affume the title of king queen of of Scotland. The French court demanded for him the Scots with crown and other enfigns of royalty belonging to Scot-the dauland; but the commissioners had no power to comply France. with this demand. It was then defired, that when they returned home, they should use all their influence to procure the crown matrimonial of Scotland for the dauphin.

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Scotland dauphin. This also was refused; the court of France was disgusted; and four of the commissioners died, it was supposed of poison, given them by the princes of Lorraine. This subject, however, was pressed, on the return of the furviving commissioners, by the king of France himfelf, the queen of Scotland, and the queenregent. The Protestants also joined their interest, hoping by that means to gain over the queen and queen-He obtains regent to their party; to that an act of parliament was the crown at length paffed, by which the crown matrimonial was given to the daupnin during the time of his marriage with Queen Mary; but without any prejudice to the liunder cerberties of the kingdom, to the heirs of her body, or to tain restricthe order of succession. With so many restraints, it is difficult to fee the advantages which could accrue from this gift so earnestly sought after; and it is very probable, that the usurpations of France in confequence of it, would have been productive of many diffurbances; but these were prevented by the death of Francis in De-

Before this event took place, however, Scotland was, by the intrigues of France, involved in confusion on another account. After the death of Mary queen of England, and daughter to Henry VIII. the princes of Guite infifted on the claim of Mary queen of Scots to The queen the crown of England, in preference to that of Elizabeth, whom they looked on as illegitimate. This claims the claim was supported by the king of France, who prevailed with the queen of Scots to assume the title England, of queen of England, and to stamp money under that character. The arms of England were quartered with those of France and Scotland; and employed as ornaments for the plate and furniture of Mary which lays and the dauphin. Thus was laid the foundation of the founda- an irreconcileable quarrel between Elizabeth and Mary; and to this, in some measure, is to be ascribed with Eliza the inveteracy with which the former persecuted the unhappy queen of Scotland, whenever the had it in her

But while they imprudently excited a quarrel with England, they still more imprudently quarrelled with the majority of the people of Scotland. As Elizabeth professed the Protestant religion, it was easily foreseen, that the Congregation, or body of the reformed in Scotland, would never confent to act against her in favour of a Popish power; and as they could not detroy all the leaders be gained, it was refolved to destroy them at once, of the rero by putting to death all their leaders. The queen-retestant par- gent gave intimation of her design to re-establish Poty in Scotpery, by proclaiming a folemn observance of Easter, receiving the facrament according to the Romish communion, herfelf, and commanding all her household to receive it in the fame manner. She next expressed herfelf in a contemptuous manner against the reformed, affirmed that they had infulted the royal dignity, and declared her intention of restoring it to its ancient lustre. The preachers of the Congregation were next cited to appear at Stirling, to answer the charges which might be brought against them. Alexander earl of Glencairn, and Sir Hugh Campbell of Loudon, were deputed to admonish her not to persecute the preachers, unless they had been obnoxious by circulating erroneous doctrines, or diffurbing the peace of government. The queen-regent in a passion told them, that the preachers the queen. should all be banished from Scotland, though their doc-

trines might be as found as those of St Paul. The de- Scotlandputies urged her former kind behaviour and promifes; but the queen-regent answered, that " the promises of princes ought not to be exacted with rigour, and that they were only binding when subservient to their conveniency and pleasure." To this they replied, that in such a cafe they could not look on her as their fovereign, and must renounce their allegiance as subjects.

Soon after this transaction, the queen-regent recei-Proceedved the news that the reformation was established in ing, against Perth. Lord Ruthren the provoit of the city was the Frotef-fummoned to answer for this innovation; but his reply was, that he had no dominion over the minds and consciences of men. The provost of Dundee, being ordered to apprehend an eminent preacher, named Paul Methven, lent him intelligence of the order, that he might provide for his fafety. The proclamation for observing Easter was everywhere despised and neglected, and people exclaimed against the mass as an idol. New citations, in the mean time, had been given to They bethe preachers to appear at Stirling. They obeyed the come forfummons; but attended by fuch multitudes, that the midable by queen regent, dreading their power, though they were their numwithout arms, intreated Mr Erskine of Dun, whom they had fent before as a deputy, to stop their march; affuring him that all proceedings against the preachers should be stopped. In consequence of this, the multitude dispersed; yet, when the day came on which the preachers should have appeared, the queen-regent, with unparalleled folly and treachery, caused them to be declared traitors, and proclaimed it criminal to afford them any fubfittence.

Mr Erskine, exasperated by this shameful conduct, hastened to the Congregation, apologised for his conduct, and urged them to proceed to the last extremities. At this critical period John Knox returned from John Knox Geneva, and joined the Congregation at Perth. The returns to great provocations which the Protestants had already Scotland, received, joined to the impetuous passions of the multitude, were now productive of the greatest disorders. Images were deftroyed, monasteries pulled down, and their wealth either feized by the mob or given to the poor. The example of Perth was followed by Cupar in Fife; and fimilar infurrections being apprehended in other places, the queen-regent determined to punish the inhabitants of Perth in the most exemplary manner. With this view the collected an army: but being oppofed with a formidable power by the Protestants, the thought proper to conclude an agreement. The Protestants, however, dreaded her infincerity; and there. Second cofore entered into a new covenant to stand by and defend venant. each other. Their fears were not groundless. The of the queen-regent violated the treaty almost as foon as it was queen-remade, and began to treat the Protestants with severity, gent. The earl of Argyle, and the prior of St Andrew's, who about this time began to take the title of Lord James Stuart, now openly headed the Protestant party, and prepared to collect their whole strength. The queenregent opposed them with what forces she had, and which indeed chiefly confifted of her French auxiliaries; but, being again alraid of coming to an engagement, fhe confented to a truce until commissioners should be fent to treat with the lords for an effectual peace. No commissioners, however, were fent on her part; and the nubles, provoked at fuch complicated and unceasing treachery,

Treacherous behaviour of regent.

Scotland, treachery, refolved to pull matters to the utmost extre-

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mity. The first exploit of the reformed was the taking of the town of Perth, where the queen-regent had plaken by the ced a French garrison. The multitude, elated with this achievement, destroyed the palace and abbey of Scone. in fpite of all the endeavours of their leaders, even of John Knox himfelf, to fave them. The queen-regent, apprehensive that the Congregation would commit farther rayages to the fouthward, refolved to throw a garrison into Stirling; but the earl of Argle and Lord James Stuart were too quick for her, and arrived there the very day after the demolition of the abbey and palace of Scone. The people, incapable of reftraint, and provoked beyond measure by the perfidious behaviour of the Catholic party, demolified all the monasteries in the neighbourhood, together with the fine abbey of Cambulkenneth, fituated on the north bank of the Forth. The queen- From Stirling they went to Linlithgow, where they committed their usual ravages; after which, they advanced to Edinburgh. The queen-regent, alarmed at their Protestants approach, sled to Dunbar; and the Protestants took up

Having thus got possession of the capital, the Con-

and the their refidence in Edinburgh.

gregation affumed to themselves the ruling power of the kingdom, appointed preachers in all the churches, and feized the mint, with all the inftruments of coining. The queen-regent, unable to dispute the matter in the field, published a manifesto, in which she set forth their feditious behaviour, commanding them to leave Edinburgh within fix hours, and enjoining her fubjects to avoid their fociety under the penalties of treason. The Congregation having already lost some-They lofe what of their popularity by their violent proceedings, larity, and were now incapable of contending with government. As they had not established themselves in any regular body, or provided a fund for their support, they felt their strength decay, and multitudes of them returned to their habitations. Those who remained found themfelves obliged to vindicate their conduct; and, in an address to the regent, to disclaim all treasonable intentions. Negociations again took place, which ended as usual; the queen-regent, who had taken this opportunity of collecting her forces, marched against the Congregation on the 23d of July 1559. The Protestants now found themselves incapable of making head against An. 1559. their enemies; and therefore entered into a negociation, by which all differences were for the prefent accommodated. The terms of this treaty were, that the town of Edinburgh should be open to the queen dowager and her attendants; that the palace of Holyroodhou'e and the mint should be delivered up to her; that the Protestants should be subject to the laws, and abstain from moleiting the Catholics in the exercise of their religion. On the queen's part, it was agreed, that the Protestants should have the free exercise of their religion, and that no foreign troops should enter the city of

> Notwithstanding this treaty, however, the reformed had no confidence in the queen's fincerity. Having heard of the death of Henry II. of France, which took place on the 8th of March 1559, and the accession of Francis II. and Mary to the throne of that kingdom, they feem to have apprehended more danger than ever. They now entered into a third covenant; in which they engaged to refuse attendance to the

queen-dowager, in cale of any meffage or letter; and Scotland. that immediately on the receipt of any notice from her to any of their number, it should be communicated without referve, and be made a common fubject of fcrutiny and deliberation. It was not long before they had occasion for all their constancy and strength. The queen- The treaty regent repented of the favourable terms the had granted broken by the reformed; and being denied the favour which the regent requested of faying mass in the high-church of Edinburgh, the ordered them to be everywhere diffurbed in the exercise of their religion.

In this imprudent measure the queen-regent was con-France furfirmed by letters which now came from Francis and ports the Mary, promiting a powerful army to support her inter-catholic rests. The envoy who brought these dispatches also party. carried letters to the lord James Stuart, now the principal leader of the Protestants, and natural brother to the queen. The letters were filled with reproaches and menaces, mixed with intreaties; and along with them the envoy delivered a verbal message, that the king his mafler was refolved rather to expend all the treasures of France than not to be revenged on the rebellious nobles who had diffurbed the peace of Scotland. The lord James Stuart was not to be frightened by these menaces. He returned a cool and deliberate answer, apologizing for the Protestants, and vindicating them from the charge of rebellion; but at the same time intimating his full refolution of continuing to head the reform-

ed as he had already done.

The letters of Francis and Mary were foon followed French auby 1000 French foldiers, with money and military xiliaries arftores; and the commander was immediately dispatched alarms the again to France, to folicit the affiltance of as many nation. more foldiers, with four thips of war, and 100 men at- An. 1565. arms. But before he could fet out, La Broffe, another French commander, arrived with 2000 infantry; and that the Congregation might be defeated not only by arms but in disputation, the same thip brought three doctors of the Sorbonne, to show the pernicious tendency of the new doctrines. Thus matters were pushed on beyond all hopes of reconciliation. The nation was univerfally alarmed on account of the introduction of French troops, to which they faw no end. The queen-regent attempted to quiet the minds of the public by a proclamation : but their fears increased the more. The Congregation assembled at Stirling, where they were joined by the earl of Arran, and foon after by his father the duke of Chatelherault. They next deliberated on the measures to be followed with the queen regent; and the refult of their confultations was, that an expostulatory letter should be addressed to her. This was accordingly done; but as the queen behaved with her usual duplicity, the nobles called the people to arms. Mutual manifeltoes were now published; and both parties prepared to decide the contest by the fword. The Congregation having feized Broughty 589 castle, marched thence to Edinburgh. The queen-Th. n bles regent retired to Leith, which she had fortified and fend their filled with French troops. Thither the nobles fent at meffage their last message to her, charging her with a design to queen-reoverthrow the civil liberties of the kingdom. They re-gent. quefted her to command her Frenchmen and mercenaries to depart from Leith, and to make that place open, not on'v to the inhabitants who had been dispossessed of their houses, but to all the inhabitants of Scotland.

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Sectiond. They declared, that her denial of this request should be

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They degrade her offi.e, and Lay fiege 10 Leith.

Div.fions take piace among shem.

confidered by them as a proof of her intention to reduce the kingdom to flavery; in which cafe, they were determined to employ their utmost power to preserve its Receive an independence. Two days after this message, the queenregent fent to them the lord Lyon, whom the enjoined to tell them, that the confidered their demand not only as prefumptuous, but as an encroachment on the royal authority; that it was an indignity to her to be dictated to by fubjects; that Frenchmen were not to be treated as foreigners, being entitled to the same privileges with Scotlmen; and that the would neither difband her troops, nor command the town of Leith to be made open. The lord Lyon then, in the name of the queen-regent, commanded the lords of the Congregation to depart from Edinburgh, and disperse, under the pain of high treason. The Protestants irritated by this answer, after some deliberation degraded the queenregent; and for this purpose the nobility, barons, and burgeffes, all agreed in fubfcribing an edict, which was fent to the principal cities in Scotland, and published in them.

> The next slep taken by the Congregation was to fummon Leith to furrender; but meeting with defiance instead of submission, it was resolved to take the town by scalade. For this service ladders were made in the church of St Giles; a bufiness which, interrupting the preachers in the exercise of public worship, made them prognosticate misfortune and miscarriage to the Congregation. In the difpleasure of the preachers, the common people found a fource of complaint; and the emissaries of the queen-dowager acting with indefatigable industry to divide her advertaries, and to spread chagrin and diffatisfaction among them, discontent, animofity, and terror, came to prevail to a great degree. The duke of Chatelherault discouraged many by his example. Defection from the Protestants added strength to the queen-dowager. The most fecret deliberations of the confederated lords were revealed to her. The foldiery were clamorous for pay; and it was very difficult to procure money to fatisfy their claims. Attempts to foothe and appeale them, discovering their confequence, engendered mutinies. They put to death a domettic of the earl of Argyle, who endeavoured to compose them to order: they infulted feveral persons of rank who difcovered a folicitude to pacify them; and they even ventured to declare, that, for a proper reward, they were ready to suppress the reformation, and to re-establish the mass.

It was absolutely necessary to give satisfaction to in o diffress the Protestant foldiers. The lords and gentlemen of and treat the Congregation collected a confiderable fum among with Queen them; but it was not equal to the present exigency.

The avarice of many taught them to withhold what they could afford, and the poverty of others did not permit them to indulge their generofity. It was refolved, that each nobleman thould furrender his filverplate to be coined. By the address, however, of the queen-dowager, the officers of the mint were bribed to conceal, or to convey to a distance, the stamps and instruments of coinage. A gloomy despair gave disquiet to the Congregation, and threstened their ruin. Queen Elizabeth, with whose ministers the confederated lords maintained a correspondence at this time, had frequently promifed them her affiftance; but they could not now

wait the event of a deputation to the court of England, Section In an extremity to prefting, they therefore applied for a fam of money to Sir Ralph Sadler and Sir James Croft. the governors of Berwick; and Cockburn of Ormitton. who was entrulted with this commission, obtained from them a fupply of 4000 crowns. Traitors, however, English in the councils of the Congregation, having informed subfidy the queen dowager of his errand and expedition, the earl the queen of Bothwel, by her order, intercepted him upon his re-regent, turn, discomfitted his retinue, and made a prize of the English subsidy.

To rouse the spirit of the party, an attack was projected upon Leith, and some pieces of artillery were planted against it. But before any charge could be made, the French foldiers fallied out to give battle to the troops of the Congregation, possessed themselves of The Piotheir cannon, and drove them back to Edinburgh. Ateflants report that the victors had entered this city with the fu-defeated. gitives, filled it with diforder and difmay. The earl of Argyle and his Highlanders hastened to recover the honour of the day, and haraffed the French in their retreat. This petty conflict, while it elated the queendowager, served to augment the despondence of the Protestants.

Vain of their prowefs, the French made a new fally from Leith, with a view to intercept a supply of provisions and stores for the Congregation. The earl of Arran and the lord James Stuart advanced to attack them, and obliged them to retire. But purfuing them with too much precipitation, a fresh body of French troops made its appearance. It was prudent to retreat, but The Predifficult. An obstinate resistance was made. It was again dethe object of the French to cut off the foldiery of the feated. Congregation from Edinburgh, and by these means to divide the strength of that station. The earl of Arran and the lord James Stuart had occasion for all their address and courage. Though they were able, however, to effect their escape, their loss was considerable, and the victory was manifestly on the fide of their ad-

About this time William Maitland of Lethington, Maitland, fecretary to the queen-dowager, withdrew fecretly from the queer-Leith, and joined himself to the consederated nobles secretary, He had been disgusted with the jealousies of the French revolts to counfellors, and was exposed to danger from having the Prote-embraced the do Grines of the reformed. His reception flants. was cordial, and corresponded to the opinion entertained of his wildom and experience. He was skilled in bufiness, adorned with literature, and accustomed to reflection. But as yet it was not known, that his want of integrity was in proportion to the greatness of his talents.

The accession of this statesman to their party could not confole the lords of the Congregation for the unpromising as cet of their affairs. The two discomfitures they had received funk deeply into the minds of their followers. Those who affected prudence, retired privately from a cause which they accounted desperate; and the timorous fled with precipitation. The waitings and distrutt of the brothren were melancholy and infectious; and by exciting the ridicule and fcorn of the partifans of the queen-dowager, were augmented the more. A distress not to be comforted seemed to have invaded the Protestants; and the associated nobles consented to abandon the capital. A little after midnight, they re-

Scotland, tired from Edinburgh; and fo great was the panic which prevailed, that they marched to Stirling without They retire making any halt.

fr. m Edin-Stuling.

John Knox, who had accompanied the Congregation burgh to to Stirling, anxious to recover their unanimity and courage, addressed them from the pulpit. He repre-John Knox fented their misfortunes as the confequences of their encourages fins; and entreating them to remember the goodness of their cause, assured them in the end of joy, honour, and victory. His popular eloquence corresponding to all their warmest wishes, disfused satisfaction and cheerfulness. They passed from despair to hope. A council was held, in which the confederated nobles determined to folicit, by a formal embaffy, the aid of Queen Elizabeth. Maitland of Lethington, and Robert Melvil, were chosen to negociate this impotaant business; and they received the fullest instructions concerning the state and difficulties of the Congregation, the tyrannical defigns of the queen-dowager, and the danger which threatened England from the union of Scotland with

600 Elizabeth

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The queen of England having maturely confidered determines the case, determined to assist the reformers; whose leadto affift the ers now dispersed, and went to different parts of the kingdom, to employ their activity there for the common cause. The queen-dowager, imagining that the lords were fled, conceived great hopes of being able at once to crush the reformed. Her fanguine hopes, however, were foon checked, on receiving certain intelligence that Queen Elizabeth was refolved to affift them. She now took the best measures possible, as circumstances then stood; and determined to crush her enemies before they could receive any affiftance from England. Her French The French troops took the road to Stirling, and wasted in their march all the grounds which belonged to the favourers of the reformation. After renewing their depredations the reform- at Stirling, they passed the bridge; and proceeding ed. along the side of the river, exercised their cruelties and oppressions in a district which had distinguished itself by an ardent zeal against popery. While the terror of their arms was thus diffusing itself, they resolved to feize on the town and caftle of St Andrew's, which they confidered as an important military station, and as a convenient place of reception for the auxiliaries which

663 They are opposed with fuccess by Stuart.

they expected from France. But the lord James Stuart exerted himself to interrupt their progress and frustrate their attempts; and it was his object at the same time to keep the force of Lord James the Congregation entire, to hazard no action of importance, and to wait the approach of the English army. A fmall advantage was obtained by the French at Petticur; and they poffessed themselves of Kinghorn. The lord James Stuart, with 500 horse and 100 foot, entered Dyfart. With this inconfiderable force he proposed to act against an army of 4000 men. His admirable skill in military affairs, and his great courage, were eminently displayed. During 20 days he prevented the march of the French to St Andrew's, intercepting their provisions, haraffing them with skirmishes, and intimidating them by the address and the boldness of his stratagems.

Monfieur d'Oyfel, enraged and ashamed at being difconcerted and opposed by a body of men fo disproportioned to his army, exerted himself with vigour. The lord James Stuart was obliged to retire. Dyfart and I

Wemyls were delivered up to the French troops to be Scotland. pillaged; and when d'Oyfel was in full march to St Andrew's he discovered a powerful fleet bearing up the 603 frith. It was concluded, that the supplies expected Arrival of from France were arrived. Guns were fired by his the English foldiers, and their joy was indulged in all its extrave-fleet. gance. But this fleet having taken the veffels which contained their provisions, and the ordnance with which they intended to improve the fortifications of the castle at St Andrew's, an end was put to their rejoicings. Certain news was brought, that the fleet they observed was the navy of England, which had come to fupport the Congregation. A confernation, heightened by the giddiness of their preceding transports, invaded them. Monfieur d'Oyfel now perceived The French the value and merit of the fervice which had been per general formed by the lord James Stuart; and thinking no more flies. of St Andrew's and conquest, fled to Stirling, in his way to Leith, from which he dreaded to be intercepted: but he reached that important station after a march of three days.

A formal treaty was now concluded between the lords Treaty of the Congregation and Queen Elizabeth; and in the between mean time the queen-dowager was disappointed in her Elizabeth expectations from France. The violent administration Scott Pro-of the house of Guise had involved that nation in trou-testants. bles and diffrefs. Its credit was greatly funk, and its treafury nearly exhausted. Perfecutions, and the spirit The queenof Calvinism, produced commotions and conspiracies regent disand amidit domestic and dangerous intrigues and strug-appointed gles, Scotland failed to engage that particular diffinction in her exwhich had been promifed to its affairs. It was not pectations however, altogether neglected. The count De Mar-france. tiques had arrived at Leith with 1000 foot and a few horse. The marquise D'Elbeuf had embarked for it with another body of foldiers; but, after losing feveral thips in a furious tempelt, was obliged to return to the haven whence he had failed.

In this fad reverse of fortune many forfook the queen-She is dedowager. It was now undeftood that the English army ferred by was on its march to Scotland. The Scottish lords who bers of her had affected a neutrality, meditated an union with the subjects. Protestants. The earl of Huntly gave a folemn affurance that he would join them. Proclamations were issued throughout the kingdom, calling on the subjects of Scotland to affemble in arms at Linlithgow, to re-establish their ancient freedom, and to affift in the utter expulsion

of the French foldiery. The English fleet, in the mean time, under Winter the vice-admiral, had taken and destroyed several ships, had landed fome troops upon Inchkeith, and discomfited a body of French mercenaries. On being apprifed The princes of these acts of hostility, the princes of Lorraine dispatch-attempt ed the chevalier de Seure to Queen Elizabeth, to make to negociate representations against this breach of peace, and to urge with Queen the recal of her ships. This ambassador affected like-Elizabeth wife to negociate concerning the evacuation of Scot-in vain. land by the French troops, and to propose methods by which the king of France might quarter the arms of England without doing a prejudice to Queen Elizabeth; but to prevent the execution of vigorous refolutions against the queen-dowager, and to gain time, were the only objects which he had in view. With similar intentions, John Monluc bishop of Valence, a man of greater address and ability, and equally devoted to the

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Stotland, house of Guise, was also sent at this time to the court of England, Queen Elizabeth, however, and her minithers, were too wife to be amufed by artifice and dexterity. The lord Grey entered Scotland with an army of 1200 horse and 6000 foot; and the lord Scroop, commanded under him. By a citel policy, the queendowager had already waited all the country around the capital. But the defolation which the had made, while it was ruinous to the Scottith peafants, affected not the army of England. The leaders of the Congregation did not want penetration and forelight, and had themselves provided against this difficulty. The duke of Chatelherault, the carls of Argyle, Glencairn, and Menteith, the lord James Stuars, and the lords Ruthven, Boyd, and Ochiltree, with a numerous Preson.

ing of a timely and proper fuccour from France, and reminded by tickness of her mortality, the queen-dowager retired from Leith to the cattle of Edinburgh, and put herfelf under the protection of the lord Enkine. The queen. At the period when the was appointed to the regency, the lord Erskine had received from the three estates the charge of this important fortress, with the injunction to hold it till he should know their farther orders; and he giving way to the folicitations of neither faction, had kept it with fidelity. By admitting the queen-downger, he yielded to fentiments of honour and humanity, and did not mean to depart from his duty. Only a few of her domestics accompanied her, with the archbithop of St Andrew's, the bithop of Dunkeld, and the

Struck with the fad condition of her affairs, despair-

The confederated nobles now affembled at Dalkeith testants in- to hold a council; and comforming to those maxims ties, had been formerly exercised by them, they invited the queen-dowager to an amicable conclusion of the present troubles. In a letter which they wrote to her, they called to her remembrance the frequent manifestos and metfages in which they had preffed her to difmifs the French foldiery, who had fo long oppressed the lo er ranks of the people, and who threatened to redoce the kingdom to fervitude. The avertion, howand prayers, was fo great, that they had given way to a ft: n necessity, and had intreated the atliftance of the queen of England to expel these firangers by-force of arms. But though they had obtained the powerful protection of this princefs, they were fiil a mated with a becoming respect for the mother of their becreign; and, difficied once more to folicit in lamithon of these mercenaries, with their officers. And that no just objection might remain against the grant of this last request, they affured her, that a fufe p. Mage by land, to the ports of E- and, thould be allowed to the French; or that, if they judged it more agreea le, the navy of Que a Klizatheir proposals should be rejected, they appealed and protested to G d and to mankind, that it it wild be underitood and Lel' med, that no movive of milice, or has tred, or wickedness of a y kind, lad i duced them to employ the fatal expedient of aims and bettles; but

that they had been compelled to this dilly centle and and a. dittrefful remedy, for the prefervation of their co:nmonwealth, their religion, their perfons, their edites, and their pollcrity. They begged her to weigh he equity of their patition, to confider the inconveniences of war, and to think of the 1 it and quiet which were necessary to relieve the addictions of hr danglier's kingdom; and they before it her to embalm her own memory, by an immortal deed of wildom, humanity

affociated lords, the lord Grey directed Sir George Howard and Sir James Croft to wait on the oncendovager and Sipulate the peaceable departure of the English troops, on condition that the French mercanaries thould be immediately dismitted from her fervice, and prohibited from refid og in Scotland. Returning no direct answer to the applications made to her, the defired time to deliberate upon the resolution which it became her to adopt. This equivocal behaviour correfounded with the spirit of intrigue which had uniformly diffinguished the queen-dowager; and it is probable,

The combined arimes marched towards Leith. AT Frank body of the French, posted on a rising ground called deliberation Hau b. hil, diputed their progress. During five hours hant a the condict was maintained with obstinate valour. At length the Scottish horsemen charged the French with a Leith with precipitation; and might have been cut off from it altogether, if the English cavalry had exerted rithed in this action, and a few combatants only fell on

Leith was invelled. The pavilions and tents of the wlo my English and Scottish nobility were planted at Rest. I- @ gets rig, and around it. Trenches were cast; and the ordnance from the town annoying the combined armies, a mount was raifed, upon which eight cannons were erected. A continued fire from these, against St Anthony's skill, the walls of this fabric were shaken, and the Negligent from fecurity, and apprehensive of no atlack, the English and Scottish efficers occupied the fel as in amusements, and permitted a relevation of militar wifcipline. The French, informed of this supineness a. d levity, made a fally from Leith. While some of the vanlage, but 605 men to the fivor l. - After the Pughter, the Protefants were more attentive to their aftairs .- Mounts were built at proper diffances, and the fe be's fortified with ordnance, lerved as places of retre t and defence in the event of fudgen incurions; and thes they continued the block de in a more effectual man

The a mo unider the marquis D'Elbeuf, promifed fo had nive in Sevland to try once mer the ris of

Scotland delay and negociation. Conferences were held by him

616 Frutleis negociation with England.

with the queen dowager, with the English commanders, and with the confederated nobles; but no contract or agreement could be concluded. His credentials extended neither to the demolition of Leith, nor to the recal of the French mercenaries; and though he obtained powers from his court to confent to the former of these measures, they were yet burdened with conditions which were diffraceful to the Congregation; who, in the present presperous state of their affairs, were not disposed to give up any of the objects for which they had fruggled so long, and to the attainment of which they now looked forward with a fettled hope and

Though the grave and measured crations of Monluc could not overpower the plain and flubborn fenfe of the Congregation, yet as he affected to give them admonitions and warnings, and even ventured to infult them with meneces, they appear to have conceived a high indignation against him. Under this impulse, and that, in lo advanced a stage of their affairs, they might exhibit the determined firmness of their resolutions, and bind to them by an indiffoluble tie the earl of Huntly and the other persons who had joined them in confequence of the English alliance, they thought of the assurance and The fourth stability of a new league and covenant, more folemn, expreffive, and refolute, than any which they had yet on-

The nobles, barons, and inferior persons, who were parties to this bond and affociation, bound themfelves in the presence of Almighty God, as a society, and as individuals, to advance the reformation of religion, and to procure, by all possible means, the true preaching of the gospel, with the proper administration of the facraments, and the other ordinances in connection with it. Deeply affected, at the same time, with the misconduct of the French statesmen, who had been promoted to high offices; with the oppressions of the French mercenaries, whom the queen-dowager kept up and maintained under the colour of authority; with the tyranny of their officers; and with the manifest danger of conquest to which the country was exposed, by different fortifications on the fea-coalt, and by other dangerous innovations; they promifed and engaged, collectively and individually, to join with the queen of England's army, and to concur in an honest, plain, and unreferved resolution of expelling all foreigners from the realm, as oppressors of public liberty; that, by recovering the ancient rights, privileges, and freedom of their nation, they might live for the future under the due obedience of their king and queen, be ruled by the laws and cuftoms of the country, and by efficers and statesmen born and educated among themselves. It was likewise contracted and agreed by the fubscribers to this bond and covenant, that no private intelligence by writing or meffage, or communication of any kind, should be kept up with their adverfaries; and that all perfons who refitted the godly enterprife in which they were united. should be regarded as their enemies, and reduced to sub-

618 When the strong and fervid sentiment and expression of this new affociation were communicated to the queendowager, the abandoned herfelf to forrow. Her mind, up to deinclined to despondence by the increase of her malady, fpair.

felt the more intenfely the cruel diffractions and dif. Scotland, quiets into which the kingdom had been driven by the ambition of France, her own doating affection for the princes of Lorraine, and the vain prognoffications of flatterers and courtiers. In the agony of pathon, the befought the malediction and curfe of God to alight upon all those who had counselled her to perfecute the preachers, and to refuse the petitions of the most ho-

In the mean time the fiege of Leith was profecuted. But the thrength of the garrifon amounting to more than 4000 foldiers, the operations of the befiegers were flow and languid. An accidental fire in the town, which destroyed many houses and a great part of the public granary, afforded them an opportunity of playing their artillery with fome advantage; and a few The Prodays after they made a general affault. But the fealing-teffants ladders which were applied to the walls being too short, make an and Sir James Croft, who had been gained over to the unfuccefsful queen-dowager, having acted a treacherous part, the at-Leith. tempt failed of fuccefs, and 1000 men were destroyed. The combined armies, however, did not lofe their refo-lution or their hopes. The English and Scots animated the constancy of each other; and in the ratification of the treaty of Bernick, which was now made, a new fource of cordiality opened itself. Letters had also come from the duke of Norfolk, promising a powerful reinforcement, giving the expectation of his taking on himself the command of the troops, and ordering his pavilion to be erected in the camp. Leith began to feel the mifery of famine, and the French gave themselves up to defpair. The beliegers abounded in every thing ; A reinand the arrival of 2000 men, the expected reinforce-forcement ment from England, gave them the most decisive supe-arrives riority over their adverfaries. Frequent fallies were land. made by the garrison, and they were always unsuccessful. Discouraged by defeats, depressed with the want of provisions, and languishing under the negligence of France, they were ready to submit to the mercy of the Congregation.

Amidft this diffress the queen-dowager, wasted with Death of a lingering diftemper and with gricf, expired in the the queencastle of Edinburgh. A few days before her death, she regent invited to her the duke of Chatelherault, the lord James An. 1560. Stuart, and the earls of Argyle, Glencairn, and Marifehal, to bid them a last adieu. She expressed to them her forrow for the troubles of Scotland, and made it her earnest suit, that they would consult their constitutional liberties, by difmiffing the French and English from their country; and that they would preferve a dutiful obedience to the queen their fovereign. She professed an unlimited forgiveness of all the injuries which had been done to her; and entreated their pardon for the offences the had committed against them. In token of her kindness and charity, she then embraced them by turns; and, while the tear started in her eye, presented to them a cheerful and smiling aspect. After this interview, the short portion of life which remained to her was dedicated to religion; and that she might allure the Congregation to be compassionate to her Popish subjects and her French adherents, she fattered them, by calling John Willocks, one of the most popular of their preachers, to affift and comfort her by his exhortations and prayers. He made long discourses to her

The queengivesherfell

Scotland, about the abominations of the mass; but she appears to have died in the communion of the Romith church; and her body being transported to France, was deposited in the monastery of St Peter, at Rheims, in Champagne,

where her fister Renée was an abbeis.

The French mit.

The death of the queen-dowager, at a period fo crititroops sub- cal, broke altogether the spirit of the French troops. They were blocked up fo completely, that it was almost impossible for any supplies to reach them either by sea or land; and France had delayed fo long to fulfil its magnificent promifes, that it was no longer in a capacity to take any steps towards their accomplishment. Its internal diffress and disquiets were multiplying. The nobility, impoverished by wars, were courting the rewards of fervice, and struggling in hossility. The clergy were avaricious, ignorant, and vindictive. The populace, knowing no trade but arms, offered their fwords to the factious. Francis II. the husband of Mary, was without dignity or understanding. Catharine de Medicis his mother was full of artifice and fallehood. Infurrections were dreaded in every province. The house of Guife was encompaffed with difficulties, and trembling with apprehensions, so that they could not think of perfifting in their views of diffant conquefts. It was necesfary that they should abandon for a time all the proud projects they had formed for the extension of the French monarchy. It was chiefly in the exemption from foreign wars that they could hope to support their own greatness, and apply a remedy to the domestic disturbances of France. It appeared to Francis and Mary, that they could

623 Francis and

into a negociation beth.

testants.

not treat in a direct method with the Congregation, whom they affected to confider as rebellious subjects, with Eliza- without derogating from their royal dignity. In negociating a peace, therefore, they addressed themselves to Queen Elizabeth. It was by her offices and interference that they projected a reconciliation with the confederated lords, and that they fought to extinguish the animolities which, with fo much violence, had agitated the Scottish nation. They granted their commission to John Monluc bishop of Valence, Nicholas Pelleve bishop of Amiens, Jacques de la Brosse, Henry Clentin fieur d'Oysel, and Charles de la Rochefaucault fieur de Randan; authoriting them in a body or by two of their number, to enter into agreements with the queen of England. The English commissioners were Sir William Cecil principal fecretary of state, Nicolas Wotton dean of Canterbury and York, Sir Ralph Sadier, Sir Henry Percy, and Sir Peter Crew; and the powers of treaty were to be exercifed by them all in conjunction, or hy four, three, or two of them.

The plenipotentiaries of France, though empowered Promise an only to treat with England, were yet, by a separate indemn:ty to the Pro- commission, entrusted to assure the Congregation, that, notwithstanding the heinous guilt incurred by them, Francis and Mary were inclined to receive them into fayour, upon their repentance and return to obedience; and to abstain for ever from all inquiry into their conduct. They had full authority, at the same time, by this new deed, to hear, in conjunction with the commissioners of Elizabeth, the complaints of the Congregation, and to grant, with their confent, the relief which appeared to them to be the most proper and falutary.

The nobility and people of Scotland, choosing for

their representatives the lord James Stuart, the lord Scotland. Ruthven, and Maitland of Lethington, expressed their willingness to concur in reasonable measures for the reestablishment of the public tranquillity. By the mode

of a formal petition, they enumerated their grievances, laid claim to redrefs, and befought an uniform protection to their constitution and laws. To this petition the Ard at last intercession of Queen Elizabeth effected the friendly at-petition. tention of Francis and Mary; and on a foundation concerted with fo much propriety, Monluc and Randan, Cecil and Wotton, the acting plenipotentiaries of France and England, drew up and authenticated the celebra-

ted deed of relief and concession which does so much honour to the spirit, perseverance and magnanimity of

the Scottish nation.

By this agreement, Francis and Mary stipulated and Nature of contented, that no French foldiers and no foreign troops with the should ever be introduced into Scotland without the coun- Protestants.

fel and advice of the three chates. They concurred in opinion, that the French mercenaries should be fent back to France, and that the fortifications of Leith should be demolished. They agreed that commissioners should be appointed to vifit Dunbar, and to point out the works there which ought to be deftroyed; and they bound themselves to build no new fortress or place of strength within the kingdom, and to repair no old one, without a parliamentary fanction. They confented to extinguish all debts which had been contracted for the maintenance of the French and Scotch foldiery in their fervice. They appointed the estates of the realm to hold a parliament for the discussion of affairs of slate; and they obliged themselves to consider the acts of this assembly as valid and effectual in every respect. They confirmed the ancient law of the country, which prohibited the princes of Scotland from making peace and war without the advice of the three effaces. It was agreed by them that the three estates, in concurrence with the queen, should elect a council for the administration of affairs during her majefty's absence. They became bound to employ the natives of Scotland in the mamagement of juffice both civil and criminal, in the offices of chancellor, keeper of the feals, treasurer, comptroller, and in other stations of a fimilar nature; and to abitain from the promotion of all foreigners to places of trust and honour, and from investing any clergyman in the charge of affairs of the revenue. They determined to establish an act of oblivion, and to forget for ever the memory of all the late transactions of war and offence. It was concluded by them, that a general peace and reconciliation should take place among all parties, They expressed their determination, that no pietence should be assumed by them, from the late contentions, to deprive any of their subjects of their estates or offices. And they referred the reparation which might be proper to compensate the injuries which had been sustained by bishops and ecclesiastics, to the judgement of the three estates in parliament.

On the subject of the reformation, the plenipotentiaries of England and France did not choose to deliberate and decide, though articles with regard to it had been presented to them by the nobles and the people. They referred this delicate topic to the enfuing meeting of parliament; and the leaders of the Congregation engaged, that deputies from the three estates should repair

Sectland to the king and queen, to know their intention concerning matters of fuch high importance.

After having granted these concessions to the nobility and the people of Scotland, on the part of their respective courts, Monluc and Randan, Cecil and Wotton, Articles re- concluded another treaty. By this convention it was determined, that the English and French troops should depart out of Scotland; that all warlike preparations should cease; that the fort of Eymouth should be razed to the ground, in terms of the treaty of Cambray; that Francis and Mary should abilian from bearing the title and arms of England or Ireland; that it should be confidered, whether a farther compensation should be made to Elizabeth for the injuries committed against her; and that the king and queen of Scots should be fully and fincerely reconciled to the nobility and the people of their kingdom. The interests of England and France were the particular objects of this agreement. But though the concessions to the Protestants were not inferted in it at full length, an expressive reference was made to them; and they received a confirmation in terms which could not be mitunderstood. This deed recorded he elemency of Francis and Mary to their fubjects of Scotland, the extreme willingness of the noance, the representation they had offered of their grievances, and the request of Queen E izabeth that redress should be afforded them; and it appealed to the confe-

> By these important negociations, the Protestants, while they humbled France, flattered Queen Elizabeth; and while they acquired a power to act in the establishment of the reformation, restored to Scotland its civil conditution. The exclusion of foreigners from offices of state, the limitation of the Scottish princes with revion of all offences, were acquifitions most extensively rity to the reformed, gratified their most fanguine ex-

ately proclaimed. The French mercenaries embarked for their own country, and the English army took the road to Berwick. Amidd events fo joyful, the preachers ly; and after its celebration, the commissioners of the the kingdom. John Knox was called to discharge the at St Andrew's, Ad m Herlot 't Aberd en, John Row fon at Dondee, Davil Fe afon at Du fermline, and David Lindsey at Leith. That the boffiels of the ecc hadical alliers of particular province and dillricts. the division of Lowian, Mr J 'm Wilocks for that

John Erskine of Dun for that of Angus and Mearns, Scotland. and Mr John Carlewell for that of Argyle and the Isles. This inconfiderable number of minitters and fuperintendants gave a beginning to the reformed church of Scot-

Amidft the triumoh and exultation of the Protestants, The parliathe meeting of parliament approached. All persons who menumeets. had a title from law, or from ancient cultom, to attend the great council of the nation, were called to affemble. While there was a full convention of the greater barons and the prelates, the inferior tenants in capite, or the leffer barons, on an occasion so great, initead of appearing by representation, came in crowds to give perfonally their affiftance and votes; and all the com-

It was objected to this parliament when it was affembled, that it could not be valid, fince Francis and Mary were not prefent, and had not empowered any person to represent them. But by the terms of the late concessions to the nobility and the people, they had in effect dispensed with this formality; and the objection, after having been warmly agitated for some days, was rejected by a majority of voices. The lords of the articles were then chosen; and as the protestant party were fuperior to the popish faction, they were careful, in electing the members of this committee, to favour all those who were disposed to forward the work of the reformation. The first object which the lords of the ar-Supplicaticles held out to parliament was the supplication of the tion of the

missioners for the boroughs, without exception, presented

nobility, gentry, and all the other persons who pro-Protestants. fessed the new doctrines. It required, that the Romish church should be condemned and abolished. It reprobated the tenet of transubstantiation, the merit of works, papiltical indulgences, purgatory, pilgrimages, and prayers to departed faints; and confidering them as peftilent errors, and as fatal to falvation, it demanded, that all those who should teach and maintain them should be exposed to correction and punishment. It demanded, that a remedy thould be applied against the profanation of the holy facraments by the catholics, and that the ancient discipline of the church should be restored. In fine, it infilled, that the supremacy and authority of the pope should be abolished; and that the patrimony of the church thould be employed in supporting the reformed ministry, in the provision of schools, and in the main-

This supplication of the Protestants was received in parliament with marks of the greatest deference and respect. The popilli doctrines it censured, and the strong language it employed, excited no dispute or altercation. The nobility, however, and the lay members, did not think it expedient that the patrimony of the church, in and the support of Phools and the poor. Avoiding, ther-fore, any explicit ferutiny into this point, the parliament gave it in charge to the ministers and the lead- A Catef ing men of the reformation, to draw up, under diffinct into F ith ought to be effablished over the kingdom. Within four

proffed and believed by the Protestants will in the

Siuops.

Scotland. realm of Scotland (Q)." It was read first to the lords of the articles. It was then read to the parliament; in the name of God, to make pullicly their objections to the doctrines it proposed. They preserved a profound filence. A new diet was appointed for concluding the transaction. The articles of the Confession were again fused to bestow on it their authority. The earl of Athol, and the lords Somerville and Bothwell, protested, that " they would believe as their fathers had done before them." The bith ps and the effate ecclefiaftical, from a consciousness of the weakness of popery, seemed to have lost all power of speech. No diffent, no vote, was given by them. " It is long (faid the earl Marifand an affection to the reformed doctrines. But this day has afforded me the completest conviction of the fallehood of the one, and the truth of the other. The in learning, and whose zeal for the maintenance of the hierarchy cannot be doubted, have abandoned their religion, and their interest in it, as objects which admit of no defence or justification." All the other constituent members of this great council were zealous for the effablishment of the reformation, and affirmed the propriety of its doctrines. Thus the high court of parliament, with great deliberation and folemnity, examined, voted,

A few days after the ettablishment of the Confession of Faith, the parliament passed an act against the mass of the m. f and the exercise of the Romish worship. And it scrupled not to ordain, that all perfons faving or hearing mass should, for the first offence, be exposed to the confiscation of their estates, and to a corporeal chastisement, at the discretion of the magistrate; that for the second offence, they should be banished the kingdom; and that for the third offence they should fuffer the pains of death. Persecuting This fierceness, it is to be acknowledged, did not fuit part of the the generofity of victory; and while an excuse is sought Protestarts for it in the perfidiousness of the Romish priesthood, it rians, that their feveri ies were exactly thole of which after having declared, that the pope, or bithop of Rome, upon the fovereignty and government of Scotland, by his frequent interferences and claims of power, commanded and decreed, that, for the future, his jurifdiction and authority should be extinct; and that all persons main aining the fmallest connection with him, or with

Practs and The memorable and decifive flattets produced the Mary state overthrow of the Romifa religion. To obtain for thefe the acts of the partial bation of Francis and Mary was an ojet of the greatment. et anxiety, and of infinite moment to the three cates.

Sir James Sandilands lord St John was therefore at. Scotland. explain what had been done in confequence of the late concessions and treaty, and to solicit their royal ratification of the transactions of parli ment. The spirited behaviour of the congregation had, however, exceeded all the expectations of the princes of Lorraine; and the business of the embassy, and the ambassador himself, though a man of character and probity, were treated not only with ridicule, but with infult and contumely. He returned accordingly without any unfwer to his commission. Instead of submitting the heads and topics of a reformation to Francis and Mary, by a petition or a narrative, the parliament had voted them into laws; and from this informality the validity of its proceedings has been suspected. But it is observable of the Protestants, that they had not concealed their views with regard to religion and the abolition of Poperv; that in the grant of redrefs and concession, and in the deed of treaty, no actual prohibition was made to prevent the eflablishment of the reformation; that a general authority was given to parliament to decide in affairs of flate : and that Francis and Mary were folemnly bound to authenticate its transactions. Thou h a fornality was maintained. The nation, of confequence, imputed the conduct of Francis and Mary to political reasons sugthe Popish clergy; and as Elizabeth did not refuse, on her part, the ratification of the agreements, and folicited and preffed the French court in vain to adopt the fame meafare, a firength and force were thence communicated

When the three eflates difpatched Sir James Sandilands to France, they influefed the earls of Morton and Gleneairn, with Maitland of Leilington, to repair to the court of England. By their ambaffadors they prefented to Elizabeth their fincere and refrectful thanks, for the attention flown by her to Scotland, in her late most important fervices. And while they folicited the continuance of her favour and protection, intreated, in an earnest manner, that her majelty, for the establishment of a perpetual peace and amity, would be pleased to take in marriage the earl of Arran, the next heir after his other to the Scottish monarchy. The queen made new and fervent protestations of her regard and attached to the continuance of the promise of her warmest aid when it would be necessary, in their just defence, upon any figure occasion. Sie spoke in obligit terms of the earl of Arran; but as the found in heriest no present difficults in to mairiage, site desired that he might constitution of her affection and esteem, he took the listerty to remind them of the practices which had been employed to overturn their independency, and begged them to consider the unsumity and concord of their order as a necessary guard against the ambition and the autifier of the ensemies of their pation.

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<sup>(</sup>Q I is given at full length in Knox, in the cultedien of confessions of fait, vol. ii. and in the P pure to k park. 1367.

and fervants.

The fuccess of the Congregation, though great and The reillustrious, was not yet completely decisive. fufal of Francis and Mary to ratify their proceedings opened a fource of bitterness and inquietude. The Popish party, though humbled, was not annihilated. Under the royal protection it would foon be formidable. Political confiderations might arife, not only to cool the amity of England, but even to provoke its refentment. And France, though it could now transport no army against Scotland, might soon be able to adopt that expedient. Great diffractions and fevere calamities were itill to be dreaded. In the narrowness of their own refources they could find no folid and permanent fecurity against the rage and weight of domestic faction, and the ftrenuous exertions of an extensive kingdom. All their fair achievements might be blafted and overthrown. Popery might again build up her towers, and a fanguinary domination destroy alike their religious and civil

Death of Francis II. 4th Dec. An. 1560.

While the anguith of melancholy apprehensions repreffed the triumph of the Congregation, the event which could operate most to their interests was announced to them. This was the death of Francis II. The tie which knit Scotland to France was thus broken. A new scene of politics displayed itself. Catharine de Medicis, the queen-mother, ruled Charles IX. and was the personal enemy of the queen of Scots. The power and the credit which Mary had lent to her uncles, and the frequent and humiliating disappointments which the queen-mother had fuffered from her influence over Francis, were now repaid with a fludied indifference and neglect. In the full perfection of her charms, with two crowns upon her head, and looking towards a third, she felt herielf to be without grandeur and without confequence. Leaving a court where the had experienced all the enjoyments of which humanity is susceptible, she retired to Rheims, to indulge her forrow.

In the humiliation of their queen, and in the change produced in the councils of Fornce, the Protestants of Scotland found every puffible encouragement to proceed with vigour towards the full citablishment of the reformed doctrines. After the parliament had been diffolved, they turned their thoughts and attention to the plan of policy which might best funt the tenets and religion for which they had contended. The three eflates, amidst their other transactions, had granted a Ecclefiafti- commission to John Winram, John Spottiswood, John cat govern- Willocks, John Douglas, John Row, and John Knox, to frame and model a scheme of ecclesia ical government. They were not long in complying with an order fo agreeable to them, and composed what is termed An 1561. the First Book of Discipline; in which they explained the uniformity and method which ought to be preferved concerning doctrine, the administration of the fac aments, the election and provision of ministers, and the

A convention of the estates gave its fauction to the Presbyterian fo m of government. But while the Book of Discipline sketched out a policy heautiful for The reve- its implicity, fill it required that the patrimony and nues of the the rich possessions of the ancient church should be aliotted to the new establishment. The reformers, lowever, to fuccessful in the doctrines and the policy which bey had proposed, were in this instance very unfortunate. This convention of the effates did not pay a more respectful regard to this proposal than had been Scotland. done by the celebrated parliament, which demolished the mals and the jurisdiction of the see of Rome. They affected to confider it as no better than a dream. The expression " a devout imagination" was applied to it in mockery; and it was not till after long and painful flruggles, that the new establishment was able to procure a becoming and necessary provision and support. The Romish clergy were strenuous to continue in their poffestions, and to profit by them; and the nobles and the laity having feized on great proportions of the property of the church, were no less anxious to retain the

acquifitions they had made. The aversion entertained to the bestowing of riches on the Presbyterian establishment, encouraged the ardour which prevailed for advancing all the other views and interests of the reformed. And this end was also promoted in no inconfiderable degree by the infidious policy of Catharine de Medicis. She was willing to increase and to foster all the difficulties and dangers in the fituation of the queen of Scots and her fubjects. On this account the had engaged Charles IX. to dispatch Monfieur Noailles to the Scotch parliament, to urge it in firong terms to renew the ancient league between the two kingdoms, to diffolve the alliance with England, and to re-establish over Scotland the Popish doctrines and the Popish clergy. A new meeting of the estates was affembled, which confidered their firange requifitions, and treated them with the indignation they merited. Monfieur Noailles was instructed to inform his fovereign, that France having acted with cruelty and perfidi-usness towards the Scots, by attacking their independence and ticerties under pretence of amity and marriage, did not deferve to know them any longer as an ally; that principles of justice, a love of probity, and a high fense of gratitude, did not permit the Scottish parliament to break the confederacy with England, which had generously protected their country against the tyrannical views of the French court, and the treacherous machinations of the house of Guise; and that they were never to acknowledge the Popilli clergy as a dittinct order of men, or the legal possessors of the patrimony of the church; fince, having abolified the power of the pope, and renounced his doctrines, they could bestow no favour or countenance upon his vasfals

presented by the Protestants. They departed from the high claim which they had made for the riches and patrimony of the Popish church; and it was only requefled by them, that a reasonable provision should be allotted to the true preachers of the gospel. This application, however, no less than their former exorbitant demand, was treated with neglect. But amidst the anxiety manifelled by the nobles and the tenants of the crown to hold the Presbyterian clergy in subjection and in poverty, they discovered the warmest zeal for the extension and continuance of the reformed opinions. For in this supplication of the Protesiants, an ardent Final dedefire being intimated and urged, that all the monu fruction of ments of idolatry which remained should be utterly de-monasteflroyed, the fullest and most unbounded approbation was ries and given to it. An act was accordingly passed, which of the Pocommanded that every abbey church, every cloifter, p fh religiand every memorial whatever of Popery, should be on in Scotfinally land.

To this council of the effates a new fupplication was

ment of Scotland delled.

ancient church re-

were most remarkable for their keennets and argour in the work of the reformation. Its execution in the welfern counties was given in charge to the earls of Arran, Argyle, and Glencairn; the lord James Stuart attended to it in the more nor hern diffricts; and in the inland divisions of the country, it was intrusted to the barons in whom the Congregation had the greatest confidence. A dreadful devaltation enfired. The populace, armed with authority, forcad their ravages over the kingdom. It was deemed an execrable lenity to spare any fubric or place where idolatry had been exer-cifed. The churches and religious houses were everywhere defaced, or demolithed; and their furniture, utenfils, and decorations, became the prize of the invader, Even the fepulchres of the dead were ranfacked and viol ted. The libraries of the ecclefiaftics, and the regifters kept by them of their own transactions and of civil affairs, were gathered into heaps, and committed to the flames. Religious antipathy, the fanction of law, the exportation of the clergy, the hope of spoil, and, above all, the ardent defire of putting the last hand

to the reformation, concurred to drive the rage of the people to its wildest fury; and, in the midst of havock

and calamity, the new establishment surveyed its importance and its power. The death of Francis II. having left his queen, Ma-

cited to re. ry, in a very difagreeable fituation while the remained turn to her in France, it now became necessary for her to think of own coun- returning to her own country. To this flie was folicited both by the Protestants and Papitts; the former, that they might gain her over to their party; and the latter, hoping that, as Mary was of their own perinafion, Popery might once more be established in Scotland. For this deputation, the Protestants chose Lord James Stuart, natural brother to the queen; and the Papifts, John Lefly, official and vicar-general of the diocese of Aberdeen. The latter got the flart of the Protestant ambassador, and thus had the opportunity of first delivering his message. He advised her strongly to beware of the lord James Stuart, whom he represented as a man of unbounded ambition, who had espoused the Protestant cause for no other reason than that he might advance himself to the highest employments in the flate; nay, that he had already fixed his thoughts on the crown. For these reasons he advised that the lord James Stuart should be confined in France till the government of Scotland could be completely established. But if the queen were averse to this meafure, he advised her to land in some of the northern districts of Scotland, where her friends were most numerous; in which case an army of 20,000 men would accompany her to Edinburgh, to reflore the Popish religion, and to overawe her enemies. The next day the lord James Stuart waited on her, and gave an advice very different from that of Lefly. The furest method of preventing infurrections, he faid, was the establishment of the Protestant religion; that a standing army and foreign troops would certainly lofe the affections of her fubjects; for which reason he advised her to vifit Scotland without guards and without fol-

diers, and he became folemnly bound to fecure their

obedience to her. To this advice Mary, though the

distrusted its author, listened with attention; and Lord

Scotland, finally demolished; and the care of this barbarous, but James, imagining that she was prejudiced in his favour, Scotland. popular employment, was committed to those persons who took care to improve the favoarable opportunity; by which means he obtained a promile of the carldon of

> Before Mary fet out from France, the received an Her dais embally from Queen Elizabeth, prelling her to ratify putes with the treaty of Edinburga, in which the had taken care Elizabethto have a clause inferted, that Francis and Mary should for ever abilian from alluming the title and aims of England and Ireland. But this was declined by the queen of Scotland, who, in her conference with the English ambailador, gave an enuncat proof of her political abilities . Her retulal greatly augmented the & See Rose jealonfies which already prevailed between her and bertfon of Elizabeth, infomuch that the latter retuled her a late Dilmeny's paffage through her dominions into Scotland. This was Millory of confidered by Mary as a high indignity; the returned Dicentof a very spirited answer, informing ner rival, that the Scotland. could return to her own dominions warnout any affiltance from her, or indeed whether the would or not, In the month of August 1561, Mary let last from Calais for Scotland. She left France with mich regret; and at night ordered her couch to be brought upon deck, defiring the pilot to awaken her in the morning if the coast of France should be in view. The might proved calm, fo that the queen had an opportunity of once more indulging hertest with a fight of that ueloved country. A favourable wind now forang up, and a thick fog coming on, the eleaped a fquadron of men of war which Elizabeth had let out to intercept her; and on the 20th of the month the landed fately at Mary lands Leith.

But though the Scots received their queen with the land. greatest demonstrations of joy, it was not long before an irreconcileable quarrel began to take place. The Protestant religion was now established all over the kingdom; and its projeffors had to far deviated from their own principles, or what ought to have been their principles, that they would grant no toleration to the opposite party, not even to the sovereign herself. In confequence of this, when the queen attempted to celebrate mass in her own chapel of Holyroodaouse, a vio-Is insuffed lent mob affembled, and it was with the utmost diffi- by the Proculty that the lord James Stuart and fome other per-testants. fons of high diffinction could appeale the tumult. Mary attempted to allay these ferments by a proclamation, in which the promifed to take the advice of the states in religious matters; and, in the mean time, declared it to be death for any person to attempt an innovation or alteration of the religion which the found generally established upon her arrival in Scotland. Against this proclamation the earl of Arran protested, and formally told the herald, the queen's proclamation should not protect her attendants and servants is they prefumed to commit idolatry and to fay mass. John Knox declared from the pulpit, that one mass was more terrible to him than if 10,000 armed enemies had landed in any part of the kingdom to re-establish Popery. The preachers everywhere declaimed against idolatry and the mass; keeping up, by their mistaken zeal, a spirit of discontent and sedition throughout the whole kingdom. John Knox was called before the queen to answer for the freedom of his speeches; but his unbounded boldness when there gave Mary much disquiet, as not knowing in what manner to treat him.

Mary foli-

The free oms, how we which er taken ith the tion; from among them the choice her proposed in il, and leaped favours upon the hard lames start, who for his aftivity in promoting the reform tion was the most popular man in the kingdom; wile to her courtiers mality.

In the mean time, the differences between the two rival queens become every lay greater. The queen heir to the crown of England, and Elizabeth urged been renouncing for ever the title to that crown for ciations were the consequence, and the hatred of Eliza eth to Mary conti ually increafed. This year the queen of Scotland amuled herielf by making a circuit St Andrew's. Though received everywhere with the greatest celamations and marks of affection, she could fally taken place against Popery; and upon her return to Edinburgh, her attention was called to an exertion of this zeal, which may be confidered as highly characteristic of the times. The magistrates of this city, after their election, enacted rules, according to cuftom, for the government of their borough. By one of thefe acts, which they published by proclamation, they commanded all monks, friars, and priefts, together with all adulterers and fornicators, to depart from the town and its limits within 24 hours, under the pains of correction and punishment. Mary, justly interpreting this exertion of power to be an usurpation of the royal authority, and a violation of order, displaced the magistrates, commanded the citizens to elect others indulgence to all her subjects not convicted of any crime, to repair to and remain in her capital at their

The long continuance of civil wars had every where fu vert the foundations of civil fociety. Mary made confiderable preparations for the suppression of these diforders, and appointed the lord James Stuart her chief jufficiary and lieutcoant. He was to hold two criminal courts, the one at Jedburgh, and the other at Dumwere armed, and often affoci ted i to bodies, a mili-- efteblining the public trong illity. In this expedation be the standed with his usual force. He de Salved mutual benefit of the two nations: and he commanded

In the mean time the queen was in a very difagree-Mary difable fituation, being suspected and mistrusted by both trustedaby the Presciants, the Papifts supposed that she had a de ties. fign of renouncing their religion altogether; while, on the over hand, the Protestants could scarcely allow an idolater. Disquiets of another kind also now took place. The duke of Chatelherault, having left the Ca-Characters tholics to join the opposite party, was neglected by his fher difforereign. Being arraid of fome danger to himfelf, he terent courfor if ed the castle of Dumbarton, which he resolved to tiers. defend; and in case of necessity to put himself under less ambition. The queen's beauty had made an impression on his heart, and his ambition made him fancy himself the fittest person in the kingdom for her husband. But his fanaticism, and the violence with which he had opposed the mass, had disgusted her. He bore her dislike with an uneafiness that preyed upon his intellects and difordered them. It was even supposed that he had concerted a scheme to possess himself of her percommanded to be in readine's to defeat any project of this nature. The earl of Bothwel was diftinguished chiefly by his prodigalities and the licentiousness of his manners. The earl Marifchal had every thing that was honourable in his intentions, but was wary and flow. The earl of Morton poffesfed penetration and ability, but was attached to no party or measures from any p inciples of rectitude: His own advantage and interefts were the motives by which he was governed. The and vindictive: His passions, now fermenting with violence, were foon to break forth in the moil dangerous deeply tinclured with fanaticism; and their inordinate zeal for the new opinions, not less than their poverty, fador Randolph, advised her to secure their services, by addressin herself to their necessities. Among cour iers of this delcrip ion, it was difficult for Mary to make a felection of minibers in whom the might confide. The consequence and popularity of the lord James Stuart. her fatisfaction. They were each of eminent capacity: but the farmer was suspected of aiming at the sovereignty; the latter was prone to refinement and duplicity; and both were mor attached to Eliz. eth than became them as the ministers and subjects of another

Scotland. 649

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Beside the policy of employing and trusting statesmen who were Protestants, and the precaution of maintaining a firm peace with England, Mary had it also at

heart to enrich the crown with the revenues of the au-She obtains cient church. A convention of estates was assembled to deliberate on this measure. The bithops were alarmfiaffical re- ed at their perilous fituation. It was made known to them, that the charge of the queen's household required an augmentation; and that as the rents of the church had flowed chiefly from the crown, it was expedient that a proper proportion of them should now be refumed to uphold its splendour. After long consultations, the prclates and ecclefiatical effate confidering that they existed merely by the favour of the queen, confented to refign to her the third part of their benefices, to be managed at her pleasure; with the reservation that they should be secured during their lives against all farther payments, and relieved from the burden of contributing to the maintenance of the reformed clergy. With this offer the queen and the convention of estates were satisfied. Rentals, accordingly, of all their benefices throughout the kingdom, were ordered to be produced by the ancient ecclefiaftics; the reformed ministers, superintendants, elders, and deacons, were enjoined to make out registers of the grants or provisions necessary to support their establishment; and a supereminent power of judging in these matters was committed to the queen and the privy council.

While the prelates and ecclefiaftical effate fubmitted to this offer from the necessity of their affairs, it was by no means acceptable to the reformed clergy, who at this time were holding an affembly. It was their earnest with to effect the entire destruction of the ancient establishment, to fucceed to a large proportion of their emoluments, and to be altogether independent of the crown. But while the Protestant preachers were naturally and unanimously of these sentiments, the nobles and gentlemen who had promoted the reformation were disposed to think very differently. To give too much of the wealth of the church to the reformed clergy, was to invest them with a dangerous power. To give too great a proportion of it to the crown, was a step still more dangerous. At the fame time it was equitable, that the ancient clergy should be maintained durit g their lives; and it accorded with the private interests of the noblemen and gentlemen, who had figured during the reformation, not to confent to any scheme that would deprive them of the spoils of which they had already posfessed themselves out of the ruins of the church, or which

they might full be enabled to acquire.

Thus public as well as private confiderations contri-Bad success buted to separate and divide the lay Protestants and the preachers. The general affembly, therefore, of the church, was not by any means fuccefsful in the views which had called them together at this time, and which they submitted to the convention of effates. Doubts were entertained whether the church had any title to affemble itself. The petition preferred for the complete abolition of idolatry, or for the utter prohibition of the mass, was rejected, notwithstanding all the zeal manifested by the brethren. The request that Mary should give authority to the book of discipline, was not only refused, but even treated with ridicule. The only point pressed by the church which attracted any notice, was its requifition of a provision or a maintenance; but the VOL. XVIII. Part II.

measure proposed for this end was in opposition to all its Sotlard warmest desires.

This measure, however, so unpromising to the preachers in expectation, was found to be full more unfatisfactory on trial. The wealth of the Remith church had been immenfe, but great invasions had been made on it. The fears of the ecclefiallics, on the overthrew of poperv, induced them to engage in fraudulent transactions with their kinfmen and relations; in confequence of which many possessions were conveyed from the church to private hands. For valuable confiderations, leafes of church lands, to endure for many years, or in perpetuity, were granted to strangers and adventurers. Salealso of ecclesiastical property, to a great extent, had been made by the ancient incumbents; and a validity was supposed to be given to these transactions by confirma tions from the pope, who was zealous to affift his votaries. Even the crown itself had contributed to make improper dispositions of the ecclesiastical revenues. Lavmen had been prefented to bishoprics and church-livings, with the power of disposing of the territory in connection with them. In this diffusion of the property of the church, many great acquifitions, and much extensive domain, came to be invested in the nobles and the gentry.

From these causes, the grant of the third of their benefices, made by the ancient ecclefiaftics to the queen, with the burden of maintaining the reformed clergy, was not nearly fo confiderable as might have been expected. But the direction of the scheme being lodged in the queen and the privy-council, the advantage to the crown was flill greater than that bestowed upon the preachers. Yet the carrying the project into execution was not without its inconveniences. There were ftill many opportunities for artifice and corruption; and the full third of the ecclefiaftical benefices, even after all the previous abstractions of them which had been made, could not be levied by any diligence; for the ecclefiaftics often produced falle rentals of their benefices; and the collectors for the crown were not always faithful to the trust reposed in them. The complete produce of the thirds did not amount to a great fum; and it was to contribute towards the expences of the 65x queen, as well as to the support of the preachers. A Provision fcanty proportion went to the latter; and yet the per-made for fons who were chosen to fix their particular stipends the Protewere the firm friends of the reformation. For this businels was committed in charge to the earls of Argyle and Morton, the lord James Stuart, and Maitland of Lethington, with James Mackgill the clerk-register. and Sir John Ballenden the juffice-clerk. One hundred Scottish merks were deemed sufficient for a common minister. To the clergymen of greater interest or confideration, or who exercised their functions in more extenfive parishes, 300 merks were allotted; and, excepting to fuperintendants, this fum was feldom exceeded. To the earl of Argyle, to the lord James Stuart, to Lord Erskine, who had large ecclesiastical revenues, their thirds were usually remitted by the queen; and on the establishment of this furd or revenue, the also granted many penfions to perfons about her court and of her household.

The complaints of the preachers were made with little The whole decency, and did not contribute to improve their condi-party diftion. The coldness of the Protestant laity, and the hu- fatisfied. 4 U

manity

the Prote-Pants.

Scotland, manity flown to the ancient clergy, were deep wounds both to their pride and to their interests. To a mean spirit of flattery to the reigning power, they imputed the defection of their friends; and against the queen they were animated with the bitterest animosity. The poverty in which they were fuffered to remain juffemed all their passions. They industriously sought to indulue their rancour and turbulence; and inveterate habits of infult fortified them with a contempt of authority.

> To the queen, whose temper was warm, the rudeness of the preachers was a painful and endless inquietude, which, while it foftered her religious prejudices, had the good effect of confirming her constancy to her friends, and of keeping alive her gratitude for their activity. The lord James Stuart, who was intitled to her respect and esteem from his abilities, and his proximity to her in blood, had merited rewards and honours by his public fervices and the vigour of his counsels. After his fuccessful discharge of her commission as chief justiciary and lord lieutenant, the could not think of allowing him to descend from these offices, without bestowing on him a folid and permanent mark of her favour. She advanced him to the rank of her nobility, by conferring on him the earldom of Mar. At the fame time the contributed to augment his confequence, by facilitating his marriage with Agnes the daughter of the earl Marifchal; and the ceremonial of this alliance was celebrated with a magnificence and oftentation fo extravagant in that age, as to excite the fears of the preachers left fome avenging judgement or calamity should afflict the land. They exclaimed with virulence against his riotous feafting and banquets; and the malquerades which were exhibited on this occasion, attracting in a ftill greater degree their attention, as being a species of entertainment hitherto unknown in Scotland, and which was favourable to the profaneness of gallantry, they pointed against them the keenest strokes of their censure and indignation.

The abilities of the earl of Mar, the ascendency he maintained in the councils of his fovereign, and the distinctions which he had acquired, did not fail to expose him to uncommon envy. The most desperate of his enemies, and the most formidable, was the earl of Huntly. In their rivalship for power, many causes of disgust had arisen. The one was at the head of the Protestants, An. 1562. the other was the leader of the Papifts. On the death of Francis II. Huntly and the Popish faction had sent a deputation to Mary, inviting her to return to Scotland, and offering to support her with an army of 20,000 men. His advances were treated with attention and civility, but his offer was rejected. The invitation of the Protestants, presented by the earl of Mar, was more acceptable to her. Huntly had advised her to detain his rival in confinement in France till the Catholic religion should be re-established in Scotland. This advice the not only difregarded, but careffed his eveny with particular civilities. On her arrival in her ewn country, Huntly renewed his advances, offering to her to fet up the mass in all the northern counties. He even converfed in a preffing manner upon this subject with her uncles and the French courtiers who attended her. Still no real attention was paid to him. He came to her palace, and was received only with respect. He was lord high chancellor without influence, and a privy counsellor without trust. The earl of Mar had the confidence of his fovereign, and was drawing to him the S.ot's & authority of government. These were cruel mortifications to a man of high rank, inordinate ambition, immenfe wealth, and who commanded numerous and warlike retainers. But he was yet to feel a stroke Hill more severely excruciating, and far more destructive of his confequence. The opulent estate of Mar, which Mary had erected into an earldom, and conferred on his rival, had been lodged in his family for fome time. He confidered it as his property, and that it was never to be torn from his house. This blow was at once to infult most fensibly his pride, and to cut most fatally the finews of his greatnels.

After employing against the earl of Mar those arts He accuses of detraction and calumny which are to common in the lord courts, he diew up and subscribed a formal memorial, Stuart of in which he accused him of aiming at the fovereignty treaton. of Scotland. This paper he pretented to the queen; but the arguments with which he supported his charge being weak and inconclusive, she was the more confirmed in her attachment to her minister. Huntly then addressing himself to the earl of Bothwel, a man disposed to desperate courses, engaged him to attempt involving the earl of Mar and the house of Hamilton in open and violent contention. Bothwell represented to Mar the enmity which had long fubfifted between him and the house of Hamilton. It was an obtracle to his And atgreatness; and while its destruction might raile him to tempts to the highest pinnacle of power, it would be most ac-assassinate ceptable to the queen, who, befide the hatred which him. princes naturally entertain to their fucceffors, was animated by particular causes of offence against the duke of Chatelherault and the earl of Arian. He concluded his exhortation with making an unlimited offer of his most strenuous services in the execution of this flagitions enterprife. The earl of Mar, however, abhorring the balenels of the project, fulpicious of the fincerity of the propofer, or latisfied that his eminence did not require the aid of fuch arts, rejected all his advances. Bothwel, disappointed on one fide, turned himfelf to the other. He practifed with the house of Hamilton to affaffinate the earl of Mar, whom they confidered as their greatest enemy. The business, he said, might be performed with eafe and expedition. The queen was accustomed to hunt in the park of Falkland; and there the earl of Mar, not suspecting any danger, and ill attended, might be overpowered and put to death. The person of the queer, at the same time, might be feized; and by keeping her in custody, a fanction and fecurity might be given to their crime. The integrity of the earl of Arran revolting against this conspiracy, defeated its purposes. Dreading the perpetration of fo cruel an action, and yet fensible of the relolute determination of his friends, he wrote privately to the earl of Mar, informing him of his danger. But the return of Mar to his letter, thanking him for his intelligence, being intercepted by the confpirators, Arran was confined by them under a guard in Kenneilhonse. He effected his escape, however, and made a full discovery of the plot to the queen. Yet as in a But fails matter fo dark he could produce no witnesses and no in his atwritten vouchers to confirm his accusations, he, accord-tempt. ing to the fashion of the times, offered to prove his information, by engaging Bothwel in fingle combat. And though, in his examinations before the privy-council,

653 Honours conferred. on Lord James Stuart.

654 E-mily of the earl of Huntly to wards him

655 Huntly proffes the queen to re, o.e the Pepith religion.

Section his love to the queen, his attachment to the earl of Mar, the atrocity of the scheme he revealed, and, above all, his duty and concern for his father the duke

of Chatelherault, threw him into a perturbation of mind which expressed itself violently in his speech, his countenance, and his actions; yet his declarations, in general, were fo confiftent and firm, that it was thought advisable to take the command of the castle of Dumbarton from the duke of Chatelherault, to confine the other conspirators to different prisons, and to wait the farther discoveries which might be made by time and

accident.

The earl of Huntly, inflamed by thefe disappointments, invented other devices. He excited a tumult while the queen and the earl of Mar were at St Andrew's with only a few attendants; imagining that the latter would fally forth to quell the infurgents, and that a convenient opportunity would thus be afforded for putting him to the fword without detection. The caution, however, of the earl of Mar, defeating this purpose, he ordered some of his retainers to attack him in the evening when he thould leave the queen; but the'e affassins being surprised in their station, Huntly affected to excuse their being in arms in a suspicious place and at a late hour, by frivolous apologies, which,

though admitted, could not be approved.

About this periud, too, letters were received by Mary from the pope and the cardinal of Lorrain, in contequence of the intrigues of the earl of Huntly and the Catholic faction. They prefied her to confider, that while this nobleman was the most powerful of her subjects, he was by far the most zealous in the interests of the church of Rome. They intreated her to flatter him with the hope of her marriage with Sir John Gordon his fecond fon; held out to her magnificent promifes of money and military supplies, if the would fet herseif seriously to recover to power and splendour the ancient religion of her country; and recommended it to her to take measures to destroy the more strenuous Protestants about her court, of whom a roll was transmitted to her, which included the name of her confidant and minister the earl of Mar. These letters could not have reached her at a juncture more unfavourable to their fuccess. The earl of Mar, to whom the communicated them, was encouraged to proceed with the greatest vigour in undermining the defigns and the importance of his enemies.

New incidents exasperated the animosities of the enemies of the earl of Mar and his own. Sir John Gordon and the lord Ogilvie having a private dispute, happened to meet each other in the high street of Edin-burgh. They immediately drew their swords; and the lord Ogilvie receiving a very dangerous wound, Sir John Gordon was committed to prison by the magistrates, The queen, at this time in Stirling, was informed by them of the riot; and while they expressed a fear lest the friends of the prisoner thould rife up in arms to give him his liberty, they mentioned a fufpicion which prevailed, that the partizans of the lord Ogilvie were to affemble themselves to vindicate his quarrel. The queen, in her reply, after commending their diligence, inflructed them to continue to have a watch over their prifoner; made known her defire that the law should take its courfe; and counfelled them to have no apprehenfions of the kindred of the parties at variance, but to rely on the earl of Mar for providing a functional force Scotland. for their protection. Sir John Gordon, however, found means to break from his confinement; and tlying into but eleanes Abordeenshire, filled the retainers of his family with his om precomplaints, and added to the difquiets of his father the for, earl of Huntly.

The queen, on returning to Edinburgh, held a confultation on affirs of state with her privy council; and foun after fet out on a progress to the northern parts of her kingdom. At Aberdeen she was met by the lady Huntly, a woman of deep diffinulation and of refined address; who endeavoured to conciliate her affections. was prodigal of flattery, expressed her zeal for the Popith religion, and let fall infinuations of the great power of her hufband. She then interceded with the queen for forgiveness to her fon; and begged with a keen importunity, that he might be permitted to have the honour to kifs her hand. But Mary having told her, that the favour the had folicited could not be granted till her fon should return to the prison from which he had escaped, and submit to the justice of his country, the lady Huntly engaged that he should enter again into custody, and only intreated, that, instead of being confined at Edinburgh, he should be conducted to the castle of Stirling. This request was complied with; and in the profecution of the business, a court of justiciary being called, Sir John Gordon made his appearance, and acknowledged himself to be the queen's prifoner. The lord Glammis was appointed to conduct him and at-

to the castle of Stirling. But on the road to this for-tempts to trels, he eluded the vigilance of his guards, haltened are bellion back, and gathering 1000 horsemen among his retain-

ers, entrusted his fecurity to the fword.

In the mean time, the queen continued her progress. The earl of Huntly joined himself to her train. His anxiety to induce her to allow him to attend her to his house of Strathbogy was uncommon; his intreaties were even preffed beyond the bounds of propriety. The intelligence arrived of the escape and rebellion of Sir John Gordon. The behaviour of the father and the fon awakened in her the most alarming suspicions. Asfembling her privy-council, who, according to the fashion of those times, constituted her court, and attended her person in her progresses through her dominions; she, with their advice, commanded her heralds to charge Sir John Gordon and his adherents to return to their allegiance, and to furrender to her their houses of strength and castles, under the penalties of high treafon and forfeiture. Difdaining now to go to the house of the earl of Huntly, where, as it afterwards appeared, that nobleman had made fecret preparations to hold her in captivity, the advanced to Invernels by a different route. In the callle of Invernels the propoled to take up her refidence; but Alexander Gordon the deputy governor, a dependent of the family of Huntly, refused to admit her. She was terrified with the prospect of certain and imminent danger. Her attendants were few in number, the town was without walls, and the inhabitants were suspected. In this extremity, some thips in the river were kept in readiness as a last refuge; and the iffued a proclamation, commanding all her loval fubjects in those parts immediately to repair to her for her protection. The Frasers and Monroes came in crowds to make her the offer of their fwords. The Clan Chattan, though called to arms by the earl of Huntly, for-

6:0 Sir John Gord in woundlord Ogilvy, and is apprehended;

Stotland, fook his flandard for that of their fovereign, when they discovered that his intentions were hostile to her. She employed this ftrength in laving flege to the caftle, which furrendered itself on the first affault. The lives of the common foldiers were spared, but the deputy-governor was infantly executed. The queen, full of ap-

prehenfions, returned to Aberdeen.

To intimidate the earl of Huntly, to revenge the troubles which his family had created to the queen, and to convince him that his utter ruin was at hand, a meafure infinitely humiliating was now concerted and put in practice. The earl of Mar refigned the rich estate of that name to the lord Erskine, who laid claim to it as his right; and received in recompense, after its erection into an earldom, the territory of Murray, which made an extensive portion of the possessions of the earl

of Huntly.

The lady Huntly haftened to Aberdeen to throw herfelf at the feet of her fovereign, to make offer of the most humble submissions on the part of her husband, and to avert by every possible means the downfal of his greatness. But all access to the queen was refused her: and the earl of Huntly was fummoned to appear in perfon before the privy council, to answer for his conduct, and to make a full refignation of all his castles and fortreffes. He did not prefent himfelf, and was declared to be in open rebellion. A new proclamation was circulated by the queen to collect a fufficient strength to fubdue the infurgents. The command of her troops was given to the earl of Murray, who put them inflantly in motion. Huntly advancing towards Aberdeen to the earl of give them battle, was informed of their approach. He halted at Corrichie, folacing himfelf with the hope of a decifive victory. The army of the queen was the more numerous; but there were feveral companies in it in whom little confidence could be placed. These the earl of Murray posted in front of the battle, and commanded them to begin the attack. They recoiled on him in diforder, according to his expectation; but a resolute band in whom he trufted, holding out their spears, obliged them to take a different course. Their confusion and slight made Huntly conceive that the day was his own. He therefore ordered his foldiers to throw aside their lances, and to rush on the enemy sword in hand. His command was obeyed, but with no precaution or discipline. When his men came to the place where the earl of Murray had stationed himself, the points of the extended spears of his firm battalion put a termination to their progress. The panic communicated by this unexpected relitance was improved by the vigour with which he preffed the affailants. In their turn they took to flight. The companies of the queen's army which had given way in the beginning of the conflict were now disposed to atone for their misconduct; and taking a share in the battle, committed a signal staughter upon the retainers of the earl of Huntly. This nobleman himfelf expired in the throng of the purfuit. His fons Sir John Gordon and Adam Gordon were made prisoners, with the principal gentlemen who had affilled him.

Mary, on receiving the tidings of this fuccess, discovered neither joy nor forrow. The passions, however, of the earl of Murray and his party were not yet completely gratified. Sir John Gordon was brought immediately to trial, confessed his guilt, and was condemned to fuffer as a traitor. The fentence was ac- Scotland cordingly executed, amidit a multitude of spectators, whole feelings were deeply affected, while they confidered his immature death, the manliness of his spirit. and the vigour of his form. Adam Gordon, upon account of his tender age, was pardoned; and fines were levied from the other captives of rank according to their wealth. The lord Gordon, after the battle of Corrichie, fled to his father-in-law the duke of Chatelherault, and put himfelf under his protection; but was delivered up by that nobleman, all whose endeavours in his favour were ineffectual. He was convicted of treason, and condemned; but the queen was satisfied with confining him in prifon. The dead body of the earl of Huntly was carried to Edinburgh, and kept without burial, till a charge of high treason was preferred against him before the three estates. An oftentatious display was made of his criminal enterprises, and a verdict of parliament pronounced his guilt. His estates, hereditary and moveable, were forfeited; his dignity, name, and memory, were pronounced to be extinct; his armorial entions were torn from the book of arms; and his posterity were rendered unable to en-

joy any offices, honour, or rank, within the realm. While these scenes were transacting, Mary, who was An interfincerely folicitous to establish a secure amity between view prothe two kingdoms, opened a negotiation to effect an in-posed beterview with Elizabeth. Secretary Maitland, whom the tween Maemployed in this bufiness, met with a most gracions re-zabeth, but ception at the court of London. The city of York was in vainappointed as the place where the two queens should express their mutual love and affection, and bind themfelves to each other in an indiffoluble union; the day of their meeting was fixed; the fashion and articles of their

interview were adjusted; and a safe-conduct into England was granted to the queen of Scots by Elizabeth. But in this advanced state of the treaty it was unexpectedly interrupted. The disturbances in France, the perfecution of the Protestants there, and the dangerous confequence which threatened the reformed countries, feemed to require Elizabeth to be particularly on her guard, and to watch with eagerness the machinations of the adversaries of her religion. On these pretences she declined for a time the projected interview; fending to Mary with this apology Sir Henry Sidney, a minister of ability, whom the instructed to dive into the secret views of the Scottish queen. This was a severe disappointment to Mary; but it is reasonable to believe, that Elizabeth acted in the negotiation without fincerity, and on principles of policy. It was not her interest to admit into her kingdom a queen who had pretenfions to her crown, and who might there ftrengthen them; who might raife

the expectations of her Catholic subjects, and advance

herfelf in their efteem; and who far furpaffedher in beau-

ty, and in the bewitching allurements of conversation

and behaviour. Amidit affairs of great moment, a matter of fmaller Chatelard confequence, but which is interesting in its circum- falls in love stances, deserves to be recorded. Chatelard, a gentle- with the man of family in Dauphiny, and a relation of the che-queen-valier de Bayard, had been introduced to Queen Mary by the ficur Damville, the heir of the house of Montmorency. Polified manners, vivacity, attention to pleafe, the talent of making verles, and an agreeable figure, were recommendations of this man. In the court they

562 Barl of Huntly defeated by Murray.

665

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Mary inclines to a

fecond

marriage,

and is ad-

a number

of fuitors.

An. 1563.

death.

Scotland, drew attention to him. He made himfelf necessary in all parties of pleasure at the palace. His assiduities drew on him the notice of the queen; and, at different times, the did him the honour of dancing with him. His complaifance became gradually more familiar. He entertained her with his wit and good humour; he made verses on her beauty and accomplishments; and her politeness and condescension instilled into him other fentiments than those of gratitude and reverence. He could not behold her charms without feeling their power: and instead of stiding in its birth the most dangerous of all the passions, he encouraged its growth. In an unhappy moment, he entered her apartment; and, concealing himfelf under her bed, waited the approach of night. While the queen was undreffing, her maids discovered his situation, and gave her the alarm. Chatelard was dismissed with disgrace, but foon after received her pardon. The frenzy, however, of his love compelling him to repeat his crime, it was no longer proper to show any compassion to him. The delicate fituation of Mary, the noise of these adventures, which had gone abroad, and the rude suspicions of her subjects. required that he should be tried for his offences and punished. This imprudent man was accordingly condemned to lose his head; and the sentence was put in execution.

The difagreeable circumstances in which Mary found herself involved from her quarrel with Elizabeth, the excessive bigotry and overbearing spirit of her Protestant. fubjects, together with the adventure of Chatelard, and the calumnies propagated in confequence of it, deterdreffed by mined her to think of a fecond marriage. Her beauty and expectations of the crown of England, joined to the kingdom which the already poffelled, brought her many fuitors. She was addressed by the king of Sweden, the king of Navarre, the prince of Condé, the duke of Ferrara, Don Carlos of Spain, the archduke Charles of Austria, and the duke of Anjou. Her own inclination was to give the preference, among these illustrious lovers, to the prince of Spain; but her determination, from the first moment, was to make her withes bend to other confiderations, and to render her decision on this important point as agreeable as possible to Queen Elizabeth, to the English nation, and to the Protestants in both kingdoms. Her fuccession to the crown of England was the object nearest her heart; and Elizabeth, who wished to prevent her from marrying altogether, contrived to impress on her mind an opinion that any foreign alliance would greatly obstruct that much defired event. She therefore pitched on two of her own fubjects, whom the fuccestively recommended as fit matches for the oueen of Scots; and the promifed, that on her acceptance of either her right of inheritance should be inquired into and declared. Lord Robert Dudley, afterwards earl of Leicester, was the first perfon proposed; and except a manly face and fine figure he had not one quality that could recommend him to the Scottish princes. Whilst Mary received this suitor with fome degree of composure, the did not altogether reprefs her fcorn. " She had heard good accounts (the owned) of the gentleman; but as Queen Elizabeth had faid, that in proposing a husband to her, she would confult her honour, the asked what honour there could be in marrying a fubject?" The English queen then propofed to Mary another fuitor, left her thoughts should

return to a foreign alliance. This was Lord Darnley, Scotland. of the house of Stuart itself, whose birth was almost equal to her own, and whom the Scottish princess was she maken induced to accept as a husband by motives which we choice of have detailed elsewhere. (See MARY.) Elizabeth, Lord Darnhowever, was not more fincere in this propofal then in ley. the former; for after permitting Darnley and his father the earl of Lenox to vifit Scotland merely with the view of diverting the attention of the queen from the continent, the threw, in the way of the marriage, every obflacle which art and violence could contrive. When the found Mary fo much entangled, that the could fearcely retract or make any other choice than that of Darnley, Elizabeth attempted to prevent her from going farther; and now intimated her disapprobation of that marriage, which she herself had not only originally planned, but, in these latter stages, had forwarded by every means in her power. The whole council of Elizabeth declared against the marriage. Even from her own subjects Mary met with confiderable opposition. An inveterate enmity had taken place between the duke of Chatelherault and the earl of Lenox, in consequence of which the former deferted the court, and very few of the Hamiltons repaired to it. The lord James Stuart, now earl of Murray, fought to promote the match with Lord Dudley. In confequence of this he was treated openly with diffespect by the earl of Lenox; he lost the favour of his fovereign, and Darnley threatened him with his vengeance when he should be married to the queen. John Knox in the mean time behaved in the Extravamost furious manner, forgetting not only the meek and gant behapeaceable behaviour of a Christian, but the allegiance your of of a subject. This preacher even interfered with the marriage of his sovereign. He warned the nobility, that if they allowed a Papist or an infidel to obtain her person and the government of Scotland, they would be guilty, to the full extent of their power, of banishing Jesus Christ from the kingdom, of bringing down on it the vengeance of God, of being a curse to themselves, and of depriving their queen of all comfort and consolation. As Darnley was a Papift, he was of confequence execrated by the whole body of Protestants, laity as well as clergy; while, on the other hand, he was fupported by the earls of Athol and Caithness, the lords Ruthven and Hume, and the whole Popish faction.

neither Lord Darnley himself, nor his father the earl of Lenox, had any talents for bufiness; and as they naturally had the direction of the queen's affairs, it is no wonder that thefe were very ill managed. But a fource of opposition, more violent than any imperfections of their own, rose against them in the attachment which they discovered to a person on whom the queen had of late bestowed her favour with an imprudent prodigality. David Rizzio from a mean origin had raifed himself to Account of diffinguished eminence. He was born at Turin, where zio. his father earned a fubfiftence as a mufician. Varieties of fituation and adventure, poverty, and misfortunes, had taught him experience. In the train of the count de Morette, the ambaffador from the duke of Savoy, he had arrived in Scotland. The queen, defirous of completing her band of music, admitted him into her service. In this humble station he had the dexterity to attract her attention; and her French fecretary falling into difgrace, from negligence and incapacity, he was promoted

It was exceedingly unfortunate for the queen, that

Scotland, to discharge the duties of that office. A necessary and frequent admillion to her company afforded him now the fullest opportunity of recommending himself to her; and while the approved his manners, the was fentible of his fidelity and his talents. His mind, however, was not fufficiently vigorous to bear fuch prosperity. Ambition grew on him with preferment. He interfered in affairs of moment, intruded himself into the conventions of the nobles at the palace, and was a candidate for greatness. The queen consulted him on the most difficult and important business, and intrusted him with real power. The fuppleness, fervility, and unbounded complaifance which had characterised his former condition, were exchanged for infolence, pride, and oftentation. He exceeded the most potent barons in the stateliness of his demeanour, the sumptuousness of his apparel, and the fplendour of his retinue. The nobles, while they despited the lowness of his birth, and detested him as a foreigner and a favourite, were mortified with his grandeur, and infulted with his arrogance. Their anger and abhorrence were driven into fury; and while this undeferving minion, to uphold his power, courted Darnley, and with officious affiduities advanced his fuit with the queen, he haltened not only his own ruin, but laid the foundation of cruel outrages and of public calamity.

To the earl of Murray the exaltation of Rizzio, fo offensive in general to the nation, was humiliating in a more particular degree. His interference for the earl of Leicester, the partiality he entertained for Elizabeth, his connections with Secretary Cecil, and the favour he had shown to Knox, had all contributed to create in Mary a fuspicion of his integrity. The practices of Darnley and Rizzio were thence the more effectual; and the fullest weight of their influence was employed to undermine his power. His passions and disgusts were violent; and in his mind he meditated revenge. Mary, aware of her critical fituation, was folicitous to add to her strength. Bothwel, who had been imprisoned for conspiring against the life of the earl of Murray, and who had escaped from confinement, was recalled from France; the earl of Sutherland, an exile in Flanders, was invited home to receive his pardon; and George Gordon, the fon of the earl of Huntly, was admitted to favour, and was foon reinstated in the wealth and ho-

nours of his family. As foon as Bothwel arrived, the earl of Murray infifted that he should be brought to trial for having plotted against his life, and for having broke from the place of his confinement. This was agreed to; and on the day of trial Murray made his appearance with 800 of his adherents. Bothwel did not choose to contend with fuch a formidable enemy; he therefore fled to France. and a protestation was made, importing that his fear of violence had been the cause of his flight. The queen commanded the judge not to pronounce fentence. Murray complained loudly of her partiality, and engaged more deeply in cabals with Queen Elizabeth. Darnlev, in the mean time, preffed his fuit with eagernefs. The queen used her utmost endeavours to make Murray fubfcribe a paper expressing a consent to her marriage; but all was to no purpose. Many of the nobility, however, subscribed this paper; and the ventured to summon a convention of the effates at Stirling, to whom the opened the business of the marriage; and who approved her choice, provided the Protestant should continue to Sa d'and. be the established religion of the country.

In the mean time ambaffadors arrived from England, with a meffage importing Elizabeth's entire difapprobation and ditallowance of the queen's marriage with Lord Darnley. But to these ambassadors Mary replied only, that matters were gone too far to be recalled; and that Elizabeth had no folid cause of displeasure, fince, by her advice, the had fixed her affections not on a foreigner, but on an Englishman; and since the person she favoured was descended of a distinguished lineage, and could boaft of having in his veins the royal blood of both kingdoms. Immediately after this audience the created Lord Darnley a lord and a knight. The oath of knighthood was administered to him. He was made a baron and a banneret, and called Lord Armanach. He was belted earl of Rofs. He then promoted 11 gentlemen to the honour of knighthood, and did homage to the queen, without any refervation of duty to the crown of England, where his family had for a long time refided. His advancement to be duke of Albany was delayed for a fhort time; and this was fo much refented by him, that, when informed of it by the lord Ruthven, he threatened to flab that nobleman.

In the mean time the day appointed for the affembly of parliament, which was finally to determine the fubject of the marriage, was now approaching. The earl of Murray, encouraged by the apparent firmness of Elizabeth, goaded on by ambition, and alarmed with the approbation bestowed by the convention of the estates on the queen's choice of Lord Darnley, perceived that the moment was at hand when a decifive blow should be struck. To heighten the refentments of his friends, and to justify in some measure the violence of his projects, he affected to be under apprehenfions of being affassinated by the lord Darnley. His fears were founded abroad; and he avoided going to Perth, where he affirmed that the plot against him was to be carried into execution. He courted the enemies of Darnley with An affociaunceasing assiduity; and united to him in a confederacy tion against the duke of Chatelherault, and the earls of Argyle, the queen Rothes, and Glencairn. It was not the fole object of and Darntheir affociation to oppose the marriage. They engaged ley. in more criminal enterprifes. They meditated the death of the earl of Lenox and the lord Darnley; and while the queen was on the road to Calander place to vifit the lord Livingston, they proposed to intercept her and to hold her in captivity. In this state of her humiliation, Murray was to advance himfelf to the government of the kingdom, under the character of its regent. But Mary having received intelligence of their conspiracy, the earl of Athol and the lord Ruthven fuddenly raifed 300 men to protect her in her journey. Defeated in this scheme, the earl of Murray and his associates did not relinquish their cabals. They projected new achievements; and the nation was filled with alarms, fuspicions, and terror.

Amidst the arts employed by the Scottish malcon-Disturbantents to inflame the animofities of the nation, they for-ces raifed got not to infill on the dangers which threatened the by the Pro-Protestant religion from the advancement of Lord Darn- testants. lev, and from the rupture that must ensue with England. Letters were everywhere dispersed among the faithful, reminding them of what the eternal God had wrought for them in the abolition of idolatry, and ad-

The earl of Murray queen's favour.

An. 1505.

Sectland, mornishing them to oppose the restoration of the mass. A furplication was prefented to the queen, complaining of idolaters, and is fifting on their punishment. In the present juncture of affairs it was received with unusual refrect : and Mary instructed the Popish ecclefiastics to abilain from giving offence of any kind to the Proteftants. A prietl, however, having celebrated the mass, was taken by the brethren, and exposed to the insults and fury of the populace at the market-place of Edinburgh, in the garments of his profession, and with the chalice in his hand; and the queen having given a check to this tumultuous proceeding, the Proteflants, rifing in their wrath, were the more confirmed in the belief that the meant to overthrow their religion. The most learned and able of the clergy held frequent confultations together; and while the nation was diffurbed with dangerous ferments, the general affembly was called to deliberate on the affairs of the church. Their hope of fuccess being proportioned to the difficulties in the fituation of the queen, they were the lefs forupulous in forming their refolutions; and the commissioners, whom they deputed to her, were ordered to demand a

parliamentary ratification of their defires.

mands.

They infined, that the mass, with every remnant of popery, should be univerfally suppressed throughout the kingdom; that in this reformation, the queen's person and household should be included; and that all Papitls and idolaters should be punished on conviction according to the laws. They contended, that perfons of every description and degree should refort to the churches on Sunday, to join in prayers, and to attend to exhortations and fermons; that an independent provision should be assigned for the support of the present clergy, and for their fuccesfors; that all vacant benefices should be conferred on perfors found qualified for the ministry, on the trial and examination of the fuperintendants; that no bishopric, abbey, priory, deanery, or other living, having many churches, should be bestowed on a fingle person; but that, the plurality of the foundation being diffolved, each church should be provided with a minifter; that glebes and manfes should be allotted for the residence of the ministers, and for the reparation of churches; that no charge in schools or universities, and no care of education, either public or private, should be intruited to any perfon who was not able and found in doctrine, and who was not approved by the superintendants; that all lands which had formerly been devoted to hospitality, should again be made subservient to it; that the lands and rents which formerly belonged to the monks of every order, with the annuities, alterages, obits, and the other emoluments which had appertained to priesls, should be employed in the maintenance of the poor and the upholding of schools; that all horrible crimes, fuch as idolatry, blafphemy, breaking of the fabbath, witchcraft, forcery, inchantment, adultery, manifest whoredom, the keeping of brothels, murder, and oppression, should be punished with severity; that judges should be appointed in every district, with powers to pronounce fentences and to execute them; and, in fine, that for the eafe of the labouring husband nen, some order should be devised concerning a reasonable payment of the tythes.

To these requisitions, the queen made an answer full Moderation of moderation and humanity. She was ready to agree with the three estates in establishing the reformed religion over the fubiects of Scotland; and the was fleadily Scotlard. refolved not to hazard the life, the peace, or the fortune, of any person whatever on account of his opinions. A to herfelf and her household, the was perfuaded that her people would not urge her to adopt tenets in contradiction to her own conscience, and thereby involve her in remorfe and unearnefs. She had been educated and brought up in the Romifli faith; the conceived it to be founded on the word of God; and the was defirous to continue in it. But, fetting afide her belief and religious duty. the ventured to affure them, that the was convinced from political reasons, that it was her interest to maintain herself firm in the Catholic perfuation. By departing from it, the would forfeit the amity of the king of France, and that of other princes who were now firongly attached to her; and their dilaffection could not be repaired or compensated by any new alliance. To her subjects the left the fullest liberty of conscience; and they could not furely refuse to their fovereign the fame right and indulgence. With regard to the patronage of benefices, it was a prerogative and property which it would ill become her to violate. Her necessities, and the charge of her royal dignity, required her to retain in her hands the patrimony of the crown. After the purposes, however, of her station, and the exigencies of government, were fatisfied, the could not object to a fpecial affigument of revenue for the maintenance of the ministry; and, on the fubicat of the other articles which had been submitted to her, the was willing to be directed by the three estates of the kingdom, and to concur in the refolutions which thould appear to them most reafonable and expedient.

The clergy, in a new affembly or convention, express 675 fed great displeasure with this return to their address. The Prote They took the liberty of informing the queen, that the differented doctrines of the reformation which the refused to adopt, with her were the religion which had been revealed by Jesus answer.

Christ, and taught by his aposlles. Popery was of all persuasions the least alluring, and had the fewest recommendations. In antiquity, confent of people, authority of princes, and number of profelytes, it was plainly inferior to Judaism. It did not even rest on a soundation fo folid as the doctrines of the Koran. They required her, therefore, in the name of the eternal God, to embrace the means of attaining the truth, which were offered to her in the preaching of the word, or by the appointment of public disputations between them and their adverfaries. The terrors of the mass were placed before her in all their deformity. The performer of it, the action itself, and the opinions expressed in it, were all pronounced to be equally abominable. To hear the mass, or to gaze on it, was to commit the complicated crimes of facrilege, blafphemy, and idolatry. Her delicacy in not renouncing her opinions from the apprehension of offending the king of France and her other allies, they ridiculed as impertinent in the highest degree. They told her, that the true religion of Christ was the only means by which any confederacy could endure; and that it was far more precious than the alliance of any potentate whatever, as it would bring to her the friendship of the King of kings. As to patronages, being a portion of her patrimony, they intended not to defraud her of her rights : but it was their judgement, that the superintendants ought to make a trial of the qualifications of candidates for the ministry;

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Sculand, and as it was the duty of the patron to prefent a perfon to the benefice, it was the business of the church to manage his institution or collation. For without this restraint, there would be no security for the fitness of the incumbent; and if no trials or examinations of minifters took place, the church would be filled with mifrule and ignorance. Nor was it right or just that her majefty should retain any part of the revenue of benefices; as it ought to be all employed for the uses of the clergy, for the purposes of education, and for the support of the poor. And as to her opinion, that a suitable affignment should be made for them, they could not but thank her with reverence: but they begged leave to folicit and importune her to condescend on the particulars of a proper scheme for this end, and to carry it into execution; and that, taking into due confideration the other articles of their demands, she would study to comply with them, and to do justice to the religious esta-

blithment of her people.

From the fears of the people about their religion, disturbances and infurrections were unavoidable; and before Mary had given her answer to the petitions or address of the clergy, the Protestants, in a formidable food quellnumber, had marched to St Leonard's Craig; and, dividing themselves into companies, had chosen captains to command them. But the leaders of this tumult being apprehended and committed to close custody, it fublided by degrees; and the queen, on the intercession of the magistrates of Edinburgh, instead of bringing them to trial, gave them a free pardon. To quiet, at the fame time, the apprehensions which had gone abroad, and to controvert the infidious reports which had been industriously spread of her inclination to overturn the reformed doctrines, the repeatedly iffued proclamations, affuring her subjects, that it was her fixed determination not to molest or diffurb any person whatever on account of his religion or conscience; and that she had never prefumed even to think of any innovation that might endanger the tranquillity or prejudice the happiness of the

beth.

commonwealth. While Mary was conducting her affairs with difcern-Intrigues of ment and ability, the earl of Murray and his confedeliousnobles rates continued their confultations and intrigues. After with Eliza- their disappointment in the conspiracy against the queen and the lord Darnley, they perceived that their only hope of fuccess or security depended on Elizabeth; and as Randolph had promited them her protection and affiftance, they forupled not to address a letter to her, ex-plaining their views and fituation. The pretences of their hostility to their sovereign which they affected to infift on, were her fettled defign of overturning the Protestant religion, and her rooted defire to break off all correspondence and amity with England. To prevent the accomplishment of these purposes, they said, was the object of their confederacy; and with her support and aid they did not doubt of being able effectually to advance the emolument and advantage of the two kingdoms. In the present slate of their affairs, they applied not, however, for any supply of troops. An aid from her treasury only was now necessary to them; and they engaged to bestow her bounty in the manner most agreeable to her inclinations and her interests. The pleasure with which Elizabeth received their applications was equal to the averfion she had conceived against the queen of Scots. She not only granted them the re-

lief they requested, but affured them by Randolph of Scotland. her efteem and favour while they should continue to uphold the reformed religion and the connection of the two nations. Flattered by her affurances and generofity, they were itrenuous to gain partizans, and to difunite the friends of their fovereign; and while they were fecretly preparing for rebellion, and for trying their strength in the field, they disteminated among the people the tenets, That a Papist could not legally be their king; that the queen was not at liberty of herfelf to make the choice of a husband; and that, in a matter fo weighty, the ought to be entirely directed by the determination of the three estates assembled in parlia-

Elizabeth, at the same time, carrying her dissimu-Treachers lation to the most criminal extremity, commanded Ran-of Elizadolph to ask an audience of Mary; and to counsel her beth. to nourish no suspicions of the earl of Murray and his friends; to open her eyes to their fincerity and honour; and to call to mind, that as their fervices had hitherto preserved her kingdom in repose, her jealousies of them might kindle it into combustion, make the blood of her nobles flow, and hazard her perfon and her crown. Full of altonishment at a message so rude and improper, the queen of Scots defired him to inform his miffrefs, that the required not her instructions to distinguish between patriotism and treachery; that she was fully sensible when her will or purpose was refisted or obeyed; and that the possessed a power which was more than sufficient to repress and to punish the enormities and the crimes of her subjects. The English resident went now to the earl of Lenox, and the lord Darnley, and charged them to return to England. The former expressed an apprehension of the feverity of his queen, and fought an affurance of her favour before he could venture to vifit her dominions. The latter, exerting greater fortitude, told him, that he acknowledged no duty or obedience but to the queen of Scots. The refident treating this answer as difrespectful to Elizabeth, turned his back upon the lord Darnley, and retired without making any reverence, or bidding him adieu.

The behaviour of Elizabeth, fo fierce and fo perfidious, was well calculated to confirm all the intentions of Mary; and this, doubtless, was one of the motives by which she was actuated. But while the queen of Scots was eager to accomplish her marriage, she was not inattentive to the rifing troubles of her country. The parliament which the had appointed could not now be held: it was therefore prorogued to a more distant period; and the violence of the times did not then permit it to affemble. By letters the invited to her, with all their retainers, the most powerful and most eminent of her subjects. Bothwel was again recalled from France; and by general proclamation the fummoned to her standard the united force of her kingdom. The caffle of Edinburgh was likewife amply provided with flores and ammunition, that, in the event of misfortunes, it might afford her a retreat and defence. The alacrity with which her fubiects flocked to her from every quarter, informed her of her power and popularity; and while it ftruck Murray and his adherents with the danger to which they were exposed, it declared to them the opinion entertained by the nation of the iniquity and the felfiftness of their proceedings.

On the 29th of July 1565, the ceremony of mar-

Marri ge of Mary with Lord Darnley. 680 He is proelaimed king of

Scotland.

England.

Scotland, riage between the queen and Lord Darnley was performed. The latter had been previously created duke of Albany. The day before the marriage, a proclemation was published, commanding him to be styled king of the directed in the names of her hutband and herfelf. The day after it, a new proclamation was iffued confirming this act : he was pronounced king by the found of trumpets, and affociated with the queen in her government. This measure feems to have been the effect of the extreme love the queen had for her hufband, which did not permit her to see that it was an infringement of the constitution of the kingdom; though perhaps she might also be urged to it by the pressing eagerness of Rizzio. The earl of Murray made loud complaints, remonstrated, that a king was imposed on the nation without the conient of the three estates, and called on the nation to arm against the beginnings of tyranny. The malecontents accordingly were immediately in arms; but their fuccess was not answerable to their wishes. The bulk of the nation were fatisfied with the good intentions of their fovereign, and the herfelf took the earlieft opportunity of crushing the rebellion in its infancy. The earl of Murray was declared a traitor; and fimilar steps were taken with other chiefs of the rebels. She The rebellious nobles then took the field against them at the head of a considerable army: and having driven them from one place to another, obliged them at last to take refuge in England. Queen Elizabeth received them with that duplicity for which her conduct was fo remarkable. Though the herfelf had countenanced, and even excited them to revolt, the refused to give an audience to their deputies. Nay, the even caused them to iffue a public declaration, that neither she, nor any person in her name, had ever excited them to their rebellious practices. Yet, while the public behaviour of Elizabeth was fo acrimonious, the afforded them a fecure retreat in her kingdom, treated the earl of Murray in private with respect and kindness, and commanded the earl of Bedford to supply him with money. Mary, however, resolved to proceed against the rebels with an exemplary rigour. The fubmissions of the duke of Chatel-

herault alone, who had been less criminal than the rest. were attended to. But even the favour which he obtained was precarious and uncertain; for he was com-VOL. XVIII. Part II.

fome time into foreign countries. A parliament was called; and a fummons of treason being executed against the earls of Argyle, Glencairn, and Rothes, wi h others of the principal rebels, they were commanded to appear before the three estates : in default of which their lives

In the mean time Thromorton the English ambasfador folicited the pardon of the rebels; which Mary was at first inclined to grant. By the persuasion of the Mary accourt of France, however, the was not only induced to treaty of proceed against them with rigour, but ac eded to the Bayonne. traty of Bayonne, by which the destruction of the Protestants was determined. This measure filled the whole court with terror and difmay. The rebels were now rendered desperate, they were ready to engage in the purpoles but too eafy. Violent diguits h d taken place observeen the queen and her hulband. Her fondners had between been excellive; but the foon perceived that the qualities the queen the queen and her hulband. of his mind were not proportioned to his perfonal accommand her philiments. He was proud, diffainful, and fufpicious, huband. No perfuafions could carreed his obtlinacy; and he was at the fame time giddy and oblitiate, infelent and mean. The queen in confequence began to thow an indifference ing the like indifference towards her, and engaging in low intrigues and amours, indulging himself in dislipation and riot, &c. The define of dominion was his ruling capacity for exercifing his power to any good purpofe, at present a proper object for the machinations of the rebils, and readily entered into an agreement with them to depose the queen; vainly thinking by that means to secure the crown to himself. As the parliament was foon to affemble, in which the rebels had every reafon to believe that they would be condemned for high treafon, it was necessary that the kingdom hould be thrown into disorder before that time, otherwise their sate was inevitable. Practifing on the imbecility of Darnley, The king they perfuaded him that a criminal correspondence sub-conspires the destrucfilled between the queen and David Rizzio (R). For the defirment filled between the queen and David Rizzio (R). this reason the king resolved on his destruction; and the vid Rizzio.

conspirators with the rebellious

An. 1566.

(R) That there fubfifted a criminal intercourse between Mary and Rizzio is a scandal which is now given up by her enemies. It feems to reft on the authority of Buchanan and Knox; and their evidence in this cale is clearly of no weight, not only from their being the firenuous partifans of her adversaries, but from the multitude of falsehoods which they anxiously detail to calumniate her. The love she felt for Darnley was extreme, and their acquaintance commenced a month or two after the appointment of Rizzio to be her fecretary for French aff irs. She became pregnant foon after her marriage; and it was during her pregnancy that Rizzio was affaffinated. These are striking prefumptions in her favour. And what feems to put her innocence out of all question, is the silence of the spies and refidents of Elizabeth with regard to this pretended amour; for, if there had been any thing real in it, they could not have made their court to their queen more effectually than by declaring to her its particulars; and their want of delicacy, so observable in other circumstances, would have induced them on this occasion to give the greatest foulness and deformity to their information.

It appears that Rizzio was ill favoured, and of a difagreeal le form. Buchanan fays of him, "Non faciem cultus honestabat, sed facies cultum destructat. Hist. Scot. lib. xvii. This expression is very strong; but it would have little weight if other authors had not concurred in giving a fimilar defeription of Rizzio. In a book intitled, "Le Livre de la Morte de la Reyne d'Ecosse, and printed in t'e year 1587, he is said to be "difgracié de corps." Caufin, ap. Jebb, p. 37. This work, too, while it records the unkindness of nature to his person, has observed, that

Sectand, conspirators hoped thus not only to get an indemnity to themselves, but to effect a total revolution at court, and the entire humiliation of Bothwel, Huntly, and Athol, who were the affociates of Rizzio. In order to fave themselves, however, they engaged the king to subscribe a bond, affirming that the project of affaffinating Rizzio was altogether of his own devising; acknowledging that he had folicited them to take a part in it, from the apprehensions that retistance might be made to him; and agreeing, on the word and honour of a prince, to protect and secure them against every hazard and injury to which they might be exposed from the achievement of his enterprife. Having procured this fecurity, and having allured the earl of Lenox the king's father to approve of their measures, they adjusted the method of the projected murder; and dispatched a messenger to the English frontier, advertising the earl of Murray and the rebels of their intentions, and inviting them to return to the court.

Rizzio cruelly murdered.

On the 9th day of March, about feven o'clock in the evening, armed men, to the number of 500, furrounded the palace of Holyroodhouse. The earl of Morton and the lord Lindfay entered the court of the palace, with 160 persons. The queen was in her chamber at fupper, having in her company her natural fifter the countefs of Argyle, her natural brother Robert commendator of Holyroodhouse, Beton of Creich master of the household, Arthur Erskine, and David Rizzio. The king entering the apartment, feated himfelf by her fide. He was followed by the lord Ruthven, who being wasted with fickness, and cased in armour, exhibited an appearance that was hideous and terrible. Four ruffians attended him. In a hollow voice he commanded Rizzio to leave a place which did not become him. The queen, in aftonishment and consternation, applied to the king to unfold to her this mysterious enterprise. He affected ignorance. She ordered Ruthven from her presence, under the penalty of treason; declaring at the fame time, that if Rizzio had committed any crime, the would produce him before the parliament, and punish him according to the laws. Ruthven drawing his dagger, advanced towards Rizzio. The queen role to make an exertion of her authority. The unfortunate firanger laid hold of her garments, crying out for justice and mercy. Other conspirators, rushing into the chamber, overturned the table, and increased the difmay and cunfusion. Loaded pistols were presented to the bosom of the queen. The king held her in his arms. George Douglas, fnatching the dagger of his fovereign, plunged it into the body of Rizzio. The wounded and screaming victim was dragged into the antichamber; and fo eager were the affifins to complete their work, that he was torn and mangled with 56 wounds.

While the queen was preffing the king to fatisfy her inquiries into the meaning of a deed so execrable, Ruthven returned into their presence. She gave a full vent Scotland. to indignation and reproach. Ruthven, with an intolerable coldness and deliberation, informed her, that Rizzio had been put to death by the counsel of her hufband, whom he had dishonoured; and that by the perfuafion of this minion the had refused the crown-matrimonial to the king, had engaged to re-establish the ancient religion, had refolved to punish the earl of Murray and his friends, and had entrutted her confidence to Bothwel and Huntly, who were traitors. The king, taking the part of Ruthven, remonstrated against her proceedings, and complained that from the time of her familiarity with Rizzio, the had neither regarded, nor entertained, nor trufted him. His fuspicions and ingratitude shocked and tortured her. His connection with the conspirators gave her an ominous anxiety. Apprehensions of outrages still more atrocious invaded her. In these agitated and miserable moments she did not lose herself in the helplessness of forrow. The lostiness of her fpirit communicated relief to her; and wiping away her tears, the exclaimed, that it was not now a feafon for lamentation, but for revenge.

The earls of Huntly, Bothwel, and Athol, the lords Fleming and Levingston, and Sir James Balfour, who were obnoxious to the conspirators, and at this time in the palace, found all refistance vain. Some of them eluding the vigilance of Morton, made their escape; and others were allowed to retire. The provost and magistrates of Edinburgh getting intelligence of the tumult, ordered the alarm bell to be rung. The citizens, The queen apprehensive and anxious, approached in crowds to in-confined quire into the welfare of their fovereign; but the was and threatnot permitted to address herself to them. The con-ened. spirators told her, that if she presumed to make any harangue, they would "cut her in pieces, and cast her over the walls." The king called to the people that fhe was well, and commanded them to disperse. The queen was thut up in her chamber, uncertain of her fate, and without the confolation or attendance of her

women. In the morning a proclamation was iffued by the king, without the knowledge of his queen, prohibiting the meeting of parliament, and ordering the members to retire from the city. The rebellious lords now returned from England, and arrived at Edinburgh within 24 hours after the affaffination of Rizzio. The She endeaqueen, knowing of how much confequence it was for yours in her to gain the earl of Murray, invited him to wait vain to gain on her. Notwithstanding the extreme provocation Murray. which she had met with, Mary so far commanded her passions, that she gave him a favourable reception. After informing him of the rudeness and severity of the treatment the had received, the queen observed, that if he had remained in friendship with her at home, he would have protected her against such excesses of

hardship

he was in his old age when he made a figure in the court of Mary. " Elle traittoit ordinairement avec David Riccio son secretaire, homme aagé et prudent, qui possedoit son oreille." Ibid. And other authors give their testimonies to the fame purpole.

It is probable that the panegyrials of Mary exaggerate fomewhat the imperfections as well as the good qualities of Rizzio. But there feems in general to be no reason to doubt his fidelity and talents, any more than his ugliness and femility. He had therefore a better title to be her fecretary than her lover. It is an abfurdity to think that a queen fo young and beautiful would yield herfelf to deformity and old age.

Scotland, hardfhip and infult. Murray, with a hypocritical compassion, thed abundance of tears; while the queen feemed to entertain no doubt of his fincerity, but gave him room to hope for a full pardon of all his offences. In the mean time, however, the conspirators held frequent confultations together, and in these it was debated, whether they should hold the queen in perpetual captivity, or put her to death; or whether they should content themselves with committing her to close custody in Stirling caftle till they should obtain a parliamentary fanction to their proceedings, establish the Procestant religion by the total overthrow of the mass, and invest the king with the crown-matrimonial and the govern-

688 But preking to abandon the cause

ment of the kingdom. Mary now began to perceive the full extent of her vails on the wretchedness; and therefore, as her last resource, anplied to the king, whom the treated with all those blandithments usually employed by the fair fex when they want to gain the afcendency over the other. The king, of the conwho, with all his faults, had a natural facility of temper, was eafily gained over. The confpirators were alarmed at his coldness, and endeavoured to fill his mind with fears concerning the duplicity of his wife : but, finding they could not gain their point, they at last began to treat for an accommodation. The king brought them a meffage, importing, that Mary was disposed to bury in oblivion all memory of their transgressions; and he offered to conduct them into her presence. The earls of Murray and Morton, with the lord Ruthven, attended him into her presence; and, falling on their knees before the queen, made their apologies and fubmiffions. She commanded them to rife; and having defired them to recollect her abhorrence of cruelty and rapacity, the affured them with a gracious air, that inflead of defigning to forfeit their lives, and possess herself of their estates, the was inclined to receive them into favour, and to grant a full pardon, not only to the nobles who had come from England, but to those who had affaffinated David Rizzio. They were accordingly ordered to prepare the bonds for their fecurity and forgiveness, which the queen promifed to take the earliest opportunity of fubscribing; but in the mean time the king obferved, that the conspirators ought to remove the guards eso which they had placed around the queen, that all fu-Andefcapes spicion of restraint might be removed. This measure from them could not with any propriety be opposed, and the guards were therefore dismiffed; on which the queen,

that very night, left her palace at midnight, and took the road to Dunbar, accompanied by the king and a few attendants.

The news of the queen's escape threw the conspirators into the utmost consternation; as she immediately iffued proclamations for her fubjects to attend her in arms, and was powerfully supported. They sent therefore the lord Semple, requesting, with the utmost humility, her subscription to their deeds of pardon and fecurity; but to this meffage the returned an unfavourable answer, and advanced towards Edinburgh with an army of 8000 men. The conspirators now fled with the utmost precipitation. Even John Knox retired to The rebel- Kyle till the fform flould blow over. On the queen's lious nobles arrival at Edinburgh, a privy council was inflantly callare decla- ed, in which the conspirators were charged to appear red traitors as guilty of murder and treason; their places of strength

were ordered to be furrendered to the officers of the

crown; and their estates and possessions were made it- Scotland able to confiscation and forfeiture.

But while the queen was thus eager to punish the conspirators, the was sensible that so many of the nobility, by uniting in a common cause, might raise a powerful party in opposition to her; for which reason the endeavoured to detach the earl of Murray from the reft, by making him offers of pardon. Sir James Melvil accordingly pledged lamfelf to produce his pardon and that of his adherents, if he would separate from Morton and the confpirators. He accordingly became cold and distant to them, and exclaimed against the murder as a most execrable action; but notwithstanding his affected anger, when the confpirators fled to England, he furnished them with letters of recommendation to the earl of Bedford. After the flight of the confpi-Shameful rators, the king thought it necessary for him to dehy prevarica his having any share in the action. He therefore embraced an opportunity of declaring to the privy council his total ignorance of the conspiracy against Rizzio; and not fatisfied with this, he, by public proclamations at the market-place of the capital, and over the whole kingdom, protested to the people at large that he had never beflowed on it, in any degree, the function of his

command, confent, affiftance, or approbation. In the mean time the queen granted a full and am-Murray ple pardon to the earls of Murray, Argyle, Glencairn, and fome and Rothes, and their adherents; but towards the con-the rebels spirators she remained inexorable. This lenity, to Mur- are pardenray especially, proved a source of the greatest inquietude ed. to the queen; for this nobleman, blind to every motive of action diffinct from his own amultion, began to contrive new plots, which, though disappointed for a time, foon operated to the destruction of the queen, and al-

moll to the ruin of the nation.

On the 19th of June 1566, the queen was delivered Birth of of a prince, who received the name of James. This james VI. happy event, however, did not extinguish the quarrel 1566. betwixt her and the king. His defire to intrade himfelf into her authority, and to fix a stain on her honour, his share in the murder of Rizzio, and his extreme meanness in publicly denying it, could not fail to imprefs her with the fire gelt fentiments of deteftation and contempt. Unable, however, totally to diveft herfelf of regard for him, her behaviour, though cold and diflant, was yet decent and respectful. Castelnau, at this A partial time ambaffador extraordinary from France, conceived reconciliathat a reconciliation might be effected, and employed tween the himself for some time in this friendly office. Nor were king and his endeavours altogether ineffectual. The king and queen. queen spent two nights together; and proceeded, in company with each other, to Mcggatland in Tweeddale, in order to enjoy the diversion of the chace, attended by the earls of Huntly, Bothwel, Murray, and other nobles. Thence they passed to Edinburgh, and then took the road to Stirling. Had the king been endowed with Which is any prudence, he would have made the best use of this broken of opportunity to regain the affections of his queen; but, by the instead of this, finding that he was not immediately in-prudent bea trusted with power, his previshness suggested to him the haviour. design of going abroad. To Monsieur du Croc, the French refident, who had attended Mary at Stirling, he ventured to communicate his chimerical project, This statesman represented to him its wildness and inefficacy; and could fearcely believe that he was ferious,

Scotland, ous. To his father the earl of Lenox, who paid him a visit at this place immediately on Mary's departure from it, he likewise communicated his intention; and all the intreaties, arguments, and remonstrances of this nobleman to make him relinquish his defign, were without fuccess. He provided a vessel, and kept it in readiness to carry him from Scotland. The earl of Lenox, after returning to Glasgow, where he usually refided, gave way to his paternal anxieties, and folicited the queen by letter to interfere with her authority and perfuafiors; and on the evening of the day in which the received this dispatch, the king alighted at Holyroodhouse. But the names of the nobles who were with the queen being announced to him, he objected to three of them, and infifted that they thould be ordered to depart, before he would enter within the gates of the palace. The queen, alarmed with a demeanour fo rude and fo unwarrantable, condescended to leave her company and her palace to meet him; and it was with great difficulty that the was able to entice him into her own apartment. There he remained with her during the night. She communicated to him his father's letter, and employed every art and blandishment to engage him to abandon his perverse design. But he gave her no fatisfaction. He was unmoved by her kindness; and his filence, dejection, and previshness, augmented her diffrefs. In the morning, she called her privy council to assemble in the palace, and invited to her Monsieur du Croc the French envoy. By the bishop of Ross she explained the intention of the king, and made known the dispatch of the earl of Lenox. The privy council were urgent to know the reasons of a voyage that appeared to them so inexplicable; and earnestly pressed the king to unbosom himself. If his resolution proceeded from discontent, and if there were persons in the kingdom who had given him causes of offence, they affured him, that they were ready, upon his information, to take the necessary steps to make him eafy and happy. No quality or rank should exempt those from inquiry and punishment who had committed misdemeanors against him. This, they said, consisted with his honour, with the honour of the queen, and with their own. If, however, he had received no fufficient provocation to justify his behaviour, and if he had no title to complain of actual injuries, they admonished him to remember, that his night from a queen to beautiful, and from a kingdom to ancient and noble. would expose him to the greatest ridicule and difference. They pointed out the happiness of his fortune, and counselled him not to part lightly with all its flattering advantages. The queen herfelf, taking his hand into her's, and preffing it with affection, befought him to fay by what act or deed the had unfortunately induced him to conceive fo fatal a purpole. Her memory did not reproach her with any crime or indifcretion which affected his honour or her integrity: yet if, without any defign on her part, she had incurred his displeasure, she was disposed to atone for it; and she begged him to speak with entire freedom, and not in any degree to fpare her. Monfieur du Croc then addressed him, and employed his interest and persuasions to make him reveal his inquietudes. But all this respectful attention and ceremonious duty were ineffectual. Obtlinately froward, he refused to confess that he intended any vovage, and made no mention of any reasons of discontent.

He yet acknowledged with readiness, that he could not scotland, with justice accuse the queen of any injury or offence. Oppressed with uneafiness and perturbation, he prepared to retire; and, turning to her, faid, " Adieu, Madam ! you shall not see me for a long time." He then bowed to the French envoy, and to the lords of the privy

He haftened back to Stirling, leaving the queen and her council in surprise and astonithment. They resolved to watch his motions with anxiety, and could not conjecture what ftep he would take. Mary, to prevent the effect of rumours to her disadvantage, dispatched a courier to advertise the king of France and the queenmother of his conduct. It was not possible that a prince fo meanly endowed with ability could make any impression on her allies. Nor did it appear to be in his power to excite any domestic infurrection or disturbance. He was univerfally odious; and, at this time, the queen was in the highest estimation with the great body of her subjects. After passing some days at Stirling, he addressed a letter to the queen, in which, after hinting at his defign of going abroad, he infinuated his reasons of complaint. He was not trusted by her with authority, and the was no longer studious to advance him to bonour. He was without attendants; and the nobility had deferted him. Her answer was sensible and temperate. She called to his remembrance the diffinetions the had conferred on him, the uses to which he had put the credit and reputation accouning from them, and the heinous offences he had encouraged in her fubjects. Though the plotters against Rizzio had reprefented him as the leader of their enterprize, she had yet abitained from any acculation of him, and had even behaved as if the believed not his participation in the guilt of that project. As to the defects of his retinue, the had uniformly offered him the attendance of her own fervants. As to the nobility, they were the fupports of the throne, and independent of it. Their countenance was not to be commanded, but won. He had discovered too much stateliness towards them; and they were the proper judges of the deportment that became them. It he wished for consequence, it was his duty to pay them court and attention; and whenever he should procure and conciliate their regard and commendation, the would be happy to give him all the importance that belonged to him.

In the mean time, the earls of Murray and Bothwel were industriously striving to widen the breach between the king and queen, and at the fame time to foment the division between the king and his nobles. The earl of Morton excited diffurbances on the borders; and as no fettled peace had taken place there fince Mary's marriage, there was the greatest reason to believe that he would succeed in his attempts. Profubjects to arms; and the proceeded to Jedburgh, to hold justice courts, and to punish traitors and disorderly perfons. In the course of this journey she was ta- Mary falls ken dangerously ill; infomuch that, believing her death fick, but to be at hand, the called for the bithop of Rofs, telling recovers. him to bear witness, that she had persevered in that religion in which she had been nourished and brought up; taking the promife of her nobles, that after her death they would open her last will and testament, and pay to it that respect which confissed with the laws, recom-

mending

Scotland, mending to them the rights of her infant fon, and the charge of educating him in fuch a manner as might enable him to rule the kingdom of his ancestors with honour; and intreating them to abilain from all cruelty and per ecution of her Catholic fubjects. Notwithstanding her apprehe sions, however, and the extreme violence of her didemper, the queen at last recovered perfect health. As foon as the was able to travel, the visi ed Kelfo, Werk castle, Hume, Langton, and Wedderburn. The licentious borderers, on the first news of her recovery, laid down their arms. Being defirous to take a view of Berwick, the queen advanced to it with an attendance of 1000 horse. Sir John Forfer, the deputy warden of the English marches, came forth with a numerous retinue, and conducted her to the most proper station for surveying it, and paid her all the honours in his power, by a full discharge of the artillery, and other demonstrations of joy. Continuing her journey, the passed to Eymouth, Dunbar, and Tantallon; proceeding thence to Craigmillar caftle, where the proposed to remain till the time of the baptifm of the prince, which was foon to be celebrated at

A divorce

During the fevere fickness of the queen, her hufof the king-band kept himfelf at a distance : but when she was so far recovered as to be out of danger, he made his appearance; and being received with fome coldness and formality, he retired fuddenly to Stirling. This cruel neglect was a most sensible mortification to her; and while the fuffered from his ingratitude and haughtinels, the was not without fuspicion that he was attempting to disturb the tranquillity of her government. She was feized with a fettled melancholy; and, in her anguish, often wished for death to put a period to her existence. Her nobles, who were caballing against her, remarked her condition, and took advantage of it. Bothwel, who had already recommended himself by his fervices, redoubled his efforts to heighten the fayour which these services had induced her to conceive for him. At this time, it is probable, he fought to gain the affection of the queen, with a view to marry her himself, providing a divorce from her husband could be obtained; and this was now become the subject of consultation by Murray and his affociates. After much deliberation, the queen herfelf was made acquainted with this project; and it was told her, that provided the would pardon the earl of Morton and his affociates, the means should be found of effecting the divorce. This was urged as a matter of state by the earls of Murray, Lethington, Argyle, and Huntly; and the queen was invited to confider it as an affair which might be managed without any interference on her part. The queen replied, that she would listen to them, on condition that the divorce could be obtained according to law, and that it should not be prejudicial to her fon: but if they meant to effect their purpole by a difregard to these points, they must think no more of it; for rather than confent to their views, the would endure all the torments, and abide by all the perils, to which her fituation exposed her.

Lethington on this, in the name of the rest, engaged to rid her of her husband, without prejudice to her fon; words which could not be understood otherwise than as pointing at murder. Lord Murray (added he), who is here present, scrupulous as he is, will connive; and behold our proceedings without open- Stotlar ing his lips. The queen immediately made answer, "I defire that you will do nothing from which any frain may be fix a upon my honour or confeience; and of his goodnels fend relief: What you think to be of fervice to me may turn out to my displeasure and

It appears, however, that from this moment a plot was formed by Murray, Bo'hwel, and Lethington, against the life of Darnley, and by some of them probably against the queen herfelf; and that Morton, who with the other conspirators against Rizzio had received a pardon. was closely affociated with them in their nefarious defigns. That profligate peer was, in his way to Scotland, met at Whittingham by Bothwel and the fecreta-They proposed to him the murder of the king, and required his affulance, alleging that the queen herielf confented to the deed; to which Morton by his own account replied, that he was disposed to concur, provided he were fure of acting under any authority from her; but Bothwel and Lethington having returned to Ediaburgh, on purpose to obtain such an authority, sent him back a meffage, That the queen would not permit any. conversation on that matter.

In the mean time, preparations were made for the baptism of the young prince; to affait at which the queen left Craigmillar and went to Stirling. The ceremony was performed on the 17th of December 1566 After the baptifmal rites were performed, the name and titles of the prince were three times proclaimed by the heralds to the found of trumpets. He was called and defigued, Charles James, James Charles, prince and steward of Scotland, duke of Rothelay, earl of Carrick, lord of the Illes, and baron of Renfrew. Amidst the scenes of joy displayed on this occasion, the king showed his folly more than he had ever done. As Elizabeth did not mean to acknowledge Abfurd behim in his fovereign capacity, it was confident neither haviour of with the dignity of the queen, nor his own, that he the king should be present at the baptism. He did not indeed present himself either at the ceremony or the entertainments and masquerades with which it was accompanied. At this juncture, however, though he had often kept at a greater diffance before, he took up his refidence at Stirling, as if he meant to offend the queen, and to expose their quarrels to the world. Du Croc, who was inclined to be favourable to him, was to flruck with the impropriety of his behaviour, that he affected to have instructions from France to avoid all intercourse with him: and when the king proposed to pay him a vifit, he took the liberty of informing him, that there were two passages in his channer; and that if his majesty should enter by the one, he should be constrained to go out by the other.

While he refided at Stirling, the king confined him- An. 156; felf chiefly to his chamber. His stronge behaviour to the queen did not give the public any favourable idea of him; and as the earl of Murray and his faction took care to augment the general odium, no court was paid to him by foreign ambaffadors. His fituation, therefore, was exceedingly uncomfortable; but though he must have been conscious of his folly and imprudence, he did not alter his conduct. In a fullen humour he left Stirling, and proceeded to Glafgow. Here he fell

fick,

dered.

702 Attempts

the mur-

deters.

Sectional field, with fuch fymptoms as feemed to indicate poison. He was tormented with violent pains, and his body was covered over with puttules of a bluish colour; so that his death was daily expected. Mary did not re-pay his coldness to her by negligence. She set out immediately for Glasgow, and waited on him with all the attiduity of an affectionate wife, until he recovered : after which the returned with him to Edinburgh; and as the low fituation of the palace of Holyroodhouse was thought to render it unhealthy, the king was lodged in a house which had been appointed for the fuperior of the church, called St Mary's in the Fields. This house stood on an high ground, and in a falubrious air; and here the flaid with him fome days .-Here the conspirators thought proper to finish their and is mur- plot in the most execrable manner. On the 10th of February 1567, about two o'clock in the morning, the house where the king resided was blown up by

gunpowder. The explosion alarming the inhabitants, excited a general curiofity, and brought multitudes to the place whence it proceeded. The king was found dead and naked in an adjoining field, with a fervant who used to sleep in the same apartment with him. On neither was there any mark of fire or other external

The queen was in the palace of Holyroodhouse, taking the diversion of a masked ball, which was given to honour the marriage of a favourite domestic, when the news of the king's death was brought to her. She showed the utmost grief, and appeared exasperated to the last degree against the perpetrators of a deed at once fo shocking and barbarous. The most express to discover and peremptory orders were given to inquire after the perpetrators by every possible method. A proclamation was issued by the privy-council, assuring the people, that the queen and nobility would leave nothing undone to discover the murderers of the king. It offered the fum of 2000l. and an annuity for life, to any perfon who should give information of the devifers, counfellors, and perpetrators of the murder; and it held out this reward, and the promife of a full pardon, to the conspirator who should make a free confession of his own guilt, and that of the confederates. On the fourth day after this proclamation was published, a placard was affixed to the gate of the city prison, affirming, that the earl of Bothwel, James Balfour, Da- Scotland, vid Chalmers, and black John Spence, were the murderers. No name, however, was subscribed to this intelligence, nor was any demand made for the proffered reward: fo that it was difficult to know whether this advertisement had been dictated by a spirit of calumny or the love of justice.

In the mean time, the earl of Murray conducted Strong prohimself with his usual circumspection and artifice. On sumption of a pretence that his wife was dangerously fick at his of the guilt castle in Fife, he, the day before the murder, obtained of Murray. the queen's permission to pay her a visit. By this means he proposed to prevent all suspicion whatever of his guilt. He was fo full, however, of the intended project, that while he was proceeding on his journey, he observed to the person who accompanied him, "This night, before morning, the lord Darnley shall lofe his life." When the blow was flruck, he returned to Edinburgh to carry on his practices. Among foreign nations, the domestic disputes of the queen and her husband being fully known, it was with the greater ease that reports could be propagated to her disadvantage. Letters were dispatched to France, expressing, He accuses in fervent terms, her participation in the murder. In the queen-

England, the ministers and courtiers of Elizabeth could not flatter that princefs more agreeably, than by industriously detracting from the honour and the virtue of the Scottish queen. Within her own dominions a fimilar fpirit of outrage exerted itself, and not without fuccefs. As her reconciliation with her hufband could not be unknown to her own fubjects, it was regarded as diffimulation and treachery. The Proteftant clergy, who were her most determined enemies, possessed a leading direction among the populace; and they were the friends and the partizans of the earl of Murray. Open declamations from the pulpit were made against Bothwel, and strong infinuations and biting furmifes were thrown out against the queen. Papers were difperfed, making her a party with Bothwel in the murder. Every art was employed to provoke the frenzy of the people. Voices, interrupting the filence of the night, proclaimed the infamy of Bothwel; and portraits of the regicides were circulated over the kingdom (\$).

The queen's determination, however, to fcrutinize

<sup>(</sup>s) In the article MARY Queen of Scotland, we have stated at considerable length the arguments for and against the participation in the murder of Damley, of which Mary has been accused. As we have concluded that article with the arguments brought by one of her ablest accusers, justice and impartiality require that we should embrace this only opportunity of prefenting our readers with the arguments in favour of the queen, brought forward by her most recent defender Mr Chalmers. "Mary herself (fays Mr Chalmers, Caledonia, vol. i. p. 850.) seems to have been the only person of any consequence who was unacquainted with a design which was attended with such mighty confequence; yet has it been a question of debate, from that age to the present, whether Mary had been an accomplice in the murder of Darnley her husband. The prejudice of the late Lord Orford led him to fay, that a plea of fuch length ferves rather to confirm than weaken the evidence for the fact. But, it had been an observation full as just, as well as logical, to have faid that, fince the criminations of 240 years have not proved her guilty, the ought to be fairly deemed innocent. Party has, however, entered into this queition, with its usual unfairnefs; and it is supposed, that she ought to be prefumed to be guilty, rather than innocent; it being more likely that a wife would murder her husband, and a queen act as an assassin, than that nobles who were accustomed to crimes, should perform this atrocious action, and cast the offence from themselves on an innocent person. The fi me inconfiftency argues that, as the was educated in a corrupt court, the must have been corrupt; yet, her fonnet and her forrow for the loss of Francis, her first husband, attest that her heart was yet uncontaminated with corruption; and the steadiness with which she adhered to her faith, amidst 20 years perfecution, evinces that religion had

the mur-

derers

Scotland, the matter was unabated; and to the earl of Lenox, the king's father, the paid an attention which he could 7-5 The queen have expected from her only on an emergency of this d-termines kind. Having prefied her by letter to the most diligent to find out inquiry after the regicides, the returned an answer fo comand punish pletely to his wishes, that he was fully convinced of the fincerity and rigour with which the intended to proceed against them; and he proved her to assemble the three estates, that their advice might direct the order and manner of their trial. She wrote to him, that an affembly of the citates was already proclaimed; and that it was her earnest and determined will and purpole, that no step should be neglected that could promote the advancement and execution of justice. Yielding to his anxieties, he addressed her again, intreating that the trial might not be delayed; observing, that it was not a matter of parliamentary inquiry; advising that it would be more proper to proceed with the greatest expedition; and urging her to commit to prifon all the perfons who had been named and described in the papers and placards which had been put up in the public places of the city. The queen informed him, that although the had thought it expedient to call a meeting of parliament at this juncture, it was not her intention that the proceedings against the regicides should be delayed till it was actually affembled. As to the placards and papers to which he alluded, they were fo numerous and contradictory, that the could not well determine on which to act: but if he would condescend to mention the names which, in his opinion, were most suspicious, the would inflantly command that those theps thould be Lerox ac- taken which the laws directed and authorifed. He cuses seve- named the earl of Bothwel, James Balfour, David Chalcal perions, mers, black John Spence, Francis Sebattian, John de Burdeaux, and Joseph the brother of David Rizzio; and affured her majetty, that his suspicions of these persons

were weighty and firong. In reply to his infermation, Scot'and Mary gave him her folemn promife, that the perfons he had named should undergo their trial in conformity to the laws, and that they should be punished according to the measure of their guilt : and the invited him to leave his retirement immediately, and meet her at court, that he might witness the proceedings against them, and the zeal with which the was animated to perform the part that became her.

While the queen carried on this correspondence with the earl of Lenox, flie refided partly at the palace of the lord Seton, at the diffance of a few miles from the capital, and partly at Holyroodhouse. By the time that the fent her invitation to him, the was refiding in the capital. She delayed not to confer with her counfellors, and to lay before them the letters of the earl of Lenox. Bothwel was earnest in his protestations of innocence : and he even expressed his with for a trial, that he might establish his integrity. No facts indicated his guilt; there had appeared no accuser but the earl of Lenox; and no witnesses had been found who could establish his criminality. Her privy-council feemed to her to be firmly perfuaded that he was fuffering under the malice of defamation. Murray, Morton, and Lethington, whatever their private machinations might be, were publicly his most strenuous defenders; and they explained the behaviour of the earl of Lenox to be the effect of hatred and jealoufy against a nobleman who had outrun him fo far in the career of ambition. But though all the arts of Murray and Bothwel, Morton and Lethington, were exerted to the utmolt to millead the queen, they were not able to withhold her from adopting the conduct which was the most proper and the most honourable to her. It was her own ardent defire that the regicides should be punished; she had given her solemn promise to the earl of Lenox, that the persons whom he suspected

its proper influence upon her foul. Hitherto, in this argument, no positive evidence has been adduced to prove her guilt; and therefore the ought to be acquitted as innocent. But at length certain letters, fennets, and contracts between Mary and Bothwel, have been introduced as proofs of a guilty intercourse, rather than a direct partici-pation in the crime; and those letters, fonnets, and contracts, were first produced by the earl of Morton, the queen's cha cellor for life, who pretended to have found them in the custody of Dalgliesh, a servant of Bothwel. Yet this wretched magistrate had committed murder and treason at the assassination of Rizzio; he knew of the defign to affaffinate Darnley, yet he concealed it, and was thereby guilty of misprision; he knew of the crime, and was of course a participant, for which he was brought to the scaffold, where he acknowledged his crimes; now, this convicted criminal would not be admitted as a witness in any court of justice within Great Britain; and the production of fuch documents by fuch a wretch, at fuch a time, casts strong suspicion on such papers, which were contaminated by his guilty touch. When those sufficious epittles were first introduced into the privy-council, they appeared, as the register affects, to have been written and subscribed by her own hand, and sent to James Earl of Bothwel. When those previe letters were first brought into the Scottish parliament, they appear only to have been healie written with her own hand, as the record evinces, and not subscribed by her. bious letters were first produced before the commissioners at York, for judging of the proofs of her guilt, they from to have been superscribed to Bothwel; yet, they afterwards appeared before Elizabeth's commissioners at Westminster, without any superscription to any man; and those letters finally appear to have been neither sub-feribed by Mary, nor superscribed to Bothwel. When those letters were first produced before the privy-council of Scotland, they were written in the Scot ish language; fo they appeared to the commissioners at York; but when they were produced to the commissioners at Weilminster, they were written in French. The whole thus a pears to have been a juggle of thate, to cozen the people into obedience. The fonnets and contracts have equally convicted, by heir own contents, of forgery. I have read the whole controverly on the genuineness or forgery of those documens; I have ranfacked the Paper office for information on this interesting subject, and there does not appear to me to be a tittle of evidence, exclusive of those despicable forgeries, to prove that Mary Stuart had any knowledge of the murder of her husband,"

prove his

should be profecuted; and amidst all the appearances in favour of Bothwel, and all the influence employed to ferve him, it is to be regarded as a striking proof of her honour, vigour, and ability, that the could accomplish this measure. An order of the privy council was accordingly made, which directed, that the earl of Bothwel, and all the persons named by Lenox, should be brought to trial for the murder of the king, and that the laws of the land should be carried into execution. The 12th of April was appointed for the trial. A general invitation was given to all perfons to prefer their accusations, accusations. The earl of Lenox was formally cited to do himself justice, by appearing in the high court of justiciary, and by coming forward to make known the

> In the mean time, it was proper to repress that spirit of outrage which had manifested itself against the queen. No discoveries, however, were made, except against James Murray, brother to Sir William Murray of Tullibardin, who at different times had published placards injurious to her. He was charged to appear before the privy-council: but refusing to obey its citation, it was made a capital offence for any commander of a veffel to convey him out of the kingdom; and the resolution was taken to punish him with an exemplary severity. Effecting his escape, however, he avoided the punishment due to his repeated and detestable acts of calumny

and treason.

The day for the trial of Bothwel approached. The conspirators, notwithstanding their power, were not without apprehensions. Their preparations, however, for their fafety had been anxious; and, among other practices, they neglected not to attempt to infuse a panic into the earl of Lenox. They were favoured by his consciousness of his unpopularity, and his want of strength, by his timidity and his fpirit of jealoufy. Sufpicions of the queen's guilt were infinuated; and the dangers to which he might be exposed by infisting on the trial were placed before him in the ftrongest colours. He was fensible of her aversion to him; and his weakness and the fovereign authority were contrasted. His friends concurred with his enemies to intimidate him, from the spirit of flattery, or from a real belief that his situation was critical. By the time he reached Stirling on his way to Edinburgh, his fears predominated. He made 700 way to Edinorizin, in the state of the proceed ato defer the gainst the regicides. He addressed a letter to the queen, in which he faid he had fallen into fuch fickness, that he could not travel; and he affirmed, that he had not time to prepare for the trial and to assemble his friends. He complained, too, that Bothwel and his accomplices had not been committed to cultody; he infifted, that this step should be taken; and he requested, that a more distant day might be appointed for the trial. After the lengths to which matters had been carried, this conduct was most improper; and it is only to be accounted for from terror or caprice. His indisposition was affected; he had been invited by Mary to wait on her at Edinburgh at an early period, to concert his measures; and the delay he asked was contradictory to his former intreaties. After the invitation fent to him, he might have relied with fafety on the protection of the queen, without any gathering of his friends; from the time of her private intimation to him, and of the legal citations of her officers, there had passed a period more than suf-

ficient for the purpose of calling them together; and Scotland. indeed to suppose that there was any necessity for their affiltance, was an infult to government, and a matter of high indecency. There was more juffice in the complaint, that the earl of Bothwel and his accomplices had not been taken into custody; and yet even in this peculiarity he was to blame in a great degree. For he had not observed the precaution of that previous display of evidence, known in the Scottish law under the term of a precognition, which is common in all groffer offences, and which the weighty circumstances of the present case rendered fo necessary as a foundation for the confinement and conviction of the criminals.

An application for the delay of a trial fo important, but his peon the night immediately preceding the day flated for thion is reit, and reciting inconclusive reasons, could not with propriety be attended to. The privy council refused the demand of the earl of Lenox. The court of jufficiary was affembled. The earl of Argyle acted in his character of lord high justiciary; and was aided by four affelfors, Robert Pitcairn, commendator of Dumfermline, and the lord Lindsay, with Mr James Macgill and Mr Henry Balnaves, two lords of fession. The indictment was read, and the earls of Bothwel and Lenox were called on; the one as the defender, the other as the accufer. Bothwel, who had come to court with an attendance of his vaffals, and a band of mercenary foldiers, did not fail to present himself: but Lenox appeared only by his fervant Robert Cunnyngham; who, after apologizing for his absence, from the shortness of the time, and the want of the presence of his friends, defired that a new day might be appointed for the trial; and protested, that if the jury should now enter on the businefs, they should incur the guilt of a wilful error, and

This remonstrance and protestation did not appear to

their verdict be of no force or authority.

the court of fusicient importance to interrupt the trial. They paid a greater respect to the letters of the earl of Lenox to the queen infifting on an immediate profecution, and to the confequent order of the privy-council. The jury, who confifted of men of rank and condition, after confidering and reasoning on the indictment for a confiderable time, were unanimous in acquitting Bothwel of all share and knowledge of the king's murder. Bothwel The machinations however of Morton, which we have acquitted. mentioned in the life of MARY, were so apparent, that the earl of Caithness, the chancellor of the assize, made a declaration in their name and his own, that no wilful error ought to be imputed to them for their verdict; no proof, vouchers, or evidence, to confirm or support the criminal charge having been submitted to them. At the same time, he offered a protestation for himself, that there was a mistake in the indictment, the 9th day of February instead of the 10th being expressed in it as the date of the murder. It is not to be doubted, that this flaw in the indictment was a matter of defign, and with a view to the advantage of Bothwel, if the earl of Lenox had made his appearance against him. And it has been remarked as most indecent and suspicious, that foldiers in arms should have accompanied him to the court of juffice; that during the trial, the earl of Morton flood by his fide to give him countenance and to affift him; and that the four affessors to the chief justiciary were warm and strenuous friends to the earl of

7cS He is inti-

Immediately after his trial, Bothwel placed a writing in a conspicuous place, subscribed by him, challenging to fingle combat, any person of equal rank with himtelf, who thould dare to affirm that he was guilty of the king's murder. To this challenge an answer was publithed, in which the defiance was accepted, on the condition that fecurity should be given for a fair and equal conflict : but no name being subscribed to this paper, it was not understood to correspond with the law of arms; and of confequence no flep was taken for the fighting of the duel. Two days after parliament met, and there the party of Bothwel appeared equally formidable. The verdict in his favour was allowed to be true and just. He was continued in his high offices; and obtained a parliamentary ratification of the place of keeper of Dunbar callle, with the effates connected with it; and other favours were conferred on Murray, with the rest of the nobles suspected as accomplices in the murder.

He afpires at a marriage with the queen.

713 Is recom-

conceived hopes of gaining the queen in marriage. It has been already remarked, that he had infidiously endeavoured to gain her affection during the lifetime of her husband; but though he might have succeeded in this, the recent death of the king in such a shocking manner, and the strong suspicions which must unavoidably fill reft on him, notwithstanding the trial he had undergone, necessarily prevented him from making his addresses to her openly. He therefore endeavoured to mended by gain the nobility over to his fide; which having done the nobility one by one, by means of great promifes, he invited them husband for to an entertainment, where they agreed to ratify a deed pointing him out to the queen as a person worthy of her

A very thort time after the final acquittal of Bothwel,

he began to give a greater scope to his ambition, and

hand, and expressing their resolute determination to support him in his pretentions. This extraordinary bond 714 Schemes of was accordingly executed; and Murray's name was the the earl of first in the lift of subscribers, in order to decoy others to Murray to fign after him; but that he might appear innocent of burt the what he knew was to follow, he had, before any use queen. was made of the bond, asked and obtained the queen's permission to go to France. In his way thither he vifited the court of Elizabeth, where he did not fail to confirm all the reports which had arisen to the disadvantage of Mary; and he now circulated the intelligence that the was foon to be married to Bothwel, Her partizans in England were exceedingly alarmed; and even Queen Elizabeth herfelf addreffed a letter to her.

in which the cautioned her not to afford fuch a mischiev-

Bothwel carries her off to Dunbar.

ous handle to the malice of her enemics. Mary, on the diffolution of parliament, had gone to Stirling to vifit the young prince. Bothwel, armed with the bond of the nobles, affembled 1000 horse, under the pretence of protecting the borders, of which he was the warden; and meeting her on her return to her capital, dismissed her attendants, and carried her to his caftle of Dunbar. The arts which he used there to effect the accomplishment of his wishes we have mentioned under another article, (fee MARY). But having been married only fix months before to Lady Jane Gordon, fifter to the earl of Huntly, it was necessary to procure a divorce before he could marry the queen. This was eafily obtained. The parties were coufins within the prohibited degrees, and had not obtained a dispensation from Rome. Their marriage, therefore, in the opinion of the queen and her Catholic subjects, was illi-Vol. XVIII, Part II.

cit, and a profane mockery of the facrament of the Scotland. church. The hulband had also been unfaithful; to that two actions of divorce were instituted. The lady com-1, divorce de menced a fuit against him in the court of the committeen his faries, charging him as guilty of adultery with one of wife. her maids. The earl himfelf brought a fuit against his wife before the court of the archbillop of St Andrew's, on the plea of confanguinity. By both courts their marriage was declared to be void; and thus two tentences

of divorce were pronounced. Bothwel now conducted the oucen from Dunbar to her capital. But inflead of attending her to her palace of Holyroodhouse, his jealousy and apprehensions induced him to lodge her in the castle of Edinburgh, where he could hold her in fecurity against any attempt of his enemies. To give fatisfaction, however, to her people, and to convince them that the was no longer a prifoner. a public declaration on her part appeared to be a meafure of expediency. She prefented herfelf, therefore, in the court of fession; the lords chancellor and president, the judges, and other persons of distinction, being prefent. After observing that some stop had been put to the administration of justice on account of her being detained at Dunbar against her will by the lord Bothwel, the declared, that though the had been highly offended with the outrage offered to her, the was yet inclined to forget it. His courteousness, the sense she entertained of his past services to the state, and the hope with which the was impressed of his zeal and activity for the future, compelled her to give him and his accomplices in her imprisonment a full and complete pardon. She at the fame time defired them to take notice, that she was now at liberty; and that the proposed, in confideration of his merits, to take an early opportunity of promoting him to new and diffinguished honours.

It was understood that the queen was immediately Banns of to advance him to be her husband. The order was given the marfor the proclamation of the banns; and Mr John Craig, riage pro-one of the ministers of Edinburgh, was defired to perform this ceremony. But though the order was fubfcribed by the queen, he absolutely refused his compliance without the authority of the church. The brethren, after long reasonings, granted him permission to discharge this duty. His scruples and delicacy were not yet removed. He protested, that, in obeying their defire, he should be allowed to speak his own sentiments concerning the marriage, and that his publishing the banns should infer no obligation in him to officiate in the folemnity. In his congregation, accordingly, before a crowded audience, and in the presence of several noblemen and privy-counsellors, he declared that the marriage of the queen and the earl of Bothwel was unlawful, and that he was prepared to give his reasons for this opinion to the parties themselves. He added, that if leave to do this was denied him, he would either abflain altogether from proclaiming the banns, or take the liberty, after proclaiming them, to inform his people of the causes of his disapprobation of the marriage. He Fortitude answered, that the church had prohibited the marriage of Mr John of persons separated for adultery; and that the divorce Craig. between him and his wife mull have been owing to collufion; fince the fentence had been given with precipitation, and fince his new contract was fo fudden; and he objected to him the abduction and ravishment of the queen, and his suspicion of his guilt of the king's mur-

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The mar-

brated.

Scotland, der. This bold language drew no reply from Potherel that was fatisfactory to Mr Craig, or that could intinidate him. He proclaimed in his church the banns of marriage; but he told the congregation, that he difit to be a deteilable and fcandalous engagement. He expressed the forrow he felt for the conduct of the nobility, who feemed to approve it from their flattery or filence; and addressing himself to the faithful, he befought them to pray to the Almighty that he would turn a resolution intended against law, reason, and religion, into a comfort and benefit to the church and the kingdom. These freedoms were too great to pass unnoticed. Mr Craig was ordered again to attend the privy-council; and he was reprimanded with severity for exceeding the bounds of his commission. He had the courage to defend himself. His commission, he said, was founded in the word of God, positive law, and natural reason; and on the foundation of these topics he was about to prove that the marriage must be universally odious, when the earl of Bothwel commanded him to be filent. The privy-council, flruck with the vigour of the man, and apprehensive of the public discontents, did not dare to inflict any punishment on him; and this victory over Bothwel, while it heightened all the fall picions against him, served to encourage the enemies of the queen, and to undermine the respect of her subjects.

Mary, befare the gave her hand to Bothwel, created him duke of Orkney. The ceremony was performed riage celein a private manner, after the rules of the Popish church; but, to gratify the people, it was likewise solemnized publicly according to the Proteflant rites by Adam Bothwel bishop of Orkney, an ecclesiastic who had renounced the episcopal order for the reformation. It was celebrated with little pomp and festivity. Many of the nobles had retired to their feats in the country; and those who attended were thoughtful and fad. Du Croc, the French ambaffador, fenfible that the match would be displeasing to his court, refused to give his countenance to the folermity. There were no acclamations of the common people. Mary herfelf was not inconscious of the imprudence of the choice she had made, and looked back with furprife and forrow to the train of circumstances which had conducted her to this fatal event. Forfaken by her nobles, and imprisoned at Dunbar, the was in fo perilous a fituation that no remedy could fave her honour but death. Her marriage was the immediate and necessary consequence of that fituation (T). It was the point for which her enemies had laboured with a wicked and relentless policy.

Mary was unfortunate in her fecond marriage, but much more so in her third. Bothwel had neither talents for bufiness nor affection for his wife. Ambitious

and jealous to the last degree, he fought only to offa- Scotland. blish himself in power, while his fears and jealouties" made him take the most improper means. The marriage had already thrown the nation into a ferment; and the least improper exercise of power, or indeed an appearance of it, even on the part of the queen, would have been fufficient to ruin them both for ever. Perhaps the only thing which at this juncture could have pacified the people, would have been the total abolition of Popery, which they had often required. But this was not thought of. Inflead of taking any step to Bothwell please the people, Bothwel endeavoured to force the attempts to carl of Mar to deliver up the young prince to his cu-get the fledy .- This was fufficient to rekindle the flame which young had hitherto been imothered, and make it burft out to ha with all its violence. It was univerfally believed that power, Bothwel, who had been the murderer of the father, detigned also to take away the life of the fon, and the queen was thought to participate in all his crimes. The earl of Murray now took advantage of the queen's unfortunate fituation to aggrandize himfelf and effect her ruin. After having vifited the English court, he pro. Murray caceeded to France, where he affiduoufly diffeminated all lumniates the reports against the queen which were injurious to the queen. her reputation; and where, without being exposed to fuspicion, he was able to maintain a close correspondence with his friends Morton and Lethington, and to inspirit their machinations. His associates, true to his ambition and their own, had promoted all the schemes of Bothwel on the queen with a power and influence which injured their fuccels. In confederacy with the earl of Murray, they had confpired with him to murder the king. Affitted with the weight of the earl of Murrav, they had managed his trial, and promoted the verdict by which he was acquitted. By the same arts, and with the fame views, they had joined with him to procure the bond of the nobles recommending him to the queen as a husband, afferting his integrity and innocence, recounting his noble qualities, exprelling an unalterable resolution to support the marriage against every oppofer and adverfary, and recording a with that a defection from its objects and purpoles should be branded with everlatting infamy, and held out as a most faithless and perjured treachery. When the end, however, was accomplished for which they had been fo zealous, and when the marriage of the queen was actually celebrated, they laid afide the pretence of friendship, and were in halle to entitle themselves to the ignominy which they had invited to fall on them. The murder of the king, the guilt of Bothwell, his acquittal, his divorce, and his marriage, became the topics of their complaints and declamation. On the foundation of this hated marriage, they even ventured privately to infer the privity of the queen

(T) "The queen (fays Melvil) could not but marry him; feeing he had ravished her and lain with her against her will." Memoirs, p. 150. In the following raffage, from a writer of great authority, in our history, this topic is touched with no les exactness, but with greater delica y. "After Mary had remained a fortnight under the power of a daring profligate adventurer," says Lord Hailes, "few foreign princes would have folicited her hand. Some of her subjects might still have sought that honour; but her compliance would have been humiliating beyond measure. It would have left her at the mercy of a capricious husband; it would have exposed her to the difference of being reproached, in some sullen hour, for the adventure at Dunbar. Mary was so situated, at this critical period that the was reduced to this horrid alternative, either to remain in a friendless and hazardous celibacy, or to yield her hand to Bothwel." Remarks on the History of Scotland, p. 224.

So tland, queen to all his iniquitous transactions; and this step

leemed doubtlets, to the mass of her own subjects and to more distant observers, a strong confirmation of all the former suspicions to her shame which had been circulated with fo much artifice. Their imputations and devices excited against her, both at home and abroad, the most indignant and humiliating odium. Amidst the ruins of her fame, they thought of burying for ever her tranquillity and peace; and in the convultions which they had meditated, they were already anticipating the downfal of Bothwel, and fnatching at the crown that

A confedeagainft B.thwel.

tottered on her head. But while this cabal were profecuting their private racy formed ends, feveral noblemen, not lefs remarkable for their virtue than their rank, were eager to vindicate the national integrity and honour. The earl of Athol, on the king's murder, had retired from court, and was waiting for a proper feafon to take revenge on the regicides. The earl of Mar, uneasy under the charge of the young prince, was folicitous to make himfelf strong, that he might guard him from injury. Motives fo patriotic and honourable drew applause and partizans. It was sufficient to mention them. By private conference and debate, an affociation was infenfibly formed to punish the murderers of the king, and to protect the person of the prince. Morton and Lethington encouraged and promoted a combination from which they might derive fo much advantage. A convention was accordingly appointed at Stirling, for the purpole of confulting on the measures which it was most expedient to purfue. They agreed to take an early opportunity of appearing in the field; and when they feparated, it was to collect their retainers, and to inspirit their passions.

Of this confederacy, the leading men were the earls of Argyle, Athol, Morton, Mar, and Glencairn; the lords Hume, Semple, and Lindsay; the barons Kirkaldy of Grange, Murray of Tullibardin, and Maitland of Lethington. The earl of Bothwel was fensible, that if he was to fit on a throne, he must wade to it through blood. By his advice, two proclamations were issued in the name of the queen, under pretence of suppressing insurrections and depredations on the bor-The queen ders. By the former, the called together in arms, on prepares for an early day, the earls, barons, and freeholders of the districts of Forfar and Perth, Strathern and Menteith, Clackmannan, Kinrols, and Fife. By the latter the charged the greater and leffer baronage, with all the inferior proprietors of the shires of Linlithgow and Edinburgh, and the constabulary of Haddington and Berwick, to prepare immediately for war, and to keep themselves in readiness to march at her order. These military preparations admonished the affociation to be firm and active, and added to the public inquietudes and discontents. The rumours against the queen were most violent and loud. It was said, that she meant to overturn the constitution and the laws; that she had been careless of the health of her son, and was altogether indifferent about his preservation; that she had separated herfelf from the councils and affiftance of her nobles; and that the withed to make her whim or discretion the only rule of her government. Agitated with the hazardous Rate of her affairs, the published a new pro-

clamation, in which the employed herself to refute these

acculations; and in which the took the opportunity of

expressing in a very forcible manner, not only her at- Scotland. tachment to her people and the laws, but the fond affection which the bore to the prince, whom the confidered as the chief joy of her life, and without whom all her

days would be comfortless. The declarations of the queen were treated with fcorn. The nobles, abounding in vaffals, and having the hearts of the people, were foon in a fituation to take the field. They were acometing to the capital. The royal army was not yet affembled; and the queen and Bothwel fulpected that the caitle of Edinburgh would thut its gates upon them. The fidelity of Sir James Balfour the deputy-governor had been shaken by the practices of the earl of Mar and Sir James Melvil. Mary left her palace of Holyroodhouse, and was conducted to Borthwick caftle. The affociated lords, informed of her flight, took the road to this fortress with 2000 horse. The lord Hume, by a rapid But is oblimarch, prefented himself before it with the division un-got to siy der his command: but being unable to guard all its to Dunbar. avenues, the queen and Bothwel effected their escape

to Dunbar; where the strength of the fortifications gave them a full fecurity against a furprife.

On this fecond disappointment, the nobles resolved to enter Edinburgh, and to augment their strength by new partizans. The earl of Huntly and the lord Boyd were here on the fide of the queen, with the archbishop of St Andrew's, the bishop of Rofs, and the abbot of Kilwinning. They endeavoured to animate the inhabitants to defend their town and the cause of their sovereign. But the tide of popularity was favourable to the confederated lords. The magistrates ordered the gates of the city to be thut; but no farther refitance was intended. The lords, forcing St Mary's port, found an easy admittance, and took possession of the capital. The earl of Huntly and the queen's friends fled to the castle, to Sir James Balfour, who had been the confidant of Bothwel, and who agreed to protect them, although he was now concluding a treaty with the infur-

The affociated lords now formed themselves into a Proclamacouncil, and circulated a proclamation. By this paper to by the they declared, that the queen being detained in capti-rebelious vity, was able neither to govern her realm, nor to command a proper trial to be taken of the king's murder. In an emergency fo preffing, they had not despaired of their country; but were determined to deliver the queen from bondage, to protect the person of the prince, to revenge the murder of the king, and to vindicate the nation from the infamy which it had hitherto fuffered through the impunity of the regicides. They therefore commanded in general all the subjects of Scotland, and the bargeffes and inhabitants of Edinburgh in particular, to take part with them, and to join in the advancement of purpoles fo beneficial and falutary. The day after they published this proclamation, they issued another in terms that were stronger and more resolute. They definitively expressed their persuasion of Bothwel's guilt in the rape and feduction of the queen, and in his perpetration of the king's murder, in order to accomplish his marriage. They inculcated it as their firm opinion, that Bothwel had now formed the defign of murdering the the young prince, and that he was collecting troops with this view. Addresling themselves, therefore, to all the subjects of the realm, whether they resided in counties

Scotland, or in boroughs, they invited them to come forward to their flandard; and defired them to remember, that all persons who should presume to disobey them would be

perfors who should prefume to disobey them would be treated as enemies and traitors.

Bothwel, in the mean time, was not inactive; and

the proclamations of the queen had brought many of her vaffals to her affittance. Four thousand combatants ranged themselves on her side. This force might augment as the approached to her capital; and Bothwel was impatient to put his fortunes to the iffue of a battle. He left the strong castle of Dunbar, where the nobles were not prepared to affail him, and where he might have remained in fafety till they dispersed; for their proclamations were not fo fuccefsful as they had expected; their provisions and stores were scanty; and the zeal of the common people, unsupported by prosperity, would foon have abated. Imprudent precipitation ferved them in a most effectual manner. When the queen had reached Gladfmuir, the ordered a manifelto to be read to her army, and to be circulated among her fubjects. By this paper, she replied to the proclamations of the confederated nobles, and charged them with treachery and rebellion. She treated their reasons of hostility as mere pretences, and as inventions which could not bear to be examined. As to the king's murder, the protested, that the herfelf was fully determined to revenge it, if the could be fo fortunate as to discover its perpetrators. With regard to the bondage from which they were fo defirous to relieve her, the observed, that it was a falsehood so notorious, that the simplest of her fubiects could confute it; for her marriage had been celebrated in a public manner, and the nobles could fearcely have forgotten that they had fubscribed a bond recommending Bothwel to be her husband. With regard to the industrious defamations of this nobleman, it was urged, that he had discovered the utmost folicitude to establish his innocence. He had invited a scrutiny into his guilt; the justice of his country had abfolved him; the three estates assembled in parliament were satisfied with the proceedings of his judges and jury; and he had offered to maintain his quarrel against any person whatever who was equal to him in rank and of an honest reputation. The nobles, she faid, to give a fair appearance to their treafon, pretended, that Bothwel had schemed the destruction of the prince, and that they were in arms to protect him. The prince, however, was actually in their own custody; the use they made of him was that of a cover to their perfidiousness; and the real purposes by which they were animated, were the overthrow of her greatness, the ruin of her posterity, and the usurpation of the royal authority. She therefore entreated the aid of her faithful fubjects; and as the prize of their valorous fervice, she held out to them the estates and possessions of the rebels.

The affociated nobles, pleafed with the approach of the queen, put themfelves in motion. In the city of Edinburgh they had received an addition to their force; and it happened that the Scottlin officer who commanded the companies, which, in this period, the king of Denmark was permitted to enlift in Scotland, had been gained to affift them. He had juft completed his levies; and he turned them against the queen. The nobles, after advancing to Muffelburgh, refreshed their troops. Intelligence was brought that the queen was on her march. The two armies were nearly equal in num-

bers; but the preference, in point of valour and dife. Souland, pline, belonged decilively to the foldiers of the nobles.

The queen poiled herielt on the top of Carberry hill. The too. The lords, taking a circuit to humour the ground, feem armies aged to be retreating to Dalkeith; but wheeling about, proach they approached to give her battle. They were ranged each other in two divisions. The one was commanded by the earl of Morton and the lord Hume; the other by the earls of Athol, Marr, and Glencairn, with the lords Lindfuy, Ruthwen, Sempli, and Sanquhar. Bothwel was the leader of the royal forces; and the lords Seton, Yeiler, and Borthwick, ferred under him.

It was not without apprehensions that Mary survey- Du Croc ed the formidable appearance of her enemies. Du negociates Croc, the French ambaffador, hastened to interpose his with the rebels. good offices, and to attempt an accommodation. He affured the nobles of the peaceful inclinations of the queen; and that the generofity of her nature disposed her not only to forgive their present insurrection, but to forget all their former transgressions. The earl of Morton informed him, that they had not armed themfelves against the queen, but against the murderer of the late king; and that if the would furrender him up to them, or command him to leave her, they would confent to return to their duty. The earl of Glencairn defired him to observe, that the extremity to which they had proceeded might have instructed him that they meant not to ask pardon for any offences they had committed, but that they were resolved to take cognizance of injuries which had provoked their displeasure. This aspiring language confounded Du Croc, who had been accustomed to the worshipful submissions which are paid to a defpot. He conceived that all negociation was fruitless, and withdrew from the field in the expectation that the fword would immediately give its law and determine every difference.

Mary was full of perturbation and diffress. The state into which she had been brought by Bothwel did not fail to engage her ferious reflection. It was with infinite regret that she considered the consequences of her fituation at Dunbar. Nor had his behaviour fince her marriage contributed to allay her inquietudes. The violence of his pattions, his fuspicions, and his guilt, had induced him to furround her with his creatures, and to treat her with infult and indignity. She had been almost constantly in tears. His demeanor, which was generally rude and indecent, was often favage and brutal. At different times his provocations were fo infulting, that the had even attempted to arm her hand against her life, and was defirous of relieving her wretchedness by spilling her blood. On this account, she was now encompassed with dangers. Her crown was in hazard. Under unhappy agitations, the rode through the ranks of her army, and found her foldiers dispirited. Whatever respect they might entertain for her, they had none for her husband. His own retainers and dependents only were willing to fight for him. He endeavoured to awaken the royal army to valour, by throwing down challenged the gauntlet of defiance against any of his adversaries to fingle who should dare to encounter him. His challenge was combat. inflantly accepted by Kirkaldy of Grange, and by Murray of Tullibardin. He objected that they were not peers. The lord Lindiay discovered the greatest impatience to engage him, and his offer was admitted;

726 Manifesto by the queen.

Scotland, the combat. All the pride and hopes of Bothwell funk within him. His foldiers in fmall parties were fecretly abandoning their flandards. It was equally perilous to the queen to fight or to fly. The most prudent expedient for her was to capitulate. She defired to confer with Kirkaldy of Grange, who remonthrated to her against the guilt and wickedness of Bothwel, and counselled her to abandon him. She expressed her willingues to dismis him on condition that the lords would acknowledge their allegiance and continue in it. Kirkaldy passed to the nobles, and received their authority to affure her that they would honour, ferve, and obey her as their princess and sovereign. He communicated this 730 He is obliintelligence to her. She advifed Bothwel to provide for ged to fly. his fafety by flight; and Kirkaldy admonithed him not to neglect this opportunity of effecting his escape. Uverwhelmed with thame, disappointment, terror, remorfe,

and defpair, this miferable victim of ambition and guilt turned his eyes to her for the last time. To Kirkaldy of Grange she stretched out her hand: he kissed it; and taking the bridle of her horfe, conducted her towards the nobles. They were approaching her with becoming reverence. She faid to them, "I am come, Mary furmy lords, to express my respect, and to conclude our renders herfelf to agreement; I am ready to be instructed by the wisdom the rebels. of your counfels; and I am confident that you will treat me as your fovereign." The earl of Morton, in the name of the confederacy, ratified their promiles, and addreffed her in these words: " Madam, you are here among us in your proper place; and we will pay to you

as much honour, fervice, and obedience, as ever in any former period was offered by the nobility to the princes

732 By whom ly used.

your predecessors." This gleam of funshine was foon overcast. She rethe is cruel-mained not many hours in the camp, till the common foldiers, infligated by her enemies, prefumed to infult her with the most unfeemly reproaches. They exclaimed indignantly against her as the murderer of her hufband. They reviled her as a lewd adulteress in the most open manner, and in language the coarsest and most opprobrious. The nobility forgot their promises, and feemed to have neither honour nor humanity. She had changed one miterable scene for a diffress that was deeper and more hopeless. They furrounded her with guards, and conducted her to her capital. She was carried along its streets, and shown to her people in captivity and fadness. She cried out to them to commiserate and protect her. They withheld their pity, and afforded her no protection. Even new insults were offered to her. The lowest of the populace, whom the declamations of the clergy had driven into rage and madness, vied with the foldiery in the licentious outrage of invective and execration. She belought Maitland to folicit the lords to reprefs the infupportable atrocity of her treatment. She conjured him to let them know, that she would submit herself implicitly to the determination of parliament. Her intreaties and her fufferings made no impression on the nobles. They continued the favage cruelty of their demeanour. She implored, as the last request she would prefor to them, that they would lead her to her palace. This confolation, too, was refused to her. They wished to accustom her subjects to behold her in diffrace, and to teach them to triumph over her misfortunes. In the most mortifying and afflicting hour the had ever experienced, oppressed with satigue, and disfigured with Scotland. duit and forrow, they that her up in the house of the lord provoit: leaving her to revolve in her anxious and agitated mind the indignities she had already endured, and to fuffer in anticipation the calamities they might yet

intlict on her.

The malice of Morton and his adherents was fill far from being gratified. In the morning, when the queen looked from the window of the apartment to which the had been confined, the perceived a white banner diplayed in fuch a manner as to fix her attention. There was delineated on it the body of the late king stretched at the foot of a tree, and the prince on his knees before it, with a label from his mouth, containing this prayer, " Judge and revenge my cause, O Lord !" This abominable banner revived all the bitternels of her afflictions. The curiofity of the people The comdrew them to a scene so new and so affecting. She mon people exclaimed against the treachery of her nobles; and she take her begged the spectators to relieve her from their tyranny. part; The eventful flory of the preceding day had thrown her capital into a ferment. The citizens of a better condition crowded to behold the degraded majesty of their lovereign. Her state of humiliation, so opposite to the grandeur from which the had fallen, moved them with compassion and sympathy. They heard her tale, and were filled with indignation. Her lamentations, her diforder, her beauty, all stimulated their ardour for her deliverance. It was announced to the nobles, that the tide of popular favour had turned towards the queen. They hastened to appear before her, and to affure her, with smiles and courtely, that they were immediately to conduct her to her palace, and to reinstate her in her royalty. Impoling on her credulous nature, and that beautiful humanity which characterized her even in the most melancholy fituations of her life, they prevailed with her to inform the people, that the was pacified, and that the withed them to disperse But by the They separated in obedience to her defire. The nobles advice of now conveyed her to Holyroodhouse. But nothing the nobles could be farther from their intentions than her re-fhe difmiffes establishment in liberty and grandeur. They held a them. council, in which they deliberated concerning the manner in which they ought to dispose of her. It was refolved, that the thould be confined during her life in the fortress of Lochleven; and they subscribed an order for her commitment.

A resolution so sudden, so perfidious, and so tyrannical, filled Mary with the utmost assonishment, and drew from her the most bitter complaints and exclamations. Kirkaldy of Grange, perceiving with furprife She is dethe lengths to which the nobles had proceeded, felt his fended by honour take the alarm for the part he had acted at their Kirkaldy of defire. He expostulated with them on their breach Grange. of truit, and cenfured the extreme rigour of the queen's treatment. They counselled him to rely on the integrity of their motives; spoke of her passion for Bothwel as most vehement, and insisted on the danger of intrusting her with power. He was not convinced by their speeches; and earnestly recommended lenient and moderate measures. Discrect admonitions, he said, could not fail of impressing her with a full sense of the hazards and inconveniences of an improper passion, and a little time would cure her of it. They affured him, that when it appeared that the de effed Bothwel, and

S tland. Rad utterly abandoned his interests, they would think of

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faciation.

kindness and moderation. But this, they urged, could But he is fearcely be expected; for they had recently intercepted filenced by a letter from her to this nobleman, in which the exa lorgery of pressed, in the strongest terms, the warmth of her love, the nobles, and her fixed purpose never to forsake him (U). Kirkaldy was defired to perufe this letter; and he preffed them no longer with his remonttrances. The queen, in the mean time, fent a message to this generous foldier, complaining of the cruelty of her nobles, and reminding him that they had violated their engagements. He instantly addressed an answer to it, recounting the reproaches he had made to them; stating his advice; deferibing the furprise with which he had read her intercepted letter; and conjuring her to renounce and forget a most wicked and flagitious man, and, by this victory over herfelf, to regain the love and respect of her subjects. The device of a letter from her to Bothwel completed the amazement of the queen. So unprincipled a contempt of every thing that is most facred, to barbarous a perseverance in perfidiousness and injustice, extinguished every fentiment of hope in her bosom. She conceived that she was doomed to inevitable destruction, and funk under the pangs of unutterable anguish.

The lords Ruthven and Lindfay arrived during this paroxylm of her diffress, to inform her, that they were commanded to put in execution the order of her commitment. They charged her women to take from her all her ornaments and her royal attire. A mean dreis was put on her; and in this difguife they conveyed her with precipitation to the prilon appointed for her. The lords Seton, Yester, and Borthwick, endeavoured to refcue her, but failed in the attempt. She was delivered over to William Donglas the governor of the caille of Lochleven, who had married the mother of the earl of Murray, and was himfelf nearly related to

On the same day on which the nobles subscribed lious lords the order for the imprisonment of the queen, they enenter into a tered into a bond of concurrence or confederacy. Py this deed they bound themselves to the firenuous profecution of their quarrel; and it detailed the purpofes which they were to purfue. They proposed to punish the murderers of the king, to examine into the queen's rape, to diffolve her marriage, to preferve her

from the bendage of Bothwel, to protect the person of

the prince, and to reftore justice to the realm. The Scotland. fanction of a most solemn oath confirmed their reliance on each other; and in advancing their measures, they engaged to expose and employ their lives, kindred, and

It is eafy to i.e., notwithdanding all the pretended patriotism of the rebels, that nothing was farther from their intentions than to profecute Bothwel and reflore the queen to her dignity. They had already treated her in the vilest manner, and allowed Bothwel to escape when they might have easily apprehended and brought him to trial. To exalt themselves was their only aim. Eleven days after the capitulation at Carberry hill, they held a convention, in which they very properly affumed the name of lords of the fecret council, and issued a proclamation for apprehending Bothwel as the murderer of the king; offering a reward of 1000 crowns to any perfon who should bring him to Edinburgh. A fearch Several was made for the murderers of the king that very night persons in which the queen was confined in Lochleven caffle, t. ken up One Sebastian a Frenchman, and Captain Blackader, on account were apprehended; and foon after James Edmondstone, king's mur-John Blackader, and Mynart Fraser, were taken up der. and imprisoned. The people expected full and fatisfactory proofs of the guilt of Bothwel, but were dilappointed. The affirmation of the nobles, that they were possessed of evidence which could condemn him, appeared to be no better than an artifice. Sebastian found means to escape; the other persons were put to the torture and fullained it without making any confession that the nobles could publish. They were condemned, however, and executed, as being concerned in the murder, In their dying moments they protested their innocence. Sanguine hopes were entertained that Captain Blackader would reveal the whole fecret at the place of execution, and a vaft multitude of spectators were present. No information, however, could be derived from what But they he faid with respect to the regicides; but while he so-make no lemnly protested that his life was unjustly taken away, confession, he averred it as his belief that the earls of Murray and Morton were the contrivers of the king's murder.

The lords of the fecret council now proceeded to the Robberies greatest enormities. They robbed the palace of Holy- and cut-roodhouse of its furniture and decorations; converted confederathe queen's plate into coin; and possessed themselves of ted lords her jewels, which were of great value; and while the faction at large committed these acts of robbery, the

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<sup>(</sup>U) "Mr Hume is candid enough to give up the authenticity of this letter; and indeed, fo far as I have obferred, there is not the flightest pretence of a reason for conceiving it to be genuine; (Hist. of England, vol. v. p. 122.). It was not mentioned by the earl of Morton and his adherents to Throgmorton, when Elizabeth in terfered in the affairs of Scotland upon the imprisonment of the queen in the cassle of Lochleven: a period of time when these statesimen were desirous to throw out every imputation to her projudice, and when in particular they were abusing her with vchemence for her attachment to Bothwel; (Keith, p. 419.). Nor was it made use of by Murray before the English commissioners. Mary, in the condition to which the nobles had reduced her, could not well think of a step of this fort, although her attachment to Bothwel had been as strong as they were pleafed to pronounce it. For, not to fpeak of the greatness of her diffress, she was guarded by them so Arically, as to make it vain for her to pretend to elude their vigilance. In regard, too, to her love of Bothwel, it is not clear that it was ever real. While the king was alive, there are no traces of their improper intercourse. I'e affair of Dunbar was a criminal leduction. The arts of a profligate man overcame her. There was no inent of love upon either five. After her marriage, his rudeness extinguished in her altogether any remain inducts and respect; and hence the coldness with which the parted with him." Stuart's History of Scotland,

Scotland, earl of Glencairn with folemn hypocrify demolished the altar in the queen's chap I, and deficed and defiroved all its pictures and ornaments. These excellive outrages, however, lost them the favour of the people, and an affociation was formed in favour or the queen. The court of France, as foon as the news of Mary's impriforment arrived, dispatched M. de Villerey to condole with her on her misfortunes : but the lords of the feeret council would not admit him to fee her, on which he immediately returned to his own country. The earl of Murray, however, was at this time in France; and to the promises of this anibitious and treacherous noble the king trutted, imagining him to be a fleady friend to the ultortunate queen. Elizabeth also pretended friendship, and threatened the affociated lords; but as they had every reason to doubt her fincerity, they paid no regard to her threats, and even refu-

742 Mary com-pelled to fi pation of her 1567.

From all these appearances of friendship Mary neither did nor could derive any real affinance. On the 24th of July 1567, the lord Lindiay, whose imperious behaviour, fays Dr Stuart, approached to infanity, was ordered by the lords to wait on the queen at Lochleven. He carried with him three deeds or inftruments, and was instructed not to be sparing in rudeness and menaces in order to compel her to subscribe them. By the first, she was to refign her crown to her infant fon; by the fecond, the appointed the earl of Murray regent of Scotland; and by the third, the contlituted a council to direct the prince till this nebleman should arrive in Scotland, or on the event of his death or refusal of the office. On the part of the queen all refiltance was vain. Sir Robert Melvil affured her, that her best friends were of opinion, that what she did by compulfion, and in a prison, could have no power to bind her; and of this she was also assured by Throgmorton, the English ambassador, in a letter which Sir Robert Melvil brought in the scabbard of his sword. Mary therefore, forlorn and helpless, could not resist the barbarous rudeness with which Lindsay, pressed the subscription of the papers, though the would not read them. I've Coronation days after, the lords of the fecret council met at Stirling, for the coronation of the young prince, and confidered themselves as representing the three estates of the kingdom. A proteflation was made in the name of the duke of Chatelherault, that this folemnity should neither prejudge his rights of fuccession nor those of the other princes of the blood. The young prince being presented to them, the lords Lindsay and Ruthven appeared, and in the name of the queen renounced in his favour her right and title to the crown, gave up the papers, which the had fubfcribed, and furrendered the fword, fceptre, and royal crown. After the papers were read, the earls of Morton, Athol, Glencairn, Mar, and Menteith, with the mafter of Graham, the lord Hume, and Bothwel bishop of Orkney, received the queen's refignation in favour of her fon in the name of the three estates. After this formality, the earl of Morton, bending his body, and laving his hand on the Scriptures, took the coronation-oath for the prince, engaging that he should rule according to the laws, and root out all heretics and enemies to the word of God. Adam Bothwel then anointed the prince king of Scotland; a ceremony with which John Knox was displeased, as believing it to be of Jewish invention. This prelate next

delivered to him the fword and the fceptre, and finally Scotland. put the crown on his head. In the procedion to the cartle from the church, where the inaugurati n was pertion fermon, the earl of Athol carried the crown, Morton the feeptre, Glencairn the fword, and the earl of Mar carried the prince in his arms. These folemnities Deptroreceived no countenance from Elizabeth; and I hrog-ven by morton, by her express commend, was not present at E zabeth. Soon after this ceremony, the earl of Murray return- Murray re-

ed from France; and his presence gave such a thrength terns from and firmness to his faction, that very little opposition France. could be given by the partifans of Mary, who were unfettled and desponding for want of a leader. A short He pay a time after his arrival, this monthrous hypocrite and trai-vile to the tor waited on his diffrested and insulted sovereign at aren at Lochleven. His defign was to get her to defire him to accept of the regency, which he otherwise pretended to decline. The queen, unfufpicious of the deepnels of his arts, confcious of the gratitude he owed ler, and trufling to his natural affection, and their tie of a common father, received him with a tender welcome. She was in hafte to pour forth her foul to him; and with ferings. He heard her with attention: and turned occafionally his discourse to the topics which might lead her to open to him her mind without difguise in those fituations in which he was most anxious to observe it. His eye and his penetration were fully employed; but her diffress awakened not his tenderness. He feemed to be in suspense; and from the guardedness of his converfation the could gather neither hope nor fear. She begged him to be free with her, as he was her only friend. He yielded to her intreaties as if with pain and reluctance; and taking a comprehensive survey of her conduct, described it with all the severity that could affect her most. He could discover no apology for her misgovernment and diforders; and, with a mortifying plainnels, he preffed on her conscience and her honour, At times the wept bitterly. Some errors the confessed; and against calumnies the warmly vindicated herself, But all the could urge in her behalf made no impression on him; and he spoke to her of the mercy of God as her chief refuge. She was torn with apprehensions, and nearly distracted with despair. He dropped some words of consolation; and after expressing an attachment to her interests, gave her his promise to employ all his confequence to fecure her life. As to her liberty, he told her, that to achieve it was beyond all his efforts, and that it was not good for her to defire it. Starting from her feat, the took him in her arms, and kiffing him as her deliverer from the scaffold, folicited his immediate acceptance of the regency. He declared he and inhad many reasons to refuse the regency. She implored and inand conjured him not to abandon her in the extremity to prefs of her wretchedness. There was no other method, the him to acfaid, by which she berself could be faved, her son pro-cept of the tected, and her realm rightly governed. He gave way to her anxiety and folicitations. She befought him to make the most unbounded use of her name and authority, defired him to keep for her the jewels that yet remained with her, and recommended it to him to get an early possession of all the forts of her kingdom. He

Scotland, ous traitor, the fent her bleffing with him to the prince

74<sup>S</sup> Miferable fate of Bothwel.

In the mean time the wretched earl of Bothwel was struggling with the greatest difficulties. Sir William Murray and Kirkaldy of Grange had put to fea in fearch of him. He had been obliged to exercise piracy in order to fubfilt himfelf and his followers. His purfuers came on him unexpectedly at the Orkney itlands, and took three of his thips; but he himfelf made his escape. Soon after, having seized a Turkish trader on the coast of Norway, two ships of war belonging to the king of Denmark gave chace to him as a pirate. An engagement enfued, in which Bothwel was taken. His othicers and mariners were hanged in Denmark; but Bothwel himself, being known by some Scottish merchants, had his life spared. He was thrown, however, into a dungeon, where he remained ten years; and at last died melancholy and distracted. The regent fent commissioners to the king of Denmark to demand him as a prisoner; but that prince, confidering him as a traitor and usurper, totally difregarded his request. The dreadful fate of Bothwel did not make any alte-

Letters Mary and Bothwel.

ration in the fituation of the queen. Her enemies, bent on calumniating her, produced letters, which they faid were written and fent by her to that licentious nobleman during the life of the king. These letters are now generally admitted to have been forged by the rebels themselves, who practised likewise on some servants of Bothwel to accuse the oueen of the murder of her huf-Servants of band. The letters for fome time gained credit; but the confessions of the servants were all in her favour. When on the scaffold, they addressed themselves to the people; and after having folemnly declared the innocence of the queen, they protested before God and his angels, that the earl of Bothwel had informed them that the earls of Murray and Morton were the contrivers of the king's

who deinnocence of the

Bothwel

executed.

It was impossible that such transactions could advance the popularity of the regent. His unbounded ambition and cruelty to his fovereign began at last to open the eyes of the nation; and a party was forming itself in favour of the queen. She had been often meditating her escape from prison; and she at last effected it by means The queen of a young gentleman George Douglas, brother to her keeper, who had fallen in love with her. On the 2d from priim day of May 1 c68, about feven p'clock in the evening. An. 1568. when her keeper was at supper with his family, George Douglas, polleffing himfelf uf the keys of the caftle. hastened to her apartment, and conducted her out of prison. Having locked the gates of the castle, they immediately entered a boat which waited for them; and being rowed across the lake, the lord Seton received the queen with a chofen band of horfemen in complete armour. That night he conveyed her to his house of Niddrie in West Lothian; where having rested a few hours, the fet out for Hamilton.

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The escape of the queen threw her enemies into the greatest consternation. Many forfook the regent openly; and ftill more made their fubmissions privately, or The regent concealed themselves. He did not, however, despond; but refolved to defend himfelf by force of arms. The queen foon found herfelf at the head of 6000 men, and the regent opposed her with 4000. Mary, however, did not think it proper to risk a battle; knowing the capacity of the regent as a general, and that his officers

were all men of approved valour and experience. But Scotland in this prudent resolution she was overruled by the impetuofity of her troops. A battle was fought on the Mary 13th of May 1568, at Langfide near Glasgow; in army dewhich Mary's army was defeated, and her last hopes feated at blaited. The unfortunate queen fied towards Kirkeud. Langfide bright; where finding a place of fafety, she deliberated near Glaion the plan the thould afterwards follow. The result of gow. her deliberations, as frequently happens in cases of perplexity, led her to take the worst possible step. Notwithflanding all the perfidy which the had found in Elizabeth, Mary could not think that the would now refuse to afford her a refuge in her dominions; and therefore determined to retire into England. To this she had She ictolyes been folicited by Elizabeth during her confinement in to fly into Lochleven caftle; and the now refolved, in opposition England, to the advice of her most faithful counsellors, to make the fatal experiment.

In obedience to her order, the lord Herries addressed and puts a letter to Mr Lauder, the deputy-commander at Car-her defign hile; and after detailing her defeat at Langfide, defired in executo know if the might trust herfelf on English ground. tion-This officer wrote instantly an answer, in which he faid, that the lord Scroop the warden of the frontiers being absent, he could not of his private authority give a formal affurance in a matter which concerned the ftate of a queen: but that he would fend by post to his court to know the pleafure of his fovereign; and that if in the mean time any necessity should force Mary to Carlisle, he would receive her with joy, and protect her against her enemies. Mary, however, before the messenger could return, had embarked in a fishing boat with 16 attendants. In a few hours fhe landed at Wirkington in Cumberland; and from thence she proceeded to Cockermouth, where she continued till Mr Lauder, having affembled the gentlemen of the country, conducted her with the greatest respect to the castle of

Carlifle.

To Elizabeth she announced her arrival in a dis-Announces patch, which described her late misfortunes in general her arrival and pathetic terms, and in which the expressed an ear-beth, nest folicitude to pay her a visit at court, and the deep fense she entertained of her friendship and generosity. The queen of England, by obliging and polite letters, condoled with her on her fituation, and gave her affurances of all the favour and protection that were due to the justice of her cause. But as they were not accompanied with an invitation to London, Mary took the alarm. She thought it expedient to instruct Lord Fleming to repair to France; and the intrufted Lord Herries with a most pressing remonstrance to Elizabeth. Her anxiety for an interview in order to vindicate her and preffes conduct, her ability to do fo in the most fatisfactory her for an manner, and her power to explain the ingratitude, the interview. crimes, and the perfidy of her enemies, were urged to this princels. A delay in the state of her affairs was represented as nearly equivalent to absolute destruction. An immediate proof was therefore requested from Elizabeth of the fincerity of her professions. If the was unwilling to admit into her prefence a queen, a relation, and a friend, the was reminded, that as Mary's entrance into her dominions had been voluntary, her departure ought to be equally free and unrestrained. She valued the protection of the queen of England above that of every other potentate on earth; but if it could not be

granted,

Sent'and, granted, the would folicit the amity, and implore the aid, of powers who would commiferate her afflictions, and be forward to relieve them. Amidft remonstrances, however, which were fo just and natural, Mary did not full to give thanks to Elizabeth for the courtely with which the had hitherto been treated in the castle of Carlifle. She also took the opportunity of begging that this princess would avert the cruelty of the regent from her adherents, and engage him not to wafte her kingdom with hottility and ravages; and the had the prudence to pay her compliments in an affectionate letter to Secretary Cecil, and to court his kind offices in extricating her

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from her difficulties and troubles. But the queen of England was not to be moved by remonstrances. The voluntary offer of Mary to plead her cause in the presence of Elizabeth, and to satisfy all her scruples was rejected. Her disasters were a matter rather of exultation than of pity. The deliberations of the English queen, and those of her statesmen, were not directed by maxims of equity, of compaffion, or of generofity. They confidered the flight of Mary into England as an incident that was fortunate and favourable to them; and they were folicitous to adopt those measures which might enable them to draw from it the greatest profit and advantage. If the queen of Scots were allowed to return to her own dominions, it was probable that the would foon be in a condition to destroy the earl of Murray and his faction, who were the friends of England. The house of Hamilton, who were now zealous in the interests of France, would rife to confideration and power. England would be kept in perpetual broils on the frontiers; Ireland would receive melestation from the Scots, and its disturbances grow important and dangerous. Mary would renew with redoubled ardour her designs against the Protestant religion; and a French army would again be introduced into Scotland. For these reasons, Elizabeth and her ministers determining not to restore the queen of Scots to her throne, confidered what might be the probable confequences of permitting her to remain at liberty in England. In this fituation, she would augment the number of her partizans, fend her emiffaries to every quarter, and inculcate her title to the crown. Foreign ambassadors would afford her aid, and take a share in her intrigues; and Scotland, where there was fo high an object to be gained, would enter with cordiality into her views. This plan being also hazardous, it was deliberated whether the queen of Scots might not be allowed to take a voyage to France. But all the pretenfions which had hitherto threatened the crown of Elizabeth would in this case be revived. A strong refentment to her would even urge Mary and Charles IX. to the boldest and most desperate enterprises. The party of the queen of Scots in England, firong from motives of religion and affection, and from discontents and the love of change, would thimulate their anger and ambition. England had now no territories in France. A war with that country and with Scotland would involve the greatest dangers. On revolving these measures and topics, Elizabeth and her counfellors were induced to confine her conclude, that it was by far the wifest expedient to keep the queen of Scots in confinement, to invent method to augment her diffres, to give countenance to the regent, and to hold her kingdom in dependence and

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In confequence of this cruel and unjust resolution, Sections. Mary was acquainted, that the could not be admitted to Elizabeth's preferre till the bad cleared herfelf of Elizabeth the crimes imputed to her; the was warned not to think refutes to of introducing French troops into Scotland and it was admit the hinted, that for the more fecurity the ought to be re-quen into moved farther from the frontier. This mullage at once fence. showed Mary the imprudence of her conduct in trufting herfelf to Elizabeth. But the error could not now be remedied. She was watched to prevent her eleape, and all her remonstrances were vain. The earl of Murray had offered to accuse her; and it was at last concluded that Elizabeth could not, confidently with her own honour and the tranquillity of her government, fuffer the queen of Scots to come into her presence, to depart out of England, or to be reflored to her dignity, till her cause should be tried and decided. An order was Mary is given to remove her from Carlifle castle to a place of removed Brength at a greater diffance from the borders, to con-from Car fine her more closely, and to guard against all possibility closely

of an escape. In confequence of these extraordinary transactions,

a trial took place, perhaps the most remarkable for its injuffice and partiality of any recorded in hittory. Mary, confined and apprehensive, submitted to be tried as they thought proper. The regent, who was to be the accufer, was summoned into England, and commissioners were appointed on both sides. On the 4th of October, the commissioners met at York; and four days after, Commisthe deputies of the queen of Scots were called to make her trial known their complaints. They related the most mate-meet at rial circumitances of the cruel usage she had received. York. Their accusations were an alarming introduction to the bufiness in which the regent had embarked; and notwithstanding the encouragement shown to him by Elizabeth, he was affailed by apprehensions. The artifices of Maitland added to his alarms. Instead of pro-Infamous ceeding instantly to defend himself, or to accuse the behaviour queen, he fought permission to relate his doubts and of Murray. scruples to the English commissioners. In his own name, and with the concurrence of his affociates, he demanded whether they had fusicient authority from Elizabeth to pronounce, in the case of the murder, Guilty or not guilty, according to the evidence that should be laid before them; whether they would actually exercise this power; whether, in the event of her criminality, their fovereign should be delivered to him and his friends, or detained in England in fuch a way as that no danger flould enfue from her activity; and whether on her conviction, the queen of England would allow his proceedings, and those of his party, to be proper, maintain the government of the young king, and support him in the regency in the terms of the act of parliament which had confirmed him in that office. these requisitions, it was answered, on the part of the English deputies, that their commission was so ample, that they could enter on and proceed in the controverfy; and that they had liberty to declare, that their fovereign would not restore the queen of Scots to her crown, if fatisfactory proofs of her crime should be produced; but that they knew not, and were not infructed to fay, in what manner the would finally conduct herfelf as to her person and punishment. With regard to the fovereignty of the prince, and the regency of the earl of Murray, they were points, they observed, which

Mary,

Scotland, might be canvaffed at a future period. These replies did not please the regent and his affociates; and they requested the English commissioners to transmit their doubts and fcruples to be examined and answered by Elizabeth

But while the regent discovered in this manner his apprehensions, he yet affirmed that he was able to anfwer the charges brought against him and his faction; and this being in a great measure a matter diffinct from the controverly respecting the murder, he was defired to proceed. It was contended, that Bothwel, who had 764 proceed. It was contended, that Bothwel, who had His a rufa- the chief concern in the murder of Lord Darnley, poftion against fessed such credit with the queen, that within three months after that horrible event, he feized her person and led her captive to Dunbar, obtained a divorce from his wife, and married her: that the nobility, being moved with his crimes, did confederate to punish him; to relieve her from the tyranny of a man who had ravished her, and who could not be her husband; and to preferve the life of the prince: that having taken arms for thefe purposes, the earl marched against them; but that, proposing to decide the quarrel by single combat, his challenge was accepted: that he declined to enter the lists, and fled : that the queen, preferring his impunity to her own honour, favoured his escape by going over to the nobility: that they conducted her to Edinburgh, where they informed her of the motives of their proceedings, requested her to take the proper steps against him and the other regicides, and intreated her to diffolve her pretended marriage, to take care of her fon, and to confult the tranquillity of her realm: that this treatment being offensive to her, the menaced them with vengeance, and offered to furrender her crown if they would permit her to poffeis the murderer of her hufband : that her inflexible mind, and the necessities of the state, compelled them to keep her at a distance from him, and out of the way of a communication with his adherents: that during her confinement, finding herfelf fatigued with the troubles of royalty, and unfit for them from vexation of fpirit and the weakness of her body and intellect, the freely and of her own will refigned her crown to her fon, and conflituted the earl of Murray regent; that the king accordingly had been crowned. and Murray admitted to the regency; that the fanction of the three estates assembled in parliament having confirmed these appointments, an universal obedience of the people had enfued, and a fleady administration of justice had taken place: that certain persons, however, envious of the public peace and order, had brought her out of prifon, and had engaged to fulvert the government; that they had been disappointed in their wicked attemets; and that it was most just and equitable, that the king and the regent should be supported in power, in opposition to a rebellious and turbulent faction.

> This apology, fo imperfect, fo impudent, and fo irreconcilcable with history, received a complete confutation from the deputies of the queen of Scots. To take arms against her because Bothwel had her favour, was, they faid, a lame justification of the earl of Murray and his friends; fince it had never been properly manifested to her that he was the murderer of her hufband. He had indeed been suspected of this crime; but had been tried by his peers, and acquitted. His acquittal had been ratified in parliament, and had obtained the express approbation of the party who were

against her authority. These reliels had even urged her to accomplish her marriage with him, had recommended him as the fiftest person to govern the realin, and had subscribed a bond afferting his innoceuce, and binding themselves to challenge and punish all his adverfaries and opponents. They had never, either before or after the marriage, like true subjects, advertised the queen of his guilt, till, having experience of their strength, they secretly took arms, and invested her in Borthwick cattle. The first mark of their displeasure was the found of a trumpet in hostility, and the difplay of warlike banners. She made her escape to Dunbar; and they returning to Edinburgh, levied troops, injued proclamations, took the field against her, under pretence of delivering her from his tyranny, and got possession of her person. She was willing to prevent the effusion of blood, and was very far from preferring his impunity to her honour. Kirkaldy of Grange, in obedience to instructions from them, defired her to cause him to retire, and invited her so pass to them under the promife of being ferved and obeyed as their fovereign. She confented, and Kirkaldy taking Bothwel by the hand, recommended it to him to depart, and affored him that no man would purfue him. It was by their own contrivance that he fled; and it was in their power to have taken him: but they showed not the smallest defire to make him their prifoner. He remained, too, for some time in the kingdom, and was unmolefted by them; and it was not till he was on the feas that they affected to go in fearch of him. When the furrendered herfelf in the fight of their army, the earl of Morton ratified the Hipulations of Kirkaldy, made obeifance to her in their names, and promifed her all the fervice and honour which had ever been paid to any of her predecessors. They were not flaves, however, to their engagements. They carried her to Edinburgh, but did not lodge her in her palace. She was committed to the house of a burgeis, and treated with the viled indignities. She indeed bruke out into menaces, and threatened them; nor was this a matter either of blame or of wonder. But it was utterly falle that the had ever made any offer of giving away her crown, if the might possess Bothwel. In the midit of her fufferings, the had even required them by Secretary Maitland to specify their complaints, and befought them to allow her to appear in parliament, and to join and affilt in feeking a remedy to them from the wildom of the three estates. This overture, however, fo falutary and fubmiffive, they abfolutely rejected .-They were animated by purpoles of ambition, and had not in view a redrefs of grievances. They forced her from her capital in the night, and imprisoned her in Lochleven; and there, they affirm, being exhausted with the toils of government and the languors of fickne's, the, without confraint or folicitation, refigned her crown to her fon, and appointed the earl of Murray to be regent during his minority. This indeed was to affume an unlimited power over facts; but the truth could neither be concerled, subverted, nor palliated. She was in the vigour of youth, unaffailed by maladies, and without any infirmity that could induce her to furrender the government of her kingdom. Nor was it unknown to them that the earl of Athol and the barons Tullibardin and Lethington, principal men of their council,

765 confuted by the deputies of

Scotland, council, dispatched Sir Robert Melvil to her with a ring and prefents, with a recommendation to lubicribe whatever papers should be laid before her, as the only means in her power to fave her life, and with an affurance that what the did under captivity could not operate to her injury. Melvil, too, communicated to her an intimation in writing from Sir Nicholas Throgmorton, which gave her the same advice and the same affurance. To Sir Nicholas Throgmorton the fent an answer, informing him that the would follow his counfel; and enjoining him to declare to his millreis her haplels flate, and that her refignation of her crown was contirained. Nor did this ambaffador neglect her commission; and it was a popular perfuafion that Elizabeth would have marched an army to her relief, if the had not been intimidated by the threats of the rebels, that the blood of the queen of Scots would be the wages of her foldiers. It was also not to be contradicted, that when the lord Lindfay presented to his fovereign the inflruments of refignation, he menaced her with a closer prison and a speedy death if the thould refuse to subscribe them. It was under an extreme terror, and with many tears, that the put her name to them. She did not confider them as her deeds; did not read them; and protested, that when the was at liberty, the would difavow tubscriptions which had been extorted from her. Even Douglas, the keeper of Lochleven, could not endure to be a witness of the violence employed against her. He departed out of her presence, that he might not see her surrender her rights against her will; and he fought and obtained from her a certificate, that he was not acceffory to this compulsion and outrage. Nor was it confishent with the flightest probability or reason, that she would, of her own accord, execute a refignation of her royal ellate, and retain no provision for her future maintenance. Yet by these extraordinary deeds, the condition to which she was reduced was most miterable and wretched. For no portion of her revenue was referred to her, and no fecurity of any kind was granted either for her liberty or her life. As to the coronation of the prince, it could have no validity, being founded in a pretended and forced refignation. It was also defective in form; for there were in Scotland more than a hundred earls, bishops, and lords; and of these the whole, or at least the major part, ought to concur in matters of importance. Now there did not affift in it more than four earls, fix lords, one bishop, and two or three abbots. Protestations, too, were openly made, that nothing transacted at that period should be any prejudice to the queen, her estate, and the blood-royal of Scotland, neither could it be rightly conceived, that if the queen had willingly furrendered her dignities, the would have named the earl of Murray to the regency in preference to the duke of Chatelherault, who had a natural and proper claim to it, and who had deferved well of her country by discharging that high office during her minority. As to the ratification of the investiture of the young prince, and the regency of the earl of Murray, by the effates, it was observable, that this was done in an illegal parliament. It was an invalid confirmation of deeds which in themselves had no inherent power or efficacy. The principal nobility, too, objected in this parliament to this ratification. Proteflations were made before the lords of the articles, as well as before the three estates, to interrupt and descat transactions which

were hoftile to the conflitution and the laws. Nor scalland was it true that the government of the king and the regent was universally obeyed, and administered with equity and approbation: for a great division of the nobility never acknowledged any authority but that of the queen, and never held any courts but in her name ; and it was notorious, that the administration of the usurpers had been marked and diffinguithed by enormous cruelties and oppressions. Many honourable families and loval subjects had been persecuted to ruin, and plundered of their wealth, to gratify the retainers and toldiers who upheld this infolent domination; and murder and bloodihed, theft and rapine, were prevalent to a degree unheard of for many ages. On all these accounts, it was inferred, that Elizabeth ought to support the queen of Scots, to reflore her to her crown, and to overthrow the power of a most unnatural and rebellious

To these facts the regent did not pretend to make The rea at any objection; and though required by the English care to commillioners to produce better reasons for his treat-replyment of the queen, he did not advance any thing in his own behalf. He even allowed the charges of treafon and usurpation to be pressed against him, without prefuming to answer. This surprising behaviour, which might readily have been confirmed into an acknowledgment of his guilt, it feems, proceeded from fome conferences which he had with the duke of Norfolk. This nobleman was a zealous partizan for the fuccession of Mary to the English crown. He was strongly possessed with the opinion, that his mistress, while she was difposed to gratify her animosity and jealousies against the queen of Scots, was fecretly refolved, by fixing a flain on her, to exclude her altogether from the succession, and to involve her fon in her difgrace. He was eager to defeat a purpole, which he conceived to be not only unjust in itself, but highly detrimental to his country. It was in his power to act with this view; and he obferved with pleafure, that Maitland of Lethington was favourable to Mary. To this statesman, accordingly, he ventured to express his surprise, that the regent could be allured to think of an attempt fo blameable as that of criminating his fovereign. If Mary had really given offence by milcarriage and miftakes, it was not the bufinels of a good subject industriously to hold her out to fcorn. Anxious and repeated conferences were held by them; and at length it was formally agreed, that the regent should not accuse the queen of Scots; and that the duke in return should protect him in the favour of Elizabeth, and fecure him in the possession of his re-

But while the regent engaged himself in this in-His extrigue with the duke of Nortolk, he was defirous not-trem inliwithflanding of gratifying the refentments of Eliza-diameis, beth, and of advancing his own interests by undermin- and bypoing secre ly the same and reputation of his sovereign, rify. He instructed Maitland, George Buchanan, James Macgill, and John Wood, to yo to the duke of Norfolk, the earl of Suffex, and Sir Ralph Sadler, and to communicate to them as private persons, and not in their character of commissioners, the letters to Bothwel, and the other proofs on which he effirmed the guilt of the queen of Scots. It was his defire that they should examine these papers, give their opinion of them to E. lizabeth, and inform him whether the judged them fuf-

Scottish deputies would not exhibit their charge or cri- Scotland.

of Dal-

Scotland. ficient evidences of Mary's concern in the murder of her hufband. If this should be her opinion, he testified his own readiness, and that of his affociates, to fivear that the papers were genuine, and of the hand-writing of the queen. By this operation, he was folicitous to establish his vouchers as incontestable, and as testimonics of record. The commissioners examined his papers, and heard the comments of Buchanan and his other atlittants; but they do not feem to have given them much credit. They described them, however, to Elizabeth; pointed out the places of them which were strongest against Mary; and allowed that their force and meaning were very great, if their genuineness could be demonstrated. But of their genuineness they acknowledged that they had no other evidence than flout affertions, and the offer of oaths. The earl of Suffex, in a private dispatch to Secretary Cecil, does more than \*Robertson infinuate \*, that he thought Mary would be able to prove the letters palpable forgeries; and with respect meny's Hi- to the murder of the king, he declares in plain terms, fory, &cc. that from all he could learn, Murray and his faction would, on a judicial trial, be found by " proofs hardly to be denied," more criminal in that charge than the queen herfelf. Elizabeth and her ministers, on the receipt of fuch dispatches, did not think it expedient to empower them to adopt a method of proof so palpably fuspicious, and in which the could not openly concur,

> direct affurance of the validity of his papers, when he fubmitted copies of them to her inspection by his fecretary Mr Wood. His attempt at this juncture was of a fimilar kind; and it could not recommend him to the

without grossly violating even the appearance of probity.

The regent had before attempted to engage her in a

English commissioners.

Nor were these the only transactions which took place during the continuance of the commissioners at York. The inventive and refining genius of Lethington had fuggested to him a project, which he communicated in confidence to the billiop of Rofs. It received the warm approbation of this ecclefiaftic; and they determined to put it to a trial. While they attended the duke of Norfolk to the diversion of hawking, they infinuated the notion of his allying himfelf with the queen of Scots. Her beauty, her accomplishments, and her kingdom, were high allurements to this nobleman; and as he was the greatest subject of England, and perhaps of Europe, he feemed not to be unworthy of them. The propofal was very flattering to the admiration he entertained of Mary, to his ambition, and to his patriotifm. The more he thought of it, he was the more convinced of its propriety. His access to be informed of the practices of the regent, destroyed in him the operation of these slanders by which her enemies were so active in traducing her. In this state of his mind, the lady Scroop, his sister, who resided at Bolton Castle with Mary, completely confirmed his refolution. For from her he learned the orderly carriage and the amiable dispositions of the queen of Scots. He was now impatient to have a fit feafon to make her formally the offer of his hand.

Elizabeth in the mean time was thrown into confufion by the refusal of the regent to accuse the queen of Scots. To give a positive answer to his doubts and scruples was not confident with her honour; and yet, without this condescension, the was affured that the

mination. Having deceived Mary therefore with fair promifes, the was active in gaining over the regent to her views; which having done, he at last consented to prefer his accufation against Mary before the commiffioners, who now met at Wettminster by the command of Elizabeth. The charge was expressed in general and Articles of prefumptive terms. It affirmed, that as James earl of the queen's Bothwel was the chief executor of the murder of King accufation. Henry, fo the queen was his perfuader and counfel in the device; that the was a maintainer and fortifier of this unnatural deed, by stopping an enquiry into it and preventing its punishment, and by taking in marriage the principal regicide; that they had begun to exercise a cruel tyranny in the commonwealth, and had formed a resolution of destroying the innocent prince, and of transferring the crown from the true line of its kings to a bloody murderer and a godless tyrant; and that the estates of the realm, finding her unworthy of reigning, had ordered her to refign the crown, her fon to be crowned, and the earl of Murray to be established in the regency. Before this accufation was preferred. the earl of Lenox presented himself before the English commissioners; made a lamentable declaration of his griefs, and produced to them the letters which had

with a writing which contained a direct affirmation of her guilt. The deputies of Mary were aftonished at this accusa-Remontion, being a violent infringement of a protestation which strances of they had formerly given in, and which had been accept the Scots ed, namely, that the crown, estate, person, and honour deputies.

peffed between him and Mary concerning the murder,

of the queen of Scots, should be guarded against every affault and injury; yet in all these particulars the was touched and affected. It was understood that no judicial proceedings should take place against her; yet she was actually arraigned as a criminal, and her deputies were called on to defend her. They discovered not, however, any apprehension of the validity of the charge; and while they fully explained the motives which actuated the earl of Murray and his faction in their proceedings, they imputed to perfons among themselves the guilt of the king's murder. They affirmed, that the queen's adverfaries were the accomplices of Bothwel; that they had subscribed a bond conspiring the death of the king; and that their guilt had been attested in the fight of 10,000 spectators by those of their confederates who had already been executed. They exclaimed against the enormous ingratitude, and the unparalleled audacity of men, who could forget so completely all the obligations which they owed to their fovereign; and who, not fatisfied with usurping her power, could even charge her with a murder which they themselves had committed. They represented the strong necessity which had arisen for the fullest vindication of their mistrefs; and they faid, that in so weighty an extremity, they could not possibly suppose that the would be reflrained from appearing in her own defence. They had her instructions, if her honour was touched, to make this requifition; and till it was granted, they infifted, that all proceedings in the conference should be at an end. A refusal of this liberty, in the situation to which the was driven, would be an infallible proof that no good was intended her. It was their with to deal with fincerity and uprightness; and they were persuad-

ed.

Scotland ed, that without a proper freedom of defence, their queen would necessarily fall a victim to partiality and injustice. They therefore earnestly pressed the Englith committioners, that the might be permitted to prefent herfelf before Elizabeth, the nobles of England. and the ambaifadors of foreign nations, in order to manifest to the world the injuries she had suffered, and her innocence.

After having made these spirited representations to

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the English commissioners, the deputies of Mary defired to have access to the queen of England. They admitted to were admitted accordingly to an audience; and in a an audience formal address or petition they detailed what had happened, infilted that the liberty of perfonal defence should be allowed to their mistress, and demanded that the earl of Murray and his affociates should be taken into cuftody, till they should answer to such charges as might be preferred against them. She defired to have some time to turn her thoughts to matters of fuch great importance; and told them, that they might foon expect to hear from her.

and make

dation.

The bishop of Ross, and the other deputies of Mary, propofals of in the mean time, ftruck with the perfidious management of the conference, convinced of the jealousies and accommopaffions of Elizabeth, fensible that her power over her commissioners was unlimited, and anxious for the deliverance of their miftrefs, made an overture for an accommodation to the earl of Leicester and Sir William Cecil. They proposed, that the original meaning of the conference should still be adhered to, notwithstanding the accufation which had been prefented by the earl of Murray; and that Elizabeth, difregarding it as an effort of faction, should come to a good agreement with Mary and her subjects. For this scheme, which is so expressive of their suspicions of Elizabeth and of her commissioners, they had no authority from their mistress, They acknowledged accordingly, that it was made without her instructions, and intimated that they were moved to it by their anxiety for peace and the re-establishment of the affairs of the Scottish nation. They were introduced at Hampton-court to Elizabeth; who liftened to their motion, and was averse to it. They then repeated the defires of the petition they had prefented to her; but she did not think it right that the queen of Scots should as yet have the liberty of defending herself in person. She confessed, indeed, that it was reasonable that Mary should be heard in her own cause; but she affirmed, that the was at a loss at what time the thould appear, in what place, and to whom the thould address herfelf. While the let fall, however, the hope that Mary might obtain the permission so repeatedly and so earnestly requested, the expressed her resolution that the earl of Murray should first be heard in support of his charge, and that the thould attend to the proofs which he affirmed himfelf in readiness to produce. After this business should be transacted, she told the deputies of Mary that the would again confer with them. It was to no purpole that they objected to a procedure fo strange and lo improper. An accusation, said they, is given; the perfun accused is anxious to defend herself; this privilege is denied her; and yet a demand is to be made for the vouchers of her guilt. What is this but an open violation of inflice? It did not become them to dispute her pleasure in her own dominions : but they would not, they informed her, confent to a measure

which was fo alarming to the interests of their queen; Sotland and if it was adopted, the might expect that a protest against its validity would be lodged with her commit-

The English committoners refumed the conference, Alternation and were about to demand from the earl of Murray netween the proofs with which he could support his accusation, the com-The bishop of Rols and his affociates being admitted missioners. to them, expressed themselves in conformity to the conversation they had held with Elizabeth. They declared, that it was unnatural and prepofterous in their fovereign to think of receiving proufs of the guilt of the queen of Scots before the was heard in her own defence; and they protested, that in the event of this proceeding, the negociation should be dissolved, and Elizabeth be difarmed of all power to do any prejudice to her honour, person, crown, and estate. The commissioners of the English queen were affected with this protestation, and felt more for the honour of their miffres than for their own. They refused to receive it, because there were engroffed in it the words of the refufal which Elizabeth had given to the petition for Mary. They did not choose to authenticate the terms of this refusal by their fubfcriptions; and were folicitous to suppress so palpable a memorial of her iniquity. They alleged, that the language of her refusal had not been taken down with accuracy; and they pressed Mary's deputies to prefent a fimpler form of protestation. The bishop of Rofs and his colleagues yielded not, however, immediately to their infidious importunity; but, repeating anew their protestation as they had at first planned it, included the express words of Elizabeth; and, when compelled by the power of the commissioners to expunge the language of the English queen, they slill insisted on their protestation. An interruption was thus given to the validity of any future proceedings which might affect the reputation of the queen of Scots. The earls of Murray and Morton, with their friends, were very much difappointed. For they had folaced themselves with the hope of a triumph before there was a victory; and thought of obtaining a decree from Elizabeth, which, while it should pronounce the queen of Scots to be an adulteress and a murderer, would exalt them to the station and character of virtuous men and honourable

Though the conference ought naturally to have ter-Elizabeth minated on this protestation of the deputies of Mary demands against the injustice of Elizabeth, yet it did not fatisfy vouchers of the latter princess that the accusation only had been laid to Madelivered to her commissioners: she was seriously dif-ry's charge. posed to propose a judicial production of its vouchers. The charge would thus have a more regular aspect, and be a founder foundation on which to build, not only the infamy of the Scottish queen, but her own justifica-tion for the part she had acted. Her commissioners accordingly, after the bishop of Ross and his colleagues had retired, difregarding their proteflation, called on the earl of Murray and his affociates to make their appearance. The pretence, however, employed for drawing from him his papers was fufficiently artful, and bears the marks of that fyilematic duplicity which to thamefully characterizes all the transactions of Elizabeth at this period. Sir Nicholas Bacon the lord keeper addreffed himfelf to the earl of Murray. He faid, that, in the opinion of the queen of England, it was a matte.

Shameful Llizabeth.

Scotland, france and furprifing, that he flould accuse his fovereign of a crime most horrible, odious to God and man, against law and nature; and which, if proved to be true, would render her infamous through all the kingdoms of the world. But though he had so widely forgotten his duty, yet Elizabeth had not renounced her love of a good filter, a good neighbour, and a good friend; and it was her will that he and his company should produce the papers by which they imagined they were able to maintain their accufation. The earl of Murray, in his turn, was not wanting in diffimulation. He expressed himfelf to be very forry for the high displeasure he had given to Elizabeth by his charge against Mary, and for the obstinacy of the Scottish queen and her deputies, which made it necessary for him to vindicate himself by discovering her dishonour. Under the load of this double and affected forrow, he made an actual and formal exhibition of the vouchers by which he pretended to fix and establish her criminality. A particular account and examination of these vouchers, the reader will find in our life of MARY, and in the works to which we have there referred.

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To enumerate all the shifts to which Elizabeth and the adverfaries of Mary were put, in order to make the strange evidence that was produced wear some degree An. 1569. of plaufibility, would far exceed our bounds. It is fufficient to fay, that after having wearied themselves with prevarication and falsehood; after having pressed Mary to abdicate her crown, a requisition with which she never would comply; and after having finally refused to hear her in her own defence; Elizabeth, on the 10th of January 1569, gave leave to the earl of Murray and his accomplices to depart her dominions; telling them, that fince they came into England, nothing had been objected to them which could hurt their honour as men, or affect their allegiance as subjects. At the same time the told them, that they had produced no information or evidence by which fhe was entitled to conceive any bad opinion of the queen of Scots. It was therefore her pleasure to allow the affairs of Scotland to continue precifely in the condition in which they were fituated at the beginning of the conference. Three days after this, they formally took their leave of the quien of England. The deputies of Mary remonfirated, protested, and argued, to no purpose; the English privy-council, with the most provoking indifference, told them, that " the earl of Murray had promifed to their lovereign, for himfelf and his company, to return to England at any time the should call on him. But, in the mean time, the queen of Scots could not, for many firong reasons, be permitted to take her departure out of England. As to her deputies, they would move Elizabeth to allow them to return to Scotland; and they believed that the would not detain them."

Mary was exceedingly disappointed and chagrined by this singular issue of her cause. Her friends during this period had increased, and the cruel and injurious treatment the had met with was fo flagrant, that the earl of Murray and his faction were apprehensive of a fudden reverse of fortune. The earls of Argyle and Huntly protested against the injustice of their proceedings, at the lame time that they openly accused the earl of Murray and Maitland of Lethington as the affeciates of Both el in the murder of the king. This charge, fin ie comaccording to the custom of the times, they offered to prove as true and certain by the law of arms; and they Scotland. protested, that if their adversaries should delay to answer their challenge, they should be held as confessing themfelves guilty of the murder. Elizabeth, however, forefeeing fomething of this kind, had difinified Murray and his adherents with precipitation, so that there could now be no formal production of it before the English commisfioners. It was known and published, however, in the court of Elizabeth. Murray made an evafive reply, and Lethington made none at all.

This, however, afforded no relief to the unhappy Mary comqueen of Scotland. Her inveterate and treacherous mitted to enemy held her fait, and endeavoured by every method finement. in her power to render her life miferable. Mary, on the other hand, loft neither her spirit nor her dignity. She attempted to rouse in the minds of her nobles that paffion for liberty which had once fo much diffinguished the Scottish nation, but which now feemed to be exchanged for a fervile fubication to the queen of England, But fome difpatches which urged thefe topics being intercepted. Mary was removed from Bolton to Tutbury caille, where the was intrufted to the earl of Shrewfbury, and committed to closer confinement than the had yet experienced; while Elizabeth disperfed manifestoes all over the northern counties of England. complaining of reports injurious to her honour, and difclaiming all hostile intentions towards the liberties of

Scotland.

In the mean time Murray returned to Scotland, The regent where he took every method of establishing himself in himself in his ill acquired power. Mary had commanded the duke power. of Chatelherault to return to Scotland, in order to raife forces for her advantage; but this nobleman had been long detained in England by the artifices of Elizabeth, fo that Murray had arrived there before him. The duke, however, began to raise forces, and might have proved a troublefome antagonist, had not Murray deceived him by a pretended negociation, and got him into his power; immediately after which he imprisoned him, and forced most of the other lords who were on that fide to fubmit.

When the news of this important event reached the queen of Scots, the inftructed the bishop of Ross to repair to Elizabeth, and to make remonstrances in their Negociabehalf. By the agency of this ecclefiaftic, whom the tions in had conflituted her ambassador, she meant to conduct England, her transactions with the queen of England; and from the conclusion of the conferences, the had been meditating a proper plan on which to accomplish her liberty and restoration. The bishop of Ross, after complaining loudly of the rigorous proceedings of the regent, and intimating the general belief which prevailed that he was supported by the English court, pressed the propriety of a final fettlement of the affairs of his miftrefs. With this view, he was admitted by Elizabeth and her privy-counsellors to frequent conferences; and they even defired him to present to them in writing the articles which he was commanded to propose as the foundation of a treaty. He failed not to comply with this injunction; and it was the import of his schedule of agreement, that Mary should engage never to molest Elizabeth, and the lawful heirs of her body, respecting the fuccession to the crown of England and Ireland, if she

could obtain fufficient fecurity that on their demife her

Scotland, and friendship should be concluded between the two queens, by the advice of the effates of both kingdoms; that this league thould be ratified by their oaths and tenls, and confirmed by parliamentary acts; and, if any farther affurance thould be deemed necessary on the part of Mary, that the would procure the kings of France and Spain to be the guarantees of her punctuality and concord; that in compliance with the pleafure of Elizabeth, the would extend her clemency to all her subjects who had offended her, under the provision that they would fubmit to her lovere gnty, deliver up the prince her fon, rettore her castles, give back her jewels, and furrender to her friends and fervants the estates and polfestions of which they had been deprived; that the murder of the king should be punished against all the actors in it without delay, and according to the laws; that to prevent Bothwel from returning to Scotland, and to please those who imagined that it was in his power to excite ferments and trouble, the would be bound to inflitute a process of divorce against him; and that these articles being adjusted, the queen of England should allow her to proceed to Scotland, under a fate and honourable convoy, to be re-established by the three estates in her realm and government, and to be gratified with the diffolution of all the acts and statutes which had been passed to her prejudice.

785 Advances These heads of alliance were received with a respect are made and cordiality which were not usually paid to the transin the proactions of Mary in the court of Elizabeth; and the

bithop of Rofs was elated with expectation. Their juf-Mary with tice, however, was not the fole, or even the chief, cause the duke of of this attention and complaifance. A combination of the English nobles had taken place against Cecil, whose power and credit were objects of indignation and jealowy; and the duke of Norfolk had been active and fucceisful in promoting the scheme of his marriage with the queen of Scots. Taking advantage of the condition of parties, he had practifed with the principal nobility to encourage his pretentions to Mary; and he fecretly communicated to them the promifes of support he had received from the earl of Murray. By the advice and influence of Sir Nicholas Throgmorton, he engaged in his behalf the earl of Leicester; and this nobleman imparted the matter to the earls of Pembroke and Arundel. The duke himfelf was able to conciliate the favour of the earls of Derby, Bedford, Shrewsbury, Southampton, Northampton, Northumberland, Westmoreland, and Suffex. In the mean time, he was eagerly preffing Mary herfelf with his fuit and importunities; and had mutually exchanged the tokens of a conflant and fincere love. It was in this forward flate of the match, that the bishop of Ross drew up the schedule of articles for the accommodation of the rival

> At the defire of Elizabeth, her privy-council conferred with the bishop on these articles at different times; and they expressed themselves highly pleased with their general import. Little doubt was entertained of their fuccess; and the earl of Leicester, in order to complete the business, and to serve the duke of Norfolk, undertook to give them a more special force, and to improve them by the introduction of a flipulation about the marriage of the queen of Scots. According to his scheme of agreement, it was required of Mary, that she should be a party to no attempt against the rights and titles of

the queen of England, or her heirs; that the should Scotland. conient to a perpetual league, offenfive and defenfive, between the two kingdoms; that the should finally establith the Protestant religion in Scotland; that the thould admit to her favour thole of her lubjects who had appeared against her; that if the had made any assignment of her kingdom to the duke of Anjon, in the expectation of a marriage to be contracted between them, it thould be diffolved; and that innead of looking to a foreign prince, whose alliance would be dangerous, not only to the religion but to the liberty of the two realms. the would agree to marry the duke of Norfolk, the first peer of England. These articles being communicated to the bithop of Rois, he was defired to transmit them to Mary; but as they touched on fome points concerning which he had no influctions, he declined this office. and recommended the propriety of their employing a special messenger of their own in a commission of such high importance. They accordingly appointed Mr Candith to go with them to the queen of Scots, and, in a formal dispatch, they extolled the merits of the duke of Norfolk; affured her of the general favour and support of the English nobility, if the thould approve of his love : and intimated their belief that Elibabeth would not be averfe to a marriage which gave the certain prospect of tranquillity and happiness to the two kingdoms. This dispatch was in the hand-writing of Leicetter; and it was subscribed by this nobleman, and the earls of Arundel and Pembroke, and the lord Lumley.

Mary, in the folitude of her prison, received this ap-Mary aplication with pleasure. By the lord Boyd she return-grees to the ed a very favourable answer to it; but took the liberty treaty proto admonish them of the necessity of their fecuring the posed to good-will of Elizabeth, left her diflike of the treaty of the marriage should excite new disasters and misfortunes. and involve the duke of Norfolk in inconvenience and danger. This advice, the fuggestion of her delicacy and prudence, did not draw their attention fufficiently. The duke of Norfolk was now impatient to conclude this great transaction, in which he had engaged himself; and admitted into his councils many nobles whom he had hitherto neglected to court, and many gentlemen who were confiderable from their diffinction and fortunes. The countenance and confent of the kings of France and Spain were thought necessary to the meafures in agitation, and were tolicited and obtained. In the universality of the applause with which they were honoured, it was supposed that Elizabeth would be allured into a cordial acknowledgement of their propriety, or be compelled to afford them a reluctant approbation; and fo ardent a belief prevailed of their fortunate termination, that the marriage-contract was actually intrufted to the keeping of M. Fenelon the French ambaffador.

The activity of the duke of Norfolk with the English nobles did not so much engross his attention as to make him forget the regent. He kept up a cl fe correspondence with him in consequence of the corcert into which they had entered, and received the most ample affurances of his fidelity and fervice. The mott I. nguine and feducing hopes elated him. The regent, while he slipulated for terms of favour and security to himself and his faction, appeared to be full of the marriage, as a measure from which the greatest advantages

The Engpropole articles to Mary.

Norro.k.

Scotland, would arife to the two kingdoms, to the two queens, and to the true religion. The match, in the meantime, was anxiously concealed from Elizabeth; but the was zealoufly preffed to conclude an accommodation with Mary, on the foundation of the schedule of agreement presented by the bishop of Rofs. After having had many conferences with her privy-council, she feemed inclined to treat definitively for the reltoration of the queen of Scots, and actually agreed to open the tra, fact on to the regent. The lord Boyd was fent into Scotland on this business; and while he carried her letters, he was intrufted with dispatches from Mary, the duke of Norfolk, and Sir Nicholas Throgmorton,

As the regent was returning from his northern expedition, he was faluted at Elgin by the lord Boyd, who immediately laid before him the dispatches and instructions with which he had been charged. The queen of England, in her letters, made three propositions in behalf of Mary, and intimated a defire that one of them should be accepted. The queen of Scots, she faid, might be restored fully and absolutely to her royal estate: she might be affociated in the government with her fon, have the title of queen, and, till the prince should attain the age of 17 years, the administration might continue in the regent; or the might be permitted to return to Scotland in a private station, and have an honourable appointment to maintain her in a fafe and happy obscurity. The dispatches from Mary to the regent defired, that judges might immediately be allowed to inquire into the legality of her marriage with Bothwel: and that, if it was found to have been concluded in opposition to the laws, it should be declared void, and that the liberty be granted to her of entering again into a matrimonial engagement. The duke of Norfolk expressed to the regent the gratitude he felt for his friendship; promised him the command of the fullest exertions of his consequence and power; intreated him to proceed expeditiously in promoting the bufiness of the marriage, and referred him to the instructions of lord Boyd for a fatisfactory answer to any doubts which might give him difgust or uneafiness. By the letters of Throgmorton, the regent was advertised that the marriage of the queen of Scots with the duke of Norfolk was a certain and decided point; and he was counfelled to concur heartily and expeditiously in this transaction, that his content might not feem to have been extorted. Maitland of Lethington was recommended to him by this flatefman, as the perfon whom he should choose to represent him in the English court, as he could negociate best the terms and mode of his fecurity and of that of his party. In fine, Throgmorton intreated him not to be troubled with any precise feruples or objections, for that his overthrow, if he refifted, would be inevitable; and, in the view of his fervices and cordiality, he affured him, that no man's friendthip would be accepted with greater affection, and no man's estimation be higher or more fortunate. The zeal of Throgmorton induced him also, on this occasion, to address to Maitland a dispatch, in which he was infinitely importunate to haften his expedition to England, in the character to which he recommended him. He complimented him as the fittest person to open the match to the English queen, on the part of the regent and the Scottish nobility; and he represented the success of the scheme to be infallible, as Elizabeth would

never be so unwife as to put her own safety, the peace Scotland. of her kingdom, and the prefervation of her people, in competition with the partial devices that might proceed from the vanity and the pastions of any person whatever. He enumerated the names of the English nobility who had confederated to promote the marriage. He enlarged on it as an expedient full of wildom, and as advantageous in the highest degree to religion and the state. He pointed out the latting and infeparable connection of England and Scotland, as its happy and undoubted confequence. For, if James VI. should die, the sceptres of the two kingdoms might devolve on an English prince; and if he should attain to manhood, he might marry the daughter of the duke of Norfolk, and unite, in his person, the two erowns.

These weighty dispatches fully employed the thoughts Delibera-of the regent. The calls of justice and humanity were toon of the loud in the behalf of Mary; his engagements to Nor-estates on folk were precise and definitive; and the commission of the restora-Elizabeth afforded him the command of the most im-the queen. portant fervices. But, on the other hand, the resto-

ration of Mary, and her marriage, would put an end for ever to his greatness; and, amidst all the stipulations which could be made for his protection, the enormity of his guilt was still haunting him with suspicions and terror. His ambition and his felfish fensibilities were an overmatch for his virtue. He practifed with his partizans to throw obstacles in the way of the treaty and the marriage; and, on pretence of deliberating concerning the restoration of Mary, and on her divorce from Bothwel, a convention of the estates was fummoned by him to affemble at Perth. To this affembly the letters of Elizabeth were recited; and her propositions were considered in their order. The full refloration of Mary to her dignity was accounted injurious to the authority of the king, and her affociation with her fon in the government was judged improper and dangerous; but it was thought that her deliverance from prison, and her reduction to a private station, were reasonable expedients. No definitive treaty, however, was pronounced. The letters of Mary were then communicated to this council, and gave rife to vehement debates. She had written and subscribed them in her character of queen of Scotland. This carriage was termed infolent and imperious by the friends of the regent. They also held it unsafe to examine her requests, till they should be communicated to Elizabeth; and they infinuated, that fome inclement and partial device was concealed under the purpole of her divorce from the earl of Bothwel. The favourers of Mary endeavoured to apologize for the form of the letters, by throwing the blame on her fecretaries; and engaged, that while the commissaries, or judges, were proceeding in the business of the divorce, new dispatches in the proper method should be applied for and procured. They were heard with evident fymptoms of displeasure; and exclaimed, " that it was wonderful to them, that those very persons who had lately been so violent for the feparation of the queen and Bothwel should now be so averse to it." The partisans of the regent replied, " that if the queen was fo eagerly folicitous to procure the divorce, the might apply to the king of Denmark to execute Bothwel as the murderer of her husband; and that then she might marry the person who was most agreeable to her." The passions of the two factions

The requests of

nities of

Scotland, were influend to a most indecent extremity, and the convention br he up with flyong and unequivocal marks of hoffi"ty and anger.

and Nor-

North k cerri I on their intrigues, is timations of them had come to Llizabeth. Norfolk himfelf, by the adhis fecret to Sir William Cecil, who affected to be friendly to him. The regent, in answer to her leavers, transmitted to her the proceedings of the convenion at Perth. The application of Mary for a divorce was a ham, discovering a mixture of pleasantry and pattin, admonished him to be careful on what pillow he repoings of the duke of Norfolk and his friends. Her fury was ungovernable; and at different times the loaded Norfolk with the feverest reproaches and contumely, for prefuming to think of a marriage with the Infulted with her discourse and her looks, abandoned by Leicester, and avoided by other nobles in whom he had confided, he felt his courage to forfake him. He left the court at Southampton without taking his leave, and went to London to the earl of Pembroke. New intimations of her displeasure were announced to him, and he retired to his feat at Kinninghall in Nornation to involve his country in the micries of war, he rejected their advice; and addressing an apology to Elizabeth, protefled that he never meant to depart from the fidelity which he owed her; and that it was his fixed resolution to have applied for her consent to his marriage with the queen of Scots. In return, the ordered him to repair to her court at Windfor; and, as he appeared to be irresolute, a messenger was dispatchcd to take him into custody. He was first confined to the house of Paul Wentworth, at Burnham, in the Tower. The earls of Pembroke and Arundel, the lord Lumley, Sir Nicholas Throgmorton, and the bishop of

affected to have pretentions to the crown of England that were preferable to those of the Sc thish princes, tural ferocity of dil oftion. Mary exclaimed against th t all her in' mions were commendable and innocent. Hun'ingdon took a d 11 t in her full ring. He ran-Vol. XVIII. Part II.

but her produce had induced her to deflroy all the Secret folk; and the officious affiduity of this jailor was only rewar and with the confirm which he could not compreand doinfied. Her train of attendants was diminufhed. were allowed to carry her dit atches. No menengers were admitted to her prefere; and all the letters from her friends were ordered to be intercepted, and to be

flicting to Elizabeth, to Mary, and to the duke of the a Norfork. In the first they created su picions of the real the regent; and they were a certain annunciation to Mary ...... that he was refolved to support himself in the government of Sco.land. Uncertain rumours had reached Elizabeth of the interviews he had held with Norfolk in the butiness of the marriage. Her furprise and indignation were unbounded. Mr Wood, who brought with difrespect. Secretary Cecil diff atched intructions to the lord Hunfdon, the governor of Berwick, to watch his operations with a jealous eye. Elizabeth, by a special envoy, required from him an explanation of his ambiguous carriage. The regent, true to his interests, Nortolk, by laying open the defign of that nobleman. to cut him off, in his way to Scotland, by a full communication of whatever had paffed between them in relation to Mary, and by offers of an unlimited submission and obedience.

While the duke of Norfolk was carrying on his in-Ir urrettrigues with Mary, the fch-me of an infurrection for tim in fpiracy; and the more zealous Catholics over England were concerned in it. Mary, however, by the advice of the duke of Norfolk, who was afraid of her marrylity. It advanced notwithflanding; and the agents of encouraged the conspirators with the offer of 20,000 men from the Netherlands; and, under the pretence of adjutling commercial disputes, he fent into England Chiapini Vitelli marquis of Celona, an othicer of alility, that he might be at hend, and prepare to take the command of them .- The report of an infurrection ws her person. Te queen of Scots was removed to Coventry, a place of great firength; and if a superior and commanding force thould appear before it, her ferocious keeper, it is f. id, had orders to affaffinate her. Rcp ated c m mands were fent to the earls of Northumberland and Wellmoreland, to repair to court. But he The rillar ion of Poperv, the establishment of the titles of Mary to the English crown, and the reformaobject of their enterprie. But they had embarked

Some in a bill is to which they were altogether unequal. Their ellers were feeble and defultory. The duke of Alva formit his premites. Wherever the peace was a rarged by infurcents, there were troops to oppose reither conquer nor die. The earl of Westmoreland. after concealing Limielf for lome time in Scotland, effeeted his escape into Flanders, where he passed a miferable and utcless existence; and the earl of Northumberland being taken by the regent, was imprisoned in

700 Elizabeth 1.berates friends.

the caftle of Lockleven. As the fury of Elizabeth abated, her refertment to the dake of Norfolk loft its power; and the failed not to diffinguish between the intrigues of an honourable ambition, and the practices of an obtlinate superfition. It was the refult of the examination of this nobleman, and of the confessions of the other prisoners, that Lethington had schemed the business of the marriage, and that the earl of Murray had encouraged it; that her confent was understood to be necessary to its completion; and that Mary herfelf had warmly recommended the expedient of confulting her pleasure. On receiving proper admonitions, the earls of Pembroke, Arundel, the lord Lumley, Sir Nicholas Throgmorton, and the bishop of Ross, were released from confinement; and, after a more tedious imprisonment, the duke of Norfolk was fet at liberty. This favour, however, was not extended to him till he had not only submissively acknowledged his prefumption in the bufiness of the marriage; but had fully revealed whatever had paffed between him and Mary, and folemnly engaged never more to think of this alliance, and never more to take any concern

Maitland o: Darnlev's mur-

The regent, in the meanwhile, was very anxious to recover the good opinion of Elizabeth. Her treatment of Mr Wood, and her discovery of his practices, had excited his apprehensions. He therefore assembled at Stirling a convention of the effates; and taking her letters a fecond time into confideration, returned her a reply by Robert Pitcairn abbot of Dunfermline, in a ftyle faited to her temper and jealoufies, and from which the could decifively infer, that no favour of any kind would be shown to the queen of Scots. But this base condescension, though affisted by his treachery to the duke of Norfolk, not being futficient, in his opinion, to draw completely to him the cordiality of the queen of England, he was preparing to gratify her with another facrifice. The partiality of Maitland to Mary, and his intrigues with Norfolk and the English malcontents. had rendered him uncommonly obnoxious to Elizabeth and her ministry. The late commotions had been chiefly ascribed to his arts; and it was natural to dread new calamities and tumults from the fertile fpring of his invention. Under pretence of employing his fervice in difpatches to England, the regent invited him to Stirling. He was then with the earl of Athol at Perth; and fuspecting some improper design, he obeyed the summons with reluctance. When he took his place in the privycouncil, Captain Crawford, the minion of the earl of Lenox, who had diftinguished himself in the trial of Mary, accused him, in direct terms, of being a party in the murder of the late king. The regent affected aftonishment, but permitted him to be taken into custody. He was foon after fent to Edinburgh under a Scotland. guard, and admonsthed to prepare for his trial. On fimilar charges, the lord Seton and Sir James Balfour were feized on and imprifoned.

Kirkaldy of Grange, the governor of the castle of He is pro-Edinburgh, who was warmly attached to Maitland, af-teeted by ter having in vain remonstrated with the regent on the Kirkaldy of violence of his conduct, employed address and strata-Grangegem in the fervice of his friend. Under the cover of night, he went with a guard of foldiers to the lodging where Maitland was confined; and showing a forged warrant for taking his person into custody, got posleffion of him. Kirkalov had now in his cattle the duke of Chatelberault, the lord Herries, and Maitland. The regent fent for him to a conference; but he refused to obey his message. He put himself and his fortress under the direction of his prisoners. The regent, condescending to pay him a visit, was more lavish than ulual of his promifes and kindness. His arts, however, only excited the dildain of this generous foldier. Since he could not lead out Maitland to the block, he inftituted a process of treason against him, in order to forfeit his estates. Kirkaldy, by the mouth of a trumpeter, defired him to commence fimilar actions against the earl of Morton and Mr Archibald Douglas, as it was notorious that they were parties to the king's murder. This meffenger was likewife charged with delivering a challenge from him to Mr Archibald Douglas, and another from the lord Herries to the earl of Morton. This disappointment, and these indignities, made a deep impression on the regent; and, in a thoughtful distatished humour, about this time, he made a fhort progress towards the English border, courting popularity, and descring it, by an attention to order and justice.

Elizabeth, flattered by his submissive advances, and Elizabeth pleased with his ambition, was now disposed to gratify agrees to his fullest wishes; and she perceived, that by delivering deliver up to him the queen of Scots, the would effectually relieve the regents herfelf of a prisoner whose vigour and intrigues were a constant interruption to her repose. A treaty for this purpole was entered into and concluded. The regent was to march an army to the English frontiers, and to receive from her his fovereign into her own dominions, the victim of his power, and the sport of his passions. No hoftages and no fecurity were ftipulated for her entertainment and good usage. His authority over her was to be without any limits. On his part, he was to deliver to Elizabeth the young prince, to put her in peffession of the principal forts of Scotland, and to affitt her with troops on the event of a war with France. This treaty, fo fatal to Mary, and fo ruinous to the independence of Scotland, escaped not the vigilance of the bishop of Ross. He complained of it in the strongeft terms to Elizabeth; and declared it to be equivalent to a fentence of death against his mistress. The ambaffadors of France and Spain were also strenuous in their remonstrances to her on this subject. All refiftance, however, was unavailing; and the execution of the treaty feemed inevitable. Yet how vain are the loftiest schemes of human pride! The career of the regent was hastening to its crifis; and the hand of an al fassin put a period to his dream of royalty. Scotland did not lose its liberties; but Mary continued to be unfortunate.

James

Death of

James Hamilton of Bothwelhaugh, who had been taken prisoner at the battle of Langfide, obtained his liberty and life; but his estates were torseited .- His the regent, wife, the heiress of Woodhouslie, retired on this emer-An. 1570, gency to her paternal inheritance, in the hope that it might escape the rapacity of the regent. He had, however, given it away to one of his favourites, Sir James Ballenden; and the infruments of his power having the inhumanity to ftrip her of her garments, and to turn her naked out of her house, in a cold and dark night, the became distracted before the morning. Hamilton vowed revenge; and the regent made a mockery of his threats. This contempt inspirited his passions; and the humiliation of the house of Hamilton, to which he was nearly allied, fostered the eagerness of his discontents. The madness of party ad ted fuel to his rage. His mi.d. became reconciled to affailination. After watching fir fome time a proper opportunity to perpetrate his horrid purpose, he found it at Linlingow. The regent was to pass through this town on his way from Stirling to Edinburgh, Intimation reached him that Hamilton was now to perpetrate his defign; and he unaccountably flighted the intelligence. The affaffin, in a house that belonged to the archbishop of St Andrew's, waited deliberately his approach; and firing his market from a window, flot him through the body. The world, when examined, was not judged to be mortal; but the regent finding its pain to increase, prepared himself for death; and in a few hours after he expired. A fleet horse of the abbot of Arbroath's carried the affailin to the palace of Hamilton; and thence he foon after effected his escape to France.

The death of the earl of Murray made no favourable alteration in the affairs of Mary. Confusion and diforder prevailed throughout the kingdom; and though the friends of the queen were promifed affiltance from France, nothing effectual was done for them. At last the regency was conferred on the earl of Lenox; an enemy to the queen, who treated her friends with the utmost rigour. At the same time Elizabeth continued to amuse with negociations her unhappy rival. She granted liberty to the bishop of Ross to repair to the queen of Scots, who had been removed to Chatsworth, and to confer with her on the fubject of the intended treaty. Mary, conforming to the advances of Elizabeth, authorised the lord Levingston to pass to her dominions, and defire her friends to appoint a deputation of their number to give their affiltance in promoting the falutary purpose of establishing the tranquillity of their country : and after meeting with fome interruptions on the English borders from the earl of Sussex, this nobleman fuccessfully executed his commission. The queen's lords gave powers to ten nobles to act in a body, or by two of their number, in the intended negociation: and a fafe-conduct from Elizabeth allowed them to enter the English realm, and to remain in it during fix

months.

While the lord Levingson was consulting the inagreement terests of Mary with her friends in Scotland, the bishop of Rofs was making earnest suit with Elizabeth to proceed in the projected negociation. His folicitations were not ineffectual; and Sir William Cecil and Sir An. 1571. Walter Mildmay received the instructions of their mifires to wait on the queen of Scots at Chatsworth. The heads of accommodation which they proposed were explicit; and the rigour which they discovered towards Scotland. the Scottish princels feemed to prove their forcerity. It was proposed, that a perfect amity thould take place hetween the two queens; that all the treatics which had formerly been concluded by the two nations fliguid receive an ample confirmation; that the queen of Scotshould ratify the treaty of Edinburgh, and forbear to advance any title or claim to the crown of England ouring the life of Elizabeth, or to the prejudice of the two realms should mutually affed each other; the all fore. In I ldiers should be ordered to de art ou of S.otfaced be prohibited from repairing to it, and from takfir nigth; that Mary flould hold no corre onderec, directly or indirectly, with any fubject of England, without the permittion of the English queen; that the earl should be de ivered up to Elizabeth; that redress thould by them on the Scottifle borders; that the murderers of the lord Darnley and the carl of Murray thould be duly and effectually punished; that before the queen of Scots should be fet at liberty, the young prince her fou should be brought into England, and that he should continue in the keeping of Elizabeth till the death of his mother, or till ber retignation to him of her crown on his attaining majority; that the queen of Scots should not enter into a negociation for her marriage without the knowledge of the queen of England, nor conclude it without her approbation, or that of the greatest part of the Scottish nobility; that none of the subjects of Scotland should be suffered to go to Ireland without the fafe-conduct of Elizabeth; and that Mary should deliver to her fifter all the testimonies and writings which had been fent from France, renouncing and difavowing the pretended marriage between her and the duke of Anjou. Besides these articles of agreement, it was proposed by another treaty to adjust the differences of the queen of Scots and ber fubjects; and Sir William Cecil and Sir Walter Mildmay embraced the prefent opportunity of conferring with her on this bufinels, under pretence of facilitating its management in the future stages of its progress.

During their stay at Chatsworth, these statesmen were Mary is decompletely fatisfied with the behaviour of the queen of Scots. The candour, fincerity, and moderation, which the displayed, were full allurances to them that on her part there was no occasion for apprehending any improper policy or art; and the calamities of her condition were a still more fecure pledge of her compliance. Elizabeth, on hearing their report, affected to be highly pleased with her fifter, and fent a message to the earl of Lenox, instructing him in the conditions which had been submitted to Mary; and desiring him to dispatch commissioners into England to deliberate on the treaty, and to confult his interest and that of his faction. Nor did Mary neglect to transmit to her friends in Scotland the propoled terms of agreement, and the bishop of Ross, who had affisted her in the conferences with Sir William Cecil and Sir Walter Mildmay, conveyed intimations of them to the pope, the king of France, and the duke of Alva; belought their advice, and informed these princes, that unless an

Articles of proposed to Mary by Elizabeth.

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Lenox chosen to

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-fler al relief could be expected from their layour, the ne Tries of her condition would compel her to fubfor be to the hard and humiliating dictates of the queen

But while Mary and her friends were indulging the ho e of a termination to her troubles. Elizabeth was fectelly giving comfort to her adversaries, and encouraging them to throw obstacles in the way of the treaty. Sir William Cecil wrote to the regent, expressi g his disapprobation of the negociations at Charfworth; defiring him not to be apprehensive of the boa lings of the adherents of the queen of Scots; and adviting him to make choice of commissioners, in the name of the king, on whose constancy and fortitude he could rely, and whom no address could allure from his interest, or from the common cause in which he and his friends were embarked. The earl of Suffex also fent him dispatches, in which he admonished him to turn his anxious attention to the approaching negociation, and to infift on fecure stipulations for the preservation of the prince, for his own fafety, and for a general indemnity to the nobles and their adherents, whose party he had espot sed. In every event, he represented it as proper for him to pay the greatest respect to Elizabeth; and, if no treaty should be concluded, he advited him to be prepared for reducing the friends of Mary to obedience, and for defending himself against invasions from abroad. By these artifices, the regent and his faction were inclined to intimate to Elizabeth their fermline, who had been appointed fecretary of state in the room of Maitland of Lethington, was deputed to as wild and impolitic; and contended, that no ftipulations could bind Mary, whose religion taught her to ke p no faith with heretics; that her claims to the E gland, as well as her wn ful jects, would immediblood; and that no percor quiet could be exteded or taining her in close captivity. Eliza eth did not difcourage these inclement sentiments; and Pitcairn was that if juffice should appear on their fide, she would

Mary had been carried to Sheffield, and was recobeen felect d by her fro ds to be her afting deputies in England, repaired in order to import to her the flate of affirs in Scotland, and to receive her comand inftractions, and joining hem to the Liftor of Rofs, concord and agreement, on principles the most extenfive and liberal; and, remaining to her the impoverished and tumultuous state of their country, they beg- Scotland. ged her to proceed in the bufiness with expedition. The orders, they faid, which they had received, and their own inclinations, disposed them to follow her advice and counfel in all points which were honourable and confiftent with reason; and as her protection was the only refuge of the adverfaries of their queen, they took the liberty of observing, that it was completely in her power to put a period to all disturbances and animostly, and to accomplish an accord, which would not only confer on her the highest reputation, but be of the most fignal utility to the two kingdoms. Elizabeth declared, that it would please and flatter her in no common degree to advance in the negociation; and that it was painful to her that the regent, by his delay in fending commissioners, should discover any aversion to it. This answer was deemed very favourable by the bishop of Ross and his affociates; and they obtained her authority to dispatch a messenger to the regent to hasten his operations.

In the mean time, Mary received dispatches from the The Ca. pope, the king of France, and the duke of Alva; and the li powthey concurred in recommending it to her to accept to advice of the articles of accommodation which were offered by a cept of Elizabeth. The Turks were giving employment to the the accompope and the king of Spain; Charles IX, already en-medation. feebled by the obflingte valour of the Huguenots, was bufy in deceiving them with appearances of peace, and in plotting their overthrow; and the duke of Alva felt himself insecure in his government of the Netherlands. an agreement with the queen of England, they were vet lavish to her of their expressions of a constant amity; and if the treaty should miscarry, they promised to to affift her adherents with money, ammunition, and

The earl of Morton, the abbot of Dunfermline, and The regent Mr James Macgill, had been appointed by the regent and his facand his faction to be their commissioners in the name of tempt to the king; and at length their arrival was announced in to the to Elizabe h. Conforming to the spirit of their party, der sition the earl of Morton and his colleagues took an early op- of Mary. portunity of justifying to her the deposition of the queen of Scots, and by this means to interrupt the progress of the treaty. In an eleborate memorial, they affected to confider Mary as unworthy to reign, and afferted the constitutional power of the people to curb her ambition, and to de rade her from royalty. They endeavoured to intrench themselves within the authority of laws, civil, canon, and municipal; and they recited opinions to her prejudice by many pious divines. But though the general polition, that the people have a title to relift the domination of the fovereign is clear and undubitable; yet their application of it to the queen of Sco.s was improper. To fpeak of her tyranny, and her viol tien of the right of her people, was even a wanton mockery of truth and justice; for instead of laving affumed an illegal exorbitancy of power, the had fuffered in her own pe fon and rights, and I ad been treated by

Mary.

Scotland, received their memorial with furprife and indignation. She perceived not, the told them, any region that could vindicate the feverity which had been flown to the queen of Scots by her enemics; and advised them to proper bufiness to consult the security of the king and of

On the part of Elizabeth, the committioners were the lord keeper Bacon, the earls of Suffex and Leicefler, the lord Clynton, the lord chamberlain, Sir William Cecil, who about this time was created Lord Burligh, Sir Francis Knollys, Sir James Croft, Sir Walter Mildmay, and Sir Thomas Smith. The deputies of Mary were invited to meet the English commissioners in the house of the lord keeper; and after he had flated the general purpofes of the treaty, he intimated to them, that there were two points which required a particular discussion. A proper security, he said ought to be given by the queen of Scots for her due performance of the stipulations of the agreement with Elizabeth; and it was expedient to concert the mode of the pardon and indemnity which the was to extend to the ful jects of Sco land who had offended her. As an affurance of the accommodation with his mittrefs, he demanded, that the duke of Chatelherault, the earls of Huntly and Argyle, the lords Hume and Herries, with another perfor of high Hume should be in her possession during the same pethe prince into her curlody, he observed, that it should be required from the regat, the queen of Srots not having the power of its performance. The deputes of the most faithful of her nobles, and of her strongest her own kingdom; for the would thus be unable to proof the fidelity of their lovereign; under the restriction, that they might be exchanged every fix months for peram ng the open inconveniences of this ru dure, fim ir claims might to made by the king of France, on the the queen of Light d; and t at, it his acrice thould underflood that a foundation is fought to break off the Scotland negociation. The English commissioners, now interfering in a body, declared on their honour, that it was the meaning of Llizabeth to agree to the restoration of the queen of Scots to her crown and realm on receiving futhcient affurances for the articles of the accommodation; that the fecurity offered for her acceptance, should be submitted to her deliberation; and that they would imm diately proceed to confer with the deputies from the

leagues; and it was from this quarter that they expec-deputies. ted a resolute and definitive interruption to the treaty, Nor did these delegates disappoint the expectations conceived of them. After affecting to take a comprehenfive view of the articles under debate, they declared. that their commission gave them authority to treat about the amity of the two kingdons, and the maintenance of the true religion; but that it conferred on them no power to receive their queen into Scotland, or to furrender to Elizabeth the person of their king. They therefore begged not to be urged to accede to a league

which, at some future period, might expose them to a charge of high treafon.

This fingular declar tion was confidered to be folid E in oth and weighty by the Englith commissioners; and, in a new conference, it was communicated by them to the deputies of Mary. The bithop of Rofs and his affociates were di jud d with this formal impertinence. funicient committion from the kir to his delegates to be an unworth; and most frivolous subterluge. The and s, they it i, of the deposition of their fovereign did not need my suffority but their own to fet her at livery; the p.i. e wis not yet five years of age, and wholly depen ent on the will and pleasure of the English delegates, that the commission of King James to his deputies, having been perufed by Elizabeth, was accounted by her to be infufficient; and that it was her opinion, that the earl of Morton should return to Scotland to Fold a parliament for obtaining new powers. The biling of Ross evaluimed, that the queen of Scits had been amused with deceitful promises, that the prudence o. Elizabeth had been corrupted by partial counfes, and that the allegations and pretences held out for in entring the negociation were affected and unreal. The init points, he laid, som his fovereign to her comto trisle; and they would not by any means confent to pr to , by reliaciel dile s, a treaty which the quem nour leterms. His face h and his demeanour he ack wholed to be free and open; and he befought them to case him, fince, havi g been made an instruno me resent the indignity, a d express what he knew and of it he felt. The Loglish deputies, addresling hin and his colle gues, of erved, that as the friends come to an agreement, and as their queen were-

Scotland fuled the affurance the expected, they held their commission to be at an end, and were no longer at liberty

805 The agita-

The infincerity of Elizabeth, and the failure of the ted condi-tion of the two queens, complaints. Her animonities, and those of Elizabeth, were increased. She was in haste to communicate to her allies the unworthy treatment the had received; and the fent her commands to her adherents in Scotland to rife in arms, to repose no trust in truces which were prejudicial and treacherous, and to employ all their refources and strength in the humiliation of the regent and his faction. Elizabeth, who by this time apprehended no enterprise or danger from Charles IX. or the duke of Alva, resolved, on the other hand, to give a strong and effectual support to James's friends, and to disunite by stratagem, and oppress by power, the partizans of the Scottish princess. The zeal of the bishop of Ross having raised her anger, she commanded him to depart from London; and Mary, in contempt of her mandate, ordered him to remain there under the privilege of her ambaffador. The high and unbroken spirit of the Scottish queen, in the midst of her misfortunes, never once awakened the generous admiration of Elizabeth. While it uniformly inflamed her rage, it feems also to have excited her terror. With a pufillanimous meanness, she fent a difpatch to the earl of Shrewfbury, inftructing him to keep his charge in the closest confinement, and to be incellantly on his guard to prevent her escape. He obeyed, and regretted her feverity. The expence, retinue, and domestics, of the queen of Scots, were diminished and reduced, and every probable means by which fhe might endeavour to obtain her liberty were removed from her. The rigours, however, that invaded her perfon could not reach her mind; and she pitied the tyrant that could add contumely to oppression, and deny her even the comforts of a prifon.

All this time Scotland was involved in the miferies of civil war. The friends of Mary were everywhere punished with fines and forfeiture. Private families took the opportunity of the public confusion to revenge their quarrels against each other. Individuals of every denomination ranged themselves on the fide either of the regent or of the queen, and took a fhare in the hostilities of their country. Fathers divided against fons, and sons against their fathers. Acts of outrage and violence were committed in every quarter, while, amidft the general confusion, religion was made the pretence by both parties.

In the mean time, though many encounters took place between the two factions, yet neither party feems to have been conducted by leaders of any skill in military affairs. This year, in one of these skirmishes, the regent himself was taken prifoner by a party of the queen's faction, and put to death. But this event made little alteration in the affairs of the nation. The earl of Mar, another of the queen's enemies, was chosen to the regency: but though he proposed to act against her party with rigour, he was baffled before Edinburgh castle, which was still beld by her friends; and some bloody skirmishes were fought in the north, where victory declared in favour of the queen. These advantages, however, were more than compensated to the other party by the following event.

While the negociations with Elizabeth for Mary's refloration were depending, the feheme of a confpiracy for her deliverance was communicated to her by Scotland. Robert Ridolphi a Florentine, who lived in London for many years as a merchant, and who was fecretly an agent Nortolk's for the court of Rome. But to his letters, while the configuracy

fate of the treaty was uncertain, the returned no reply. Its mifcarriage, through the duplicity of Elizabeth, recalled them forcibly to her attention, and stimulated her to feek the accomplishment of her liberty by measures bolder and more arduous than any which she had hitherto employed. She drew up in cipher an ample difcourse of his communications and of her situation, and dispatched it to the bishop of Ross, together with letters for the duke of Norfolk. Her instructions to this coclefiaflic were to convey the discourse and letters expeditioully to Norfolk, and to concert an interview between that nobleman and Ridolphi. The confidential fervants by whom the duke acted with the bithop of Rofs were Bannifter and Barker; and having received from them the discourse and the letters, they were deciphered by Hickford his fecretary. Having confidered them maturely, he delivered them to Hickford, with orders to commit them to the flames. His orders, however, were disobeyed; and Hickford deposited them, with other papers of confequence, under the mats of the duke's bedchamber. The contents of the discourse and the letters awakening the hope and ambition of Norfolk, he was impatient to fee Ridolphi; and the bishop of Rofs foon brought them together. Ridolphi, whose ability was excited by motives of religion and interest, exert ed all his eloquence and address to engage the duke to put himself at the head of a rebellion against his sovereign. He represented to him, that there could not be a feafon more proper than the prefent for achieving the overthrow of Elizabeth. Many persons who had en-ioyed authority and credit under her predecessors were much difgusted; the Catholics were numerous and incenfed; the younger fons of the gentry were languishing in poverty and inaction in every quarter of the kingdom; and there were multitudes dispoled to insurrection from restlessness, the love of change, and the ardour of enterprife. He infinuated that his rank, popularity, and fortune, enabled him to take the command of fuch perfons with infinite advantage. He infifted on his imprisonment and the outrages he had sustained from Elizabeth; represented the contempt to which he would expose himself by a tame submission to these wrongs: extolled the propriety with which he might give way to his indignation and revenge; and pointed out the glory he might purchase by the humiliation of the enemies, and by the full accomplishment of his marriage with the queen of Scots. To give frength and confirmation to these topics, he produced a long list of the names of noblemen and gentlemen with whom he had practifed, and whom he affirmed to be ready to hazard their lives and riches for a revolution in the state, if the duke would enter into it with cordiality. To fix decifively the duke, he now opened to him the expectations with which he might flatter himfelf from abroad. The pope, he affured him, had already provided 100,000 crowns for the enterprise; and if Popery should be advanced in England, he would cheerfully defray the whole charges of the war. The king of Spain would supply 4000 horse and 6000 foot, which might be landed at Harwich. Charles IX. was devotedly attached to the queen of Scots, notwithstanding the treaty which had been enter-

807 The regent taken prifoner, and put to death.

Dreadful

confusion

in Scot-

land.

An unexpected incident excited, in the meantime, The duke's

Scotland. ed into with Elizabeth for her marriage with his brother the duke of Anjou : and when he should discover that, on the part of the English princels, this matrimonial would renounce the appearance of friendship which he had affumed, and return to his natural fentiments, of difdain and hatred with redoubled violence. In fine, he urged, that while he might depend on the affifiance and arms of the greatest princes of Christendom, he would intitle himleif to the admiration of all of them by his magnanimous efforts and generous gallantry in the caufe of a queen to beautiful and to unfortunate.

dif overed byth m -

Euzabeth.

The duke of Norfolk, allured by appearances fo plaufible and flattering, did not feruple to forget the duties of a subject, and the sabmissive obligation in which he had bound himfelf to Elizabeth never more to intertere in the affairs of the Scottish princess. Ridolphi, in this forward flate of the bufiness, advised him to address letters to the pope, the king of Spain, and the duke of Alva, expressive of his concurrence in the defign, and exciting their activity and refolutions. He even produced dispatches framed for this purpose; and while he intreated the duke to subscribe them, he offered to carry them himself to Flanders, Rome, and Spain. The duke of Norfolk, who was ambitious and timid, disposed to treason, and unfit for it, hefitated whether he should subscribe the letters; and at length refused to proceed to that extremity. He yet allowed the bishop of Rois, and Barker his fervant to go to the Spanish ambassador to express his approbation of the measures of Ridolphi, to acknowledge that the letters were according to his mind, and to empower this Ratesman to certify their authenticity to his court. Ridolphi full of hopes, fet out to execute his commiffion. He paffed first to the duke of Alva, to whom he communicated the transactions in which he had been engaged, and with whom he held many conferences, There was at this time at Bruffels Charles Bailly, a fervant of the queen of Scots; and Ridolphi, after difclosing to him his proceedings with Alva, entrusted him with letters to her, to the duke of Norfolk, the Spanish ambassador, and the bishop of Ross. When this messenger reached Calais, a letter was delivered to him from the bishop of Ross, desiring him to leave his difpatches with the governor of that place. From inexperience and vanity he neglected this notice; and being fearehed at Dover, his letters, books, and clothes were feized, and he himfelf fent to London, and imprisoned in the Marshalfea. The bishop of Ross, full of apprehenfions, applied to Lord Cobham, the warden of the cinque ports, who was friendly to the duke of Norfolk; and obtaining by his means the packet of dispatches from Ridolphi, he fubftituted another in its place, which contained letters of no danger or ufefulness. He had also the dexterity to convey intelligence of this trick to Bailly, and to admonish him to preserve a profound filence, and not to be afraid. This simple and unpractifed agent had, however, excited fuspicions by the fymptoms of terror he had exhibited on being taken, and by exclaiming, that the difpatches he brought would involve his own destruction and that of others, At his first examination he confessed nothing : but being fent to the tower, and put on the rack, he revealed his conversations with Ridolphi, and declared, that the dispatches which he had brought had been de-

livered to the bishop of Ross. An order was granted Scuttand. for taking the bithop into cuttody. Having been aware, however, of his perilous fluation, his house was fearched in vain for treasonable papers; and he thought to forces himfelf from anfaering any i terrogatories under the fanctity of his character as the ambalfador of an in-

new fuspicions and alerms. Many being defirous of friends and transmitting 2000 crowns to the lord Herries to ad-tervants vance her interests in Scotland, the duke of Norfolk dence aundertook to convey it to him with fafety. He intruit-gainft him. ed it to the charge of his confidants Hickford and Barker, who putting it into a bag with dispatches from their mafter to Lord Herries, ordered a fervant called Brown to carry it to Bannister; who, being at this time on the border, could forward it to Scotland. Brown, fuspicious or corrupted, instead of proceeding on his errand, carried the bag and its contents to Sir William Cecil, now Lord Burleigh. The privy-council, deeming it treason to send money out of the realm for the use of the friends of Mary, whom they affected to confider as enemies, ordered Hickford and Barker to be apprehended. The rack extorted from them whatever they knew to the prejudice of their mafter. Hickford. gave intelligence of the fatal discourie and the letters from Mary, which he had preferved in opposition to the orders given to him. All the proceedings between the queen of Scots, the duke of Norfolk, the bishop of Rofs, and Ridolphl, were brought to light. A. guard was placed on the house of the duke of Norfolk, in order to prevent his escape. Sir Ralph Sadler, Sir Thomas Smith, Sir Flenry Nevil, and Dr Wilfon, were commissioned to examine him; and being impressed with the belief that the discourse and the letters had been deftroved, he positively denied that he had any concern in the affairs of the queen of Scots, or any knowledge of them whatever. He was committed to the tower a close priloner. Banniller by this time was taken; and he confirmed the relations of Hickford and Barker. In the course of their discoveries, there appeared reasons of suspicion against many persons of rank and diffinction. The earls of Arundel and Southampton, the lord Cobham, Mr Thomas Cobham his brother, Sir Thomas Stanley, Sir Henry Percy, and other gentlemen who were friendly to the queen of Scots and the duke of Norfolk, were ordered to be lodged in different prifons; and the rack, and the expectation of a pardon, drew from them the fullest confeilions. The duke was altogether unable to defend himfelf. The concurring testimonies of his friends and fervants, with the discourse and the letters, which he fondly imagined had been committed to the flams, were communicated to him. He was overwhelmed with amazement and diffres; and exclaimed, that he had been betrayed and undone. He made ample acknowledgments of his guilt, and had no foundation of hope but in the mercy of his fovereign.

By the confession of the duke himself, and from all the inquiries which had been made by the ministers of Elizabeth, it appeared obvious beyond a doubt, that the bishop of Ross had been the principal contriver of Dangerous the conspiracy. Ridolphi had acted under his direc. and pertion, and he had excited the duke of Norfolk. He had condition even proceeded to the extremity of advising that noble- of Bishep man Lefty.

s man to cut itself if at the held of . Fel of adherents, and to feize boldly the person of Eladeta. torily refused to make any answer to interrog tries. The counfellers of Elizabeth were diffurbed with his would from render him more pliant, he was ordered into close confinement in a dark apartment of the tower. When he had remained a few days in this melancholy fituation, four privy-counfellors, the lord-admiral, the lord Burleigh, Sir Francis Knollys, and Sir Thomas Smith, went to the tower, and caufed him to be brought to them to the lieutenant's lodging. the prisoners as the principal contriver of the confuiracy, they infilled, in the name of their fovereign, that he should explain fully the part he had acted. The conf. Thons of the duke of Norfolk and his fervants, of the lord Lumley, Sir Thomas Statley, and other gentlemen, with the discourse and dispatches of the queen of Scots, were set before him. They now protested declaration of his proceedings, it should be employed neither against himself, nor against any other person; to give this fatisfaction to their queen, who was anxious to fearch the matter to the bottom, they were inftructed to let him know, that she would absolutely consider him as a private person, and order him to be tried and executed as a traitor. In this extremity he accepted the conditions held out to him, and disclosed minutely all the transactions of the principal parties in the confpiracy. But while he described the offences of his miftrefs, the duke of Norfolk, and himfelf, he could not avoid to lessen their blame by apologies. It was natural, he faid, for the queen of Scots to exert the most firenuous endeavours in her power to recover her freedom and crown; and the methods she adopted to obtain her purpoles ought to be confidered in connection with the arts of Elizabeth, who pertinaciously denied her access to her presence, who kept her a close prisoner in contempt of all the principles of humanity and justice, and who afforded an open and powerful affiltance to her enemies. The duke of Norfolk he was carneft to excufe on the foundation of the advances which had been made towards his marriage with the queen of Scots. Their plighted love, and their engagements, did not allow him to forfake her. As for himfelf, he was her to her generofity and kindness, he could not abandon her in captivity and divress without incarring the guilt of the most finful treachery and ingratitude. The daron him the most severely; and he is treated them to believe, that he had moved it only with the view of trying Norfolk was admonished to p cpare for his trial; and Bish Lesty perceived, that though he might escape

The die of the dike of N roll's confir cy was a cloud. faith ul friend or re languithing in prilons on her account; the h two longer the countels of the bithop of trained ordered to withdraw from England. The trial and con- his-ondemoration of Nor olk foon followed, and plunged her fairacy, into the most calamitous diffre.'s.

The maffacre of the Protestants at Paris in 1572 and by the proved also extremely detrimental to her. It was in-mail cred terpreted to be a consequence of the confederacy which Paris. had been formed at Bayonne for the extermination of An. 15-2. ported with rage against the Papists. Elizabeth pre-. and was haunted with the notion that they meant to in-Her am affador at Paris, Sir Francis Waltingham, augmented her apprehensions and terror. He compared her we knels with the strength of her enemies, and affured her that if they should possess themselves or Scotland, fire would foon cease to be a queen, He repre-W. Ungfented Mary as the great cause of the perils that threat-ham counened her personal safety and the tranquillity of her beth to p t kingdom; and as violent difeafes required violent remedies, he scrupled not to counsel her to unite Scotland death. to her dominions, and to put to death a rival whose life was inconfiftent with her fecurity. The more bigotted Protestants of Scotland differed not very widely in their fentiments from Sir Francis Walfingham; while such of them as were more moder to were still more attached to their religion than to Mary; and amidft the indignation and horror into which the fubicets of Scotland were thrown by the fanguinary outrages of Charles IX. and Catharine de Medicis, they surveyed the fufferings of their fovereign with a diminished fun-

This year the regent, finding himself beset with dif-The reficulties which he could not overcome, and the affairs ge t dies, of the nation involved in confusion from which he could distincnot extricate them, died of melancholy, and was fuc ceeded by ceeded by the earl of Morton.

During the regency of the earl of Mar, a remarkable innova ion took place in the church, which deferves to be particularly explained, being no less than the introduction of Epifcopacy instead of the Presbyterian form of worthip. While the earl of Lenox was E thopacy regent, the archbishop of St Andrew's was put to death, strod ced because he was strongly suspected of having had a con- to Scotcern in the death of the earl of Murray; after which the and. earl of Morton procured a grant of the temporalities of that see. Out of these he allotted a stipend to Mr John Douglas, a Protestant clergyman, who assumed the title of archbishop. This violence excited censure and murmurs. In the language of the times, it was The matter was doubtless of too much importance to be overlooked; and a commission of privy-counsellors and qu're into it, and to reform and improve the policy of the harch. This commission, on the part of the privycorneil, confifed of the earl of Morton, the lord Ruth-

By these artful regulations the earl of Morton did not mean folely to confult his own rapacity or that of the nobles. The exaltation of the Protestant church to be one of the three estates was a consequence of them; and the clergy being the strenuous enemies of Mary, he might by their means secure a decided influence in parliament. The earl of Mar, as regent, giving his fanction to the proceedings of the commission, they were carried into effect. The delufive expectation of wealth, which this revival of Episcopacy beld out to the ministry, was flattering to them; and they bore with tolerable patience this fevere blow that was ftruck against the religious policy of Geneva. Mr John Douglas was defired to give a specimen of his gifts in preaching; and his election took effect, notwithstanding the opposition that was made to it by John Knox and other ecclefiaftics, who flood up for the rules and forms which had been established at the reformation. He was inaugurated in his office by the bishop of Caithness, Mr John Spotswood superintendant of Lothian, and Mr David Lindsay, who, violating the book of discipline, communicated to him his character and admission by the imposition of hands. This was a fingular triumph to Episcopacy; and the exaltation of Douglas included other peculiarities remarkable and offensive. He denied that he had made any fimoniacal agreement with the earl of Morton; yet it was known that the revenues of the archbishopric were almost wholly engrossed by that

fuperintendants, on the ordination of ministers, thould exact an oath from them to recognize the authority of

the king, and to pay canonical obedience to their ordi-

nary in all things that were lawful.

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nobleman. He had promifed to refign, upon his inftal- Scotland ment, the office of rector which he held in the university of St Andrew's: yet he refused to execute this engagement. He was in a very advanced age; and his mental qualifications, which had never been eminent, were in a state of decay.

A general affembly, which was held at St Andrew's, confidering the high moment of the new regulations introduced into the church, appointed commissioners to go to John Knox, who was at this time indifposed, and to confult with him deliberately in his houle, whether they were agreeable to the word of God. But from the arts of the nobles, or from the fickness of Knox, it hanpened that this conference was not carried into effect. In a general affembly, however, which met at Perth. the new polity was reported and examined. names of archbishop, dean, archdeacon, chancellor, and chapter, were excepted against as Popish diffinctions. and as flanderous to the ears of pious Christians. A wish was expressed that they might be exchanged for titles less profane and superstitious; and an unanimous protestation was made, that the new polity was merely a temporary expedient, and should only continue till a more perfect order should be obtained from the king, the regent, and the nobility. This tolerating resolution left the new polity in its full force; and a colourable foundation was now established for the laity to partake in the profits of bishoprics. The simoniacal paction of Morton and Douglas was not long a matter of fingularity. Mr James Boyd was appointed to the archbishopric of Glasgow, Mr James Paton to the bishopric of Dunkeld, and Mr Andrew Graham to the fee of Dumblain; and these compromising ecclesiastics, on being allowed competencies to themselves, gratified their noble friends with the greatest proportion of their revenues. The virtue of the common people approved not this spirit of traffic; and the bishops of the new polity were treated openly with reproach or with ridicule.

The year 1572 is also remarkable for the death of Death of John Knox, whose mittaken zeal had contributed not a John Knoxe little to bring on the queen those misfortunes with which the was now oppressed. Neither by his death, however, nor by the change of the regency, could she now be relieved. The earl of Morton was so much devoted to Elizabeth, that he received particular inflructions from her how to govern the young king. His elevation, indeed, gave the finishing stroke to the queen's affairs. He employed himself with success in dividing her party Elizabeth among themselves, and by his means the duke of Cha-resolved on telherault and the earl of Huntly were induced to for-putting fake her. As for Elizabeth, the was bent on putting death. Mary to death; but as no crime could be alleged against her in England, she thought it proper that she thould be carried back to fuffer death in her own dominions. This proposal, however, was rejected; and the friends who remained true to Mary once more began to indulge themselves in hopes of succours from France. New misfortunes, however, awaited them .- The caftle The cattle of Edinburgh, which had hitherto been held for the of Edinqueen by Kirkaldy of Grange, was obliged to furrender urgh tato an English army commanded by Sir William Drury, ken by the Kirkaldy was folemnly affured by the English commander of his life and liberty; but Elizabeth violated these capitulation, and commanded him to be delivered up to the regent. A hundred of his relations offered to be-5 B

yearly, if he would spare his life; but in vain : Kirkaldy and his brother Sir James were hanged at Edinburgh. Maitland of Lethington, who was taken at the fame time, was poisoned in the prison house of Leith.

An. 1573.

The jealoufy of Elizabeth did not diminish with the decline of Mary's cause. She now treated her with more rigour than ever, and patronized Morton in all the enormities which he committed against her friends, Lefly bithop of Rofs had been long imprifoned in England, on account of his concern in the duke of Norfolk's conspiracy. Morton earnestly solicited the queen to deliver him up, and would undoubtedly have put him to death; but as he had acted in the character of amhaffador from Mary, this was judged impolitic, and the prelate was fuffered to depart for France. When he arrived there, he endeavoured in vain to ftir up the emperor, the pope, and the duke of Alva, to exert themfelves in behalf of the queen of Scotland; and, in 1574, the misfortunes of his royal mistress were farther Charles IX. aggravated by the death of Charles IX. of France, and her uncle the cardinal of Lorraine. The regent, in the mean time, ruled with the most despotic sway. He twice coined base money in the name of his sovereign; and after putting it into circulation the fecond time, he iffued orders for its paffing only for its intrinfic value.

Lorraine. Au. 1574. Oppression.

lence of

Morton.

Death of

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the regent took every method of ruining all those of his name and family. He committed to prison all the Hamiltons, and every perfon of diffinction who had fought for the queen at the battle of Langfide, and compelled them to buy their liberty at an exorbitant price. He infligated Douglas of Lochleven to affaffinate Lord Arbroath, and it was with difficulty that the latter escaped the ambush that was laid for him. Reid, the bishop of Orkney, having left his estate to pious and charitable uses, the regent prohibited the execution of the will, and took on himself the administration. To be rich was a fufficient crime to excite his vengeance. He entered the warehouses of merchants, and

The duke of Chatelherault happening to die this year,

confileated their property; and if he wanted a pretence to justify his conduct, the judges and lawyers were ready at his call.

Oppolition

In this difattrous period the clergy augmented the general confusion. Mr Andrew Melvil had lately returned from Geneva; and the discipline of its affembly being considered by him as the most perfect model of ecclefiaftical policy, he was infinitely offended with the introduction of Episcopacy into Scotland. His learning was considerable, and his skill in languages was profound. He was fond of disputation, hot, violent, and pertinacious. The Scottish clergy were in a humour to attend to him; and his merit was fufficient to excite their admiration. Instigated by his practices, John Drury, one of the ministers of Edinburgh, called in question, in a general assembly, the lawfulness of the bithops, and the authority of chapters in electing them. Melvil, after commending his zeal and his motion, delaimed concerning the flourishing state of the establishment of Geneva; and having recited the opinions of Calvin and Beza on ecclefiaffical government, maintained, that there should be no office-hearers in the church whose titles were not seen in the book of God. He affirmed, that the term bishop was nowhere to be found in it in the fense in which it was commonly understood, as Christ allowed not any superiority among Sc tlandministers. He contended that Christ was the only lord of his church, and that the ministers of the word were all equal in degree and power. He urged, that the estate of the bishops, besides being unlawful, had grown unfeemly with corruptions; and that if they were not removed out of the church, it would fall into decay, and endanger the interests of religion. His fentiments were received with approbation; and though the archbishop of Glasgow, with the bishops of Dun-keld, Galloway, Brechin, Dumblain, and the Isles, were present in this assembly, they ventured not to defend their vocation. It was refolved, that the name of bishop conferred no diffinction or rank; that the office was not more honourable than that of the other ministers; and that by the word of God their functions confifted in preaching, in administering the facraments, and in exercifing ecclefiattical discipline with the confent of the elders. The Episcopal estate, in the meantime, was watched with anxious care; and the faults and demerits of every kind, which were found in individuals, were charged on the order with rudenels and afperity. In a new affembly this subject was again can-vassed. It was moved, whether bithops, as constituted in Scotland, had any authority for their functions from the Scriptures? After long debates, it was thought prudent to avoid an explicit determination of this important question. But a confirmation was bellowed on the refolution of the former affembly; and it was established as a rule, that every bishop thould make choice of a particular church within his diocese, and should actually discharge the duties of a minister.

The regent, disturbed with these proceedings of the brethren, was disposed to amuse and to deceive them, He fent a meffenger to advile them not to infringe and disfigure the established forms; and to admonitive them, that if their aversion to Episcopacy was injurmountable, it would become them to think of fome mode of ecclefiaffical government to which they could adhere with constancy. The affembly taking advantage of this mellage, made a formal intimation to him, that they would diligently frame a lafting form of polity, and fubmit it to the privy-council. They appointed, accordingly, a committee of the brethren for this purpole. The business was too agreeable to be neglected; and in a fhort time Mr David Lindsay, Mr James Lawson, and Mr Robert Pont, were deputed to wait on the regent with a new scheme of ecclefiastical government. After reminding him, that he had been a notable infirmment in purging the realm of Popery, and begging that he would confult with them on any of its articles which he thought improper or incomplete, they informed him, that they did not account it to be a perfect work to which nothing could be added, or from which nothing could be taken away; for that they would alter and improve it, as the Almighty God might farther reveal his will unto them. The regent, taking from them their schedule, replied, that he would appoint certain persons of the privy-council to confer with them. A conference was even begun on the subject of their new establishment; but from his arts, or from the troubles of the times, no advances were

made in it. This year the earl of Bothwel died in Denmark ; Death of and in his last moments, being slung with remorfe, he Bothwel.

Scot'snit, confessed that he had been guilty of the king's murder, revealed the names of the persons who were his accomplices, and with the most folemn protestations declared the honour and innocence of the queen. His confession was transmitted to Elizabeth by the king of Denmark; but was suppressed by her with an anxious folici-

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gent.

The regent fill continued his enormities, till having rendered bimfelf obnoxious to the best part of the noto refign his bility, he was, in 1577, compelled to refign his office office of reinto the hands of James VI.; but as his majefly was then only twelve years of age, a general council of twelve As. 1577. peers was appointed to affift him in the administration, Next year, however, the earl of Morten having found means to gain the favour of the young king, procured the diffolution of this council; and thus being left the fole adviter of the king, he hoped once more to be raifed to his former greatness. This could not be done, however, without keeping the king in a kind of captivity, so that nobody could have access to him but himself. The king, fensible of his situation, sent a difpatch to the earls of Argyle and Athole, intreating them to relieve him. An army for this purpole was foon raifed; and Morton's partifans were in danger of being defeated, had not the opposite party dreaded the vergeance of Elizabeth, who was refolved to support the earl of Morton. In confequence of this a negocia-tion was entered into, by which it was agreed, that the earl of Argyle, with some others, should be admitted into the king's council; and that four noblemen should be chosen by each party to consider of some proper method of preferving tranquillity in the nation.

This pacification did not greatly diminish the power

of Morton. He foon got rid of one of his principal Athole. antagonists, the earl of Athole, by poisoning him at an entertainment; after which he again gave a loofe to his refentments against the house of Hamilton, whom he perfecuted in the most cruel manner. By these means, however, he drew on himfelf a general hatred; and he was supplanted in the king's favour by the lord An. 1579d'Aubigney, who came from France in the year 1579, and was created earl of Lenox. The next year Morton was suspected of an intention to deliver up the king to Elizabeth, and a guard was appointed to prevent any attempts of this kind. The queen of England endeavoured to support her zealous partifan; but with-Is con temp. out effect. He was tried, condemned, and executed, as ed and exe-being concerned in the murder of Darnley. At the the murder i but of this the evidence is not quite fatisfactory. It is of Darnley, but of this the evidence to be bowever certain that he acknowledged himfelf privy to the plot formed against the life of the king; and when one of the clergymen attending him before his execution observed, that by his own confession he merited death in foreknowing and concealing the murder, he replied "Ay but, Sir, had I been as innocent as St

Stephen, or as guilty as Judas, I must have come to the

fcaffold. Pray, what ought I to have done in this

matter? You knew not the king's weakness, Sir. If I Sathad. had informed him of the plot against his life, he would have revealed it even to his enemies and those concerned in the defign; and I would, it may be, have lost my own life, for endeavouring to preferve his to no pur-

The elevation of King James, and the total overthrow Membras of Morton, produced no beneficial confequences to the unfortunate Mary. In the year 1581, the addressed a letter to Castelnau the I'rench ambassador, in which An. 151 the complained that her body was to weak, and her limbs to feeble, that the was unable to walk. Cattelnau therefore intreated Elizabeth to mitigate a little the rigours of Mary's confinement; which being refufed, the latter had thoughts of refigning her claims to the crown both of England and Scotland into the hands of her fon, and even of advising him to use every effort in his power to establish his claim to the English crown as preferable to that of Elizabeth. But being apprehensive of danger from this violent method, the again contented herfelf with fending to the court of England ineffectual memorials and remonitrances. Elizabeth, instead of taking compassion on her miterable fituation, affiduously encouraged every kind of disorder in the kingdom, on purpose to have the queen more and more in her power. Thus the Scottith malcon- The king tents finding themselves always supported, a conspiracy tak a parwas at laif entered into, the defign of which was to ber hold James in captivity, and to overthrow the authority of Arran and Lenox, who were now the principal perfons in the kingdom. The chief actors in this confpiracy were the earls of Gowrie, Mar, and Glencairn, the lords Lindsay and Boyd, with the masters of Glammis and Oliphant. By reason of the youth and imbecillity of the king, they easily accomplished their purpose; and having got him in their power, the. promifed him his liberty, provided he would command Lenox to depart out of the kingdom. This was accordingly done; but the king found himfelf as much a prisoner as before. The more effectually to detain him in custody, the rebels constrained him to issue a proclamation, wherein he declared himself to be at perfect bberty. Lenox was preparing to advance to the king's relief with a confiderable body of forces, when he was disconcerted by the king's peremptory command to leave Scotland; on which he retired to Dumbarron, m order to wait for a more favourable opportunity. The earl of Arran, being more forward, was committed to close cultody for fome time, but afterwards confined only in his house of Kinneil. The rebels took on them the title of " lords for the reformation of the

The clergy, who had all this time been exceedingly Which to averse to Episcopacy, now gave open countenance to and the lords of the reformation. On the 13th of Octo- 1' the ber 1582, they made a folemn act, by which the raid clercy of Ruthven, as the capture of the king was called, was An. . 1: deerned a fervice most acceptable to all who feared God,

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(x) Jebb, vol. ii. p. 227. It has never been published. Keith and other historian, have preferved what they call the earl of Bothwel's declaration at his death, and account it to be genuine. Their partiality for Mary induced them the more easily to fall into this mistake. The paper they give is demonstratively a forgery; and the wart of the real confession of Bothwel is fill a desiciency in our history.

ftate."

Scotland, respected the true religion, and were anxious for the prefervation of the king and flate; and every minister was commanded to declaim from his pulpit on the expediency of this measure, and to exhort the people to concur with the lords in profecuting the full deliverance of the church, and the perfect reformation of the commonwealth. Not fatisfied with this approbation of the clergy, the conspirators got their proceedings approved by the states of Scotland, as " a good, a thankful, and a necessary fervice to the king." the same time it was enacted, that no civil or criminal fuit of any kind should ever be instituted against the persons concerned in it. Soon after this, Lenox took his leave of Scotland, and failed for France, where he died.

Mary writes to Elizabeth,

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who acts with her

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fidy.

The unfortunate Mary was driven to despair when she heard that her fon was taken prisoner by rebels who had been instigated by Elizabeth. In this distress, she addressed a most spirited letter to Elizabeth, in which fhe at once afferted her own innocence, and fet forth the conduct of Elizabeth herfelf in fuch language as must have put the most impudent of her adversaries to the blush. Elizabeth could not reply, and therefore had recourfe to her ufual arts of treacherous negociation. New terms were proposed to Mary, who would gladly have fubmitted almost to any thing, provided she could procure her freedom. It was proposed, as had often been done before, to affociate the queen of Scots with her fon in the government; but as this was to be referred to the king, who was in the hands of Elizabeth's friends, and to the parliament, who were under the power of the same faction, it is easy to see that no fuch affociation ever could take place, or indeed was

ever intended.

After the death of Lenox, the conspirators apprehended no further danger, little supposing that a prince fo young and unexperienced could deliver himfelf from An. 1583. captivity. This, however, in the year 1583, he effected in the following manner. A convention of the estates had been summoned to meet at St Andrew's. James, whom the earl of Arran, notwithstanding his confinement at Kinneil, had found means to inflruct and advife, pretended a defire of vifiting his grand-uncle the earl of March, who refided at St Andrew's, and was for that purpose permitted to repair thither a few days before the convention. The better to deceive the earls of Gowrie, Angus, and Mar, who attended him, he took up his lodgings in an old inn, which was quite open and defenceless. But having expressed a desire to fee the castle of St Andrew's, he was admitted into it; and Colonel Stuart, who commanded the castle, after admitting a few of his retinue, ordered the gates to be thut. The earls of Argyle, Marifchal, Montrofe, and Rothes, who were in concert with the king, haltened to make him an offer of their fwords. The opposite faction, being unprepared for hostilities, were filled with consternation. Of all the conspirators, the earl of Gowrie alone was admitted into the king's presence, by the favour of Colonel Stuart, and received his pardon. The earls of March, Argyle, Gowrie, Marischal, and Rothes, were appointed to be a council for affifting the king in the management of his affairs; and foon after this James fet out for Edinburgh. The king no foon-er found himfelf at liberty, than, by the advice of his privy council, he issued a proclamation of mercy to the

conspirators; but they, flattering themselves with the Scotland. hopes of support from Elizabeth, obstinately refused to accept of his pardon. In confequence of this, they were denounced rebels. Elizabeth failed not to give them fecretly all the encouragement she could, and the clergy uttered the most feditious discourses against the king and government; and while they railed against Popery, they themselves maintained openly the very characteristic and distinguishing mark of Popery, namely, that the clerical was entirely independent of the civil

At last the rebels broke forth into open hostilities; Earl of but by the vigilance of Arran, the earl of Gowrie, who Gowrie had again begun his treasonable practices, was committed and executo custody; while the rest, unable to oppose the king, ted. who appeared against them with a formidable army, were obliged to fly into England, where Elizabeth, with

her usual treachery, protected them. The earl of Gowrie fuffered as a traitor; but the fe-

verity exercifed against him did not intimidate the clergy. They still continued their rebellious practices, until the king being informed that they were engaged in a cor-respondence with some of the fugitive lords, citations were given to their leaders to appear before the privycouncil. The clergymen, not daring to appear, fled to Proceed-England; and on the 20th of May 1584, the king ings against the clergy. furnmoned a convention of the estates, on purpose to the clergyhumble the pride of the church in an effectual manner. In this affembly the raid of Ruthven was declared to be rebellion, according to a declaration which had formerly been made by the king. And, as it had grown into a custom with the promoters of fedition and the enemies of order, to decline the judgement of the king and the council, when called before them to answer for rebellious or contumelious speeches, attered from the pulpit or in public places, an ordination was made, afferting that they had complete powers to judge concerning persons of every degree and function; and declaring, that every act of opposition to their jurisdiction should be accounted treason. It was enacted, that the authority of parliament, as constituted by the free votes of the three estates, was supreme; and that every attempt to diminish, alter, or infringe, its power, dignity, and jurisdiction, should be punished as treason. All jurisdictions and judgements, all affemblies and conventions, not approved of by the king and the three estates, were condemned as unlawful, and prohibited. It was ordained, that the king might appoint commissioners, with powers to examine into the delinquencies of clergymen, and, if proper, to deprive them of their benefices. It was commanded, that clergymen should not for the future be admitted to the dignity of lords of the fession, or to the administration of any judicature civil or criminal. An ordination was made, which subjected to capital punishment all persons who should inquire into the affairs of state with a malicious curiosity, or who should utter false and slanderous speeches in sermons, declamations, or familiar discourse, to the reproach and contempt of the king, his parents, and progenitors. It was ordered that a guard, confitting of 40 gentlemen, with a yearly allowance to each of 2001. should continually attend on the king. This parliament, which Attempts was full of zeal for the crown, did not overlook the to hippress history of Buchanan, which about this time was excit-history. ing a very general attention. It commanded, that all

perfons

The king efcapes from captivity.

Scotland. perfons who were possessed of copies of his chronicle, and of his treatife on the Scottish government, should furrender them within 40 days, under the penalty of 2001, in order that they might be purged of the offenfive and extraordinary matters they contained. This stroke of tyranny was furious and ineffectual. Foreign nations, as well as his own countrymen, were filled with the highest admiration of the genius of Buchanan. It was not permitted that his writings should fuffer mutilation; they were multiplied in every quarter; and the feverity exercised against them only served the more to

837 The clerry endeavour to Support themielves

excite curiofity, and to diffuse his reputation. While the parliamentary acts, which ftruck against the importance of the church, were in agitation, the ministers deputed Mr David Lindsay to solicit the king against the that no statutes should pass which affected the ecclesicivil power, affical establishment, without the consultation of the general affembly. But the earl of Arran having information of this commission, defeated it, by committing Mr Lindsay to prison as a spy for the discontented nobles. On the publication, however, of these acts by the heralds, Mr Robert Pont minister of St Cuthbert's. and one of the fenators of the court of fession, with Mr Walter Balcanqual, protested formally in the name of the church, that it differted from them, and that they were confequently invalid. Having made this proteflation, they instantly fled, and were proclaimed traitors. By letters and pamphlets, which were artfully fpread among the people, their pations were rouzed against the king and his council. The ministers of Edinburgh took the resolution of forfaking their flocks, and retiring to England. And in an apology circulated by their management, they anxiously endeavoured to awaken commiseration and pity. They magnified the dangers which threatened them; and they held out, in vindication of their conduct, the example of the prophets, the apostles, the martyrs, and of Christ himself, who all concurred, they faid, in opposing the ordinations of men, when contradictory to the will of heaven, and in declining the rage of the enemies of God. The king appointed his own chaplains and the archbishop of St Andrew's to perform the ministerial functions in his capital. The clergy over Scotland were commanded to subscribe a declaration, which imported the supremacy of the king over the church, and their submission to the authority of the bishops. The national ferments still increased in violence. Many ministers refused to subscribe this declaration, and were deprived of their livings. It was contended, that to make the king supreme over the church was no better than to let up a new pope, and to commit treason against Jesus Christ. It was urged, that to overthrow affemblies and presbyteries, and to give dominion to bithops, was not only to overfet the effablished polity of the church, but to destroy religion itfelf. For the bishops were the slaves of the court, were schismatical in their opinions, and depraved in their lives. It was affirmed, that herefy, atheifm, and popery, would firike a deep root, and grow into ftrength. And the people were taught to believe, that the bishops would corrupt the nation into a refemblance with themfelves; and that there everywhere prevailed diffimulation and blasphemy, persecution and obscenity, the profanation of the feriptures, and the breach of faith, co-vetoufnefs, perjury, and facrilege. It was reported abroad, that the ministers alone were entrusted with ec-

clefiastical functions, and with the sword of the word; Scotland. and that it was most wicked and profane to imagine, that Jesus Christ had ever committed the keys of the kingdom of heaven to civil magistrates and their fervants or deputies.

While the clergy were thus impotently venting their wrath, Elizabeth, alarmed beyond measure at this sudden revolution, and terrified by a confession extorted by the rack from one Francis Throgmorton, concerning a combination of the Catholic princes to invade England, began to treat with Mary in a more fincere manner than usual; but having gained over to her fide the earl of Arran, the only man of activity in Scotland, she refolved to proceed to extremities with the queen of Scots. The Catholics, both at home and abroad, were inflamed against her with a boundless and implacable rage. There prevailed many rumours of plots and conspiracies against her kingdom and her life. Books were published, which detailed her cruelties and injustice to Mary in the most indignant language of reproach, and which recommended her affailination as a most meritorious act. The earl of Arran had explained to her the practices of the queen of Scots with her fon, and had discovered the intrigues of the Catholic princes to gain him to their views. While her fenfibilities and fears were leverely excruciat-Intended ing to her, circumstances happened which confirmed invasion of them, and provoked her to give the fullest fcope to the England malignity of her passions. Crichton, a Scottish Jesuit, discovered, paffing into his own country, was taken by Netherland pirates; and fome papers which he had torn in pieces and thrown into the fea being recovered, were tranfmitted to England. Sir William Wade put them together with dexterity; and they demonstrated beyond a doubt, that the invalion of England was concerted by the Pope, the king of Spain, and the duke of Guife, About this time, too, a remarkable letter was intercept-Remarked from Mary to Sir Francis Englefield. She com-able letter plained in it that the could have no reliance on the in-intercepted tegrity of Elizabeth, and that she expected no happy by Elizaiffue to any treaty which might be opened for her re-beth. floration and liberty. She urged the advancement of the " great plot ;" she intimated, that the prince her fon was favourable to the "defignment," and disposed to be directed by her advice; she intreated, that every delicacy with regard to her own state and condition should be laid aside without scruple; and she affured him, that she would most willingly suffer perils and dangers, and even death itself, to give relief to the op-presided children of the church. These discoveries, so exasperating to the inquietudes and distresses of Elizabeth, were followed by a deep and general confernation. The terror of an invation spread itself with rapidity over England; and the Protestants, while they trembled for the life of their champion, were still more alarmed with the dangers which threatened their reli-

In this state of perplexity and distraction, the counfellors of Elizabeth did not forget that they had been her instruments in perfecuting the queen of Scots, and of the feverities with which the had treated the Catholics. They were fully fensible, that her greatness and fafety were intimately connected with their own; and they concurred in indulging her fears, jealousies, and resentment. It was relolved that Mary thould periffi. An is refolved affociation was formed, to which perfons of every con-on-

Scotland, dition and degree were invited. The professed business

of this affociation was the prefervation of the life of Elizabeth, which it was affirmed was in danger, from a conspiracy to advance some pretended title to the crown: and its members vowed and protetled, by the majefty of God, to employ their whole power, their bodies, lives, and goods, in her fervice; to withfind, as well by force of arms as by other methods of revenge, all persons, of whatever nation or rank, who should attempt in any form to invade and injure her fafety or her life, and never to defit from the forcible pursuit of them till they should be completely exterminated. They also vowed and protested, in the presence of the eternal God, to profecute to defluction any pretended fucceffor, by whom, or for whom, the detellable deed of the affaffination of Elizabeth should be attempted or committed. The earl of Leicester was in a particular manner the patron of this affociation; and the whole influence of Elizabeth and her ministers was exerted to multiply the

fubscription to a bond or league which was to prepare

the way, and to be a foundation for accomplishing the

full destruction and ruin of the Scottish queen. A combination fo resolute and so fierce, which pointed at the death of Mary, which threatened her titles to the crown of England, and which might defeat the fuccession of her fon, could not fail to excite in her bofom the bitterest anxieties and perturbation. Weary of her fad and long captivity, broken down with calamities, dreading afflictions fill more cruel, and willing to take away from Elizabeth every possible pretext of feies a scheme verity, she now framed a scheme of accommodation, to which no reasonable objection could be made. By Naw. her fecretary, the prefented it to Elizabeth and her privv-council. She protefled in it, that if her liberty should be granted to her, the would enter into the closest amity with Elizabeth, and pay an observance to her above every other prince of Christendom; that she would forget all the injuries with which the had been loaded, acknowledge Elizabeth to be the rightful queen of England, abitain from any claim to her crown during her life, renounce the title and arms of England, which the had ofurped by the command of her hufband the king of France, and represate the bull from Rome which had depoted the Englith queen. She likewife protefled, that the would enter into the affociation which had been formed for the fecurity of Elizabeth; and that the would conclude with her a defensive league, provided that it should not be prejudicial to the ancient alliance between Scotland and France; and that nothing should be done during the life of the English queen, or after her death, to invalidate her titles to the crown of England, or those of her son. As a confirmation of these articles the professed that the would confent to flav in England for fome time as an hoflage; and that if the was permitted to retire from the dominions of Elizabeth, the would furrender proper and acceptable persons as sureties. She also protested, that she would make no alterations in Scotland; and that, on the repeal of what had been enacted there to her difgrace, the would bury in oblivion all the injuries flic had received from her fubjects; that the would recommend to the king her fon those counsellors who were most attached to England, and that the would employ herfelf to reconcile him to the fugitive nobles; that the would take no fleps

superting his marriage without acquainting the queen

of England; and that, to give the greater firmnels to Souland. the proposed accommodation, it was her defire that he should be called as a party : and, in fine, she affirmed, that the would procure the king of France and the princes of Lorraine to be guarantees for the performance of her engagements. Elizabeth, who was failful hypernity in hypocrify, discovered the most decisive symptoms of a d treafatisfaction and joy when these overtures were commu-chery of nicated to her. She made no advances, however, to Elizabeth, conclude an accommodation with Mary; and her minifters and courtiers exclaimed against leniont and pacific measures. It was loudly infifted, that the liberty of Mary would be the death of Elizabeth; that her affociation with her fon would be the ruin both of England and Scotland; and that her elevation to power would extend the empire of Popery, and give a deadly blow

to the doctrines of the reformation. In the mean time, an act of attainder had paffed against the fugitive nobles, and their estates and honours were forfeited to the king; who, not fatisfied with this, fent Patrick mafter of Grav, to demand from the queen of England a furrender of their perfons. As this ambaffador had refided for fome time in France, and been intimate with the duke of Guife, he was recommended to Mary: but being a man of no principle, he eafily fuffered himfelf to be corrupted by Elizabeth; and while he pretended friendship to the unfortunate queen, he discovered ail that he knew of her intentions and those of her fon. The most feandalous Falle refalsehoods were forged against Mary; and the less she posts raised was apparently able to execute, the more the was faid against the to defign. That an unhappy woman, confined and queen of Scots. guarded with the utmost vigilance, who had not for many years sufficient interest to procure a decent treatment for herfelf, should be able to carry on fuch close and powerful negociations with different princes as were imputed to her, is an abfurdity which it must for ever be impossible to explain. That she had an amour with her keeper the earl of Shrewfbury, as was now reported, might be; though of this there is no proof. This, however, could fearcely be treason against Elizabeth: yet, on account of this, Mary was committed to the charge of Sir Amias Paulet and Sir Drue Drury, zealous puritans, and who, it was hoped, would treat her with fuch feverity as might drive her to despair, and induce her to commit is me rath action .-The earl of Leicester, faid to be Elizabeth's paremour, Affassius even ventured to fend affaffins, on purpole, by the mur- ent to der of Mary, at once to deliver his mittress from her her. fears. But the new keepers of the cafile, though re- An, 158; ligious bigots, were men of firiet probity, and rejected with foorn fuch an infamous transaction. In 1585, Mary began to feel all the rigours of a fevere imprisonment. She had been removed from Shestield to the castle of Tutbury; and under her new keepers she experienced a treatment which was in the highest degree

unjust, difrefreetful, and acrimonious. Two apartments or chambers only were allotted to her, and they were She is con-

her against the inclemencies of the weather. The liber-

ty of going abroad for pleasure or exercise was denied

to her. She was affailed by rheumatifms and other

maladies; and her physician would not undertake to

effect a cure, or even to procure her any eafe, unless

fmall and inconvenient, meanly furnished, and fo full fired, and

of apertures and chinks, that they could not protect treated.

of accommodation.

Scotland. The fliguld be removed to a more or modical dwelling. Applications for this purpole were frequently made, and uniformly rejected. Here, however, her own af-flictions did not extinguish in her mind her featibility for the misfortunes of others; and the often indulged herfelf in the fatisfaction of employing a fervant to go through the village of Tutbury in fearch of objects of diffreis, to whom the might deal out her charity. But her inhuman keepers, envying her this pleasure, commanded her to abilain from it. Imputing their rigour to a fulpicious fidelity, the defired that her fervant might, on these occasions, be accompanied by one of the foldiers of their guard, or by the conflable of the village. But they would not alter their prombition. They refused to her the exercise of the Christian duty of dispensing an alms; and they would not allow her the foft confolation of moidening her eye with forrows not her own. To in alt her the more, the caftle of Tutbury was converted into a common jail. A young man, whole crime was the profession of the Romith religion, was committed to a chamber which was opposite to her window, in order that he might be perfecuted in her fight with the greatest cruelty. Notwithflunding his cries and refiftance, he was dragged every morning to hear prayers, and to join in the Protellant worthip; and after enduring feveral weeks this extraordinary violence to his confcience, he was unmercifully firangled without any form of law or justice. Mary remonstrated with warmth to Elizabeth against indignities to shocking and so horrible; but instead of obtaining confolation or relief, the was involved more deeply in woe, and exposed to still severer inventions of malice and of anger.

In the midd of her misfortunes, Mary had still folaced herielf with hope; and from the exertions of her fon the naturally expected the greatest advantage. He Elizabeth had hitherto behaved with a becoming cordiality; and fention bein the negociation which the had opened with him for her affociation in the government, he had been studious to please and flatter her. He had informed her by a particular dispatch, that he found the greatest comfort in her maternal tenderness, and that he would accomplife her commands with humility and expedition; that he would not fail to ratify her union and aff ciation with him in the government; that it would be his most earnest endeavour to reconcile their common subjects to that measure; and that she might expect from him, during his life, every fatisfaction and duty which a good mother could promife to herfelf from an affectionate and obedient fon. But these fair bloifoms of kindness and love were all blasted by the treacherous arts of Elizabeth. By the mafter of Gray, who had obtained an afcendant over James, the turned from Mary his affections. He delayed to ratify her affociation in the government; and he even appeared to be unwilling to urge Elizabeth on the fubject of her liberty. The mafter of Grav had convinced him. that if any favour were shown to Mary by the queen of England, it would terminate in his humiliation. He affured him, that it his mother were again to mount the Scottill throne, her zeal for Popery would induce her to feek a hulband in the house of Austria; that

the would diffolve his affociation with her in the government, on pretence of his attachment to the re-

formed doctrines; and that he would not only lose the

glory of his referr tower, but endanger his mances Scottent of faccemon. May expollulated with him by letter on the timidity and coldnels of his behaviour, and he returned her an answer full of difrespect, in which he intimated his resolution to consider her in no other character than as queen-mother. Her amazement, indignation, and grief, were infinite. She wrote to Castelnau the French ambassador to inform him of her inquietudes and anguish. " My fon (faid she) is ungrateful; and I defire that the king your mafter may confider him no longer as a fovereign. In your future dispatches, abstain from giving him the title of king. I am his queen and his fovereign; and while I live, and continue at variance with him, he can at most be only an usurper. From him I derive no lustre; and without me he could only have been Lord Darnley or the earl of Lenox; for I raifed his father from being my fubject to be my husband. I ask from him nothing that is his; what I claim is my own; and if he perfiits in his course of impiety and ingratitude, I will bestow on him my malediction, and deprive him not only of all right to Scotland, but of all the dignity and grandeur to which he might fucceed through me. My enemies shall not enjoy the advantages they expect from him. For to the king of Spain I will convey, in the amplest form my claims, titles, and greatness."

between the queen of Scots and her fon, did not fail to make the best use of the quarrel for her own advantage. The Pope, the duke of Guife, and the king Alliance of of Spain, had concluded an alliance, called the holy the Popula league, for the extirpation of the Protestant religion all powers aover Europe. Elizabeth was thrown into the greatest gainst Eliconsternation on this account; and the idea of a coun-zabeth. ter affociation among the Protestant princes of Europe immediately fuggeited itself. Sir Edward Wotton was deputed to Scotland; and fo completely gained on the imbecillity of James, that he concluded a firm alliance with Elizabeth, without making any stipulation in favour of his mother. Nay, fo far was he the dupe of 848 this ambaffador and his millrefs, that he allowed himfelf flameful to be perfuaded to take into his favour Mr Archibald behaviour Douglas, one of the murderers of Lord Darnley; and, of James.

Elizabeth having thus found means to fow diffention

as if all this had not been sufficient, he appointed the affatfin to be his ambaffador to England.

Mary, thus abandoned by all the world, in the hands of her most inveterate and cruel enemy, fell a victim to her refentment and treachery in the year 1587. A plot Account of of affaffination had been formed in the foring of the Babingyear 1;85 against the English queen; purtly with the ton's conview of rescuing the Scottish princes; but chicaly from spiral y a a motive to ferve the interests of the Catholic religion, zabeth. This conspiracy, which originated with Catholic priests An. 1587and persons of no diffinction, was soon imparted to Mr Babington, a person of great fortune, of many accomplishments, and who had before that time discovered himself to be the zealous friend of Oueen Mary. That the had corresponded with Babington there is no doubt; but it was fome years previous to the formation of the plot. A long filence had taken place between them; and Morgan, one of the English fugitives in France, and a warm friend of Mary's, in the month of May 1586, wrote a letter to her, repeatedly and in the most preffing manner recommending a revival of that correspondence. In consequence of which, in her answer to

tween Ma-

Scotland. Morgan, dated the 27th day of July, the informed him, that she had made every apology in her power to Babington, for not having written to him for fo long a fpace; that he had generously offered himself and all his fortune in her cause; and that, agreeably to Morgan's advice, she would do her best to retain him in her interests; but she throws out no hint of her knowledge of the intended affaffination. On the very fame day the likewise wrote to Paget, another of her most confidential friends; but not a word in it with respect to Babington's scheme of cutting off the English queen. To Morgan and to Paget the certainly would have communicated her mind, more readily and more particularly than to Babington, and have consulted them about the plot, had she been accessory to it. Indeed it feems to have been part of the policy of Mary's friends to keep her a stranger to all clandestine and hazardous undertakings in her favour. To be convinced of this, we have only to recollect, that Morgan, in a letter of the fourth of July, expressly, and in the strongest terms, recom-\* Murdin, mended to have no intelligence at all with Ballard \*, who was one of the original contrivers of the plot, and who was the very person who communicated it to Babington. The queen, in consequence of this, shut the door against all correspondence, if it should be offered,

1 Ibid. 534. with that person +. At the same time, Morgan assigned no particular reasons for that advice; so cautious was he of giving the queen any information on the fubject : What he faid was generally and studiously obfcure : " Ballard (faid he, only) is intent on some matters of consequence, the issue of which is uncertain." He even went farther, and charged Ballard himfelf to abstain by all means from opening his views to the queen of Scots.

The conspiracy which goes under the name of Babington was completely detected by the court in the month of June: The names, proceedings, and refidences, of those engaged in it were then known: The blow might have been foon struck : The life of Elizabeth was in imminent danger. The conspirators, however, were not apprehended; they were permitted to enjoy complete liberty; treated as if there were not the least fuspicion against them; and in this free and quiet flate, were they fuffered to continue till the beginning of August, for a period of nearly two months. What could be the reasons for such a conduct? From what causes did the council of England suspend the just vengeance of the laws, and leave their queen's life ftill in jeopardy? Was it on purpose to procure more conspirators, and involve others in the crime?

Mary queen of Scots continued still detached from Babington and his affociates. Their destruction was a fmall matter compared with her's. Could fhe be de- Scotland. coyed into the plot, things would have put on a very different aspect. Babington's conspiracy, which in reality occasioned little dread, as it was early found out, and well guarded against, would prove one of the most grateful incidents in Queen Elizabeth's reign. Elizabeth's ministers, too, knew how much they had rendered themselves justly obnoxious to the Scottish princess: Should she come to mount the throne of England, their downfal was inevitable; from which, it should feem, is to be explained, why they were even more zealous than their mistress to accomplish her ruin.

Of these, Sir Francis Walfingham secretary of state Art and appears to have taken on himself the chief management treachery in concerting a plan of operations against the queen of beth and Scots; and as a model, he feems to have had in his eye her minithat which was purfued on a former occasion by the earl sters. of Murray. His spies having early got into the confidence of the lower fort of the conspirators, he now employed the very agency of the latter for his purpofes. Learning that a packet from France was intended to be conveyed by them to Queen Mary, and by the hands of one Gilbert Gifford a priest, whom he had secretly gained over from their affociation, he wrote a letter to Sir Amias Paulet, who had now the custody of the Scottish queen, requesting that one of his domestics might be permitted to take a bribe for conveying that packet to the captive princes. This was on purpose to communicate to her a letter forged in the name of Babington, in which that conspirator was made to impart to the Scottish queen his scheme of affassination, and to claim rewards to the perpetrators of the deed. Paulet, however, to his honour, refused to comply with the request of Walfingham; on which Gifford corrupted a brewer in the neighbourhood, who put his letters to Mary in a hole in the caftle-wall. By the fame conveyance it was thought that Mary would answer the letters; but it appears that she never faw them, and that of course no return was made (Y). It was then contrived that answers, in the name of the queen of Scots to Gifford, should be found in the hole of the wall. Walfingham, to whom these letters were carried, proceeded formally to decipher them by the help of one Thomas Philips, a person skilled in these matters; and after exact copies were taken of them, it is faid that they were all artfully fealed and fent off to the persons to whom they were directed. It appears, however, that only the letters directed to Babington were sent to him; and the answers which he made to the queen's supposed letters were carried directly to Walfingham. A foundation for criminating Mary being thus laid, the conspirators were quickly discovered, as being already known,

<sup>(</sup>Y) Dr Robertson of Dalmeny, who, in his history of Mary queen of Scots, has thrown much light on those dark transactions of Elizabeth's nefarious ministers, thinks it not improbable that an answer to Babington's letter was written by the Scottish queen's secretaries. Although they could not communicate that letter to herfelf, on account of her known abhorrence of affaffination, they perhaps wrote a dispatch in her name, approving of it; tempted by the prospect of escaping from imprisonment, and of their mistress being seated on the throne of England. This dispatch being conveyed through the same chink of the wall, was carried by Gifford to Walfingham; opened; deciphered, and copied by him; and then fent to Babington. Camden informs us, that Walfingham artfully forged a poftfeript in the fame cipher to this dispatch; in which Queen Mary was made to request of Babington to inform her particularly of the names of his accomplices, and of others who were friends to the cause.

Sectland, known, and fastered the death of trailers. The unlapabrupt and unceremonious; and after informing her of to Fother neav callle in Northamptonthire, N. and Paulet, breaking open the doors of her private c'uset, polleffed himfelf of her money, which amounted to not more than 7000 crowns. Her cabinets were carefully di patches from perfons beyond the fea, couies of letters which had been dictated by her, and about 60 table of ciphers and characters. There were also discovered in her person, and by the exercise of the most inveterate that the copies of her letters were in their hand-writing. to Naw, translated into English by Curl, and then put was on the foundation of the letters which Gifford had account of the confpiracy of Babington and his affociates. Sir Edward Wotton was now dispatched into France to accuse her to Henry III. and to explain to him the dan-

most proper method of proceeding against Mery. To nlot, and not the deligner of it, the most eligible fererity of Edward III. : by which it was enacted to be treaten plant le fortuient r ler till. It's one a preliah I cer pall d wife I sy was in Laday!, it mas ar VCL, XVIII Pat II.

tive of her, was not judged to be confident with the law " May, doubter and heir of James V. king of Scor-

judges, belowing on them in a bedy, or on the greater cattle of Foth ringay; and the d v after their arrival, they deputed to Mary, Sir Walter Milemay, Sir Amic Pollet, and Edward Barker, a public notary, to deliver lith qu'en gratified her unhappy paff. ns, and ofter reproaching Mary with her crimes, informed har that them. The Scottish princess, though a build d with command me to Cabitalt to a trial, as if I were live ub-right in ni h by any meannels my ligh birth, the princes my remockery of my rank. Kings alone can be ny peers. to counfell is to whole wild in I can apply for influcelil nes cano be employed wieff ne." The day a rishe 'ance of you' the lad to i ed to fack. have live moder their pr " & lon. This fee in ent and of wirling the very firplifing the. I cm into In 1 to c ve ler affil in e and . 1 . . d, ever fince, I will near clos apofon. The miferic of

ment I have juffered is a violation of all law." This afflicted but undaunted princels, after having thus fcorned the competency and repelled the pretexts of the commissioners, was induced at last, by arguments under the infidious maik of candour and friendthip, to depart from the proper and dignified ground which the had taken, and confent to that mode of trial which had been proposed. It was represented to her by Hatton the vice-cham' erlain, that by rejecting a trial, the herself of the only opportunity of letting her innocence in a clear light to the prefent and to future times. Imposed on by this artifice, the confented to make her appearance before the judges; at the same time, however, the ftill protested against the jurisdiction of the court,

855 and the validity of all their proceedings.

The accufation is preferred

Stuart's

After various formalities, the lord-chancellor opened the case : and was followed by Sergeant Gawdry, who against her proceeded to explain the above statute, and endeavoured to demonstrate that she had offended against it. He then entered into a detail of Babington's confpiracy; and concluded with affirming, " That Mary knew it, had approved of it, had promifed her affiftance, and had pointed out the means to effect it." Proofs of this charge were exhibited against her, and displayed with great art. The letters were read which Sir Francis Walfingham had forged, in concert with Gifford, &c. and her fecretaries Naw and Curl. The three fpies had afforded all the necessary intelligence respecting the confpiracy, on which to frame a correspondence between Mary and Babington, and on which dispatches might be fabricated in her name to her foreign friends; and the ciphers were furnished by her two fecretaries. But befides these pretended letters, another species of evidence was held out against her. Babington, proud of the difpatch fent to him in her name by Walfingham and Gifford, returned an a fwer to it; and a reply from her by the fame agency was transmitted to him. Deluded, and in toils, he communicated these marks of her attention to Savage and Ballard, the most confidential of his affociates. His confession and theirs thus became of importance. Nor were her letters and the confessions of these conforators deemed sufficient vouchers of her guilt. Her two fecretaries, therefore, who had lately forfaken her, were engaged to subscribe a declaration, that the dispatches in her name were written by them at her command, and according to her instructions. These branches of evidence, put together with skill, and heightened with all the imposing colours of eloquence, were pressed on Mary. Though she had been long accustomed to the perfidious inhumanity of her enemies, her amazement was infinite. She loft not, however, her courage; and her defence was alike expressive of her penetration and magnanimity.

856 Mary's defence.

Stuart.

" The accusation preferred to my prejudice is a most detestable calumny. I was not engaged with Babington in his confpinery; and I am altogether innocent of having plotted the death of Elizabeth. The copies of Babington's letters which have been produced, may indeed be taken from originals which are genuine; but it is impossible to prove that I ever received them. Nor did he receive from me the difpatches addressed to him in my name. His confession, and those of his associates. which have been urged to establish the authority of my

letters to him, are imperfect and vain. If these confpi. Scotland, rators could have testified any circumstances to my hurt. they would not fo foon have been deprived of their lives. Tortures, or the fear of the rack, extorted improper confessions from them; and then they were executed. Their mouths were opened to utter false criminations: and were immediately that for ever, that the truth might be buried in their graves. It was no difficult matter to obtain ciphers which I had employed; and my adverfaries are known to be superior to scruples. I am informed that Sir Francis Walfingham has been earnest to recommend himfelf to his fovereign by practices both against my life and that of my fon; and the fabrication of papers, by which to effectuate my ruin, is a bufinefs not unworthy of his ambition. An evidence, the most clear and incontestable, is necessary to overthrow my integrity; but proofs, the most feeble and suspicious. are held out against me. Let one letter be exhibited, written in my hand, or that bears my superscription, and I will inflantly acknowledge that the charge against me is fufficiently supported. The declaration of my fecreturies is the effect of rewards or of terror. They are thrangers; and to overcome their virtue was an eafy achievement to a queen whose power is absolute, whose riches are immense, and whose ministers are profound and daring in intrigues and treachery. I have often had occasion to suspect the integrity of Naw; and Curl, whose capacity is more limited, was always most obsequious to him. They may have written many letters in my name without my knowledge or participation; and it is not fit that I should bear the blame of their inconfiderate boldness. They may have put many things into dispatches which are prejudicial to Elizabeth; and they may even have subscribed their declaration to my prejudice, under the prepoffession that the guilt which would utterly overwhelm them might be pardoned in me. I have never dictated any letter to them which can be made to correspond with their testimony. And what, let me ask, would become of the grandeur, the virtue, and the fafety of princes, if they depended upon the writings and declarations of fecretaries? Nor let it be forgotten, that by acting in hostility to the duty and allegiance which they folemnly fwore to observe to me, they have utterly incapacitated themselves from obtaining any credit. The violation of their oath of fidelity is an open perjury; and of fuch men the proteftations are nothing. But, if they are yet in life, let them be brought before me. The matters they declare are fo important as to require that they should be examined in my presence. It argues not the fairness of the proceedings against me, that this formality is neglected. I am also without the affistance of an advocate; and, that I might be defenceless and weak in the greatest degree, I have been robbed of my papers and commentaries. As to the copies of the dispatches which are faid to have been written by my direction to Mendoza, the lord Paget, Charles Paget, the archbishop of Glasgow, and Sir Francis Inglefield, they are most unprofitable forgeries. For they tend only to flow that I was employed in encouraging my friends to invade England. Now, if I should allow that these dispatches were genuine, it could not be inferred from them that I had conspired the death of Elizabeth. I will even confess, that I have yielded to the strong impulses of nature; and that, like a human creature, encompassed

Scotland, with dangers, and infulted with wrongs, I have exerted myfelf to recover my greatness and my liberty. The efforts I have made can excite no bluthes in me; for the voice of mankind must applaud them. Religion, in her sternest moments of severity, cannot look to them with reproach; and to confider them as crimes, is to defpife the fanctimonious reverence of humanity, and to give way to the suspicious wretchedness of despotism. I have fought by every art of concession and friendship to engage my fifter to put a period to my fufferings. Invited by her fmiles, I ventured into her kingdom, in the pride and gaiety of my youth; and, under her anger and the miseries of captivity, I have grown into age. During a calamitous confinement of 20 years, my youth, my health, my happiness, are for ever gone. To her tenderness and generofity I have been indebted as little as to her justice: and, oppressed and agonizing with unmerited afflictions and hardships, I scrupled not to befeech the princes my allies to employ their armies to relieve me. Nor will I deny, that I have endeavoured to promote the advantage and interest of the perfecuted Catholics of England. My entreaties in their behalf have been even offered with earnefiness to Oneen Elizabeth herfelf. But the attainment of my kingdom, the recovery of my liberty, and the advancement of that religion which I love, could not induce me to flain my felf with the crimes that are objected to me. I would difdain to purchase a crown by the affassination of the meanest of the human race. To accuse me of scheming the death of the queen my fifter, is to brand me with the infamy which I abhor most. It is my nature to employ the devotions of Either, and not the fword of Judith. Elizabeth herself will attest, that I have often admonished her not to draw upon her head the resentment of my friends by the enormity of her cruelties to me. My innocence cannot fincerely be doubted: and it is known to the Almighty God, that I could not possibly think to forego his mercy, and to ruin my foul, in order to compais a transgression so horrible as that of her murder. But amidd the inclement and unprincipled pretences which my adversaries are pleased to invent to overwhelm me with calamities and anguish, I can trace and discover with ease the real causes of their hostility and provocation. My crimes are, my birth, the injuries I have been compelled to endure, and my religion. I am proud of the first; I can forgive the fecond; and the third is a fource to me of such comfort and hope, that for its glory I will be contented that my blood shall flow upon the feaffold."

To the defence of Mary, no returns were made befide unsupported affirmations of the truth of the evidence produced to her prejudice. In the course of the trial, however, there occurred fome incidents which deferve to be related. My lord Burleigh, who was willing to discompose her, charged her with the fixed refolution of conveying her claims and titles to England to the king of Spain. But though, in a discontented humour with her fon, she had threatened to disinherit him, and had even corresponded on the subject with her felect friends, it appears that this project is to be confidered as only a transient effect of refentment and paffion. She indeed acknowledged, that the Spanish king professed to have pretensions to the kingdom of England, and that a book in justification of them had been communicated to her. She declared, however, that she

had incurred the displeasure of many by disapproving of Scotland. this book; and that no conveyance of her titles to the Spanish king had been ever executed.

The trial continued during two days; but the commissioners avoided delivering their opinions. My lord Burleigh, in whose management Elizabeth chiefly confided, and whom the Scottish queen discomposed in no common degree by her ability and vigour, being cager to conclude the butiness, demanded to know if the had any thing to add to what the had urged in her defence. She informed him, that the would be infinitely pleafed the defice and gratified, if it should be permitted to her to be heard heard in her judification before a full meeting of parlia-parliament, ment, or before the queen and her privy-council. This is before intimation was unexpected; and the request implied in he queen it was rejected. The court, in confequence of previous instructions from Elizabeth, adjourned to a farther day, and appointed that the place of its convention should be the flar-chamber at Wellminster. I accordingly assembled there; and Naw and Curl, who had not been produced at Fotheringay-castle, were now called before the commissioners. An oath to declare the truth was put the declaration they fur scribed was in every respect just and faithful. Nothing farther remained but to pronounce fentence against Mary. The commissioners una-Judgement nimously concurred in delivering it as their verdict or given ajudgement, that the " was a party to the conspiracy of Sainst her. Babington; and that the had compassed and imagined matters within the realm of England tending to the hurt, death, and destruction, of the royal person of Elizabeth, in opposition to the flatute franced for her protection," On the fame day in which this extraordinary fentence was given, the commillioners and the judges of England issued a declaration, which imported, that it was not to derogate in any degree from the titles and

honour of the king of Scots. The fentence against Mary was very foon ratified by The lenthe English parliament. King James was struck with tence ratihorror at hearing of the execution of his mother; but fied by that fpiritless prince could show his refentment no far-parliament. ther than by unavailing embathes and remonstrances. An. 1585,

France interpoled in the same ineffectual manner; and on the 6th of December 1586, Elizabeth caused the fentence of the committioners against her to be proclaimed. After this she was made acquainted with her fate, and received the news with the greatest composure, and even apparent fatisfaction. Her keepers now refufed to treat her with any reverence or respect. They entered her apartment with their heads covered, and made no obeifance to her. They took down her canopy of flate, and deprived her of all the badges of royalty. By these infulting mortifications they meant to inform her, that the had funk from the dignity of a princefs to the abject state of a criminal. She smiled, and said, " In despite of your sovereign and her subservient judges, I will live and die a queen. My royal character is indelible; and I will furrender it with my spirit to Almighty God, from whom I received it, and to whom my honour and my innocence are fully known. In this melancholy fituation Mary addreffed a magnanimous letter to Elizabeth, in which, without making the least folicitation for her life, the only requested that her body might be carried to France; that the might be publicly executed; that her fervants might be permitted to deSecolo.

part out of England unmolefied, and onjoy the legacies which she bequeathed them. But to this letter no answer was given.

In the mean time James, who had neither address nor courage to attempt any thing in behalf of his mother, announced her fituation to his bigotted fubjects, and ordered prayers to be faid for her in all the churches. The form of the petition he preferibed was framed with delicacy and caution, that the clergy might have no objection to it. He enjoined them to pray, " that of his truth, and protect her from the danger which was hanging over her." His own chaplains, and Mr David all the other clergy refused to proftitute their pulpits by preferring any petitions to the Almighty for a Papitt. James, shocked with their spirit of intolerance and sediinfult, he commanded the archbishop of St Andrew's to preach before him. The ecclefiaftics, difguited with tioner in divinity, to occupy the ralpit defigued for testified his arprife; but told Cowper, that if he would obey his injunction, he might proceed to officiate. compc1 him to obedience. The enraged probationer exki, g in the great day of the Lord;" and denounced a in his defence. The arc. histop now ascending the pulmending modern in and clouity to the audience. In and Mr William W. for, two miniters remarkable for prenching I wing the pie "ere of the hill r.

Elizabers, to the sea or take, Alt the tormets and diffused of the large of minorable pairs. At times the courted the large of of tablinde, and real dot to be confoled or to fire k. In a large feature, and me bride and into local and wild exchanging expressive of the date of her mind. Her fabjects wanted the data mind to her mind. Her fabjects wanted the data mind to her will a be a disject wanted the data mind to her will be a disject with the fabjects wanted the data mind to be a disject with the fabject wanted the data mind to the mind, who knew that it is the nature of the to each of min, were caused in the same of the mind of the

don to afhes. An actual confpiracy was even malicioufly charged upon L'Aubelpine the French refident; and he was forced to withdraw from England in difgrace. From the panic terrors which the miniters of Elizabeth were fo fludious to excite, they forupled not loudly and invalidly to lines, that the peace and transquility of the king lom could or re-established only by the fleedy execution of the Scottling upon.

While the nation was thus artfully prepared for the but figdeficition of Mary, Elizabeth ordered Secre ary Da-the wavision to bring to her the warrant for her death. Ha-var-twe
vision to bring to her the warrant for her death. Ha-var-twe
ving perufed it with deliberation, the observed that it death
was extended in proper terms, and gave it the authority
of her fubscription. She was in a humour somewhat
gay, and demanded of him it he was not forry for what
the had done. He replied, that it was affilting to him
to think of the flate of public affairs; but that he
greatly preferred her life to that of the Scottlish princeis. She enjoined him to be secret, and defired, that
before he should deliver the warrant to the chancellor,
he should carry it to Walfingham. "I fear much
(faid flie, in a merry tone), that the grief of it will

fucceeded it. Though the earneitly defined the death

of Mary, the was yet terrified to encounter its in my. fome method which would conceal her confent to it. After intimating to Mr Davidson an anxious wish that Wishes to its blame should be removed from her, the counselled are ber him to join with Wallingham in addressing a letter to margered, Sir Amias Paulet and Sir Drue Drury, recommending this deed affected Davidson, and he objected to it. She repeated resolutely her injunctions, and he departed to execute them. A letter under his name and that of Walfingham was deipalched to Mary's keepers, communicating to them her purpofe. Corrupted by her prefions, and lost to the fensibilities of virtue, Elizabeth the cares of a grat nation, the bluthed not to give it in charge to ler militers to enjoin a murder; and this though the flaves of religious prejudices, felt an eleva-keeper reti i o' mind which ret! cted the greatest difgrace on the ful fovereign. They confidered themselves as großly intheir oach of afficiation; and they were nic, profe,

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S ... d. mended or Win, field to his notice, v as a maid not hefitate to the blow. The after thed over an exthe hould take upon he felf the blame of this deed, it ever the reputation, the edates, and the children, of the

The war-

Walfingham, was carried to the coancellor, who put and the exclaimed with bitterness against his hatte. He gave no command to flop the operation of the marrant. In a state of uncaffness and apprehension, he communiquainted with the arts of their mittrefs, and who knew perceived, or were fecratly informed, that the defired longer. While they were anxious to pleafe Eliza eth, the lived. They dispatched the warrant to the earls of

theringay caftle, they found that M ry was field, and com said them, read over the war at, which she I ev then affected to halify their mi as by en ering your, he deed and against payery, countered her to re- Sentine namice its chais, and recommended to her attention Dr fome impatience; and discovered no anxiety to be converted by this ecclefiaftic, whom he represented as a m it learn d divine. Rifi g into passion, he exclaimed, that " her life would be the death of their religion, and that her death would be its life." After informing him repair to her. The two earls concurred in observing, request. She intimated to them the favours for which fed a with to know if her fifter had attended to them. They answered, that these were points on which they had received no inftructions. She made inquiries conther it had ever been heard of, in the wickedelt times of the most unprincipled nation, that the fervants of a destroying her. They looked to one another, and were filent. Bourgoin her physician, who with her other domethics was prefent at this interview, feeing the two herfelf for death. He infilted, that a respect for her high rank, and the multiplicity and importance of her pretended, how ver, no to underland the propriety of

a full vitt to thir a liftims; and while the experien-plant ced a not scholy ple tire in their tears, lamentations, h d every thing about it that was most honourable; and the miferies from which she was to be relieved were the tion and ladne's, the ". lefore enjurised them to be contented ... I her py. That the might have the more leithe remarked to Bor oin her phylicin, that the force or trut' we inform antable; for that the carl of Kent, ag ir Bird eth, h. I plainly i formed b r, that her death would be the feculty of their religion. When b fore her, and tre ed them with the kilds it wrich t a Sin's. At her secu omed time the we it to fleep . Star ...

Scotland. fmallness of her legacies from her inability to be more generous. Following the arrangement the had previ-Account of outly made, the then dealt out to them her goods, wardher execu. robe, and jewels. To Bourgoin her phylician the committed the care of her will, with a charge that he would Feb. 1387. deliver it to her principal executor the duke of Guise. She also entrusted him with tokens of her affection for the king of France, the queen-mother, and her relations of the house of Lorraine. Bidding now an adieu to all worldly concerns, flie retired to her oratory, where the was feen fometimes kneeling at the altar, and fometimes fianding motionless with her hands joined, and her eves directed to the heavens. In these tender and agitated moments, she was dwelling on the memory of her fufferings and her virtues, repofing her weakneffes in the bosom of her God, and lifting and solacing her fpirit in the contemplation of his perfections and his mercy. While she was thus engaged, Thomas Andrews, the high theriff of the county, announced to her, that the hour for her execution was arrived. She came forth dreffed in a gown of black filk; her petticoat was bordered with crimfon-velvet; a veil of lawn bowed out with wire, and edged with bone-lace, was faftened to her caul, and hung down to the ground: an Agnus Dei was suspended from her neck by a pomander chain; her beads were fixed to her girdle; and the bore in her hand a crucifix of ivory. Amidst the fcreams and lamentations of her women the descended the stairs; and in the porch she was received by the earls of Kent and Shrewsbury with their attendants .--Here, too, the met Sir Andrew Melvil the mafter of her household, whom her keepers had debarred from her presence during many days. Throwing himself at her feet, and weeping aloud, he deplored his fad deftiny, and the forrowful tidings he was to carry into Scotland.

After the had spoken to Melvil, the befought the two earls that her fervants might be treated with civility, that they might enjoy the prefents the had beflowed on them, and that they might receive a fafe conduct to depart out of the dominions of Elizabeth. These slight favours were readily granted to her. She then begged that they might be permitted to attend her to the fcaffold, in order that they might be witnesses of her behaviour at her death. To this request the earl of Kent discovered a strong reluctance. He said that they would behave with an intemperate passion; and that they would practife superstitious formalities, and dip their handkerchiefs in her blood. She replied, that she was fure that none of their actions would be blameable; and that it was but decent that some of her women should be about her. The earl still hesitating, she was affected with the infolent and stupid indignity of his malice, and exclaimed, " I am cousin to your mistress, and descended from Henry VII. I am a dowager of France, and the anoisted queen of Scotland." The earl of Shrewsbury interpoling, it was agreed that she should select two of her women who might affift her in her last moments, and a few of her men-fervants, who might behold her demeanour, and report it.

She entered the hall where the was to fuffer, and advanced with an air of grace and majefly to the fcaffold, which was built at its farthest extremity. The spectators were numerous. Her magnanimous carriage, her beauty, of which the luftre was yet dazzling, and her matchless misfortunes, affected them. They gave Scotland. way to contending emotions of awe, admiration, and pity. She ascended the scaffold with a firm step and a ferene aspect, and turned her eye to the block, the aye, and the executioners. The spectators were dislolved in tears. A chair was placed for her, in which the feated herfelf. Silence was commanded; and Beale read aloud the warrant for her death. She heard it attentively, yet with a manner from which it might be gathered that her thoughts were employed on a fubiect more important. Dr Fletcher dean of Peterborough taking his station opposite to her without the rails of the scaffold, began a discourse on her life, past, present, and to come. He affected to enumerate her trespasses against Elizabeth, and to describe the love and tenderness which that princefs had shown to her. He counselled her to repent of her crimes; and while he inveighed against her attachment to Popery, he threatened her with everlafting fire if the should delay to renounce its errors. His hehaviour was indecent and coarse in the highest degree; and while he meant to infult her, he infulted still more the religion which he professed, and the fovereign whom he tlattered. Twice the interrupted him with great gentleness. But he pertinaciously continued his exhortations. Raifing her voice, the commanded him with a resolute tone to withhold his indignities and menaces, and not to trouble her any more about her faith. " I was born (faid she) in the Cathelic religion; I have experienced its comforts during my life, in the trying feafons of fickness, calamity, and forrow; and I am resolved to die in it." The two earls, ashamed of the favage obitinacy of his deportment, admonished him to defift from his speeches, and to content himself with praying for her conversion. He entered on a long prayer; and Mary falling on her knees, and difregarding him altogether, employed herself in devotions from the office of the Virgin.

After having performed all her devotions, her women affifted her to difrobe; and the executioners offering their aid, the repressed their forwardness by obserying, that the was not accustomed to be attended by fuch fervants, nor to be undreffed before fo large an affembly. Her upper garments being laid afide, the drew on her arms a pair of filk gloves. Her women and men fervants burst out into loud lamentations. She put her finger to her mouth to admonish them to be filent, and then bade them a final adieu with a fmile that feemed to confole, but that plunged them into deeper woe. She kneeled refolutely before the block, and faid, " In thee, O Lord! do I trust, let me never be confounded." She covered her eyes with a linen handkerchief in which the eucharist had been inclosed; and firetching forth her body with great tranquillity, and fitting her neck for the fatal stroke, the called out, " Into thy hands, O God! I commit my spirit." The executioner, from delign, from unskillfulness, or from inquietude, struck three blows before he separated her head from her body. He held it up mangled with wounds, and streaming with blood; and her hair being discomposed, was discovered to be already gray with afflictions and anxieties. The dean of Peterborough alone cried out, " So let the enemies of Elizabeth perift." The earl of Kent alone, in a low voice, answered, " Amen." All the other spectators were melted

into the tenderest sympathy and forrow.

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Her women haitened to protect her dead body from the curiofity of the spectators; and solnced themselves with the thoughts of mourning over it undiffurbed when they flould retire, and of laying it out in its funcral garb. But the two earls prohibited them from difcharging these melancholy yet pleasing offices to their departed miltress, and drove them from the hall with indignity. Bourgoin her physician applied to them that he might be permitted to take out her heart for the purpole of preferving it, and of carrying it with him to France. But they refused his intreaty with difdain and anger. Her remains were touched by the rude hands of the executioners, who carried them into an adjoining apartment; and who, tearing a cloth from ful. The block, the cushion, the scasfold, and the garments, which were trained with her blood, were confumed with fire. Her body, after being embalmed and committed to a leaden coilin, was buried with royal fplendour and pomp in the cathedral of Peterborough. Elizabeth, who had treated her like a criminal while the lived, feemed disposed to acknowledge her for a queen

On the death of his mother, the full government of the kingdom devolved on James her fon. Elizabeth, apprehensive of his refentment for her treatment of his mother, wrote him a letter, in which the disclaimed all knowledge of the fact. James had received intelligence of the murder before the arrival of this letter, which was fent by one Cary. The messenger was stopped at Berwick by an order from the king, telling him, that, if Mary had been executed, he should proceed at his peril. James that himfelf up in Dalkeith castle, in order to indulge himself in grief; but the natural levity and imbecility of his mind prevented him from acting in any degree as became him. Instead of resolutely adhering to his first determination of not allowing Cary to fet foot in Scotland, he in a few days gave his confent that he should be admitted to an audience of certain members of his privy council, who took a journey to the borders on purpose to wait upon him. In this conference, Cary demanded that the league of amity between the two kingdoms should be inviolably observed. He faid that his miffres was grieved at the death of Mary, which had hap ened without her confent; and, in Elizabeth's name, offered any fatisfaction that James could demand. The Scots commissioners treated Carv's speech and proposal with becoming disdain. They obferved, that they amounted to no more than to know whether James was disposed to fell his mother's blood; adding, that the Scottish nobility and people were determined to revenge it, and to interest in their quarrel the other princes of Europe. On this Cary delivered to them the letter from Elizabeth, together with a declaration of his own concerning the murder of the queen; and it does not appear that he proceeded fart! er.

This reception of her ambaffador threw Elizabeth into the utmost consternation. She was apprehensive that James would join his force to that of Spain, and entirely overwhelm her; and had the refentment or the spirit of the king been equal to that of the nation, it is probable that the haughty English princess would have been made feverely to repent her perfidy and cruelty. It does not, however, appear, that James had any ferious

intention of calling Elizabeth to an account for the Scotland. murder of his mother; for which, perhaps, his natural imbedility may be urged as an excuse, though it is more probable that his own necessity for money had fivallowed up every other consideration. By the league formerly beth should pay an annual rension to the king of Scotland. James had neither economy to make his own revenue answer his purposes, nor address to get it increafed. He was therefore always in want; and as Elizabeth had plenty to spare, her friendship became a va-luable acquitition. To this consideration, joined to his view of alcending the English throne, must chiefly be ascribed the little resentment shown by him to the atro-

Elizabeth was not wanting in the arts of diffimula-Secretary tion and treachery now more than formerly. She pro. Davidson fecuted and fined Secretary Davidson and Lord Bur- and Lord leigh for the active part they had taken in Mary's publiked death. Their punishment was indeed much less than they deferved, but they certainly did not merit fuch treatment at her hands. Walangham, though equally guilty, yet escaped by pretending indisposition, or perhaps escaped because the queen had now occasion for his fervices. By her command he drew up a long letter addreffed to Lord Thirlston, King James's prime minister; in which he thowed the necedlity of putting Mary to death, and the folly of attempting to revenge it. boafted of the fuperior force of England to that of Scotland; shewed James that he would for ever ruin his pretentions to the English crown, by involving the two nations in a war; that he ought not to truit to foreign alliances; that the Catholic party were fo divided among themselves, that he could receive little or no affiliance from them, even supposing him so ill advised as to change his own religion for Popery, and that they would not truft his fincerity. Laftly, He attempted to show, that James had already discharged all the duty towards his mother and his own reputation that could be expected from an affectionate fon and a wife king; that his interceding for her with a concern to becoming nature, had endeared him to the kingdom of England; but that it would be madness to push his resentment

This letter had all the effect that could be defired. James gave an audience to the English ambassidor; and being affired that his blood was not tainted by the execution of his mother for treason against Elizabeth, but that he was fill capable of fucceeding to the crown of England, he confented to make up matters, and to address the murderer of his mother by the title of loving and affectionate fifter.

The reign of James, till his accession to the crown of England by Elizabeth's death in 1603, affords little matter of moment. His feandalous concessions to Elizabeth, and his contlant applications to her for money, filled up the measure of his meanness. Ever fince the expulsion of Mary, the country had in fact been reduced to the condition of an English province. The fovereign had been tried by the queen of England, and executed for treason; a crime, in the very nature of the thing impossible, had not Scotland been in subjection to Englan's and to complete all, the contemptible succesfor of Mary thought himfelf well off that he was not a

traitor .

transition in his fovereign the quest of Equation must be pole, for the cale will admit of the other pole.

Danier be reign of James, the trible that he are added a which be in at the reformation, and any violent draggers and the revolution in 1638, went on with a more creded till the revolution in 1638, went on with a stribence. Continual clamours were railed against Popery, at the lime time that the very fundamental principles of Popesy were held, my urged in the mod link lent manner, as the effects of immediate infpiration. Their were the total independence of the clergy on every entitly power, at the fame time that all earthly powers were to be fubject to them. Their fantaltic decrees were fuppeded to be binding in heaven; and they took care that they flu uld be binding on earth, for whoever had offended to far as to fall under a fentence of excommunication was declared as earther.

It is only to fee that this circumstance must have comrioused to disturb the public tranquility in a great degree. But besides this, the weaknels of J.mes's gavernment was such, that, under the name of peace, the whole kingdom was involved in the missers of civil war; the feudal mimosities revived, and shaughter ard muster revailed all over the country. J.mes, fitted only for pedantry, disputed, argued, modelled, and re-modelled, the constitution to no purpole. The clergy continued their infolence, and the laity their violences on one anoher; at the same time that the king, by I is unhappy credulity in the operation of demons and witches, declared a most inhuman and bloody war against the poor old women, many of whom were burnt for the imaginary

King James had for fome time formed a matrimonial feheme, and had fixed his eyes on the princefs Anne, daughter of Frederick II. King of Denmark. Queen Elizabeth attempted to embarrafs this marriage as fite had done that of his mother, but James overlooked all obliacles by an effort of gallantry of which he was deemed ineapable. On the 22d of October, 1589, he failed to Denmark and married the princefs Anne, then in the 16th year of her age. The character of this princefs has been generally repreferted in a very unfavourable light, but probably the imputations which have been eaft on it, arofe more from prejudice than reality.

It is to be a first leave to confir the board of the king. The all the first leave to the confirmation of the first leave to the part of the king. The all the second of the second of the first leave the action of the first leave the action of the first leave the confirmation of the first leave the confirmation of the first leave the confirmation of the first leave the first leave

The réality of this confipiracy has been questioned by many writers, for no other reason, as it would appear, but because they could not affign a rational motive for Gowrie's engaging in so hazardous an enterprite; and some have even infinitated that the conspiracy was entered into by the king against Gowrie in order to get possession of the best of the possession of th

The particulars of this confpiracy, as far as they can be collected from the trial of the confpirators, and the depofitions of the witneffes, published by Mr Arnot and the earl of Cromarty, are as follows. On the 5th of August at feven in the moruing, while the king was

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<sup>(</sup>z) The family of Ruthven had long been looked upon a the head of that party which was attached to England and the reformation; and the accomplishments of the latter Gowie qualified him to be the leader of an enterprising fatien. The importance be derived from aritheratic is fluence over his extendive domains, and from the standard of a powerful party in clurch and rate, was embellished with the latter of a regal defect. Thus ambition, as well as recent, might fittinuate him to his during enterprise. Indeed, if his attempt we sto be directled against the life of the king, it could no longer be felt for him to remain in the condition of a ful ject: and the indeed of a makinous input sion of hashridy, with which the finance reproached King James, might affined a plantile pretext for feedball, the royal offspring. The family of Hamilton, next heir to the crown, had long bett its makinty, and the earl of Arate, its height, had be this judgement; and, though there undoubted were reversely interesting the control of the proof by official gower and popularity to make their in late. But if Gowie and bi brother were really endowed with hade price account finances which have been in highly sounded, and which made their countrymen conceive the most large, no keep the first were and array, which the transport of founded by the ministers, who for the official of full relative to the real array of the transport of founded by the ministers, who for the official of full relative to the real array of the proof of the relative to the real array of the defect in tide, and make him as caseful, while there were maken heirs to the country on a finish occasion.

Scotland, about to mount his horfe, to hunt in Falkland park,

Alexander Ruthven, brother of the earl of Gowrie, addressed him in a very familiar manner. After the hunt was over, the king defired the duke of Lenox to accompany him to the earl of Gowrie's at Perth, telling him that Alexander Ruthven had invited him to get fome hidden treasure, but desired the duke to have an eye to himfelf, and to follow him wherever he went with Alexander Ruthven. When they arrived at the earl of Gowrie's, it was observed that the earl's servants were armed. After the king had dined, Ruthven carried him to the uppermost part of the house, where he attempted to make him a prisoner, and to bind his hands; but the king refifted and called out treafon from the window. Sir John Ramfay, who carried the king's hawk, first entered the chamber, where he faw Ruthven struggling with the king. Ramfay foon dispatched the traitor, and the earl of Gowrie entering with a fword in each hand, and followed by armed men, there enfued a thort conflict, in which the earl was mortally wounded by Sir John Ramfay.

For this eminent fervice Sir John Ramfey was ennobled; and though Gowrie and his brother fell in the struggle, they were attainted by an act of parliament, which decerned their name, memory, and dignity, to be extinguished; their arms to be cancelled; their whole estates to be forfeited and annexed to the crown: the name of Ruthven to be abolished; and their posterity and furviving brethren to be incapable of fucceeding to, or of holding, any offices, honours, or possessions.

The most memorable transaction of James's reign, and that most to his honour, is the civilizing of the Western islanders. For this purpose, he instituted a company of gentlemen adventurers, to whom he gave large privileges for reforming them. The method he proposed was to transport numbers of them to his low countries in Scotland, and to give their islands, which were very improveable, in fee to his lowland subjects who should choose to refide in the islands. The experiment was to be made upon the Lewes, a long range of the Ebudæ; whence the adventurers expelled Murdoch Macleod, the tyrant of the inhabitants. Macleod, however, kept the fea; and intercepting a ship which carried one of the chief adventurers, he fent him prisoner to Orkney, after putting the crew to the fword. Macleod was foon after betraved by his own brother, and hanged at St Andrew's. The hiftory of this new undertaking is rather dark; and the fettlers themselves scem to have been defective in the arts of civilization. The arrangements they made were confidered by the inhabitants as very oppressive; and one Norman, of the Macleod family, attacked and subdued them so effectually, that they not only confented to yield the property of the islands to him, but engaged to obtain the king's pardon for what he had done.

From the conspiracy of the Gowries there are few Acce ffion of James to transactions deserving of notice in the reign of James VI. the crown till the death of Oucen Elizabeth in 1603, called him of England to the English throne. From that period the affairs of An. 1603. Scotland are so intimately blended with those of Eng-

land, that they cannot properly be confidered apart. We have accordingly given a detail of the transactions of both countries from the accession of James to the throne of England, in the article BRITAIN. Some circumflances more peculiarly relating to Scotland, will

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be found under the articles EDINBURGH, LEITH, and Scotland. GLASCOW.

We shall conclude the historical part of this article with a brief review of the state of affairs in Scotland from the introduction of the reformed religion, and a general statement of the effects produced, by the accession of James, on the state of his native king-

The period of the reformation may be regarded as Review of the period of crimes. The people were reformed from public af-Papacy to Protestantism; but there was no reform in lans from their morals. It was the fashion to declaim about re-mation. ligion; but if we may judge from the facts related by the annalists of those revolutionary times, religion had but little influence on the lives and manners of the people. Conspiracy followed conspiracy, and crime succeeded crime in rapid fuccession. History evinces that every great revolution produces the most unhappy effects on the human character; and it is certain from the

annals of the reformation in Scotland, that the turbulent

fpirit of the people received an additional incitement from the civil conflicts of the superior classes.

We have feen that the reformers were more studious to pull down than to build. The whole effates of the ancient church were appropriated by the nobles before any proper establishment was made for the reformed clergy. Laws for promoting and fecuring the reformation were ratified on every topic, except that of pro-viding for the ministers of the new religion. The church judicatories and the reformed clergy took the place, and affumed the practices, of the Papal ellablishment and the Popilh functionaries. The ministers censured from the pulpits the conduct of the court; they difputed the authority of the king, and promoted tumults and fedition through the nation, fo that the king and the parliament found it necessary to enact a variety of laws for enforcing the obedience of the ecclefiaftical to the civil power; and fome of the clergy continuing contumacious, they were expelled the kingdom. From this measure, however necessary it might be deemed, the king acquired much popular odium; and it was the prelude to continual disputes between him and the leaders of the reformation. In 1580, a convention of the clergy affembled at Dundee, and paffed a refolution abolishing Episcopacy. This was opposed by a counter declaration from the king; and in 1597, the parliament paffed a law, by which it was enacted, that " minifters, provided to prelacy, should have a place in the

In order to erect the affumptions of the newly formed church on the ruins of the state, the clergy had proceeded to fuch lengths, that it became necessary to oppose barriers to their pictenfions. So early as the year 1 584, the parliament had paffed an act, declaring, that the honour, authority, and dignity, of the estates shall sland and continue in their ancient integrity, supreme over all things and all perfons; and, to support this declaration by an adequate penalty, it was further declared to be treason to call in question, or to diminish, the power of the three effates. All other conventions or affemblies that pretended to meet without the king's authority, were denounced as illegal. What was thus declared amid the ft te, conflitute only new affirmations of the ancient law; but thefe wife provisions were followed by a

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As a new power had arisen rather in the church than in the flate, disputing the king's legal capacity, the 18th parliament in its zeal pasted an act, acknowledging the royal prerogative and the privilege of the crown over all citates, perfons, and causes; and this prerogative and privilege the three estates engaged to maintain with their lives, lands, and goods. Besides this, they provided a flanding guard for the fafety of the king's perlon.

The judicial power of the thate had acquired a ufeful improvement by the establishment of the college of justice in the preceding reign; but if the fenators could not act without question by individuals, justice held her icales in vain. Amid the wildness and irafcibility of those times, some of the judges had been thus questioned, and the parliament interpoled in behalf of justice, by declaring, that, whoever should challenge a fenator for his opinion, should be punished with death.

During the early ages of the Scottish nation, clanthip from blood had existed in every part of North Britain. Throughout the whole Scoto-Saxon period there existed, as we have feen, from conquest and from birth, a state of universal villenage, which disappeared in the 15th century. Amid the anarchy of sublequent times, there arose various clans, which were divided, according to the policy of those times, into clans of the borders and clans of the Highlands. From fuch a flate of fociety, and from the want of employment, we may account for the facility with which great bodies of men were then drawn together at the call of every petty chieftain. In some measure to counteract this facility of exciting disturbance and rebellion, the parliament of 1587 had passed an act, by which the chiefs of all the clans were obliged to give fecurity for their peaceable demeanour, and were made answerable for the enormitics committed by their adherents. By the union of the two crowns, however, the clans of the borders were mers's Cale- in a great measure dissolved, and the quiet of that part of the kingdom finally established \*.

The Scots had fo long confidered their monarchs as next heirs to the English throne, that they had full James's ac- leifure to reflect on all the consequences of their being the state of advanced to that dignity. But dazzled with the glory of giving a fovereign to their powerful enemy, relying on the partiality of their native prince, and in full expectation of tharing liberally in the wealth and honours which he would now be able to bestow, they attended little to the most obvious consequences of that great event, and rejoiced at his accession to the throne of England, as if it had been no lefs beneficial to the kingdom than honourable to the king. They foon had reason, however, to adopt very different sentiments, and from that period we may date a total alteration in the political conflitution of Scotland.

The feudal ariflocracy which had been subverted in most nations of Europe by the policy of their princes, or had been undermined by the progress of commerce, fill fubfifted with full force in Scotland. Many causes had contributed gradually to augment the power of the Scottish nobles; and even the Reformation which, in every other country where it prevailed, added to the authority of the monarch, had increased their

wealth and influence. A king possessed of a small re- Seet'ant. venue with a prerogative extremely limited, and unsupported by a tranding army, could not exercise much authority over fach potent tubjects. He was obliged to govern by expedients; and the laws derived their force not from his power to execute them, but from the voluntary fubmission of the nobles. But though this produced a species of government extremely sceble and irregular, though Scotland, under the name and with all the outward enfigns of a monarchy, was really subject to an ariflocracy, the people were not altogether unhappy, and even in this wild form of a conditution there were principles, which tended to their fecurity and advantage. The king, checked and overawed by the nobles, durit venture upon no act of arbitrary power. The nobles, jealous of the king, whose claims and pretentions were many, though his power was fmall, were afraid of irritating their dependants by unreasonable exactions, and tempered the rigour of ariftocratical tyranny with a mildness and equality to which it is naturally a stranger. As long as the military genius of the feudal government remained in vigour, the vaffals both of the crown and of the barons were generally not only free from oppression, but were courted by their superiors, whose power and importance were founded on their attachment and love.

But, by his accession to the throne of England, James acquired fuch an immenie accession of wealth, of power, and of iplendour, that the nobles, aftonished and intimidated, thought it vain to struggle for privileges which they were now unable to defend. Nor was it from fear alone that they submitted to the yoke. James, partial to his countrymen, and willing that they flould partake in his good fortune, loaded them with riches and honours; and the hope of his favour concurred with the dread of his power in taming their fierce and independent spirits. The will of the prince became the lupreme law in Scotland; and the nobles throve, with emulation, who should most implicitly obey commands which they had formerly been accustomed to contemn. Satisfied with having subjected the nobles to the crown, the king left them in full possession of their ancient jurifdiction over their own vaffals. The extensive rights, vefted in a feudal chief, became in their hands dreadful instruments of oppression; and the military ideas, on which these rights were founded, being gradually lott or difregarded, nothing remained to correct or to mitigate the rigour with which they were exercised. The nobles, exhausting their fortunes by the expence of frequent attendance upon the English court, and by attempts to imitate the manners and luxury of their more wealthy neighbours, multiplied exactions upon the prople, who durit hardly utter complaints, which they knew would never reach the ear of their fovereign, nor move him to grant any redrefs.

At their accession to the throne of England, the kings of Scotland, once the most limited, became, in an instant, the most absolute princes in Europe, and exercifed a despotic authority, which their parliaments were unable to controul, or their nobles to refift.

The church felt the effects of the absolute power which the king acquired by his accession; and its revolutions, too, are worthy of notice. James, during the latter years of his administration in Scotland, had revived the name and office of bishops. But they possessed

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Scotland, no ecclefiaftical jurifdiction or pre-eminence; their revenues were inconfiderable; and they were fearcely dittinguithed by any thing but by their feat in parliament, and by being the object of the clergy's jealouly and the people's hatred. The king, delighted with the fplendour and authority which the English bishops enjoyed, and eager to effect a union in the ecclefiatical policy which he had in vain attempted in the civil government of the two kingdoms, refolved to bring both churches to an exact conformity with each other. Three Scotfmen were confecrated bishops at London. From them their brethren were commanded to receive orders. Ceremonies unknown in Scotland were imposed; and, though the clergy, less obsequious than the nobles, boldly opposed the innovations, James, long practifed and well skilled in the arts of managing them, obtained

\* Robertfon's Scot-Scotuff antiquities.

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Druidical.

The monuments of antiquity belonging to North Britain may be confidered under three heads, as they belong to the Celtic period, the Roman period, or the Scoto-Irifb period, Of the first of these periods very few monuments now remain, and these are chiefly of the tumular kind; confifting either of circles of stones, the evident remains of druidical worthip, or of the remains of the hill forts, which appear to have been employed by the ancient Caledonians as places of defence. Of these hill forts there is a remarkable example at Barrowhill in Aberdeenshire, which is described and figured by Mr Chalmers +; and a fimilar fort appears

at length their compliance \*.

+ Calcdonia, vol. i. p. 90. SSI Roman.

to have existed at Barry-hill near Alyth in Perthshire. The remains of the Roman period in North Britain appear chiefly in the celebrated wall built in the reign of Antoninus Pius, between the friths of Forth and Clyde; in the ruins of which many curious inferiptions have been found. Another striking object of this epoch was a small edifice, vulgarly called Arthur's oven, which feems to have been regarded by fome antiquaries as a small temple, dedicated to the god Terminus; probably after the erection of the wall of Antoninus, for we are not to conceive that these walls were the absolute lines, beyond which the Romans possessed no territory; while, on the contrary, in the pacific intervals, the garrifons along the wall may have claimed the forage of the exterior fields; and the fiream of Carron, beyond which this chapel flood, may have been confidered as a necessary supply of water. The remains of the wall and forts, and other Roman antiquities in Scotland, particularly their camps and stations, many of which are remarkably entire, are ably illustrated in a publication of General Roy, and in the Caledonia of Mr Chalmers. General Roy, indeed, has too implicitly followed a common antiquarian error, in ascribing all these camps, stations, &c. to Agricola; while they may be more justly assigned to Lollius Urbicus, A. D. 140, or to the emperor Severus, A. D. 207, especially, indeed, to the latter; for the emperor's appearance in person to conduct two campaigns, probably as far as Inverness, must have occasioned the erection of works more eminent and durable than usual; the foldiers being excited by the animating controul of a military monarch. In the reign of Domitian, Bolanus, as we learn from Statius the poet, erected feveral works in Britain, probably in the north; so that it is idle to impute these remains to any one author: but, to a judicious eve, the claims of Lollius Urbicus and of Severus feem pre-

ferable. One of the most northerly Roman camps yet Scotland. discovered, is that near the fource of the river Vibau. Aberdeenshire; periphery about two English miles. A finaller station has also been observed at Oid Meldrum, a few miles to the fourh-east.

Four remarkable Roman stations are described and figured by Mr Chalmers; one on the north bank of the river Dee, near Peter-Culter in Aberdeenthire, occupying about eight Scotch acres \*; a lecond in Banff thire \* Caledoon the fouthern bank of the Spey, near its mouth + ; "ia, vol. i. a third on the eattern bank of the river Findhorn, near p. 125. Forres, which is believed to be the Varis of the Ro. + 1b p. 129. mans ; and a fourth, now called the Green Caffle, 1 lb p. 131. near Clattering Brig in Kincardine-shire, forming a fort whose internal area measures nearly 158 feet, by 262 16. D. 178.

Roman roads have been traced a confiderable way in the eatt of Scotland, as far as the county of Angus, affording some evidence of the existence of the province of Verpafiana; but the chief remains are within the wall. A hypocaust was also discovered near Perth, and another near Muffelburgh, so that there was probably some Roman station near the Scottish capital; but the name of Alaterva is a ridiculous error, arising from an inscription by some foreign cohort to obscure goddeffes of their own country, flyled Matres Alaterves. The fmaller remains of Roman antiquity found in Scotland, as coins, utenfils, &c. are numerous.

There remain few monuments of antiquity that can Scott-Irla. he referred to the earlier part of the Scoto-Irish period. These confist principally of stone pillars and obelisks of rude workmanship, and generally without inscriptions. There are, however, some remarkable sculptured monuments referable to this period, fuch as the upright flones that stand in a cultivated field near Cargil, and are carved with figures of the moon and ftars; a foulptured pillar near Forres, supposed to refer to the expulsion of the Danes in the reign of Malcolm II.; a hieroglyphical column which stands conspicuous on the moor of Rhyne in Aberdeenshire; some carved stones in the churchyard of Meigle, and perhaps the chapel of St Regulus at St Andrew's.

Among the antiquities of this period we must not omit to mention the remarkable terrace-hills, which are feen in many parts of Scotland (especially in Peeblesthire, as in the parith of Newlands). These hills appear to have ferved the purpole of amphitheatres, where the people witneffed the exhibition of plays and other public sports.

The monuments of antiquity that have been referred potath. to the Picts, are rather of doubtful authenticity. Thete round towers, composed of stones without cement, which have been called Picts houses, and are still found in the Orkney illands, and in some parts of the north of Scotland, are generally confidered as the remains of the nation whose name they bear, though Mr Chalmers will have them to be the remains of the old Celtic architec-

Many Danish monuments have been described by antiquaries as exitting in North Britain; but the characters of most of them are not fusiciently distinct to ascertain their Danish origin. One of the most certain Danish antiquities is found in the churchyard of Ruthwell in Dumfries shire., When this monument was entire, it appears to have been about 18 feet high, without its 5 D 2

Scotland pedeftal, and to have been fculptured on each of its four fides with foliage, birds, and marine animals, and inferibed with Runic letters. This curious pillar, which feems to be almost the only Runic remain in Scotland, was formerly held in such high veneration by the common people, that a decree of the general affembly of the kirk in 1644, ordained it to be thrown down as an object of idolatry.

Of the numerous remains of castles, cathedrals, and monasteries, which occur in almost every part of Scotland, our limits do not permit us to take particular notice. Many of them have been already described under the names of the places where they are found; and fuch of our readers as defire a more particular account of these interesting ruins, may confult the Beauties of Scotland, where their curiofity will be amply gra-

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In our tabular view of the counties of Scotland, we of Scotland, have noted the population of each county as it was afcertained in 1801, from which it appeared, that, in that year, the whole population of Scotland amounted to 1,604,826. From the best accounts which we can collect of the population of North Britain, at some preceding periods, there can be no doubt that the general population of the country is gradually increasing. Thus it appears, that, in the year 1755, there were in Scotland about 1,265,000 fouls; in 1791, 1,526,000; and in 1798, about 1,526,492 (A). Hence it appears, that, notwithstanding the emigrations which for many years took place to America, especially from the Highlands, the general population has rapidly increased within the

laft so years.

Political

tion.

The government of Scotland fince the union has been blended with that of England. The chief diffinction between the original conflitution of the two countries was, that Scotland had no house of commons, the parliament confifting of all descriptions, assembled in one hall. That enlightened prince James I. of Scotland, endeavoured to establish a house of commons in imitation of that of England, where he was educated; but the people most firmly and vigorously defended their ancient customs. The most splendid remaining feature of government in Scotland is the general affembly. Next to this may be classed the high courts of justice, especially that styled the Session, lately consisting of a president and fourteen senators. The Lords of Council and Seffion, as they are flyled in Scotland, upon their promotion to office, assume a title, generally from the name of an estate, by which they are known and addreffed, as if peers by creation, while they are only conilituted lords by superior interests or talents. This court is the last refort in civil causes, and the only appeal is to the British house of peers. The justiciary court, which is the criminal court of Scotland, confifts of five judges, who are likewise lords of session; but with a refident, styled the lord justice clerk, as he is under-

flood to represent the formerly great office of justice Scotland. general, an office which still continues, though it may be confidered rather as a post of honour and profit. This is the fupreme court in criminal causes, which are determined by the majority of a jury and not by their unanimity as in England. There is also a court of exchequer, confitting of a lord chief baron and four barons, who have the chief jurifdiction over the public revenue of Scotland; and a high court of admiralty, in which there is only one judge, who is the king's licutenant and justice general, on the high seas, and in all ports and harbours. From this court there is no appeal in maritime cates. The keepers of the great and privy feals, and the lord-register or keeper of the records, may also be mentioned under this head.

Befides the above national judges, there is in every county, a theriff, who acts as chief magistrate, and whole jurisdiction extends to fome criminal cases, and to all civil matters which are not by special law or custom ap-

propriated to other courts.

The recent changes which have been made in the court of fession, by dividing it into two houses, are well calculated to favour the dispatch of business, and to prevent that notorious delay which had become the difgrace of the Scottish court of judicature. At prefent the court of fession consists of two divisions, the first of which is composed of eight judges, having the lord-prefident at their head, while in the fecond there are feven judges whose president is the lord justice clerk (B).

Sir John Sinclair has stated the proportion of the pub- Public relic revenues furnished by North Britain to be as fol-venues, lows, in the year 1789. The produce of the Scotch customs, in the year ending January 5th 1789, was 250,8391.; from which was deducted for debentures, bounties, falaries, and incidents, 171,638. The average yearly amount of the money belonging to the exchequer is 72,500). The falt duties in the same year yielded 18,013l. from which was deducted for drawbacks, falaries, &c. 8,7491. The duties of excise for that year exceeded 422,0001.; the expence of management 83,9821. The flamp duties amounted to 73,8771.; the charges of managing and collecting were 8,0321. The whole revenue of Scotland for 1788 was 1,099,1481. The expenditure was as follows: expences of the crown 60,3421.; expenditure of the public 173,9211.; bounties, drawbacks, &cc. 127,629l.; public expences fettled by the union, and by fublequent acts of parliament, 64,8681.; cash remitted to the English exchequer 628,0811.; balance remaining for national purposes 44,3071. According to the fame authority, at least 17 of the revenue raifed by Great Britain is now drawn from Scotland, whereas, at the time of the union, the proportion furnished by North Britain was supposed not more than is of the whole \*.

To the above statement of Sir John Sinclair must be fair's Geoadded the income arising from the posts, which in 1801 graphy,

amounted vol. ii.

p. 558.

<sup>(</sup>A) This last number is taken from the returns published in Sir John Sinclair's account. According to the returns in the population act in 1801, Scotland, at that period, contained 294,553 inhabited houses, 9537 uninhabited houses, 364,079 families, 734,581 males, 864,487 females, making a total of 1,599,068 inhabitants; of whom 365,516 were chiefly employed in agriculture; 293,373 chiefly employed in trade, manufactures, and handicrafts, and 833,914 were not included in these two classes. (B) For an account of the first establishment of the College of Justice by James V. see No 473.

Scotland, amounted to 89,8171.; and the product of the income tax, which about the same time yielded 344,015l. and was paid by 20,537 persons of various professions, whose incomes were affelfed at 4,512,570l. Thus the whole

revenue of Scotland at the end of the 18th century, may be estimated at nearly one million and a half,

The great increase of the public revenues of Scotland fince the union, will appear from the following statement. In the year 1706, the income of the polt-office was not more than 1,1041; that arising from the excife, only 33,500l.; and that from the customs, only 34.000l.; making a total of 68,694l.: whereas in 1801, the income of the post amounted, as we have faid, to 80.8171; that from the excise to 833,0001; and that from the customs, to 578,000l.; making a total of 1,500,817l. Thus, the increase of these three sources of revenue above, in less than 100 years, amounted to + Chalmers' 1,432,1231. + Mr Chalmers estimates the whole re-

Caledonia, venue derived from Scotland at the union, at 160,000l. vol.i.p. 852 while in 1800, the fame author states it at 1,700,000l, Hence the increase on the whole Scottish revenue since the union, according to this statement, is 1.620,000l. It appears that the hereditary revenue of the crown

t Playfair's in Scotland was fo much diminished during the 18th Geography, century by lavish grants made by the crown, and a nevol. ii. glect in collecting what remained, as to amount in 1788

P. 558. to only 800l. i

prefenta-

liament.

Scotland is reprefented in the British parliament by Scottish re-16 peers, chosen by the whole body of the Scottish tion in par- peerage, and by 45 commoners, of whom 30 are elected by the counties, and the remaining 15 by as many districts of royal boroughs, one by each district. The following table will shew what royal boroughs belong to each district.

> Diffricts. Members.

I. Edinburgh city 2. Aberdeen, Aberbrothic, Bervie, Montrofe, and

3. Ayr, Irving, Inverary, Rothfay, and Campbel-

4. Anstruther Easter and Wester, Crail, Kilrenny,

5. Banff, Cullen, Kintore, Elgin and Inverury 6. Stirling, Culrofs, Inverkeithing, Dunfermline,

and Queensferry 7. Perth, Dundee, Forfar, St Andrew's, and Cupar

8. Glafgow, Renfrew, Rutherglen, and Dumbarton 1 q. Dumfries, Sangubar, Annan, Lochmaben, and

Kirkcudbright 10. Invernels, Fortrole, Nairn, and Forres

11. Kinghorn, Dyfart, Kirkcaldy, and Burntifland

12. Jedburgh, Haddington, Lauder, Dunbar, and North Berwick

13. Selkirk, Peebles, Lanark, and Linlithgow

14. Strauraer, Wigton, Whitehorn, and New Gal-

15. Kirkwall, Tain, Dingwall, Wick, and Dornoch. 1

The county members are elected by gentlemen posfeffed of landed property, or superiorities of lands valued in the cefs books of the county at 400l. Scots yearly rent, according to a valuation first introduced during the administration of Cromwell, and afterwards fanction- Scotland. ed by parliament.

The law of Scotland differs effentially from that of Laws. England, as the former is founded in a great measure on the civil law, while the latter depends chiefly on the flatutes or acts of parliament. The law of Scotland alfo confills partly of flatute law; but as many of its ancient statutes have never been enforced, the chief rule of practice arises from the decisions of the court of felfion, which are carefully preserved and published, and afford precedents that are generally deemed unexceptionable. The civil and canon laws may be faid to form the two great pillars of Scottish judicature, for of common law there is fcarcely a trace. The modes of procedure in Scotland are in general free from many of those legal fictions which difference the laws of some other countries, though it may be regarded as a fiction. that a debtor who refuses or neglects to pay, should be proclaimed a rebel to the king. The procedure in cases of debt is peculiarly mild in Scotland. No man can be fuddenly arrested as in England; but he is first put to the horn, as it is termed, after which a certain delay is granted before the caption or arrest takes place. For a particular account of the Scottish laws, see the article LAW.

The Presbyterian church government, which, fince Religion, the revolution in 1688, has formed the established religion in Scotland, is founded on an equality of authority among all its pastors or presbyters, and is modelled after the Calvinistic plan adopted at Geneva, and recommended to the Scotch reformers by the celebrated John Knox. This form of church government, therefore, excludes all pre-eminence of rank, as all the minifters are on an equal footing. The want of ceremony in the ordinances of the Scottish church is unpleasing to the eye of a stranger who has been brought up in the Catholic or Lutheran perfuasion. He will particularly be led to make a comparison between the form or rather mode of burial in Scotland and the burial fervice of England, very unfavourable to the former. He will contrast the hurried step, and indifferent if not noify behaviour of the bearers and attendants, and the unceremonious deposition of the body in the earth, according to the Scotch custom, with the flow and measured pace, the ferious demeanour and melancholy filence, the folemn and impreffive burial fervice, at an English funeral; and he cannot but give the preference to the latter, as being alone calculated to produce fentiments of awe and becoming thoughts of death and a fature state, both on the actors and spectators of the solemn scene.

The most ceremonious ordinance of the Scotch church is the administration of the sacrament. This takes place twice a-year, and the communicants are generally very numerous, though in most parishes they must have previously been examined by the minister, and received from him a token of their qualification. Before the facrament is administered, a solemn fast is held on the preceding Thursday, and the communicants attend divine worship in the forenoon, on the Saturday preceding and the Monday following the facrament Sunday.

The former aufterity of the Scottish clergy is considerably relaxed; but fome marks of the ancient Brickness of discipline still remain. In particular, the find of repentance, so commonly used in the age of fanati-

Scotland, cifm, is ftill occasionally brought forward, especially in the country churches, where a ruftic culprit is fometimes feen doing penance, and receiving public reproof for

fome flagrant act of incontinence.

Ecclefiaftitution.

The ecclefiaftical power is distributed among the jucal conflidicatories of the church in the following manner. Scotland is divided into 935 parishes, each of which has one or more ministers, who discharge the pastoral office according to their difcretion, and are accountable only to the prefbytery of which they are members. In matters relating to discipline, the ministers are affished by eiders, felected from among the most intelligent and regular of his parishioners; but these elders have no right to teach, or to difpense the facraments. Their proper office is to watch over the morals of the people, to question them as to their knowledge of the church catechism, and to vifit the fick. In attending to the interests of the poor, they also discharge the office of deacons, or church-wardens, and are commonly called ruling elders. The ruling elders and the minister of the parish form what is called the kirk fession, which is the lowest assembly of ecclefiaftical judicature in Scotland, The kirk-feffion distributes among the poor the alms which are collected at the church doors every Sunday, and it takes cognizance of petty offences against religion and good morals. Neither the kirk fession, nor any other ecclesiastical court, however, can impose any civil penalty, but must confine its punishments to private or public admonitions, or refusing to the offender admission to the facraments of the church. Next above the kirk fession is the prefbytery, composed of an indefinite number of ministers of contiguous parishes, with one ruling elder, elected halfyearly as the representative of each kirk-fession; so that a preflytery is composed of an equal number of minifters and elders. The prefbyteries take cognizance of all ecclefiaftical matters within their bounds; judge in cases of appeal from the kirk-sessions, and judge of the qualifications of candidates for admission to holy orders. Three or more adjacent prefbyteries form a fynod, of which there are 15. The fynod is a court of appeal from the prefbytery within its bounds, and has the power of confirming or reverfing the judgements of those inferior affemblies, an appeal lying from it to the general affembly. This is the great ecclefiaftical court of Scotland, and is composed of representatives from presbyteries, univerfities, and royal boroughs, in the following proportion. The prefbyteries fend 200 ministers, and 80 ruling elders; the royal boroughs 67 elders, and the univerfities five reprefentatives, who may be either ministers or elders. These representatives are elected annually, and the affembly itself meets once a year, and holds its fittings for about 10 days, after which it is disfolved by the moderator or the ecclefiastical prefident, and by the lord commissioner, who fits in it as the representative of the king. The general assembly judges in appeals from the fynods, and it can also enact laws which are binding on the whole church for one year. A permanent law can be made only in the following manner, It must be decreed by a majority of the general affembly, and be afterwards remitted to the confideration of

all the presbyteries. If a majority of these approve it. Scotland. and if it is also approved by the succeeding general affembly, it becomes a law, and can be repealed only in the form in which it was enacted (c). The numbers of presbyteries and parishes which compose each fynod. will appear from the following table :

-11		
Synods.	Prefb.	Parifhes.
1. Lothian and Tweedale	7	107
2. Merse and Tiviotdale	6	67
3. Dumfries	5	5.1
4. Galloway	3	37
5. Glafgow and Ayr	7	123
6. Perth and Stirling	5	
7. Fife		79 65 81
8. Forfar and Mearns	6	81
9. Aberdeen	9	103
10. Murray	7	5.3
11. Rofs	3	24
12. Sutherland and Caithness	3	23
13. Argyle	5	52
14. Glenelg	5	29
15. Orkney	4	38
	79	935
	79	935

The stipends or falaries of the ministers are paid by the proprietors of the lands within their parishes, called the heritors, and are fixed by the court of Seffion acting as a committee of the Scottish parliament. They are usually paid partly in money and partly in kind, and in general the latter is preferred by the minister.

There are in Scotland numerous differents from the Differents established perfuasion. Of these, some differ in nothing but their ideas of church-government, as those which are called the churches of Relief. These compose a fingle fynod, comprising fix presbyteries, viz. Edinburgh, Glafgow, St Ninian's, Dyfart, Perth and Dum-fries, and about 73 parifhes. Two of the principal fects of Scotch diffenters, or as they are called, Seceders, are the Burghers and Antiburghers, both independent of the established church, and differing from each other principally in this circumstance, that the Burghers admit the legality of the oaths taken by burgeffes in some of the royal boroughs, while the latter deny the legality of these oaths. The Burghers are the more numerous body, and comprise a fingle fynod, comprehending 10 preflyteries, viz. those of Edinburgh, Glasgow, Kilmarnock, Falkirk and Stirling, Dunfermline, Perth, Coldstream, Selkirk, Lanark, and Aberdeen. The Antiburgher fynods are three in number, viz. the fynod of Edinburgh, comprehending the prefbyteries of Edinburgh, Kelfo, and Dumfries; the fynod of Perth, comprehending the prefbyteries of Perth, Kirkcaldy and Forfar; and the fynod of Glafgow, containing the prefbyteries of Glafgow, Kilmarnock, Stirling, Elgin, and Aberdeen.

Befides these diffenters, there are in Scotland seven dioceses belonging to the Episcopalian church, viz. those of Edinburgh and Fife, Glasgow, Aberdeen, Moray, Rofs, Dunkeld, and Brechin, and the congregations

<sup>(</sup>c) The general affembly owes its inflitution to the parliament that met in 1560, by confent of Francis and Mary, to regulate the affairs of the nation and the church; and the first affembly was held in that year.

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Scotland, of this perfuasion are numerous and respectable. The Methodists and Anabaptists are also numerous, but the Quakers are few in number.

It is well known that there prevail in Scotland Language. two languages that are extremely different in their nature and origin, the Earle or Gaele, fpoken in the Highlands and in the Western Islands, and the Lowland Scotch, spoken in the remaining parts of the country. Of the Gaelic language we have already treated at fome length in the article PHILOLOGY, No 205, et feq. and shall here only give a specimen of that language in the

## Lord's prayer, contrasting it with the Norse language as formerly fooken in the Orkneys, and with the an-Lord's Prayer in Gaelic.

cient form of the Lowland Scotch.

A n'Athair ata air Neamh. Gu naamhaichear t-Tinm, Tigeadh do Rioghachd, Deanthar do Thoil air an Talamh mar a nithear air Neamh. Tabhair dhuinn an diu ar n-Aran laitheil. Agus maith dhuinn ar Fiacha amhuil mar mhaitmid d'ar luchd-fia chaibh. Agus na leig am buaireadh finn. Ach faor finn o ole. Amen.

## Lord's Prayer in the Orkney Norse Language.

Favor ir i chimre. Helleur ir i namthite. Gilla cofdum thite cumma. Veya thine mota vara gort o yurn finna gort i chimrie. Ga vus da on da dalight brow vora. Firgive vus finna vora fin vee forgive findara mutha vus. Lyve us ye i tuntation. Min delivi-ra vus fro olt ilt. Amen; or, on la meteth vera.

## Lord's Prayer in Old Scotch.

Uor fader quhilk beeft i Hevin. Hallowit weird thyne nam. Cum thyne kingrik. Be dune thyne wull as is i hevin fva po yerd. Uor deilie breid gif us thilk day. And forleit us nor fkaths, as we forleit tham guha ikath us. And leed us na intil temtation, Butan fre us fia evil. Amen-

By comparing the above specimens, it will be evident, that both the Norse of the Orkneys, and the old Lowland Scotch are effentially different from the Gaelic, but that the two former have fome dillant refemblance to each other, which may lead an etymologist, without any great firetch of fancy, to believe that they originated from the same source. It has indeed been very generally believed, and almost taken for granted, that the language spoken in the Lowlands of Scotland is merely a corrupt dialect of the Anglo-Saxon, and that it was introduced into Scotland from South Britain at no very early period. The learned author of Caledonia is decidedly of this opinion, and contends that, previous to the establishment of a Saxon monarch on the throne of Scotland in the person of Edgar, fon of Malcolm Canmore, no other language but Gaelie was Scotland. fpeken in North Britain, except in Lothian, which may be confidered as then an English fettlement. He further declares that the oldest document which he has met with in the Scottish language, is a contract with the magifirates of Edinburgh in 1387.

There can be no doubt of the affinity between the Lowland Scotch and the Anglo-Saxon. The only matter in dispute is, whether the latter was borrowed from the former, or was a dialect of the same Gothic language introduced into Scotland at an earlier period. One of the most threnuous, and perhaps successful advocates for the latter opinion is Dr John Jamieson, who in his elaborate work on the Scottish language has ably controverted the arguments of Mr Chalmers, and pleaded for the independent origin of the Scottish language. This is believed by Dr Jamieson to have been tooken by the Picts, and to have been brought by them from Scandinavia; for he is decidedly of opinion, in opposition to Mr Chalmers, that the Picls were not a remnant of the ancient Caledonians under a new name, but an independent Gothic tribe, who at a very early period established themselves in the north of Scotland (D).

There are two principal peculialities in the Scottifle language; the use of the quh at the beginning of words, where the English use the wh, and the change of the Anglo-Saxon th into d: both which peculiarities are evidently borrowed from the northern Gothic langua-

In their pronunciation of the vowels, the Scotch follow the method of the French, and other nations of the continent, though, as in England, this general custom is subject to many anomalies. Thus the a. which in man, and most other words, is pronounced broad, is, in Father, and a few other instances, pronounced open, Feyther.

Scottish literature cannot be traced to an early pe. Literature. riod. In the middle ages it confifted, like that of other countries, in little more than meagre chronicles, composed by ill-informed and credulous monks. Indeed, according to Mr Pinkerton, the country that produced Buchanan in the 16th century, could not in the 12th boast of a fingle native writer. It first began to dawn in the 13th century, when Scotland, filled with a barbarous Scandinavian colony, cannot be compared, in respect of literature, with the fouthern countries of England and Ireland; but with Scandinavia itself, with Holland and with the north of Germany, with Poland, Prussia, Russia, and Hungary. In all these countries literature is comparatively recent, and compared with them, Scotland will not be found deficient. It must not indeed be forgotten, that in the facred ground of Iona flourished several respectable Scoto-Irish writers, who were also classed among the apostles of religion in England, fuch as the biographers of Columba, Cum-nius and Adamnan, the latter the friend of the English hi-

(D) We have in the early part of this article, perhaps too hastily, adopted Mr Chalmers's opinion, that the Picts were not an independent race. The arguments which Mr Chalmers has adduced in support of this opinion, fo opposite to that of most antiquaries and historians, are ingenious and plausible; but as they are drawn chiefly from the names of places, rivers, &c. in North Britain, which are allowed on all hands to be generally Celtic, and are in direct opposition to the testimony of Bede, the carliest British historian, Dr Jamieson will not allow that they have the weight which at first fight they appear to merit.

Scotland, storian Bede, and among the Strathelyde Gaels, may be noticed St Patrick, the apolle of Ireland.

The earliest fragment of Scottish literature is the Chronicon Pictorum, supposed to have been written by some Irish priest, in the beginning of the 11th century. Of the 12th century there are some fragments in the regitter of St Andrew's, fome thort chronicles published by Father Innes; the chronicle of Melrofe, and that of Holyrood. Towards the conclusion of the 13th century, appeared fome writers of confiderable estimation, particularly Michael Scot, a philosopher, mathematician and physician, and also celebrated as an aftrologer and alchemyst, who published voluminous commentaries on the works of Ariftotle; Thomas Learmont of Ercildonn, commonly called Thomas the Rhymer, famous for his poetical compositions, and his skill in heraldry, who wrote a metrical romance called Sir Triftrem; and John Scott of Dunse, or Duns Scotus, a consummate metaphysician and voluminous writer. In the 14th century lived John of Fordoun, the author of Scoto-Chronicon, a historical work of confiderable merit, and John Barbour, archdeacon of Aberdeen, who wrote a poem on the actions of Robert I. which is no mean monument of the industry and talents of that age. King James I, who flourished in the beginning of the 15th century, may be ranked as the next Scottish writer of eminence. He was a learned and accomplished prince, and was the author of some excellent poems. James was followed by Holland and Harry the Rhymer. In the 16th century we may notice Elphingston, bishop of Aberdeen, who composed the Scoticorum Chronicum, and was diftinguished both for learning and piety; Dunbar, the chief of the ancient Scottish poets; Gavin Douglas, bishop of Dunkeld, who published an excellent poetical translation of Virgil's Eneid, and David Lindsay of the Mount. John Knox, the chief inftrument and promoter of the reformation; John Major and Hector Böethius, two historians of considerable note, also belonged to this century; and the admirable Crichton must not be forgotten, though the usual accounts that have been given of his accomplishments are strongly tinctured with fable and romance. At the latter end of the fame period flourished the classical Buchanan, an elegant historian and Latin poet, and John Leilie bishop of Ross, the author of many esteemed works, who was verfed in theology and philosophy, in the civil and canon law, and was besides an able statesman.

The learned Archbishop Spottiswood published a judicious ecclefiaftical hiftory of Scotland; and the natural history of this country was illustrated by Sir Andrew Balfour and Sir Robert Sibbald, two of its greatest ornaments. The discovery of logarithms in the beginning of the 17th century, is the indifpulable right of Napier of Merchifton; and fince his time, mathematical fcience has been cultivated in Scotland with fingular fuccels. The works of Keil, Gregory, Maclaurin, Simfon, Stewart, Robifon, &c. are univerfally read and admired. During the 18th century this country produced other eminent writers in various departments of science. Among the Scots divine and moral philosophers, we may particul rize Blair, Campbell, Hutcheson, Leechman, Macknight; among the flatefmen and lawyers, Sir George Mackenzie, Vifcount Stair, Sir Thomas Craig, Lord Kames; among the historians, Hume, Robertson, Henry, Lord Hailes, Ferguson; among the political

and moral writers, Reid, Lord Monboddo, Beattie; Scotland. among the physicians and furgeons, Bell, Black, Cullen, Gregory, William and John Hunter, Hutton, Mon-ro, Smellie, Whytt; and among the Scottish poets, Elair, Burns, Home, Ramsay, Thomson, Wilkie. The names now mentioned, besides Mansfield and Burnet, may be fufficient to show that Scotland has produced able writers in almost every useful branch of science. Among the few departments of literature in which Scottish writers have been less successful, may be mentioned biography, epic poetry, the critical illustra-tion of the classics, and comedy \*. Indeed the efforts \* See Pinof the dramatic muse have been singularly damped in kerton' Scotland from the fanatical prejudices of its clergy; but Geography, we trust that these illiberal prejudices have now subsid- Playfair's ed, and that the venerable author of Douglas will stand vol. ii. on record as the last example of ecclefiattical censure, on account of his devotion to the drama.

Within the last 20 years, the progress of Scottish literature has perhaps been greater than at any former period. During that interval, bookfellers thops have been established, where formerly there was scarcely a bookstall, and there are now few towns of any consideration that do not possess a printing-press. The increase of newspapers and periodical publications, especially in the capital of Scotland, is also very great, there being now published at Edinburgh not fewer than fix monthly and quarterly reviews and magazines, and at least eight

newspapers.

The progress of the arts in Scotland has of late scarce-State of ly fallen thort of that of the sciences. Skilful workmen the arts. in the mechanic arts, especially in those of joinery and cabinet-making, are numerous in the large towns; and even mufical inftruments of confiderable price and excellent workmanship, are constructed in Edinburgh. The liberal arts of painting and engraving have been carried to great perfection; and both these and the art of printing are now exercised in Edinburgh in a style little, if at all, inferior to that of the London artists. The numerous public and private buildings in Edinburgh and Glasgow, bear ample testimony to the abilities of Scottish architects, and show that they are by no means behind their brethren of the fouth in grandeur and beauty of defign, and elegance and folidity of execution.

The mode of education purfued in Scotland is highly Education. laudable; and is, perhaps, the best practical system purfued in any country in Europe. The plan which is followed in the cities, is nearly the fame with that in England, either by private teachers, or at large public schools, of which the high school of Edinburgh is the most eminent, and may be traced back to the 16th century. The superior advantage of the Scottish education confifts in every country parish possessing a schoolmafter as uniformly as a clergyman; at leaft, the rule is general, and the exceptions rare. The schoolmaster has a fmall falary, which enables him to educate the children at a rate easy and convenient, even to indigent parents. It may, indeed be computed, that a shilling will go as far in this parochial education, as a guinea in an English school. In the Highlands, the poor children attend to the flocks in fummer, and the school in winter. Till within these few years, the falaries of the Scotch parochial schoolmasters were so trifling as to hold out no adequate encouragement to young men of abilities to engage in that uleful office; but they have lately

Sentland. been augmented, and the establishment of a fund for the widows of schoolmatters in Scotland, has added to the

respectability of the situation.

A great majority of the Scottish youth are educated for the church, and from this class the families of the gentry are generally supplied with private tutors, and the schools and academies with masters. It has been observed by Mr Laing, that " the poverty of the church of Scotland is peculiarly unfavourable to the pursuit of letters; her universities make no provision for the independence and eafe of a studious life. The wealthy benefices of the English church may afford a final retreat, and its well endowed universities, an intermediate fanctuary for literary repole, where a tafte for classical and polite learning is cultivated and preferved. But the Scottish clergy, who are removed from the university early in life, to a remote folitude, have neither access to the works of the learned, nor the means, if they retain the defire, of improving the acquifitions which they have already made. No one is illiterate, but the church has not yet been distinguished by a man of extensive or profound erudition. Their education imparts fome fmattering of science; their trials of ordination, require an equal proportion of Greek and Hebrew; and the same parity is observable in the learning and in the discipline of the church \*."

There are in Scotland four universities, viz. those of St Andrews, Aberdeen, Glasgow, and Edinburgh; a particular account of which will be found under those articles. The university of Edinburgh, though of most Universities recent origin, is now in the highest estimation; from the numerous departments of science and literature there taught, and the general ability of its profesiors. The Scotch univerfities, unlike those of England, seldom confift of more than one college, and St Andrews may be confidered as the only proper exception to this observation, as the colleges of Aberdeen are in diffinct towns, viz. the one in Old, and the other in New Aberdeen. There are professors of medicine at all these universities, but only Edinburgh and Glasgow can be

regarded as medical schools.

We can here only enter on a few general observations respecting Scottish agriculture, as the state of husbandry in Scotland may be best seen from the general description given of the feveral counties, and from the article AGRICULTURE. In the lower districts particularly. agriculture has arrived at a great degree of perfection. In the counties of Berwick, East Lothian, Ayr, Lanark, Stirling, Perth, Angus, and Mearns, the face of the country has, in confequence of the improved cultivation, assumed a new appearance, being highly cultivated, and generally inclosed with thorn hedges, instead of the former inclosures of stone dykes. Rich crops of wheat, barley, clover and turnips, are now raifed on fields which some years ago afforded only feanty pasturage for sheep; and potato crops are now become general and excellent. Of the mountainous districts, black cattle and sheep are the staple commodities, and the rocky shores produce abundance of kelp. In a few years the deficiency of timber, fo much complained of by fouthern travellers, will be abundantly supplied, as many proprietors are now covering their waste lands with extensive forests. One nobleman, the earl of Moray, from 1767 to 1807, planted upwards of 13,000,000 of trees, of which 1,500,000 are oak. The VOL. XVIII. Part II.

value of land in Scotland is within these few years pro- Scotland. digiously increased, and an Englishman will scarcely believe, that in some parts of Scotland extensive farms are

let at 51. and even 61. per acre \*. As the valued rent of land is intimately connected fair's Geog.

with the progress of agricultural improvement, we p. 547. shall here give a table of the rental of the several Scotch counties, as it has been valued in Scotch money.

Counties.		Valued rent in	Scn	s Money.
Aberdeen -		L. 235,665	8	11
Argyle -		149 595	10	0
Ayr -		191,605	0	7
Banff -		79,200	0	ó
Berwick -	-	178,365	7	3 5
Bute and Arran		15,022	13	31
Caithness -		37,256	2	10
Clackmannan		26,482	10	10
Cromarty -		12,897	2	8
Dumbarton -		33,327	19	0
Dumfries -		158,627	10	0
Edinburgh		191,054	3	9
Elgin .		65,603	0	5
Fife -	-	362,534	7	5
Forfar -		171,636	ó	0
Haddington		168,878	5	10
Inverness -		73,188	9	0
Kincardine .		74,921	1	4
Kinrofs -		20,192	11	2
Kirkcudbright	_	114,571		3
Lanark -		162,118	16	11
Linlithgow -		74,931	19	0
Nairn -		15,163	ī	1
Orkney and Shetland		56,551	9	I
Peebles -		51,937	3	Io
Perth -	-	339,818	5	8
Renfrew -		68,076	15	2
Rofs -		75,140	10	
Roxburgh -		315,594	14	3
Selkirk -		80,307	15	6
Stirling -		108,518	8	9
Sutherland -		26.193	9	9
Wigton -		67,646	17	ó
-		77-4-		

Total, L.3,802,574 10 5 Scots. Or, Sterling, L.316,881 4

The inhabitants of North Britain can feareely be re-Manufacgarded as a commercial people before the end of the tures and eleventh century, when the accession of Edgar, by pla-commerce. cing a line of Saxon monarchs on the Scottish throne, introduced into Scotland that spirit of trade and commerce, which at an early period diftinguished the Saxon inhabitants of South Britain. It has indeed been pretended that the Scotch had a fishery at home, and a foreign traffick with the Dutch, as early as the beginning of the ninth century; but the former is improbable, fince the religious prejudices of the Gaelic people led them to regard fish as unhallowed food, and fithery as an unlawful occupation; and the latter affertion is at least incorrect, fince the Dutch did not exist as a commercial fociety at that early period. The chief feats of trade have, in all ages, and in every country, been the towns; but Celtic Scotland had neither towns nor cities, till the erection of cattles and monasteries, subsequent

Agricul-

# Laing's

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Scotland.

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Sectiond to the eleventh century, produced the formation of villages under their walls.

Their villages became towns, from the feetlements of the English, Anglo-Normans, and Flemings in them, during the 12th century; and from that time we may properly date the commencement of Scottish commerce.

At a period little anterior to this, the Scotch carried on feveral domettic manufactures. They manufactured their own flax into linen, and their hides into leather. They also wrought the wool of their flocks into coarse cloth: and thele woollen fabrics were regulated by a particular offize during the reign of David I. Necessity had early in roduced fmiths, tanners, and shoemakers, into every village, and dyers, gold/miths, and armourers into every town. Salt works became an object of attention in the reign of David I, because they furnithed a revenue to the kings and nobles, and profit to the monks. In the fame reign, water-mills were subject to tithes, and tenants were obliged to grind at particular mills. The Scottiff kings had mills at each of their burghs, and on fevera, of their manors; and from thefe mills they derived a confiderable revenue, and a conflant source of munificent grants to the religious establishments. Before the middle of the thirteenth century, wind-mills had been univerfally introduced, and there was a malt-kiln and a brew-house in every village. These objects were confidered as domestic manufactures, arifing from hufbandry, which was at that time the universal pursuit among all ranks, from the prince to the peafant.

It is curious to observe, that Scone was not only the metropolis of Scotland at the beginning of the Scoto-Saxon period, but also one of the earliest places of toreign commerce. Perth had also a foreign traffick in thole early times, and St Andrew's partcok of the riches which flow from diffant trade. Next to these, in the advantages refulting from a commercial intercourse with foreign nations, followed Stirling, Inveresk, Dunfermline and Aberdeen.

The erection of certain towns into royal burghs, though founded on the principles of exclusion and monopoly, tended to advance the general interests of trade. Each of these burghs had particular districts through which their privileges extended, and to which they were confined. Towards the conclusion of the Scoto-Saxon period, the Flemings had placed a commercial factory at Berwick, and before the death of Alexander III. a trade had been opened with Gascony, for the importation of

wine and corn.

The first great traders in Scotland feem to have been the heads of monatteries, as they alone possessed at once the spirit of commercial enterprise, and a sufficient capital to engage in promising speculations. To them belonged the principal ships; they had at first the exclufive privilege of filling, and they were the chief

bankers of thole times.

After the numerous conflicts and revolutions which disturbed the peace of Scotland, previous to its union with England, its manufactures were not probably in a much better state of improvement at that epoch, than they had been at the death of Alexander III. They had been fometimes encouraged, but they feem never to have advanced beyond the domestic supply. Of course the commerce of North Britain could never have been very extensive, and its exports must have been confined

chiefly to corn, and the raw products of the country. Sotland Since the union, the industry and manufactures of Scotland have been affiduously cultivated, and the attempts at improvement in the national commerce have, in the tedious refult, proved fucceisful beyond expectation. The establishment of the Royal Bank, and of the fociety for the improvement of agriculture in the reign of George I, and the libblequent ettablishment of a board of mutices for improving the manufactures, trade, and fisheries of North Britain, have been the means of adding greatly to the riches and profperity of the coun-

Since the union, this country has flured in the na-led nia, tional prosperity. Towards the middle of last century, vol. i. manufactures began to flourish, and trade increased in due proportion. Without troubling the reader with a detail on this fubject, it may be fufficient to oblerve that about 20 years ago, manufactures in many towns were carried on to a great extent. Cotton cloths alone emplayed in Glafgow, and its neighbourhood, 15,000 looms and 135,000 perfens. Queen's were, and the inkle manufacture, were likewife important branches in that city. In and near Pailley, upwards of 10,000 perfons of all descriptions, were employed in the manufacture of filk gauze, and 1 2,000 in working lawns, muslins, and cambries; besides other trades, which were very productive. Common and sint-glass to a great amount is prepared in Dumbarton, Leith, and other parts of the country. Diapers are wrought in Danferraline to the value of 50,000l. or 60,000l. a year. Checks and ticks are flaple commodities in Kirkaldy, Coarfe linen, fail cloth, ofnaburgs, &c. are manufactured in Dundee, Arbroath, Aberdeen, and Forfar. Paper mills, delft houses, and fugar-houses have been erented in feveral towns and villages. Extensive iron works are established in Fife, on the Clyde, and at Carron; in the last of which more than 1000 workmen are occafionally employed. The whale, herring, and falmonfifheries are inexhaustible fources of weal h. The coal trade is well known, and extremely productive. Here it may not be improper to flate that the limits of the coal country on the west coast, are Saltcoats and Girvan; on the east coast, North Berwick and Fifeness; firetching from fouth-west to north-cast in breadth, about 30 or 40 miles. Beyond these limits, no coal strata have hitherto been found. The exportation of black cattle to England has been highly advantageous to this country. The coasing trade to the fouth is carried on from Leith and other eatlern ports, while Glasgow is the great emporium with the West In-

Some interesting details are furnished by Mr Chal-fair's Geog mers, respecting the progressive improvement of the vol. ii. manufactures and commerce of Scotland, fince the union; and the principal of these we shall here lay before our readers.

In 1707, the furplus linen over the confumption made in North Britain was estimated at 1,500,000 yards.

In 1727, it was estimated to 2,000,000 yards.

In 1754, it amounted to 8,914,369 yards.

In 1764, it 1nd rifen to 12,823,048. In 1772, the furplus value of the linen manufacture

amounted to 13,089,006.

In 1782, the fame furplus amounted to 15,348,744. In 1792, it amounted to 22,065,386, and thus it was gradually

Sot'and, gradually extended to above 24,000,000 yards, till the introduction of the cotton manufactories rendered that of linen of lefs importance, and confequently diminished the quantity made for exportation.

The whole quantity of corn exported from Scotland at the union has been ellimated at 22,937 quarters.

The quantity exported in 1749 was 105,573 quarter. From that period, owing partly to bad featons and partly to increased confimption, the export of corn from one part of the country has generally been equalled by its import into others.

The importation of cotton wool into Scotland during the year 1755 amounted to 105,851 pounds.

The importation of the same article in 1789 amounted

Its importation during 1803 was estmated at 8,620,006 wounds.

The value of cargoes exported from North Britain in 1 754 was 670,000 l.

Their value in 1761 was 1,211,000 l. in 1774 1,372,1431. in 1792 1,230.8841.

in 1802 2,602,8581. The thinping employed in the foreign trade of North Britain during the year 1763 amounted to 33,352

In 1782, it amounted to 50,530 tons.

In 1702, it had rifen to 84,027 tons.

And in 1802, it was not less than 94,276 tens.

The whole number of thips belonging to Scotland at the union has been estimated at 215, carrying 14:485

The whole number of Scottish ships in 1805 was at least 2581, and their whole tonnage was ellimated

at 210,295 tons. It was estimated, that in 1792 the whole number of men, women, and children, occupied chiefly in the woollen, cotton, and linen manufactories, in the four counties of

Lanark, Renfrew, Ayr, a d Danbarton, amounted to at least 90,000, who earned daily 6850l. or yearly 2,137,2001. fterling.

The union with England was not for many years productive of those advantages which were at first expected from it. A feeble attempt to obtain a share in the colonial trade was defeated by new regulations, which the commercial jealouty of the English merchants procured. The migration of flock and trade to the north was a vifionary expectation. No new manufactures were attracted to Scotland by the cheapnels of labour; no improvement was introduced into agriculture; on the contrary, commerce was still languid, and the price and rents of estates inconsiderable. Every national exertion was discountenanced; and, during the interval between the two rebellions, the country was alternately difregarded, or treated like a conquered province prone to revolt. The nation, notwithstanding the gradual increase of its linen manufacture, appeared to he nearly stationary, and was certainly far less progressive for half a century than if no union had ever been con-

When the contests of domestic faction had ceased, the turbulent fanaticism which distinguished the Scotch during the former century was loft in the pursuits of industry, of literature, and of the arts of peace. Some

attempts had been made before the last rebellion to in- So Ale troduce a better cultivation into the Lothians, which has fince extended through the west and the north to the richest provinces beyond the Tay. The gentry, among other efforts to promote manufactures, had begun to breed their fons to mechanical arts, in order to retain them at home. By the abrogation and fale of hereditary jurildictions, the poverty of the nobles was relieved, and the people were emancipated from their oppreffive coercion. The country was gradually enriched by the troops retained to prevent infurrection; and from the advanced price and confumption of cattle in the English market, the farmers accumulated that first

But the beneficial effects of the union were peculiarly referved for the prefent reign. The progress of industry and trade was immenfe; new manufactures, particularly of filk, were introduced with fuccels. The Sco's emploved in the feven years war returned from abroad with the means or spirit to improve their estates; and the rapid cultivation of the country has redoubled the produce and the value of the fail. Before the commencement of the American war, the merchants of Glaigow had engroffed the chief trade in tobacco for exportation. The interruption of trade during that difastrous war directed their capital and the national industry to the improvement of domestic arts. And from the perfection of modern machinery, the cotton manufacture, a recent ac- " Laing's quifition, in all its branches fo prodigiously increased, H.f. v. already rivals and supplants the productions of the an-Scotland, cient looms of Indestan \*.

Connected with the commerce of Sootland are its Const. coins, weights, and measures. Since the union, the coins eights, are the same both in England and Scotland; but the and mea-Scotch money of account is still occasionally employed, in es-The pound Scots is equal to I fhilling and 8 pence English. See Coin. The Scotch weights and measures still differ from those of England. Their proportions and value according to the English Randard are ex-

plained under WEIGHT and MEASURE. Another subject connected with commerce is the in- salar d naland navigation. The canals of Scotland are the Forth vigation. and Clyde, the Crinan (fee CANAL), the Mo kland tunning 12 miles east from Glafgow, the Caledonian, and the Ardroffan, the two latter vet unfinished.

"The Scotch (fays Dr Playfair) are commonly divi- are es ded into two classes, viz. the Highlanders and Lo wland a deuters; the former occupying the northern and mountainous our. provinces, the latter the fouthern diffricts. These classes differ from each other in language, manners, and drefs. The Highlanders use the Irish or Celtic tongue; while, in the low country, the language is the ancient Scandinavian dialect blended with the Anglo-Savon.

" About half a century ago, the Highlands of Scotland were in a flate fomewhat fimilar to that of Eugland before the Norman conquest. The inhabitants were divided into tribes called clant. The inferior orders were vallals of particular chiefs, to whom they were attached, and on whom they relied for that fafety which the laws were not alone able to enfure to them. On the other hand, the fecurity and confequence of a chieftain depended on the number and fidelity of his fervants and retainers; who, on account of their relation to him, affumed a dignity, and acquired in their manners a deScotland. gree of politeness, to which other uncivilized nations

"The rents of farms which those vasilas occupied were inconsiderable, and paid chiefly in military lerice; fo that the value of a proprietor's land was estimated, not by the men whom it could fend into the field; and that the number of dependents might be increased, the farms, or allorents of land, were finall, and barely fossilient or a season of the country was cultivated, and as no intercourse fabsfished between the inhabitants and other nation, little time was employed in agriculture and commerce. Most of it was wasted in indolence or anustement, unless when their superior summoned them to avenge, on some neighbouring tribe, an infult or injury. No more grain was raised, and no more vaiment manufactured by any family, than who barely sufficied itself.

" Villages and hamlets, fituated in valleys for shelter, were rudely confiructed of turf and stone. In spring the natives ploughed, or dug, fome adjacent patches of foil, in which barley or oats were fown; in fummer they prepared and collected turf and peat for fuel; in autumn they gathered in their feanty crops of grain and hay; and the remainder of the year was devoted to pastime, or predatory excursions. In winter evenings, around a common fire, the youth of both fexes generally affembled, for the fong, the tale, and the dance. A tafte for music was prevalent among them. Their vocal strains were plaintive and melancholy; their instrumental airs were either lively for the dance, or martial for the battle. Every family of note retained an historian, to narrate its heroic deeds and feats of valour, or a bard who fung the praises of the chieftain and his clan. Some fragments of their poetry have been handed down from remote ages, and recently moulded into heroic poems. Strangers, who have ventured to penetrate into their fastnesses, they received and treated in the most hospitable manner; but themselves seldom went abroad, except for the purposes of devastation or plunder.

"Their dress was the last remain of the Roman habit in Europe, well fuited to the nature of the country and the neceffities of war. It confilled of a light woollen jacket, a loofe garment that covered the thigh, and a bonnet that was the usual covering for the head all over Europe, till the hat was introduced towards the

end of the 16th century.

"Always armed with a dirk and piftols, they were ready to refift an affault, or revenge a provocation, as foon as it was given. This circumitance contributed to render them polite and guarded in their behaviour to one another. When embodied by their chieftain, they were armed with a broad fword, a dagger, a target, a musket, and two piftols. In close engagement, and in broken ranks, they were irreflitible. The only foe they dreaded was cavalry. As foon as the battle was over, most of the troops differfed, and returned home to diffose of their plunder, and to provide for their families.

"Their religion was deeply inclured with fuperflition. They believed in gholts and appartions; by appearances in the heavens they predicted future events; they practifed charms and incanations for the cure of various diffeafes; and to forme individuals they thought

the divinity had communicated a portion of his presci- Scotland.

" But the flate of fociety in the Highlands has been greatly changed and ameliorated fince the rebellions in 1715 and 1745. The Roman drefs and the use of arms were prohibited by government; roads, confirmeded at vall expence, opened an easy communication with the low country; and the courts of barons were suppressed by the jurisdiction act. The heads of clans have now ceased to be petty monarchs, and the services of their vaffals are no longer requifite for their defence or aggrandifment. Divested of their legal authority, they now endeavour to preferve their influence by wealth. With this view their attention is directed to the improvement of their estates. Their ancient mode of living is also entirely altered; and the Highland gentleman, in every respect, differs little from a proprietor of the like fortune in the fouthern counties. A spirit of industry has been excited among the tenants, while in many places arts and manufactures are encouraged.

"The manners, habits, and drefs, of the gentlemen in the low countries, refemble thole of their English neighbours, with whom they have frequent intercourse. The peasantry and middle class are sober, industrious, and good economists; hospitable and discreet, intelligent, brave, steady, humane, and benevolent. Their fadelity to one another is a striking feature in their character. In their mode of living and drefs there are some peculiarities, but these are gradually wearing out. Within these sew years the use of pottage, and bread of \* Playoutment, is almost dissided among the commonalty; and fair's Goest, tea, wheaten bread, and animal food, are as frequent vol. ii. on the north as on the south of the Tweed \*," P 54.

Though the diet of the superior classes in Scotland Diet. differs little from that of the fame rank in England. there are ftill fome peculiarities not generally known to ftrangers, which deferve notice. Among the peculiar Scotch diffies we may enumerate the haggies, a fort of hash, made of the lungs, heart, and liver, of a sheep, minced fine, and mixed with fuet, oatmeal, onions, pepper, and falt, and boiled in the sheep's maw or stomach; hotchpotch, a foup, prepared from mutton or lamb, cut into fmall pieces, with a large quantity of green peafe, carrots, turnips, onions, and fometimes celery or parsley, served up to table with the meat and vegetables in the foup; cockie-leekie, a foup made of a cock or capon, with a large quantity of leeks; crappit-heads, i. e. the heads of haddocks stuffed with a pudding made of the foft roe, or butter, oatmeal, onions, and spices, and boiled; fifb and fauce, a fort of stew. made of haddocks, whitings, or codlings, stewed with parfley, onions, butter, and spices; and the celebrated old dith of finged (beep's-head, i. e. a sheep's-head, with the skin on, and the wool finged off with a hot iron, well boiled with carrots, turnips, onions, &c. fo as to form a rich broth, which is generally ferved up diffinct from the meat.

On the fubject of the Scottish diet the following livebranks of an intelligent French naturalist may prove acceptable to our readers. Their remarks refer particularly to the higher ranks in the Western isles; but they will, with fome limitation, apply to the same cals in the greater part of Scotland. "The English ent verylittle bread; the Scots eat more; there were three diffferent kinds used at Mr M-Lean's table.

" The

Scotland. "The first, which may be regarded as a luxury for the country, is fea-biscuit, which vessels from Glasgow sometimes leave in passing.

"The fecond is made of oatmeal, formed into an unleavesed dough, and then fpread with a rolling pin into round cakes, about a foot in diameter, and the twelfth part of an inch thick. Thefe cakes are baked, or raher dried, on a thin plate of iron, which is fulprended over the fire. This is the principal bread of fuch as are in eafy circumilances.

"The third kind, which is specially appropriated to tea and breakfast, in the optient families of the illes, consists of barley-cakes, without leaven, and prepared in the same manuer as the preceding, but so thin, that, after spreading them over with butter, they are easily doubled into several folds, which render them very agreeable to those who are fond of this kind of dainties.

"At ten in the morning the bell announces that breakiaft is on the table. All repair to the parlour, where they find a fire of peat, mixed with pit-coal, and a table elegantly ferved up, and covered with the follow-

ing articles:

"Plates of Imoaked beef; cheefe of the country, and English cheefe, in trays of mahogany; fresh eggs; falted herrings; butter; nilk and cream; a fort of bouillie of oatmeal and water (porritch). In eating this bouilie, each spoonful is plunged into a basion of cream, which is always beside it. Milk worked up with the yolks of eggs, sigar, and rum. This fingular mixture is drank cold, and without being prepared by fire. Currant jelly; conserve of bilberries, a wild fruit that grows among the heath; tea; cosse; the three forts of bread above mentioned, and Jamaica rum.

"Such is the flyle in which Mr M'Lean's breakfasttable was served up every morning while we were at bis house. There was always the same abundance, with no other difference, in general, than in the greater

or less variety of the dishes (E).

"Dinner is put on the table at four o'clock. It confifts, in general, of the following particulars, which I

correctly noted in my journal.

"I A large dift of Scotch foup, composed of broth of beef, mutton, and sometimes sowl, mixed with a little oatmeal, onions, parsley, and a considerable quantity of pease. Instead of slices of bread, as in France, small sites of mutton, and the giblets of fowls, are thrown into this soup. 2. Pudding of bullock's blood and barley-meal, seasoned with plenty of pepper and ginger. 2. Excellent beef steaks, broiled. 4. Roasted mutton

of the best quality. 5. Potatoes, done in the juice of Scotland.
the mutton. 6. Sometimes heathcocks, woodcocks,
7. Occumbers and ginger, pickled
with vinegar. 8. Milk, prepared in a variety of ways.
9. Cream and Madeira wine. 10. Pudding made of
barley-meal, cream, and currants, done up with suet.

" All these various dishes appear on the table at the same time, the mistress of the house presides, and serves

all around.

" In a very floot time the toalfs commence; it is the bufinefs of the militefs to begin the ceremony. A large glafs, filled with port-wine, is put into her hand; file drinks to the health of all the company, and paffes it to one of the persons who sit next to her; and it thus proceeds from one to another round the whole table.

"The fideboard is furnished with three large glasses of a similar kind, of which one is appropriated to beer, another to wine, and the third to water, when it is called for in its unmixed state, which is not often. These glasses are common to all at table: they are never mined, but merely wiped with a fine towel after each person drinks.

"The deflert, from the want of fruit, confifts for the most part only of two forts of cheefe, that of Cheshire,

and what is made in the country itself.

"The cloth is removed after the deffert; and a table of well-polithed mahogany appears in all its lutter. It is soon covered with elegant glufs decanters of British manufacture, containing port, cherry, and Madeira wines, and, with capacious bowls, filled with punch. Small glasses are then profusely distributed to every one.

" In England the ladies leave table foon after the toafts begin. The cuftom is not precifely the same here, they remain at least half an hour after, and justly partake in the festivity of a scene, in which formality being laid afide, Scottish frankness and kindness have full room to display themselves. It is certain that the men are benefited by this intercourse, and the ladies are nothing the losers by it. The ladies then left us for a little to prepare the tea. They returned in about half an hour after, and the fervants followed them with coffee, small tarts, butter, milk, and tea. Mufic, conversation, reading the news, though a little old by the time they reach this, and walking when the weather permits, fill up the remainder of the evening; and thus the time paffes quickly away. But it is somewhat unpleasant to be obliged to take one's feat at table again about ten o'clock, and remain until midnight over a supper nearly of the s Sec fame fare as the dinner, and in no less abundance \*."

The public amulements in Scotland nearly refemble fond? Tranthole of England, effecially among the higher classes. acts we in

There p. 67.

(E) The abundance provided at a Scotch breakfalt has been remarked by many travellers. Of these Know, who travelled more upon the main land than in the idands, gives the following particulars of the breakfalts of the more wealthy families:—

<sup>&</sup>quot;A dram of whifky, gin, rum, or brandy, plain or infused with berries that grow among the heath, French roles, and and batch bread, tea and coffee, honey in the comb, red and black current jellies, marmalade, conferves, and excellent cream, fine flavoured butter fresh and salted, Cheshire and Highland cheeche, the last very indifferent; a plateful of very fresh eggs, fresh and salted herrings, broiled ditto, haddocks and whitings, the skin being taken off; cold round of venion; beef and mututen hams. Besides these articles, which are commonly placed on the table at once, there are generally cold beef and moorfowl to those who choose to call for them. After breakfast the men muse themselves with the gun, fishing, or failing, till the evening, when they done, which measures the forest plained for two with from fainlists for supress.

594 A mule.

Scotland There are, however, two games which may be confidered as peculiar to the Scotch. These are golf and curling. Of the former we have given an account under the article Golf. The diversion of curling, which is we believe unknown in England, is adapted only to frosty weather, and is played on the ice, by fliding from one mark to another large itones, of from forty to feventy pounds weight, of a hemispherical shape, very fmooth on the flat fide, and furnished with an iron or wooden handle at top. The great object of the player is to lay his stone as near to the mark as possible, to guard that of his partner which had before been placed in a good position, or to strike off that of his antagonist. To attain these ends much skill and dexterity are often required; and the great art of the game is to make the stones bend in towards the mark, when this is so blocked up by other flones that they cannot reach it by being directed in a straight line.

To conclude: The union having incorporated the two nations of England and Scotland, and rendered them one people, the diffinctions that had subfifted for many ages are gradually wearing away. Peculiarities disappear; similar manners prevail in both parts of the island; the same authors are read and admired; the fame entertainments are frequented by the elegant and polite; and the same standard of taste and of language is established throughout the British empire.

New SCOTLAND. See NOVA SCOTIA.

SCOTO IRISH, in History, an epithet applied, by fome writers on Scottish antiquities, to the colony of Irish, commonly called Dalriads or Dalriadinians, who, in the beginning of the fixth century, established themfelves in the district of Galloway; and formed a distinct tribe, till, under the reign of their king Kenneth II. they united with the Picts, whom they had nearly fubdued. See Chalmers's Caledonia, vol. i. and Scor-LAND, from no 31. to no 85.

Scoto Saxon period, is by Mr Chalmers applied to that period of Scottish history which elapsed from the accession of Edgar, the fon of Malcolm Canmore, to the throne of Scotland in the year 1297, to the reign of Robert Bruce in 1306. See SCOTLAND from nº 86.

SCOTOMIA, in Medicine, a vertigo, accompanied with dimness of fight, frequently the forerunner of an

SCOTT, JOHN, an eminent English divine, was born in 1638, and became minister of St Thomas's in Southwark. In 1684 he was collated to a prebend in the cathedral of St Paul's. Dr Hickes tells us, that, after the revolution, " he first refused the bishopric of Chefter, because he would not take the oath of homage; and afterwards another bithopric, the deanery of Worcester, and a prebend of the church of Windfor, because they were all places of deprived men." He publified feveral excellent works, particularly The Christian Life, &c. and died in 1695. He was eminent for his humanity, affability, fincerity, and readin is to do good; and his talent for preaching was extr ordinary

SCOTUS. Duns. See Duns. Scotus. J.hn See ERIGENA.

SCOUGAL, HENRY, fecond fon of Patrick Scougal, bithop of Aberdeen, was born, June 1650, at Salton in East Lothian, where his father, the immediate pre-

decessor of Bithop Burnet, was rector. His father, Scougal, defigning him for the facred ministry, watched over his infant mind with peculiar care; nor was his care beflowed in vain. He had foon the fatisfaction of perceiving the most amiable dispositions unfold themselves. and his understanding rife at once into the vigous of manhood. Relinquishing the amusements of youth, vonne Scougal applied to his studies with ardour; and agreeable to his father's with, at an early period he directed his thoughts to facred literature. He peruled the historical parts of the bible with peculiar pleasure. and then began to examine its contents with the eye of a philosopher. He was flruck with the peculiarities of the Jewith difpensation, and felt an anxiety to underfland the reason why its rites and ceremonies were abolished. The nature and evidences of the Christian religion also occupied his mind. He perused fermons with pleafure, committing to writing those passages which most affected him, and could comprehend and remember their whole scope. Nor was he inattentive to polite literature. He read the Roman classics, and made confiderable proficiency in the Greek, in the Hebrew, and other oriental languages. He was also well well verfed in history and mathematics. His diversions were of a manly kind. After becoming acquainted with the Roman hillory, in concert with fome of his companions he formed a little fenate where orations of their own composition were delivered.

At the age of fifteen he entered the university, where he behaved with great modesty, sobriety, and diligence. He difliked the philosophy then taught, and applied himself to the fludy of natural philosophy; that philosophy which has now happily gut fuch footing in the world, and tends to enlarge the faculties. In confequence of this, we may here observe, that when he was yet about eighteen years of age, he wrote the reflections and thort effays fince published; which, though written in his youth, and some of them left unfinished. breathe forth fo much devotion, and fuch an exalted foul, as must convince us his conversation was in hea-

In all the public meetings of the students he was unanimously chosen president, and had a singular deference paid to his judgement. No fooner had he finished his courses, than he was promoted to a professorship in the university of Aberdeen, where he conscientionsly performed his duty in training up the youth under his care in fuch principles of learning and virtue as might render them ornaments to church and state. When any divisions and animofities happened in the fociety, he was very inftrumental in reconciling and bringing them to a good understanding. He maintained his authority among the students in such a way as to keep them in awe, and at the same time to gain their love and effeem. Sunday evenings were fpent with his scholars in discourfing against vice and impiety of all kinds, and encouraging religion in principle and practice. He allotted a confiderable part of his yearly income for the poor; and many indigent families, of different perfuafions, were relieved in their firnits by his bounty; though fo fecretly that they knew not whence their supply came.

Having been a professor of philosophy for four years, he was at the age of twenty-three ordained a minister, and fettled at Auchterless, a finall village about twenty miles from Aberdeen. Here his zeal and ability for his

Scribe.

Scouga', great Master's scrvice were eminently displayed. He catechifed with great plainness and affection, and used the most endearing methods to recommend religion to his hearers. He endeavoured to bring them to a close attendance to public worthip, and joined with them himself at the beginning of it. He revived the use of lectures, looking on it as very editying to comment upon and expound large portions of S ripture. And though he endured feveral outward inconveniencies, yet he bore them with patience and meekness. But as God had defigued him for an eminent flation, where he could be of more universal use in his church, he was removed from his private charge to that of training up youth for the holy ministry and the care of fouls. In the twenty fifth year of his age he was admitted professor of divinity in the king's college, Aberdeen; and though he was unanimonfly cholen, yet he declined a flation of fuch importance, from a modell fense of his unfitnels for it: And as he had been an ornament to his other stations of life, fo in a particular manner he applied himfelf to the exercise of this citice. After he had guarded his fiudents against the common artifices of the Romith miffionaries in making profelytes, he proposed two subjects for public exercises; the one, of the partoral care; the other, of casuiftical divinity: but there were no debates he was more cautious to meddle with than the decrees of God; fenfible that fecret things belong to God, and to us things revealed.

The inward dispositions of this excellent man are best feen in his writings; and the whole of his outward behaviour and conversation was the constant practice of what he preached; as we are affored by the concurring tellimony of feveral respectable persons who knew him. How unfuitable then would panegyric be, where the fubject was full of humility? and therefore let it fuffice to fay, that after he began to appear publicly, you fee him as a professor, earnest at once to improve his scholars in human and facred learning; as a pastor, he ceased not to preach the word, to exhort, to reprove, and to rebuke with all authority : and as a professor of divinity, he bestowed the utmost pains to convince the candidates for the ministry, of the weight and importance of that high office; that it was not to be followed for lucre, but purely to promote the worthip of God and the falvation of men. Again, if we confider his private life, how meek, how charitable, and how felf-denied! how difinterested in all things, how refigned to the divine will! and above all, how refined his fentiments with regard to the love of God! How amiable must be then appear! How worthy of imitation, and of the universal regret at his death! In this light we fee clearly that the memory of the just is bleffed.

At length his health began to be impaired by inceffant study, and about the twenty-feventh year of his age he fell into a confumption, which wasted him by flow degrees. But during the whole time of his fickness he behaved with the utmost refignation, nor did he ever flow the least impatience.

When his friends came to visit him, he would fay, "he had reason to bless God it was no worse with him than it was. And (fays he) when you have the charity to remember me in your prayers, do not think me a better man than I am; but look on me, as indeed I am, a miferable finner." Upon the twentieth day of June 1678 he died, in the greatest calmness, in the twenty-eighth year of his age, and was buried in the Scougal King's College church in Old Aberdeen. The principal work of Scougal is a finall treatife intitled, The Life of God in the Soul of Man. This book is not only valuable for the fublime spirit of piety which it breathes, but for the purity and elegance of its style; qualities for which few Englith writers were diftinguished before

SCOUTS, in a military fense, are generally horsemen fent out before, and on the wings of an army, at the diflance of a mile or two, to discover the enemy, and give

the general an account of what they iee.

SCRATCH-PANS, in the English falt-works, a name given to certain leaden pans, which are usually made about a foot and an hilt long, a foot broad, and three inches deep, with a bow or circular handle of icon, by which they may be drawn out with a hook when the liquor in the pan is boiling. Their use is to receive a felenitic matter, known by the name of I ft feratch, which falls during the evar nation of the filt-water.

a cornice, and is only necessary when a cornice is to be

executed without bracketing.

SCREW, one of the fix mechanical powers, is a cylinder cut into feveral concave furfaces, or rather a channel or groove made in a cylinder, by carrying on two spiral planes the whole length of the ferew, in such a manner that they may be always equally inclined to the axis of the cylinder in their whole progress, and also inclined to the base of it in the same angle. See ME-CHANICS, p. 66, No 131.

Archimedes's SCREW. See HYDRODYNAMICS, No 228. Endless or Perpetual SCHEIF, one fo fitted in a compound machine as to turn a dented wheel; fo called, because it may be turned for ever without coming to an end. See MECHANICS, p. 67. No 135.

SCRIBE, in L'ebrew 100 fepher, is very common in

foripture, and has feveral fignifications. It fignifies,
1. A clerk, writer, or fecretary. This was a very confiderable employment in the court of the kings of Judah, in which the scripture often mentions the fecretaties as the first officers of the crown. Seraiah was fcribe or fecretary to King David (2 Sam. viii. 17.). Shevah and Shemaiah exercised the same office under the fame prince (2 Sam. xx. 25.). In Solomon's time we find Elihoreph and Ahia tecretaries to that prince (1 Kings iv. 4.); Shebna under Hezekiah (2 Kings xix. 2); and Shaphan under Jofiah (2 Kings xxii, 8.). As there were but few in those times that could write well, the employment of a scribe or writer was very confiderable.

2. A scribe is put for a commissary or muster-master of an army, who makes the review of the troops, keeps the lift or roll, and calls them over. Under the reign of Uzziah king of Judah, there is found Jeil the fcribe who had under his hand the king's armies (2 Chr. xxvi. 11.). And at the time of the captivity, it is faid the captain of the guard, among other confiderable perfons, took the principal feribe of the hoft, or fecretary at war, which mustered the people of the land (2 Kings xxv. 19.).

2. Scribe is put for an able and skilful man, a doctor of the law, a man of learning that understands affairs. Jonathan, David's uncle by the father's fide, was a

counfellor,

Scribe Scribonius

counsellor, a wife man, and a scribe (1 Chr. xxvii. 32.). Baruch, the disciple and secretary to Jeremiah, is called a scribe (Jer. xxxvi. 26.). And Ezra is celebrated as a skilful scribe in the law of his God (Ezra vii. 6.). The scribes of the people, who are frequently mentioned in the Gospel, were public writers and professed doctors of the law, which they read and explained to the people. Some place the original of fcribes under Mofes: but their name does not appear till under the judges. It is faid, that in the wars of Barak against Sifera, " out of Machir came down governors, and out of Zebulun they that handle the pen of the writer." (Judges v. 14.). Others think that David first instituted them, when he established the several classes of the priefts and Levites. The fcribes were of the tribe of Levi; and at the time that David is faid to have made the regulations in that tribe, we read that 6000 men of them were constituted officers and judges (1 Chr. xxiii. 4.); among whom it is reasonable to think the fcribes were included. For in 2 Chr. xxiv. 6. we read of Shemaiah the scribe, one of the Levites; and in 2 Chr. xxxiv. 13. we find it written, " Of the Levites that were fcribes and officers."

The feribes and doctors of the law, in the feripture phrafe, mean the fame thing; and he that in Mat, xxii. 35. is called a doctor of the law, or a lawyer, in Mark xii. 28. is named a feribe, or one of the foribes. And as the whole religion of the Jews at that time chiefly confifted in pharifaical traditions, and in the use that was made of them to explain the feripture; the greatest number of the doctors of the law, or of the feribes, were Pharifees; and we almost always find them joined together in feripture. Each of them valued themselves upon their knowledge of the law, upon their studying and teaching it (Mat. xxiii, 52.): they had the key of knowledge, and fait in Mose's chair (Mat. xxiii, 21). Epiphanius, and the author of the Recognitions in uputed to St Clement, reckon the seribes among the sects of the Jews; but it is certain they made no set by themselves; they were only distinguished by their study

SCRIBONIUS, LARGUS, an ancient physician in the reign of Augustus or Tiberius, was the author of feveral works; the best edition of which is that of John Scrimzeor.

SCRIMZEOR or SCRIMGEOUR, Henry, an eminent reflorer of learning, was born at Dundee in the year 15-66. He traced his defeent from the ancient family of the Scrimzeours of Didupe or Dudhope, who obtained the office of hereditary flandard-bearers to the kings of Scotland in 1057.

of Scotland in 1057.

At the grammar-fhool of Dundee our author acquired the Greek and Latin languages to an uncommon degree of perfection, and that in a fhorter time than many scholars before him. At the university of St Andrew's his successful application to philosophy gained him great applause. The next scene of his studies was the university of Paris, and their more particular object the civil law. Two of the most famous civilians of that age, Eguinard Baron and Francis Duaren (A), were then giving their lectures to crowded circles at Bourges. The same of these professors occasioned his removal from Paris; and for a considerable time he prosecuted his studies under their direction.

At Bourges he had an opportunity of becoming acquainted with the celebrated James Amiot, Greek profeffor in that city, well known in the learned world by his traulation of Plutarch's Lives, and diffinguished afterwards by his advancement to great honours in the church, and finally to the rank of cardinal.

Through the recommendation of this eminent perfon, Mr Scrimzeor engaged in the education of two young gentlemen of the name of Bucherel, whom he infiructed in the belles lettres, and other branches of literature, calculated to accomplish them for their station in life.

This connection introduced him to Bernard Bornetel bishop of Rennes, a person famed in the political world for having served the state in many honourable embassies. Accepting an invitation from this prelate to accompany him to Italy, Mr Scrimzeor greatly enlarged the sphere of his literary acquaintance, by his conversation and connection with most of the distinguished scholars of that country. The death of Francis Spira (b) happened during his visit to Padua; and as the character and conduct of this remarkable person at that time engaged

(A) "Francis Duaren was the first of the French civilians who purged the chair in the civil law schools from the barbarisms of the Glossaries, in order to introduce the pure sources of the ancient jurispindence. As he did not desire to share that glory with any one, he looked with an envious eye on the reputation of his colleague Eguinard Baron, who also mixed good literature with the knowledge of the law. This jealousy put him upon composing a work, wherein he endeavoured to lessen the efteen that people had for his colleague. The maxim, "Pasciture in civil liver; p.pst state and quiefeit," was verified remarkably in him; for after the death of Baron, he showed himself most zealous to eternize his memory, and was at the expence of a monument to the honour of the deceased." From the Trumitation of Bayle's Dict. of 1710, p. 1143-4.

(B) Francis Spira was a lawyer of great reputation at Gittdella in the Venetian flate, at the beginning of the 16th century. He had imbihed the principles of the Reformation, and was accufed before John de la Cala, archbithop of Benevento, the pope's nuncio at Venice. He made some concessions, and asked pardon of the papal minister for his errors. But the nuncio infisted on a public recantation. Spira was exceedingly averse to this measure; but at the pressing instances of his wife and friends, who represented to him that he must lose his practice and ruin his affairs by persisting against it, he at last compiled. Shortly after he fell into a deep melancholy, lost his health, and was removed to Padua for the advice of physicians and divines; but his disorders augmented. The recentation, which he fail dhe had made from cowardice and interest, filled his mind with continual horror and remorse; insomuch that he sometimes imagined that he felt the torments of the damned. No means being found to restore either his health or his peace of mind, in 1548 he fell a victim to his misserbele situation. See Collyer's Dick.—Spira.

Scrimzoo engaged the attention of the world, Mr Scrimzoor is
fard to have collected memoirs of him in a publication
entitled, "The Life of Francis Spira, by Henry of Scotland." This pertormance, however, does not appear in

the catalogue of his works.

After he had stored his mind with the literature of foreign countries, and fatisfied his curio ity as a travelmight without vanity have entertained hopes, that the various knowledge which he had treatured up would have won him a partial reception among his countrymen. An ambition of being ufetully dulinguithed among them as a man of letters is justly supposed the principal motive of his defire to return : but the most fanguine projects of life are often strangely diverted by accident, or rather perhaps are invitibly turned by Providence, from their purposed course. Mr Scrimzeor, on his journey homewards, was to pass through Geneva. His fame had long forerun his footsteps. The syndics and other magistrates, on his arrival, requested him to fet up the profession of philosophy in that city; promising a compensation suitable to the exertion of his talents. He accepted the proposal, and enablithed the philosophical chair.

After he had taught for fome time at Geneva, a fire breke out in his neighbourhood, by which his house was confumed, and himfelf reduced to great diltreis. His late pupils, the Bucherels, hid not forgotten their obligations to him, and dent a confiderable lum of mo-

ney to his relief.

At this time flourished at Augsburg that famous merca-vile family (c.), the Fuggers. Ulric Fugger was then its representative; a man possessed of prodigious wealth, possessed of literature, a great collector of books and manuscripts, and a munificent patton of learned men. Being informed, by means of his literary correspondence, of the misfortune which had be-tailen Mr Scrimzcor in the burning of his house, he immediately sent him a pressing invitation to accept an aff-um beneath his roof till nis affairs could be re-calabilished. Mr Scrimzcor, glad y availing himself of such a hospitable kindnels, loit no time in going to Germany.

Whilit refiding at Augsburg with Mr Fugger, he was much employed in augmenting his patron's library by aft collections, purched from every corner of Europe. Manuscripts of the Greek and Latin authors were then of inclimable value, and seem to have been more particularly the object of Mr Scrimzcor's re-

He did not lead a life of yawning indulence amidit the'e treafures, and, like a more unfeeling collector, leave them unenjoyed. As librarian, he was not contented to aft the part of a black enunch to his literary feraglio. He feems to have forgotten that he was not its Grand Sultan, and accordingly ranged at will among furrounding beauties. He composed many works of

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great learning and ingenuity, whilft he continued in a Scrimzestfituation fo peculiarly agreeable to the views and habits

When his manuferipts were ready for the prefs, he was defined of returning to Geneva to print them. His patton, Fugger, recommended him for this purpofe to the very learned Henry Stephens, one of his pentioners, and at that time one of the most celebrated printers in Europe.

Immediately on his arrival at Geneva, 1563, he was earneilly folicited by the magnitrates to returne the chair of philosophy. Notwithtanding his compliance, and in consequence of it the dedication of much of his time to the study of physics, he, two years afterwards, instituted a course of sections in the civil law, and had the honour of being its first sounder and professor at Geneva.

As foon as he was fettled again in this city, he hoped, amidft his other occupations, to profecute the great object of his literary fame, the printing of his various works. But a fulpicion which Henry Stephens entertained, that it was his intention to fet up a rival prefs at Geneva, occafioned great diffensions between them. The refult of the quarrel was, that the republic of letters, during Mr Scrinzcov's life, was deprived of his valuable productions. They fell most of them at his death into the hands of Haec Cafaubon, who has been accused of publishing confiderable portions of them as his own.

Some account of Mr Scrimzeor's feveral performances will give an idea of his extensive erudition.

He wrote critical and explanatory notes upon Atheneous's (n) Deipnolophij/t, or Table convertations of Philosophers and Learned Men of Antiquity; having first collated several manuscripts of his author. This work Casaubon published at Leyden in 1600; but without dillinguishing his own notes from those of Scrimzcor.

A Commentary and Emendations of the Geography of Strabo were among our author's literary remains. These were published in Casaubon's Parisian edition of Strabo, 1620. Henry Stephens, from an idea of juftice due to Scrimzeor's literary fame, notwithstanding the violent animofity which had subfifted betwixt them, reproaches Cafaubon for adopting our Scottilli- critic's lucubrations on Strabo without acknowledgement .-Dempster affures us, that Scrimzeor, in his manuscript letters, mentions his defign of publithing this performance; whence, it is probable, that his work appeared to himfelf of confiderable confequence, and had taken up much of his attenion. Although Casaubon, in his am I notes exhibited at the foot of Strabo's text, nak no confession of having derived any thing from Scrimzeor, it must not be conceased, that in an epistle to Sir Peter Young, our critic's nephew, through whom the Commentary and Emendations of Straho came into his hands, Cafaubon acknowledges how very ufeful to him they might be made; for speaking there of his in-

<sup>(</sup>c) They were ennobled by the emperor in 1510, under the title of Barons of Kirkberg and Weiffenborn.
(D) Atheness was a grammarian of Neuerates in Ecospt, and lived in the feeond century. His Deipnolophilike is a very curious and learned work, in 15 hocks. It is full of interelling ancedates and deferiptions of ancient manners, and has preferred many relies of Greeian poetry not to be found effewhere.

Scrime extended ed. oun of Strabo, he fays, " It cannot be expressed how much affistance I may obtain from your

Edward Herrifon, a Scottish author, in his Commenof the Stoics, informs us, that Scrimzeor collated difthe of an ordinary critic. Every one knows how volumin us an author was the philosopher, the historian, and order of Charmea. Whether our learned critic had meant to publish an edition of Plutarch's works is not known; but such an intention feems highly probable

The 10 books of Diogenes Laertius on the Lives. Opinions, and Apophthegms of the Philosophers, were collated from various manuscripts by Scrimzeor. His corrected text of this author, with notes full of erudition, came also into Casaubon's possession, and is suppoled to have contributed much to the value of his edition of the Grecian Biographer, printed at Paris in

The works of Phornutus and Palæphatus were also among the collations of Mr Scrimzeor. To the latter of these authors he made such considerable additions. that the work became partly his own. These were two ancient authors who explain the fables of the heathen deities. The former wrote De Natura Deorum. seu de Fabularum Poeticarum Allegoriis Speculatio, " On the Nature of the Gods, or the Allegorical Fictions of the Poets." The latter entitled his book ATIFO, Sive ae falis Narrationibus, "Things incredible, or concerning false Relations." These works were printed at Bafil, 1570; whether in Greek or Latin is uncertain. They have been published fince in both languages.

The manuscripts of them were for some time preferved in the library of Sir Peter Young, after that of his uncle Scrimzeor, which was brought into Scotland in 1573, had been added to it. What became of this valuable bequest at the death of the former, is uncer-

Our learned philologer also left behind him in manuscript the orations of Demosthenes, Æschines, and Cicero, and the Ecclefiastical History of Eusebius, all care-

Among his literary remains was a collection of his Latin epiftles. The men of letters in the 15th and 16th centuries feem to have kept their republic, as it is called, more united and compact than it is at present, by an epiftolary intercourse in the Latin language, then the universal medium of literature and science, general spirit of communication could not but contribute greatly to the advancement of learning, as well as to the pleasure, and, we may add, to the importance, of those who were engaged in its pursuit. The intercourse and union of enlightened men, able and difposed to promote the happiness of their fellow-creatures, cannot be too close. From fuch intellectual combination alone it is, that uniformity of religious, moral, and political principles, to its greatest attainable degree, can ever be expected; or, in other words, the greatest posfible benefit derived from the cultivation of letters.

Of the many performances which had exercised his pen, it does not appear that any were immediately published by himself but his Translation of Justinian's Novels into Greek. This was printed at Paris in 1558, Scrimzeor, and again with Holoander's Latin version at Antwerp Scripture in 1575. This work has been highly extolled, both for the purity of its language and the accuracy of its execution, and is likely, according to some respectable opinions, to hold its ellimation as long as any use or memory of the civil law thall exist.

A Latin translation of the Bafilica, or Bafilics, as they are called by our civilians, is the last we have to mention of this author's performances. This is a collection of Roman Laws, which the eastern emperors Bafil and Leo, who reigned in the fifth century, commanded to be translated into Greek, and which preferved their authority till the diffolution of the eaftern empire. The Bafilies comprehend the inflitutes, digefts, code, and novels, and fome of the edicts of Juftinian and other emperors. Of 60 original books, 41 only remain. Mr Scrimzeor collated them with various manuscripts, probably before he commenced his

From the foregoing recital of the learned labours of this profound scholar and critic, it will be concluded, that almost the whole of his life, although long, was fpent in his library, and that the biographer, having now terminated the catalogue of his writings, is probably not distant from the conclusion of his life. Different years have been affigned for the time of his death; but it appears most likely, from a comparison of the different accounts of this event, that it happened very near the expiration of 1571, or at the beginning of the fucceeding year, about the 66th year of his age. He died in the city of Geneva.

The characteristic features of Scrimzeor are few, but they are prominent and striking, and remote posterity may regard him with no inferior degree of respect. His industry and perseverance in the pursuit of knowledge and erudition were equalled only by the exquisite judgement which he displayed in his critical annotations and commentaries on the errors and obscurities of ancient

books and manuscripts.

His acquifitions in the Greek, Latin, and oriental languages, were reckoned much beyond those of most of the professed linguists of his time. The great Cujacius used to say, "That he never quitted Mr Scrimzeor's conversation without having learned something new." But that which gave peculiar grace to fuch fuperiority, was the amiable modelly which on all occasions was observed to accompany it. From the commendation given him by the illustrious civilian just mentioned, it will be concluded, that he did not brood, with a jealous referve, over unlocked treasures of erudition; but that, conscious of possessing stores too ample to be foon exhausted, at the same time that he avoided an oftentatious profusion of them, he obliged and delighted his friends by a liberal communication. From the period at which he lived, confidered with the nature and extent of his studies, and his abilities in profecuting them, he may be deservedly ranked among those eminent characters who have most fuccessfully contributed their exertions to the revival of letters in Europe.

SCRIPTURE is a word derived from the Latin Scriptures fcriptura, and in its original fense is of the fame import of the Old with writing, fignifying "any thing written." It is, and New however, commonly used to denote the writings of the ments, Old and New Testaments; which are sometimes called

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character.

thenticity

Song are the Scriptures, fometimes the facred or holy Scriptures, and fometimes canonical Scripture. These books are called the Scriptures by way of eminence, as they are the most important of all writings; they are faid to be holy or facred on account of the facred doctrines which they teach; and they are termed canonical, because when their number and authenticity were alcertained, their names were inferted in ecclefiaftical canons, to dittinguith them from other books; which, being of no authority, were kept as it were out of fight, and therefore ityled apocruphal (A).

The authenticity of the Old Testament may be proved from the character of the Jews, from internal cvi-

dence, and from tellimony.

1. The character of the Jews affords a ftrong prefumotive evidence that they have not forged or corrupted the Old Testament. Were a person brought before a court of justice on suspicion of forgery, and yet no prefumptive or politive evidence of his guilt could be produced, it would be allowed by all that he ought to be acquitted. But farther, if the forgery alleged were inconfident with the character of the accused; if it tended to expose to difgrace and reproach his general principles and conduct; or if we were affured that he confidered forgery as an impious and abominable crime-it would require very strong testimony to establish his guilt. The case now mentioned corresponds exactly with the character and fituation of the Jews, If a Jew had forged any book of the Old Testament, he must have been impelled to so bold and dangerous an enterprise by some very powerful motive. It could not be national pride, for there is scarcely one of these books which does not severely censure the national manners. It could not be the love of fame; for that paffion would have taught him to flatter and extol the national character; and the punishment, if detected, would have been infamy and death. The love of wealth could not produce such a forgery; for no wealth was to be

The Jews were selected from among the other nations of the world, and preserved a distinct people from the time of their emigration from Egypt to the Babylonith captivity, a period of 892 years. The principal purpoles for which they were felected was to preferve in a world running headlong into idolatry the knowledge and worship of the one true God, and to be the guardians of those facred books that contained the prophecies which were to prove to future ages the divine million of the Redeemer of mankind. To fit them for these important trufts, the fpirit of their laws and the rites of their religion had the strongest tendency. Miracles were openly performed, to convince them that the God of Ifrael was the God of all the earth, and that he alone was to be worshipped. Public calamities always befel them when they became apostates to their God; yet they continued violently attached to idolatry till their captivity in Babylon made them for ever renounce it.

The Jews then had two opposite characters at different periods of their history: At first they were addicted to idolatry; afterwards they acquired a strong antipathy

Had any books of the Old Testament been forged Scriptu.e. before the Babylonith captivity, when the Jews were devoted to idolatry, is it to be conceived that the impostor would have inveighed so strongly against this vice, and fo often imputed to it the calamities of the state; fince by such conduct he knew that he would render himfelf obnoxious to the people and to those idolatrous monarchs who perfecuted the prophets?

But it may next be supposed, that " the facred books were forged after the Babylonish captivity, when the principles of the Jews would lead them to inveigh against the worthip of idols. But these principles would furely never lead them to expose the character of their ancestors, and to detail their follies and their crimes. Never had any people more national pride, or a higher veneration for their ancestors, than the Jews. Miracles and prophecies ceafed foon after their return to Jerufalem; and from that period their respect for the facred books approached to superfittion. They preserved them with pious care, they read them often in their fynagogues, and they confidered every attempt to alter the text as an act of facrilege. Is it possible that such men could be guilty of forgery, or could false writings be eafily imposed on them

2. There is an internal evidence in the books of the Old from inter-Testament that proves them to have been written by dence, and different persons, and at distant periods; and enables us with precision to ascertain a time at or before which they must have been composed. It is an undeniable fact that Hebrew ceafed to be the living language of the Jews during the Babylonish captivity, and that the Jewish productions after that period were in general written either in Chaldee or in Greek. The Jews of Marsh on Palestine, some ages before the coming of our Saviour, ticity of were unable, without the affiltance of a Chaldee para-the five phrase, to understand the Hebrew original. It neces-books of farily follows, therefore, that every book which is writ- Mofes. ten in pure Hebrew was composed either before or about the time of the Babylonish captivity. This being admitted, we may advance a step farther, and con-

tend that the period which elapfed between the compofition of the most ancient and the most modern book of the Old Testament was very considerable; or, in other words, that the most ancient books of the Old Testament were written many ages before the Babylonish

captivity. No language continues flationary; and the Hebrew.

like other tongues, paffed through the feveral stages of infancy, youth, manhood, and old age. If therefore, on comparison, the several parts of the Hebrew Bible are found to differ not only in regard to flyle, but also in regard to character and cultivation, we have flrong internal marks that they were composed at different and diftant periods. No classical scholar would believe, independent of the Grecian history, that the poems ascribed to Homer were written in the age of Demosthenes, the Orations of Demosthenes in the time of Origen, or the Commentaries of Origen in the time of Lascaris and Chrysoloras. For the very same reason, it is certain that the five books which are ascribed to Moles were not written in the time of David, the 5 F 2

mony.

Scripture. Pfalms of David in the age of Ifaiah, nor the prophecies of Isaiah in the time of Malachi; and fince the Hebrew became a dead language about the time of the Babylonish captivity, the book of Malachi could not have been written much later. Before that period therefore were written the prophecies of Isaiah, fill earlier the Pfalms of David, and much earlier than thefe the books which are afcribed to Mofes.

from teffi-3. Let us now confider the evidence of testimony for the authenticity of the Old Testament. As the Jews were a more ancient people than the Greeks or Romans, and for many ages totally unconnected with them, it is not to be expected that we should derive much evidence from the historians of those nations; it is to the Jews alone we must look for information. But it has unfortunately happened that few of their works except the Scriptures themselves have been preserved to posterity. Josephus is the most ancient of the Jewish historians to whom we can appeal. He informs us, that the Old Tellament was divided into three parts, the Law, the Prophets, and the Hagiographa or poetical books. No man, fays he, hath ever dared to add or take away from them. He tells us also, that other books were written after the time of Artaxerxes; but as they were not composed by prophets, they were not

> Since the promulgation of the Christian religion, it is impossible that any material alterations or corruptions could have taken place in the books of the Old Teffament; for they have been in the hands both of Jews and Christians from that period. Had the Jews attempted to make any alterations, the Christians would have detected and exposed them; nor would the Jews have been less severe against the Christians if they had corrupted the facred text. But the copies in the hands of Jews and Christians agree; and therefore we justly conclude, that the Old Testament is still pure and un-

reckoned worthy of the same credit.

The division mentioned by our Saviour into the Law, the Prophets, and the Pfalms, corresponds with that of Josephus. We have therefore sufficient evidence, it is hoped, to convince even a deift, that the Old Testament existed at that time. And if the deist will only allow, that Jesus Christ was a personage of a virtuous and irreproachable character, he will acknowledge that we draw a fair conclusion when we affert that the Scriptures were not corrupted in his time; for when he accufed the Pharifees of making the law of no effect by their traditions, and when he injoined his hearers to fearch the Scriptures, he could not have failed to mention the corruptions or forgeries of Scripture, if any in that age had existed. But we are assured, by very refpectable authority, that the canon of the Old Tellament was fixed some cereuries before the birth of Jesus Christ. Jefus the fon of Sixach, the author of Eccle-If ... h \*, Jeremiah +, and Ezckiel t, and mentions thefe pro hets . It appears allo from the prol gue, that ift dat the same period. The book of Ecclesiatticus, accordi g to the calculations of the Lest chronologers, years before the Christi nora, and vas translated into Greek in the next century ! y the grand.on of the author. The prologue was added by the translator : but Scripture, this circumstance does not diminish the evidence for the antiquity of Scripture; for he informs us, that the law and the prophets, and the other books of their fathers, were tunied by his grandfather: a sufficient proof that they existed in his time. As no authentic books of a more ancient date, except the facred writings themfelves, have reached our time, we can afcend no higher in fearch of tellimony.

There is, however, one remarkable historical fact. which proves the existence of the law of Moles at the diffolution of the kingdom of Ifrael, when the ten tribes were carried captive to Affyria by Shalmaneler, and difperfed among the provinces of that extensive empire; that is, about 741 years before Christ. It was about that time the Samaritans were transported from Affyria to repeople the country, which the ten captive tribes of Israel had formerly inhabited. The posterity of the Samaritans still inhabit the land of their tathers, and have preserved copies of the Pentateuch, two or three of which were brought to this country in the feventeenth century. The Samaritan Pentatench is written in old Hebrew characters (see Philology, No 28). and therefore must have existed before the time of Ezra. But so violent were the animofities which subfifted between the Jews and Samaritans, that in no period of their hiftory would the one nation have received any books from the other. They must therefore have received them at their first fettlement in Samaria from the captive prieft whom the Affyrian monarch fent to teach them how they should fear the Lord (2 Kings xvii.).

The canon of the Old Testament, as both Jewish The canon The canon of the Old Tenament, as both Jewin and of the Old and Christian writers agree, was completed by Ezra and of the Old and Christian writers agree, was completed by Ezra and of the Old and Christian writers agree, was completed by Ezra and of the Old and Christian writers agree, was completed by Ezra and of the Old and Christian writers agree, was completed by Ezra and of the Old and Christian writers agree, was completed by Ezra and of the Old and Christian writers agree, was completed by Ezra and of the Old and Christian writers agree, was completed by Ezra and of the Old and Christian writers agree, was completed by Ezra and of the Old and Christian writers agree, was completed by Ezra and of the Old and Christian writers agree, was completed by Ezra and of the Old and Christian writers agree, was completed by Ezra and Old and Christian writers agree, was completed by Ezra and Old and Christian writers agree, was completed by Ezra and Old and Christian writers agree, which is the Old and Christian writers agree which we will be the Old and Christian writers agree which will be the Old and Christian writers agree which we will be the Old and Christian writers agree which we will be the Old and Christian writers agree which we will be the Old and Christian writers agree which we will be the Old and Christian writers agree which we will be the Old and Christian writers agree which we will be the Old and Christian writers agree which we will be the Old and Christian writers agree which we will be the Old and Christian writers agree which we will be the Old and Christian writers agree which we will be the Old and Christian writers agree which we will be the Old and Christian writers agree which we will be the Old and Christian writers agree which we will be the Old and Christian writers agree which we will be the Old and Chri fome of his immediate fuccessors (see BIELE). In our fettled, copies the facred books are divided into 39. The Jews reckoned only 22, corresponding to the number of letters in the Hebrew alphabet. They united the books of Judges and Ruth; they joined the two books of Samuel; the books of Kings and Chronicles were reckoned one; Ezra and Nehemiah one; the Prophecies and Lamentations of Jeremiah were taken under the same head; and the 12 minor prophets were confidered as one book-fo that the whole number of books in the

Jewish canon amounted to 22.

by every reader of discernment.

The Pentateuch confifts of the five books, Genefis, The Pen-Exodus, Leviticus, Numbers, and Deuteronomy. Se. tateuch veral observations have been already made respecting the Miles, authenticity of these under the article PENTATEUCH; but feveral additional remarks have occurred, which may not improperly be given in this place. For many of these we acknowledge ourselves indebted to a sermon published by the reverend Mr Marsh, whose research, learning, and critical accuracy, will be acknowledged

One of the strongest arguments that have occurred to us in support of the authenticity of the Pentateuch, and the infpiration of the writer, has already been given under the article RELIGION, Nº 14, &c. which fee: But we shall in this place present two arguments of a different kind, which would be fufficient to prove at least the former of these conclusions. We argue from the language and contents of the Mofal writings, and from the testimony of the other books of Scripture.

a Eccien aftic u. talis. 6. Aix. 10. Scripture.

proved by

Mars.

flimony.

From the contents and language of the Pentateuch there arises a very throng prefumption that Motes was books differers an author contemporary with the events which he relates; every description, both religious and political, is a proof that the writer was prefent at each respective scene; and the legislative and historical parts are to interwoven with each other, that neither of them could have been written by a man who lived in a later age. The account which is given in the oak of Ex. odus of the conduct of Pharaph low rds the children of Ifrael, is fuch as might have been exceeded from a writer who was not only acquainted with the country at large, but had frequent access to the court of its lovereign : and the minute geographical description of the paffage through Arabia is fuch, as could have been given only by a man like Moles, who had fpent 10 years in the land of Midian. The language itself is a proof of its high antiquity, which appears partly from the great simplicity of the style, and partly from the use of archaifms or antiquated expressions, which in the days even of David and Solomon were obfolete (B). But the ilrongeil argument that can be produced to show that the Pentateuch was written by a man boin and educated in Egypt, is the use of Egyptian words; words which never were, and never could have been, used by a native of Palestine : and it is a remarkable circumstance, that the very fame thing which Moles had expreffed by a word that is pure Egyptian, Ifaiah, as might be expected from his birth and education, has expressed by a word that is purely Hebrew (c).

and by te-That Moles was the author of the Pentateuch is proved also from the evidence of teltimony. We do not here quote the authority of Diodorus Siculus, of Longinus, or Strabo, because their information must have been derived from the Jews. We shall feek no authority but that of the fucceeding facred books themselves. which bear internal evidence that they were written in different ages, and therefore could not be forged, unlefs we were to adopt the abfurd opinion that there was a fuccession of impostors among the Jews who united in the fame fraud. The Jews were certainly best qualified to judge of the authenticity of their own books. They could have no interest in adopting a forgery. Indeed, to suppose a whole nation combined in committing a forgery, and that this combination should continue for position that ever entered into the mind of man. Yet we must make this supposition, if we reject the historical facts of the Old Testament. No one will deny that the Pentateuch exided in the time of Christ and his apostles; for they not only me tion it, but quote it. "This we admit," reply the advocates for the hypo-

therefore conclude that Moles was the author; for there Scripture. is reason to believe it was composed by Ezra," But " unfortunately for min of this opinion, both Ezra and Nehemiah afcribe the book of the law to Mofes \*, \* Ezra ii. 2. The Penateuen was in the possession of the Samari- Scheme tans before the time of Ezra. 3. It exitted in the ai. I. reign of Amaziah king of Judah, A. C. 839 years + + 2 Chron. 4. It was in public ule in the reign of Jeholiphat, xxv. 4-A. C. 912; for that virtuous prince appointed Levites Kings and priefts who taught in Judah, and had the book of the law of the Lord with them, and went about throughout all the cities of Judah and taught the throughout all the cities of Judan and taught the people 1. 5. It is referred to by David in his dying 1 2 Chronadmonitions to Solomon §. The same royal bard makes § 1 Kings many allusions to it in the book of Plalms, and some-11, 2, times quotes it \*. There remains therefore only one \* Comp. resource to those who contend that Moses was not the Plaim cit. author, viz. that it was written in the period which Fixed elapsed between the age of Jothua and that of David. xxxiv, 6, But the whole history of the Jews from their fettle-in the oriment in Canaan to the building of the temple prefup-ginal, poles that the book of the law was written by Moles, where the 6. We have fatisfactory evidence that it existed in the the very time of Johna. One pallage may be quoted where this iame-fact is stated. The Divine Being makes use of these words to Joshua: " Only be thou strong, and very courageous, that thou mayest observe to do all according to the law which Moles my fervant commanded thee; turn not from it to the right hand or to the left, that then mayed profper whither oever thou goeft. This book of the law thall not depart out of thy mouth; but th u shalt meditate therein day and night, that thou! Joshua th a shalt mediate therein day and light, that thou in 7, 8, vii., mayest observe to do according to all that is written 31, xxhi, 6,

To the firegoing demonstration objections may be General stated. " We will admit the farce of your arguments, rejections and grant that Moles acually wrote a work called the answered. book of the law; but how can we be certain that it was the very work which is now current under his name? And unless you can show this to be at least probable, your whole evidence is of no value." To illustrate the force or weakness of this o jection, let us apply it to fome as cient Greek author, and fee whether a claffical scholar would all wit to have weight. " It is true that the Greek writers speak of Homer as an ancient and celebrated poet; it is true allo that they have quoted from the works which they afcribe to him valious pass ges that we find at present in the Hind and Odyssev: yet still there is a possibility that the poems which were writ en by Homer, and the fe which we call the *Iliad* and *Odyfi'ry*, were totally distinct productions." Now an advocate for Greek literature would reply to this objection, not with a ferious answer, but with a fmile of contempt; and he would think it beneath his

dignity to filence an opponent who appeared to be deaf

.(B) For inftance, and ille, and του puer, which are used in both genders by no other writer than Moses. See

(c) F inlance, אוני (perha s witten originally אוני and the benethened into toy millake), written by the Seventy age of age. God. Ali. 2. and man, written by the Seventy 9.50 or 9.515. See La Croze Lexicon Aguptiaeum, art. AXt at. | OHBI

The fame ding which M fee expresses by Mrs. Gen. xli. 2. Isdah xix. 7. expresses by Mrs. for the Seventy have

Sugar- to the clearest conviction. But fill more may be faid in defence of Mofes than in defence of Homer; for the writings of the latter were not deposited in any temple or facred archive, in order to fecure them from the devaltations of time; whereas the copy of the book of the law, as written by Mofes, was intrufted to the priefts and the elders, preferved in the ark of the covenant, and read to the people every feventh year (D). Sufficient care therefore was taken not only for the preservation of the original record, but that no fpurious production should be substituted in its stead. And that no spurious production ever has been substituted in the stead of the original composition of Moses, appears from the evidence both of the Greek and the Samaritan Pentateuch. For as these agree with the Hebrew, except in some trifling variations (E), to which every work is exposed by length of time, it is absolutely certain that the five books which we now ascribe to Moses are one and the fame work with that which was translated into Greek in the time of the Ptolemies, and, what is of still greater importance, with that which exitted in the time of Solomon. And as the Jews could have had no motive whatever, during that period which elapfed between the age of Joshua and that of Solomon, for subflituting a spurious production instead of the original as written by Mofes, and, even had they been inclined to attempt the imposture, would have been prevented by the care which had been taken by their lawgiver, we must conclude that our present Pentateuch is the very identical work that was delivered by Moses.

The positive evidence being now produced, we shall endeavour to answer some particular objections that have been urged. But as most of these occur in the book of Genefis, we shall referve them for separate examination, and shall here only consider the objections peculiar to the last four books. They may be comprised under one head, viz. expressions and passages in these books which could not have been written by Moles. 1. The account of the death of Mofes, in the last chapter of Deuteronomy, we allow must have been added by some fucceeding writer; but this can never prove that the book of Deuteronomy is fpurious. What is more common among ourselves than to see an account of the life and death of an author fubjoined to his works, without

informing us by whom the parrative was written? 2. It Scripture has been objected, that Mofes always speaks of himself in the third person. This is the objection of foolish ignorance, and therefore scarcely deserves an answer. We suspect that such persons have never read the clasfics, particularly Ciefar's Commentaries, where the author uniformly speaks of himself in the third person, as every writer of correct tafte will do who reflects on the abfurdity of employing the pronoun of the first person in a work intended to be read long after his death. (See GRAMMAR, No 33.) 3. As to the objection, that in fome places the text is defective, as in Exodus xv. 8. it is not directed against the author, but against some tranfcriber; for what is wanting in the Hebrew is inferted in the Samaritan. 4. The only other objection that deferves notice is made from two passages. It is said in one place that the bed of Og is at Ramah to this day; and in another (Deut. iii. 14.), "Jair the fon of Mansfieh took all the country of Argob unto the coasts of Geshuri and Maacathi, and called them after his own name, Bashan-havoth-jair, unto this day." The last clause in both these passages could not have been written by Moles, but it was probably placed in the margin by fome transcriber by way of explanation, and was afterwards by mistake inferted in the text. Whoever doubts the truth of this affertion may have recourse to the manufcripts of the Greek Testament, and he will find that the spurious additions in the texts of some manufcripts are actually written in the margin of others (F).

That the Pentatcuch, therefore, at least the last four books of it, was written by Moles, we have very fatisfactory evidence; which, indeed, at the diffance of 3000 years is wonderful, and which cannot be affirmed of any profane history written at a much later period.

The book of Genefis was evidently not written by a Authentiperson who was contemporary with the facts which he city of the records; for it contains the history of 2369 years, a Genesis. period comprehending almost twice as many years as all the rest of the historical books of the Old Testament put together. Moses has been acknowledged the author of this book by all the ancient Jews and Christians; but it has been matter of dispute from what source he derived

(D) " And Mofes wrote this law, and delivered it unto the priests the fons of Levi, which bare the ark of the covenant of the Lord, and unto all the elders of Ifrael. And Mofes commanded them, faying, At the end of every feven years, in the folemnity of the year of releafe, in the feaft of tabernacles, when all Ifrael is come to appear before the Lord thy God, in the place which he shall choose, thou shalt read this law before all Israel in their hearing. And it came to pass, when Moses had made an end of writing the words of this law in a book until they were finished, that Moles commanded the Levites, which bare the ark of the covenant of the Lord, faying. Take this book of the law, and put it in the fide of the ark of the covenant of the Lord your God." Deut. XXXI. 9-11. 24-26. There is a passage to the same purpose in Josephus: Δηλεται δια των ανακειμείων εν τω ίιξω yeamuarov, Josephi Antiquitat. lib. v. c. 1. § 17. ed. Hudfin.

(E) See the collation of the Hebrew and Samaritan Pentateuch, in the 6th vol. of the London Polyglot, p. 19. of

(F) To mention only two examples. 1. The common reading, 1 Cor. xvi. 2. is μιαν σαββατων; but the Codex Petavian. 3. has THE EVELUENT in the margin; and in one of the manufcripts which Beza ufed, this marginal addition has been obtruded in the text. See his note on this passage. 2. Another instance is, 1 John ii. 27, where the genuine reading is \*\*genus\*\*; but Wettlein quotes two manuscripts, in which \*\*supua\*\* is written in the margin; and the may inal reading has found its way not only into the Codex Covelli 2, but into the Cortic and Ethiopic

Serience, his materials; feme affirming that all the facts were revealed by infriration, and others maintaining that he procured them from tradition.

Some who have looked on themselves as profound philosophers, have rejected many parts of the book of Genefis as fabulous and abfurd : but it cannot be the wifdom of philosophy, but the vanity of ignorance, that could lead to such an opinion. In fact, the book of Genefis aff rds a key to many difficulties in philofophy which cannot otherwise be explained. It has been

Supposed that the diversities among mankind prove that they are not descended from one pair; but it has been fully the vn that all these diversities may be accounted for from natural causes. It has been reckoned a great difficulty to explain how fosfil shells were introduced into the bowels of the earth; but the deluge explains this fact better than all the romantic theories of philotonhers. It is impossible to account for the origin of fuch a variety of lunguages in a more fatisfactory manner than is done in the account of the confusion of tongues which took place at Babel. It would be no easy matter to thew why the sea of Sodom is so different from every other fea on the globe which has yet been of the miraculous destruction of Sodom and Gomorrah. It is faturated with bitumen and falt, and contains no fifthes. These are very singular facts, which have been fully established by late travellers. The book of Genesis, too, has been treated with contempt, because it makes the world less ancient than is necessary to fap-

port the theories of modern philosophers, and because it is difficult to reconcile the chronologies of feveral na-

tions with the opinion that the world is not above 6000

or 7000 years old. The Chaldeans, in the time of Ci-

cero, reckoned up 470,000 years. The Egyptians pretend that they have records extending 50,000 years

back; and the Hindoos go beyond all bounds of pro-

bability, carrying back their chronology, according to

Halhed, more than 7,000,000 of years. An attempt has been made by the unfortunate M. chronology Bailly, once mayor of Paris, to reconcile these magnified calculations with the chronology of the Septuagint, which is justly preferred to the Hebrew. (See SEPTU-AGINT.) He informs us, that the Hindoos, as well as the Chaldeans and Egyptians, had years of arbitrary determination. They had months of 1; days, and years of 60 days, or two months. A month is a night and day of the patriarchs; a year is a night and day of the gods; four thousand years of the gods, are as many hundred years of men. By attention to such modes of computation, the age of the world will be sound very nearly the same in the writings of Moses, and in the calculations and traditions of the Bramins. With these also we have a remarkable coincidence with the Persian chronology. Bailly has established these remarkable

> The Egyptians 2340 The Perfians The Hindoos The Chinese

epochas from the Creation to the Deluge.

The fame author has also shewn the singular coinci-

dence of the age of the world as given by four diffinet Seriouse. and diffantly fituated people.

	F . F		
The ancient Egyp	iaus	-	5544 years.
The Hindoos	-	-	1502
The Perfians	-	-	5501

Having made these few remarks, to shew that the facts recorded in Genefis are not inconfiltent with truth. we shall now, by a few observations, establish the evidence, from testimony, that Moses was the author, and answer

the objections that feem strongest.

There arises a great probability, from the book of Genefis itself, that the author lived near the time of Jofeph; for as we advance towards the end of that book, the facts gradually become more minute. The materials of the antediluvian hillory are very feanty. The account of Abraham is more complete; but the history of Jacob and his family is fill more fully detailed. This is indeed the cafe with every history. In the early part, the relation is very fhort and general; but when the hiftorian approaches his own time, his materials accumulate. It is certain, too, that the book of Genefis must have been written before the real of the Pentateuch; for the allufions in the last four books to the history of Abraham, of Isaac, and Jacob, are very frequent. simplicity of the flyle shows it to be one of the most ancient of the facred books; and perhaps its fimilarity to the flyle of Mofes would determine a critic to ascribe. it to him. It will be allowed that no man was better qualified than Mofes to compole the history of his anceltors. He was learned in all the wildom of the Egyptians, the most enlightened nation of his time, and he had the best opportunities of obtaining accurate inforcould eafily be remembered by Abraham, who might obtain it from Shem, who was his contemporary. To Shem it might be conveyed by Methufelah, who was 340 years old when Adam died. From Abraham to Moles, the interval was less than 400 years. The fplendid promifes made to that patriarch would certainly be carefully communicated to each generation, with the concomitant facts: and thus the history might be conveyed to Mofes by the most distinguished persons. The accounts respecting Jacob and his fon Joseph might be given to Moles by his grandfather Kohath, who muth have been born long before the descent into Egypt; and Kohath might have heard all the facts respecting Abraham and Isaac from Jacob himself. Thus we can easily point out how Mofes might derive the materials of the book of Genefis, and especially of the last 38 chapters, from the most authentic fource.

It will now be necessary to consider very shortly the Objections objections which have been supposed to prove that Gene- to the aufis could not have been written by Mofes. I. It is ob-thenticity jected, that the author of the first chapters of Genesis of Genesis must have lived in Melopotamia, as he discovers a obliated. knowledge of the rivers that watered Paradife, of the cities Babylon, Erech, Refen, and Calneh; of the gold of Pifon; of the bdellium and onyx stone. But if he could not derive this knowledge from the wildom of the Egyptians, which is far from being improbable, he might furely obtain it by tradition from Abraham, who was born and brought up beyond the Euphrates. 2. In

Sentant. Genefis siv. 14, it is faid. Abraham purfued the four consederate kings to Dan, yet that name was not given \* Judges till after the conquest of Palestine \*. We answer, this har will might be inferted by a transcriber. But such a supposition is not necessary; for though we are told in the book of Judges that a city originally called Laids received then the name of Dan, this does not prove that Laish was the fame city with the Dan which is mentioned in Genefis. The fame answer may be given to the objectower of Edar is mentioned, which the objectors fay was the name of a tower over one of the gates of Jerufalem. But the tower of Edar fignifies the tower of the flocks, which in the pastoral country of Canaan might be a very common name. 3. The most formidable ob-"And the Canaanite was then in the land." Gen. xxxvi. 31. " These are the kings that reigned over the land of Edom, before there reigned any king over the children of Ifrael." Now, it is certain that neither of these pafinvalidate the evidence which has been already produced. It does not prove that Mofes was not the author of the book of Genesis, but only that the book of Ge-

> According to Rivet, our Saviour and his Apostles have cited 27 passages verbatim from the book of Geness, and have made 38 allusions to the fense.

nesis has received two alterations fince his death.

The book of Exodus contains the history of the Israelites for about 145 years. It gives an account of the flavery of the Ifraelites in Egypt; of the miracles by which they were delivered; of their passage through the Red fea, and journey through the wilderness; of the fo-Iemn promulgation of the Decalogue on Mount Sinai, and of the building and furniture of the Tabernacle.

writers. Twenty-five passages are quoted by our Saviour and his apostles in express words, and they make

The book of Leviticus contains the history of the Ifraelites for one month, It confifts chiefly of laws, Indeed, properly speaking, it is the code of the Jewish ceremonial and political laws. It describes the confecration of Aaron and his fons, the daring impicty and exemplary punishment of Nadab and Abibu. It reveals also some predictions respecting the punishment of the Ifraelites in case of apostucy; and contains an affurance that every fixth year should produce abundance to supbook is quoted as the production of Mofes in feveral

The book of Numbers comprehends the history of the Ifraelites for a period of about 28 years, reckoning from the fir day of the second month after their departure cond year of their emigration, the fecond in the plains of Monb towards the conclusion of their journey in the wilder ofs +. It describes the ceremonies employed at Gal. i. 12 the confectation of the tabernacle, gives an exact jourt c. a o nal of the marche and encompments of the Ifiaelites, cure reformed by the braz n ferpent, and the misconout of the rock. There is also added an account of the Scripture death of Aaron, of the conquest of Sihon and Og, and the story of Balaum, with his celebrated prophecy concerning the Melliah &.

The book of Numbers is quoted as the work of Mofes xxiv. 17,

The book of Deuteronomy comprehends a period of \* Joffma nearly two months. It confills of an interesting address a thronto the Ifractites, in which Mofes recals to their remem-xxix, 11. brance the many infrances of divine favour which they was a had experienced, and reproaches them for their ingrati- Ezel. xx. tude. He lays before them, in a compendious form, Marth the laws which he had formerly delivered, and makes xii. c. fome explanatory additions. This was the more necet-J hn vifary, because the Israelites, to whom they had been ori-31. 12. 361 ginally promulgated, and who had feen the miracles in Deutero. Egypt, at the Red tea, and Mount Sinai, had died in nomy. the wilderness. The divine origin of thele laws, and the miracles by which they were fanctioned, must already have been well known to them; yet a folemn recapitulation of these by the man who had miraculously fed the present generation from their infancy, who by the lifting up of his hands had procured them victory in the day of battle, and who was going to leave the world to give an account of his conduct to the God of Ifiael. could not but make a deep and lafting impression on the minds of all who heard him. He inculcates thefe laws by the most powerful motives. He presents before them the most animating rewards, and denounces the severest punishments against the rebellious. The prophecies of Mofes towards the end of this book, concerning the fate of the Jews, their difpersion and calamities, the conquest of Jerufalem by the Romans, the mileries of the befieved. and the present state of the Jewish nation, cannot be . Matth. read without aftonishment. They are perspicuous and iv. ...

minute, and have been literally accomplished. This book is quoted as the production of Mofes by ct in 22. Christ and his apostles \*.

4. The historical books are 12 in number, Joshua, The histo-Judges, Ruth, Samuel I. and II. Kings I. and II. Chro-ric books, nicles, Ezra, Nehemiah, Either. Thefe, if confidered diffinctly from the Pentateuch, and the writings more properly flyled prophetical, contain a compendium of the Jewish history from the death of Moses, A. M. 2552, to the reformation established by Nehemiah after the return from the captivity, A. M. 3505, comprehending a

period of 1043 years.

To enable us to discover the authors of these books, we have no guide to conduct us but conjecture, internal evidence, or the authority of the modern Jews, From the frequent references in Scripture, and from the tellimony of Josephus, it appears that the Jews were in possession of many historical records which might have thrown much light on this subject if they had still been preferved. But during the calamities which befel that infatuated nation in their wars with the Romans, and the difpersion which followed, these writings have perished. But though we can produce no testimony deserving more ancient than the age of our Saviour to authenti- I the tullca e the historical books, yet there are some facts re-oft creats specting the mode of their preservation which entitle them to credit. The very circumflance itself, that the Jews have preferved them in the facred volume to this

day, while their other ancient books have been loft, is a proof that they confidered them as the genuine re-

cords

The bo k

\* 2 Cheon. XXX. 16.

Ezek. xx. Matth. mili y.

+ Contra Apion, tib. 1.

61, 62.

Authenticity of the Hebrew

\*ecords.

Scripture, cords of their nation. Josephus +, whose authority is of great importance, informs us, that it was the peculiar province of the prophets and priests to commit to writing the annals of the nation, and transmit them to posterity. That these might be faithfully preserved, the facerdotal function was made hereditary, and the greatest care was taken to prevent intermarriages either with foreigners or with the other tribes. No man could officiate as a priest who could not prove his descent in a right line by unquettionable evidence 1. Registers were kept in Jerusalem, which at the end of every war were regularly revised by the furviving priests; and new ones were composed. As a proof that this has been faithfully performed. Josephus adds, that the names of all the Jewish priests, in an uninterrupted succession from father to fon, had been registered for 2000 years; that is, from

> The national records were not allowed to be written by any man who might think himself fit for the office; and if a priest falfified them, he was excluded from the altar and deposed from his office. Thus we are affured that the Jewish records were committed to the charge of the priests; and fince they may be considered as the fame family from Aaron to the Babylonith captivity and downwards, the same credit is due to them that would be due to family records, which by antiquarians are esteemed the most authentic sources of information.

the time of Aaron to the age of Josephus.

Of the 22 books which Josephus reckoned himself bound to believe, the historical books from the death of Moles to the reign of Artaxerxes, he informs us, were written by contemporary prophets. It appears, then, that the prophets were the composers, and the priests the hereditary keepers, of the national records. the best provision possible was made that they should be written accurately, and preserved uncorrupted. The principal office of these prophets was to instruct the people in their duty to God, and occasionally to com-municate the predictions of future events. For this purpose they were educated in the schools of the prophets, or in academies where facred learning was taught. The prophets were therefore the learned men of their time, and confequently were best qualified for the office of historians. It may be objected, that the prophets, in concert with the priests, might have forged any writings they pleased. But before we suspect that they have done fo in the historical books of the Old Testament. we must find out some motive which could induce them to commit so daring a crime. But this is impossible. No encomiums are made either on the prophets or the priests; no adulation to the reigning monarch appears. nor is the favour of the populace courted. The faults of all ranks are delineated without referve. Indeed there is no history extant that has more the appearance of impartiality. We are presented with a simple detail of facts, and are left to discover the motives and intentions of the feveral characters; and when a character is drawn, it is done in a few words, without exaggerating the vices or amplifying the virtues.

It is of no great confequence, therefore, whether we can afcertain the authors of the different books or not.

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From Josephus we know that they existed in his time; Scripture and from his account of the manner in which they were preserved we are affured they were not in being corrupted. They exitted also when the ceptuagint translation was made. Frequent references are made to them in the writings of the later prophets; fomctimes the fame facts are related in detail. In thort, there is such a coincidence between the historical books and the writings of those prophets who were contemporary, that it is impossible to suppose the latter true

without receiving the former. Indeed, to suppose that the Jews could have received and preferved with fuch care for fo many hundred years falle records, which it mult have been in the power of every person to disprove, and which at the same time do so little credit to the character of their nation. is to suppose one of the greatest absurdities in the world; it is to suppose that a whole nation could act contrary to all those principles which have always predominated in the human mind, and which must always predominate till human nature undergo a total revolu-

The book which immediately follows the Pentateuch Joshua. has been generally afcribed to Joshua the successor of Mofes. It contains, however, fome things which must have been inferted after the death of Joiliua. It is neceffary to remark, that there is some accidental derangement in the order of the chapters of this book, which was probably occasioned by the ancient mode of fixing together a number of rolls. If chronologically placed, they should be read thus, 1st chapter to the 10th verse, then the 2d chapter; then from the 10th verse to the end of the 1st chapter; afterwards should follow the vi. vii. viii. ix. x. and xi. chapters; then the xxii.; and lastly the xii. and xiii. chapters to the 24th verse of the

The facts mentioned in this book are referred to by many of the facred writers f. In the first book of f t Chron Kings xvi. 34. the words of Joshua are faid to be the ii. 7.—xii. words of God. See Joshua. cviv. S.

By whom the book of Judges was written is uncer-Ifa. xxvni. tain; but as it contains the history of the Jewish repub-21.; Acts lic for 317 years, the materials must have been furnish-vii. 45.; ed by different persons. The book, however, scems to 31.—xii. 6. be the composition of one individual (G), who lived as-James ii. ter the regal government was established \*, but before the 25-28; accession of David; for it is said in the 21st verse of Ecclus. xlvi. the 1st chapter, that the Jebusites were still in Jerusa-4; 1 Maclem; who, we know, were dispossessed of that city early in the reign of David +. We have reason, therefore, to Judges. afcribe this book to Samuel.

The history of this book may be divided into two parts; 1.; xxi. 25. the first contains an account of the judges from Othniel v. 6, 8. to Samson, ending at the 16th chap. The second part relates feveral remarkable transactions which occurred foon after the death of Joshua; but are added to the end of the book, that they might not interrupt the course of the history.

The book of Ruth is a kind of supplement to the Ruth. book of Judges, and an introduction to the history of 5 G David.

<sup>(</sup>c) In support of this opinion, it may be observed that the author, chap. ii. 10, &c. lays before us the contents of the book.

Scripture. David, as it is related in the books of Samuel. Since the genealogy which it contains descends to David, it must have been written after the birth of that prince, but not at any confiderable time after it; for the hiflory of Boaz and Ruth, the great-grandfather and great-grandmother of David, could not be remembered above two or three generations. As the elder brothers of David and their fons are omitted, and none of his own children are mentioned in the genealogy, it is evident that the book was composed in honour of the Hebrew monarch, after he was anointed king by Samuel, and before any of his children were born; and confequently in the reign of Saul. The Jews afcribe it to Samuel; and indeed there is no person of that age to whom it may be attributed with more propriety. We are informed (1 Sam. x. 25.) that Samuel was a writer, and are affured that no perion in the reign of Saul was fo well acquainted with the splendid prospects of David as the prophet Samuel.

The Greeks denominate the books of Samuel, which follow next in order. The Books of Kingdoms; and the Latins, The Books of Kings I. and II. Anciently there were but two books of Kings; the first was the two books of Samuel, and the fecond was what we now call the two books of Kings. According to the prefent division, these two books are four, viz. the first and second books of Santuel, and the first and second books

of Kings.

Concerning the author of the two books of Samuel there are different opinions. Some think that Samuel wrote only twenty or twenty-four chapters of the first book, and that the history was continued by Nathan and Gad. This opinion they ground on the following passage in Chronicles t, " Now the acts of David the king, first and last, behold they are written in the book of Samuel the feer, and in the book of Nathan the prophe:, and Gad the feer." Others think they were compiled by Ezra from ancient records; but it is evibooks of Kings and Chronicles; for on comparison it will be found, that in the last mentioned books many circumstances are taken from the former. The first book carries down the history of the Ifraelites from the birth of Samuel to the fatal battle of Gilboa, comprehending a period of about 80 years. The fecond relates the history of David from his fuccession to the throne of Ifrael till within a year or two of his death, containing 40 years. There are two beautiful paffages in thefe books which every man of fentiment and tafte must feel and admire, the lamentation or elegy on Saul and Jonathan, and the parable of Nathan. The impartiality of the historian is fully attested by the can-David are related. There are fome remarks intersper-

When the two books of Kings were written, or by Supposed that David, Simon, and Hezekiah, wrote the billory of their own times. Others have been of opinion that the prophets, viz. Ifaiah, Jeremich, Gad, and Nathan, each of them we te the history of the reign in which he lived. Boo it is generally believed that Exra wrote those two books, and published there in the form in which we have them at prefent. There can be no doubt that the prophets drew up the lives of the kings

who reigned in their times; for the names and writings Scripture, of those prophets are frequently mentioned, and cited. " Still, however, it is evident that the two books of Kings are but an abridgement of a larger work, the fubftance of which is contained in the books before us. In funport of the opinion that Ezra is the author of these books, it is faid, That in the time of the penman, the ten tribes were captives in Affyria, whither they had been carried as a punishment for their fins : That in the fecond of these books the author makes some reflections on the calamities of Ifrael and Judah, which demonfirate that he lived after that event. But to this it is objected. That the author of these books expresses himself throughout as a cotemporary, and as one would have done who had been an eye and ear witness of what he related. To this objection it is answered, That Ezra compiled these books from the prophetic writings which he had in his possession; that he copied them exactly, narrating the facts in order as they happened, and interspersed in his history some reflections and remarks arising from the subjects which he hand-

The first book comprises a period of 126 years, from the death of David to that of Jehoshaphat. The second book records the transactions of many kings of Judah and Ifrael for about 300 years, from the death of Jehoshaphat to the destruction of Jerusalem and the temple,

A. M. 3416, A. C. 583.

The Hebrews style the two books of Chronicles De- Of Chroberi Imim &, i. e. Words of days, journals or diaries, in nicles. allusion to those ancient journals which appear to have foro been kept among the Jews. The Greeks call them '7=7' Paralipomena \*, which fignifies things omitted; as if \* \* \*agantife thele two books were a kind of supplement to inform some us what had been omitted or too much abridged in the books of Kings. The two books of Chronicles contain indeed feveral particulars which are not to be met with in the other books of scripture: but it is not therefore to be supposed that they are the records of the kings of Judah and Ifrael, fo often referred to in the books of Kings. Those ancient registers were apparently much more copious than the books before us; and the compiler of the books of Chronicles often refers to, and

makes long extracts from, them. Some suppose that the author of these two books was the fame with that of the two books of Kings. The Jews fay that they were written by Ezra, after the return from the captivity, affifted by Zechariah and Haggai, who were then alive. But events are mentioned in them of so late a date as to show that he could not have written them in their prefent form; and there is another objection to his being their author, which is little lefs forcible; between the books of Kings and Chronicles there are numerous variations both in dates and facts, which could not have happened if Ezra had been the author of them, or indeed it they had been the work

additions, but as books written with a particular view; which feems to have been to furnish a genealogical regiceffary to discriminate the mixed multitude which returned from Babylon; to afcertain the lineage of Ju-

books of

ž r Chran. Wais. 25.

Of Kugs.

S. ... dah; and to re-establish on their ancient footing the pretentions and functions of each individual tribe.

The book of Ezra, and also that of Nehemiah, are attributed by the ancients to the former of these prophets; and they called them the 1it and 2d books of Efdras; which title is till kept up by the Latin church. It is indeed highly probable that the former of these books, which compriles the hiftory of the Jews from the time that Cyrus made the decree for their return until was about 100 years, or as others think 79 years), was all composed by Ezra, except the first fix chapters, which contain an account of the first return of the Jews on the decree of Cyrus; whereas Ezra did not return till the time of Artaxerxes. It is of this fecond return therefore that he writes the account; and adding it to the other, which he found composed to his hand, he made it a complete history of the Jewish refluration.

This book is written in Chaldee from chap. iv. 8. to chap. vii. 27. As this part of the works chi fly contains letters, converfations, and decrees expressed in that language, the fidelity of the historian has probably induced him to take down the very words which were used. The people, too, had been accustomed to the Chaldee during the captivity, and probably understood it be ter than Hebrew; for it appears from Nehemiah's account, chap. viii. 2, 8, that all could not understand

The bo k

The book of Nehemiah, as has been already observed, bears, in the Latin bibles, the title of the fecond book of Eldras; the ancient canons likewife give it the fame name, because, perhaps, it was considered as a fequel to the book of Ezra. In the Hebrew bibles it has the name of Nehemiah prefixed to it; which name is retained in the English bible. But though that chief is by the writer of the fecond book of Maccabces affirmed to have been the author of it, there cannot, we think, be a doubt, either that it was written at a later period, or had additions made to it after Nehemiah's

With the book of Nehemiah the history of the Old Testament concludes. This is supposed to have taken place about A. M. 3574, A. C. 434. But Prideaux with more probability has fixed it at A. M. 3595. Bee Scripture

It is uncertain who was the author of the book of of Fuher Either, Clement of Alexandria, and many commentaturs, have alcribed it to Mordecai; and the book itself feems to favour this opinion; for we are told in chap, ix. 20. that " Mordecai wrote thefe things." Others probable opinion of the Talmuditts is, that the great fynagogue (fee SYNAGOGUE), to perpetunte the memory of the deliverance of the Jews from the confirm cy of Haman, and to account for the origin of the feat of Purim, ordered this book to be compoled, very likely of materials left by Mordecai, and afterwards approved and admitted it into the facred canon. The time when the events which it relates happened, is supposed by fome to have been in the reign of Artaxerxes Longimanus, and by others in that of Darius the fon of Hystafpes, called by the facred penman Anafuerus.

Concerning the author of the book of Job there are Of Job, many different opinions. Some have supposed that Job himself wrote it in Syriac or Arabic, and that it was afterwards translated by Moses. Others have thought that Elihu wrote it; and by others it is ascribed to Mofes, to Solomon, to Ifaish, and to Ezra. To give even an abridgement of the arguments brought in fupport of these various opinions would fill a volume, and at last leave the reader in his present uncertainty. He who has leifure and inclination to weigh them may fludy the fecond fection of the fixth book of Warburton's Divine Legation of Moles, together with the feveral works there referred to; but the question at iffue is of very little importance to us. The book of Job. by whomfoever it was written, and whether it be a real history, or a dramatical poem founded on history, has been always efteemed a portion of canonical fcripture, and is one of the most sublime compositions in the facred

The book of Job appears to stand single and unparalleled in the facred volume. It feems to have little connection with the other writings of the Hebrews, and no relation whatever to the affairs of the Ifraelites, The scene is laid in Idumæa (H); the history of an in-

(n) "The information which the learned have endeavoured to collect from the writings and geography of the Greeks concerning the country and refidence of Job and his friends, appears to me (fays Dr Lowth) to very inconclusive, that I am inclined to take a quite different method for the folution of this question, by applying folcly to the Sacred Writings: the hints with which they have furnished me towards the illustration of this subject. I shall explain as briefly as possible.

"The land of Uz, or Gnutz, is evidently Idunaa, as appears from Lam. iv. 21. Uz was the grandfon of Seir the Horite, Gen. xxxvi. 20, 21, 28. 1 Chron. i. 38, 42. Seir inhabited that mountainous tract which was called by his name antecedent to the time of Abraham; but his pofferity being expelled, it was occupied by the Idumæans: Gen. xiv. 6. Deut. ii. 12. Two other men are mentioned of the name Uz; one the grandfon of Shem, the other the fun of Nachor, the brother of Ab al .m ; but whether any diffrict was called after their name is not clear. Idumen is a part of Arabia Petroa, fituated on the fouthern extremity of the tribe of Judah; Numb, xxxiv. 3. Josh. xv. 1, 21. The land of Uz therefore appears to have been between Egypt and Philistia, Jer. xxv. 20. where the order of the places feems to have Leen accurately observed in reviewing the different nations from Egypt to Babylon; and the same people seem a ain to be described in exactly the same situations, Jer, xlvi,-1.

" Children of the East, or Eastern people, feem to have been the general appellation for that min led race of people (as they are called, Jer. xxv. 20.) who inha ided between Egypt and the Euphrates, bordering upon Judea from the fourth to the east; the Idumeans, the Amalekites, the Midiante, the Mobites, the Ammonites. See Judges vi. 3. and Ifa. xi. 14. Of these the Idumanns and Amalekites certainly possessed the southern parts. See Numb. xxxiv. 3. xiii. 29. 1 Sam. xxvii. 8, 10. This appears to be the true flate of the cafe: The whole region be-

Scripture. habitant of that country is the basis of the narrative; the characters who speak are Idumeans, or at least Arabians of the adjacent country, all originally of the race of Abraham. The language is pure Hebrew, although the author appears to be an Idumean; for it is not improbable that all the posterity of Abraham, Israelies, Idumeans, and Arabians, whether of the family of Keturah or Ishmed, spoke for a considerable length of time

improbable that all the pofterity of Abraham, Ifraelites,
Idomeans, and Arabians, whether of the family of Keturah or Ilhmeal, fpoke for a confiderable length of time
one common language. That the Idomeans, however,
and the Temanites in particular, were eminent for the
reputation of wildom, appears by the tellimony of the
property of the property

pounders) of fables, and fearchers out of understand- Scripture.

The principal personage in this poem is Job; and in I Barach his character is meant to be exhibited (as far as is con. iii. 22, 23 shirth with human infirmity) an example of persect The avirtue. This is intimated in the argument or intro-racter of duction, but is fill more eminently displayed by his Job. own actions and sentiments. He is holy, devout, and most piously and reverently impressed with the facred

most piouny and reverently imprehed with the facred awa of his divine Creator; he is also upright, and conlcious of his own integrity; he is patient of evil, and yet very remote from that infentibility or rather flupidity to which the Stoic school pretended. Opprefiled therefore

tween Egypt and Euphrates was called the Eafl, at first in respect to Egypt (where the learned Jos. Mede thinks the Israelites acquired this mode of speaking. Mede's Works, p. 380.3), and afterwards absolutely and without any relation to fituation or circumstances. Abraham is said to have lent the sons of his concubines, Heggar and Keturah, "eastward, to the country which is commonly called the East," Gen. xxv. 6. where the name of the region seems to have been derived from the same fituation. Solomon is reported "to have excelled in wisdom all the Eastern people, and all Egypt," I kings iv. 30.; that is, all the neighbouring people on that quarter: for there were people beyond the boundaries of Egypt, and bordering on the south of Judea, who were famous for wisdom, namely, the Idumæans (see Jer. xlix. 7. Ob. 8.), to whom we may well believe this pessage that the come relation. Thus Jebovah addreste the Babylonians; "A rife, ascend unto Kedar, and lay waste the children of the East," (Jer. xlix. 28). notwithstanding these were really situated to the west of Babylon. Although Job, therefore, be accounted one of the orientals, it by no means follows that his residence must be in Arabia Deferta.

"Eliphaz the Temanite was the son of Esau, and Teman the son of Eliphaz, (Gen. xxxvi. 10, 11.). The Eliphaz of Job was without a doubt of this race. Teman is certainly a city of Idumaa, (Jer. xlix. 7, 20. Ezek. xxv.

13. Amos i. 11, 12. Ob. 8, 9.).

"Bildad the Shuhite: Shuah was one of the fons of Abraham by Keturah, whose posterity were numbered among the people of the East, and his fituation was probably contiguous to that of his brother Midian, and of his nephews Shebah and Dedan, (see Gen. xxv. 2, and 3). Dedan is a city of Idumna (ser. xix. 8), and Gems to have been situated on the eastern fide, as Teman was on the west, (Ezek. xxv. 13.). From Sheba originated the Sabæans in the passage from Arabia Felix to the Red Sea: Sheba is united to Midian (ss. 6.); it is in the same region bowever with Midian, and not far from Mount Horeb, (Exod. ii. 15, iii. 1.).

"Zophar the Naamathite: among the cities which by lot fell to the tribe of Judah, in the neighbourhood of Idumaea, Naama is enumerated, (Josh. xv. 21, 41.). Nor does this name elsewhere occur; this probably was the

country of Zophar.

"Ethia the Busile: Buz occurs but once as the name of a place or country (Ier, xxv. 23.), where it is mentioned along with Dedan and Thema: Dedan, a was juft now demonstrated, is a city of Idumest; Thema belonged to the children of Ithmael, who are faid to have inhabited from Havilah, even to Shur, which is in the diffrict of Egypt, (Gen. xxv. 15. Als.). Saul, however, is faid to have fmitten the Amalekites from Havilah even to Shur, which is in the diffrict of Egypt, (I Sam. xv. 7.). Havilah cannot, therefore, be very far from the boundaries of the Amalekites; but the Amalekites never exceeded the boundaries of Arabia Petrae. (See Reland Palæffin, lib. i. c. 14.). Thema, therefore, lay fomewhere between Havilah and the defert of Shur, to the fouther

ward of Judea. Thema is also mentioned in connection with Sheba, (Job vi. 19.).

"Upon a fair review of these facts, I think we may venture to conclude, still with that modesty which such a question demands, that Job was an inhabitant of Arabia Petræa, as well as his friends, or at least of that neighbourhood. To this folution one objection may be raifed: it may be asked, How the Chaldeans, who lived on the borders of the Euphrates, could make depredations on the camels of Job, who lived in Idumæa at so great a diffance? This too is thought a fufficient cause for affigning Job a situation in Arabia Deserta, and not far from the Euphrates. But what flould prevent the Chaldeans, as well as the Sabeans, a people addicted to rapine, and roving about at immense distances for the sake of plunder, from wandering through these defenceless regions, which were divided into tribes and families rather than into nations, and pervading from Euphrates even to Egypt Further, I would ask on the other hand, whether it be probable that all the friends of Job who lived in Idumaca and its neighbourhood, should instantly be informed of all that could happen to Job in the desert of Arabia and on the confines of Chaldea, and immediately repair thither? Or whether it be reasonable to think, that, some of them being inhabitants of Arabia Deferta, it should be concerted among them to meet at the residence of Job; fince it is evident, that Elinhaz lived at Theman, in the extreme parts of Idumea? With respect to the Aistas of Ptolemy (for fo it er, and not Aufitas) it has no agreement, not so much as in a single letter, with the Hebrew Gnutz T) 'XX indeed call that country by the name Aufitida, but they deferibe it as fituated in Idumæa; and they a count Job himself an Idumcan, and a delcendant of Esau." See the Appendix of the LXX to the book of Job, and Hyde Not. in Peritwol, chap. xi. Lowth on Hebrew Poetry.

milery, and even wishes a release by death; in other words, he obeys and gives place to the dictates of nature. Irritated, however, by the unjust infinuations and the fevere reproaches of his pretended friends, he is more vehemently exasperated, and a too great confidence in his own righteoufness leads him to expostulate with God in terms scarcely consistent with piety and

ffrict decorum. It muit be observed, that the first speech of Job, though it burits forth with all the vehemence of paffion, conflits wholly of complaint, "the words and fenti-\* Job. vi. ments of a despairing person, empty as the wind \*;" which is indeed the apology that he immediately makes for his conduct; intimating, that he is far from prefaming to plead with God, far from daring to call in question the divine decrees, or even to mention his own innocence in the presence of his all-just Creator : nor is there any good reason for the censure which has been passed by some commentators on this passage. The poet feems, with great judgement and ingenuity, to have performed in this what the nature of his work required. He has depicted the affliction and anguish of Job, as flowing from his wounded heart in a manner fo agreeable to human nature (and certainly fo far venial), that it may be truly faid, " in all this Job finned not with his lips." It is, nevertheless, embellished by such affeeting imagery, and inspired with such a warmth and force of fentiment, that we find it afforded ample scope for calumny; nor did the unkind witnesses of his fufferings permit fo fair an opportunity to escape. The occasion is eagerly embraced by Eliphaz to rebuke the impatience of Job; and, not fatisfied with this, he proceeds to accuse him in direct terms of wanting fortitude, and obliquely to infinuate fomething of a deeper dve. Though deeply hurt with the coarse reproaches of Eliphaz, fill, however, when Job afterwards complains of the feverity of God, he cautiously refrains from violent expostulations with his Creator, and, contented with the simple expression of affliction, he humbly con-+ See chap fesses himself a sinner +. Hence it is evident, that those vehement and perverse attestations of his innocence, those murmurs against the divine Providence, which his tottering virtue afterwards permits, are to be confidered merely as the confequences of momentary passion, and not as the ordinary effects of his fettled character or manners. They prove him at the very worst not an irreligious man, but a man poffeffed of integrity, and too confident of it; a man oppressed with almost every imaginable evil, both corporal and mental, and hurried beyond the limits of virtue by the strong influence of pain and affliction. When, on the contrary, his importunate vifitors abandon by filence the cause which they had fo wantonly and fo maliciously maintained, and cease unjustly to load him with unmerited criminations; though he defends his argument with scarcely less obstinacy, yet the vehemence of his grief appears gradually to fubfide, he returns to himfelf, and explains his fentiments with more candour and fedateness: and however we may blame him for assuming rather too much arrogance in his appeals to the Almighty, certainly his defence against the accusations of Eliphaz is no more than the occasion will strictly justify. Observe, in the first place, how admirably the confidence and perfeverance

Scripture, therefore with unparalleled misfortunes, he laments his of Job is displayed in replying to the slander of his false Scripture. friends : His confi-As God liveth, who hath removed my judgement;

Nay, as the Almighty liveth, who hath imbittered my dence and foul; rance. Verily as long as I have life in me,

And the breath of God is in my noftrils; My lips shall not speak perversity, Neither shall my tongue whisper prevarication. God forbid that I should declare you righteous! Till I expire I will not remove my integrity from me.

I have fortified myself in my righteousness, And I will not give up my station : My heart shall not upbraid me as long as I live. May mine enemy be as the impious man,

And he that rifeth up against me as the wicked \*. But how magnificent, how noble, how inviting and beautiful is that image of virtue in which he delineates his past life! What dignity and authority does he seem to poffels!

If I came out to the gate, nigh the place of public re-

If I took up my feat in the ffreet; The young men faw me, and they kid themselves; Nay, the very old men rofe up and itood. The princes refrained talking, Nay, they laid their hands on their mouths. The nobles held their peace,

And their tongue cleaved to the roof of their mouth +. + Chap. What liberality! what a promptitude in beneficence! wix.7-12.

Because the ear heard, therefore it bleffed me; The eye also faw, therefore it bare testimony for me. That I delivered the poor who cried, The orphan alfo, and him who had no helper. The bleffing of him who was ready to perish came upon

And I caused the heart of the widow to sing for joy #. # Chap. What fanctity, what integrity in a judicial capacity ! 13.

I put on righteousness, and it clothed me like a robe; My justice also was a diadem.

I was a father to the poor, And the controverfy which I knew not, I fearched it

Then brake I the grinders of the oppressor, And I plucked the prey out of his teeth 6.

6 Chat. xxix. 14.

But what can be more engaging than the purity of his 16. 17. devotion, and his reverence for the Supreme Being, founded on the best and most philosophical principles? Befides that through the whole there runs a strain of the most amiable tenderness and humanity:

For what is the portion which God distributeth from

And the inheritance of the Almighty from on high? Is it not destruction to the wicked,

And banishment from their country to the doers of ini-

Doth he not fee my ways? And numbereth he not all my steps? If I should despile the cause of my servant,

Scripture. Or my maid, when they had a controverfy with me, What then should I do when God ariseth,

And when he visiteth, what answer could I make him? + Chap. Did not he who formed me in the belly form him, XXXI. 2-4. And did not one fashion us in the womb +?

The three friends are exactly fuch characters as the of his three nature of the pocm required. They are fevere, irritable, malignant cenfors, readily and with apparent fatisfaction deviating from the purpole of confolation into reproof and contumely. Even from the very first they manifest this evil propenfity, and indicate what is to be expected from them. The first of them, indeed, in the opening of his harangue, assumes an air of candour :

> Wouldst thou take it unkindly that one should essay to fpeak to thee 1?

The second flames forth at once :

How long wilt thou trifle in this manner? How long shall the words of thy mouth be as a mighty

But remark the third :

Shall not the mafter of words be answered? Or shall a man be acquitted for his fine speeches? Shall thy prevarications make men filent?

Shall thou even fcoff, and there be no one to make thee ashamed \*?

The lenity and moderation of Elihu ferves as a beautiful contrast to the intemperance and asperity of the other three. He is pious, mild, and equitable; equally free from adulation and feverity; and endued with fingular wifdom, which he attributes entirely to the inspiration of God: and his modesty, moderation, and wifdom, are the more entitled to commendation when we consider his unripe youth. As the characters of his detractors were in all respects calculated to inflame the mind of Job, that of this arbitrator is admirably adapted to foothe and compose it: to this point the whole drift of the argument tends, and on this the very purport of it feems to depend.

Another circumstance deserving particular attention in a poem of this kind, is the fentiment; which must be agreeable to the fubject, and embellished with proper expression. It is by Aristotle enumerated among the effentials of a dramatic poem; not indeed as peculiar to that species of poetry alone, but as common, and of the greatest importance, to all. Manners or character are effential only to that poetry in which living persons are introduced; and all fuch poems must afford an exact representation of human manners : but sentiment is effential to every poem, indeed to every composition whatever. It respects both persons and things. As far as it regards persons, it is particularly concerned in the delineation of the manners and passions : and those instances to which we have just been adverting are fentiments expressive of manners. Those which relate to the delineation of the passions, and to the description of other sub-

The peem of Job abounds chiefly in the more vehement passions, grief and anger, indignation and violent

contention. It is adapted in every refrect to the in- Scripture. citement of terror; and, as the specimens already quoted will fufficiently prove, is univerfally animated with Septiments the true spirit of sublimity. It is, however, not wanting of the in the gentler passions. The following complaints, for poem of inflance, are replete with an affecting spirit of melan-Job. choly:

Man, the offspring of a woman, Is of few days, and full of inquietude : He springeth up, and is cut off like a flower; He flee-eth like a shadow, and doth not abide : On fuch a creature dost thou open thine eyes? And wilt thou bring me even into judgement with thee? Turn thy look from him, that he may have fome re-

Till he shall, like a hireling, have completed his day +. + Chape The whole passage abounds with the most beautiful 3, 6,

imagery, and is a most perfect specimen of the Elegiac. His grief afterwards becomes more fervent; but is at

How long will ye vex my foul, And tire me with vain harangues? These ten times have ye loaded me with reproaches, Are ye not ashamed that ye are so obstinate against me? Pity me, O pity me, ye are my friends, For the hand of God hath smitten me. Why will ye be my perfecutors as well-as God, XIX. 2, 3, And therefore will ye not be fatisfied with my flesh 1? 21, 22.

The ardour and alacrity of the war-horfe, and his Its fublic eagerness for battle, are painted with a masterly hand : mits.

For eagerness and fury he devoureth the very ground: He believeth it not when he heareth the trumpet. When the trumpet foundeth, he faith, ahah ! Yea he fcenteth the battle from afar, The thunder of the chieftains and their shouts \*, \* Chan

The following fublime description of the creation is xxxix. 24, admirable:

Where wast thou when I laid the foundations of the earth?

If thou knowest, declare. Say, who fixed the proportions of it, for furely thou

knowest? Or who stretched out the line upon it? On what were its foundations fixed ?

Or who laid the corner-stone thereof? When the morning-stars sang together, And all the fons of God shouted for joy; When the fea was shut up with doors;

When it burst forth as an infant that cometh out of the womb;

When I placed the cloud for its robe, And thick darkness for its swadling-band; When I fixed my boundary against it, When I placed a bar and gates;

When I faid, Thus far flialt thou come, and not ad-

And here shall a stop be put to the pride of thy waves +, + Joh

Let it suffice to say, that the dignity of the style is antianswerable to that of the subject; its force and energy, to the greatness of those passions which it describes: and as this production excels all the other remains of

4 Chap.

friends.

# Chap.

Scripture, the Hebrew poetry in economy and arrangement, fo it vields to none in fublimity of flyle and in every grace and excellence of composition. Among the principal of these may be reckoned the accurate and perfectly poetical conformation of the fentences, which is indeed generally most observable in the most ancient of the poetical compositions of the Hebrews. Here, however, as is natural and proper in a poem of fo great length and fublimity, the writer's skill is displayed in the proper adjustment of the period, and in the accurate distribution of the members, rather than in the antithesis of words, or in any laboured adaptation of the parallel-

The book חהלים \* יםפר

different

author.

The word Pfalms is a Greek term, and fignifies Songs. The Hebrews call it Sepher Tehillin \*, that is, " the Book of Praifes;" and in the Gospel it is styled the Book of Pfalms. Great veneration has always been paid to this collection of divine longs. The Christian church has from the beginning made them a principal part of her holy fervices; and in the primitive times it was almost a general rule that every bishop, priest, and religious person, should have the platter by heart.

Many learned fathers, and not a few of the moderns, have maintained that David was the author of them all. Several are of a different opinion, and infift that David wrote only 72 of them; and that those without titles are to be afcribed to the authors of the preceding pfalms, whole names are affixed to them. These who suppose that David alone was the author, contend, that in the New Testament, and in the language of the church universal, they are expressly called the Pfalms of David. That David was the principal author of these hymns is univerfally acknowledged, and therefore the whole collection may properly enough go under his name; but that he wrote them all, is a palpable mittake. Nothing certain can be gathered from the titles of the plalms; for although unquestionably very ancient, vet authors are not agreed as to their authority, and they differ as much about their fignification. The Hebrew doctors generally agree that the 92d plalm was composed by Adam; an opinion which for many reasons we are not Written by inclined to adopt. There feems, however, to be no doubt that fome of them were written by Mofes; that Solomon was the author of the 40th; and that others were occasioned by events long potterior to the flourishing era of the kingdom of Judah. The 137th particularly is one of those which mentions the captivity of Ba-

> The following arrangement of the Pfa'ms, after a careful and judicious examination, has been adopted by

> 1. Eight Pfaims of which the date is uncertain, viz. 1, 4, 19, 81, 91, 110, 139, 145. The first of these was composed by David or Ezra, and was fung in the temple at the feaft of trumpets held in the beginning of the year and at the feast of tabernacles. The 81st is attributed to Afap's, and the 110th to David. The

fecution of Saul. There are feventeen, 11, 31, 34,

56, 16, 54, 52, 109, 17, 22, 35, 57, 58, 142, 140, Scripture.

141, 7.3. The Pfalms composed by David at the beginning. of his reign, and after the death of Saul. These are fixteen, 2, 9, 24, 63, 101, 29, 20, 21, 28, 39, 40,

41, 6, 51, 32, 33.

4. The Pfalms written by David during the rebellion of Absalom are eight in number; 3, 4, 55, 62, 70,

71, 143, 144.

5. The Plalms written between the death of Abfalom and the captivity, which are ten, 18, 30, 72, 45, 78, 82, 83, 76, 74, 79: of these David wrote only

three; 18, 30, and 72. 6. The Pialms composed during the captivity, which

amount to forty. These were chiefly composed by the descendants of Asapla and Korah: they are 10, 12, 13, 14, 53, 15, 25, 26, 27, 28, 36, 37, 42, 43, 44, 49, 50, 60, 64, 69, 73, 75, 77, 80, 84, 86, 88, 89, 90, 92, 93, 94, 95, 99, 120, 121, 123, 130, 131, 132.

Lailly, Those hymns of joy and thanksgiving, written on the release from the Babylonish captivity, and at the building and dedication of the temple. Thefe are, 122, 61, 63, 124, 23, 87, 85, 46, 47, 48, from 96 to 117 inclusive, 126, 133 to 137 inclusive, 149, 150, 146, 147, 148, 59, 65, 66, 67, 118, 125, 127, 128, 129, 138 .- According to this distribution, only 45 are positively assigned to David.

Josephus, and most of the ancient writers, affert, that the Pfalms were composed in numbers; little, however, respecting the nature and principles of the Hebrew ver-

fification is known.

There existed a certain kind of poetry among the He-Observabrews, principally intended, it would appear, for the tions on the affittance of the memory; in which, when there was lit- Hebrew tle connection between the fentiments, a fort of order or poetry. method was preferved, by the initial letters of each line or flanza following the order of the alphabet. Of this there are feveral examples extant among the facred poems (1); and in these examples the verses are so exactly marked and defined, that it is impossible to mistake them for profe; and particularly if we attentively confider the verses, and compare them with one another, fince they are in general fo regularly accommodated, that word answers to word, and almost syllable to syllable. This being the cafe, though an appeal can fearcely be made to the ear on this occasion, the eye itfelf will diffinguish the poetic division and arrangement, and also that some labour and accuracy has been emploved in adapting the words to the measure.

The Hebrew poetry has likewife another property altogether peculiar to metrical composition. It admits foreign words and certain particles, which feldom occur in profe composition, and thus forms a distinct poetical dialect. One or two of the peculiarities also of the Hebrew verification it may be proper to remark, which as they are very observable in those poems in which the verses are defined by the initial letters, may at least be reasonably conjectured of the rest. The first of these is, that the veries are very unequal in length; the fhorteft confifting of fix or feven fyllables; the longest ex-

tending

<sup>(1)</sup> Pfalms xxv. xxxviv. xxxviv. cxii. cxii. cxiv. cxlv. Prov. xxxi, from the 10th verse to the end. The whole of the Lamentations of Jeremiah except the last chapter.

Seminare, tending to about twice that number : the fame poem is, however, generally continued throughout in verses not very unequal to each other. It must also be observed, that the close of the verse generally falls where the

members of the fentences are divided

But although nothing certain can be defined concerning the metre of the particular verses, there is vet another artifice of poetry to be remarked of them when in a collective state, when several of them are taken together. In the Hebrew poetry, as is formerly remarked, there may be observed a certain conformation of the fentences; the nature of which is, that a complete fenfe is almost equally insused into every component part, and that every member constitutes an entire verse. So that as the poems divide themselves in a manner spontaneoufly into periods, for the most part equal; so the periods themselves are divided into verses, most commonly couplets, though frequently of greater length. This is chiefly observable in those passages which frequently occur in the Hebrew poetry, in which they treat one subject in many different ways, and dwell on the same fentiment; when they express the same thing in different words, or different things in a fimilar form of words; when equals refer to equals, and opposites to opposites: and fince this artifice of composition feldom fails to produce even in profe an agreeable and meafured cadencewe can fearcely doubt that it must have imparted to their poetry, were we mafters of the verification, an exquisite degree of beauty and grace.

The elegant and ingenious Dr Lowth has with great acuteness examined the peculiarities of Hebrew poetry, and has arranged them under general divisions. The correspondence of one verse or line with another he calls parallelism. When a proposition is delivered, and a fecond is subjoined to it, equivalent or contrasted with it in fense, or similar to it in the form of grammatical construction, these he calls parallel lines; and the words or phrases answering one to another in the corresponding lines, parallel terms. Parallel lines he reduces to three forts; parallels fynonymous, parallels antithetic,

and parallels fynthetic. Of each of these we shall prefent a few examples.

First, of parallel lines synonymous, which correspond one to another by expressing the same sense in different

but equivalent terms.

zies of it-

O-Jehovah, in-thy-ftrength the-king shall-rejoice; And-in-thy-falvation how greatly fhall-he-exult The-defire of-his-heart thou-haft-granted unto-him ; And-the-request of-his-lips thou-hast-not denied.

Pf. xxi. 1. 2.

Because I-called, and-ve-refused; I-stretched-out my-hand, and-no-one regarded But-ye-have-defeated all my-counfel; And-would-not incline to-my-reproof: I-will-mock, when-what-you-feared cometh; When-what-you-feared cometh like-a-devastation; And-your-calamity advanceth like-a-tempest; When diffress and anguish come upon-you: Then thall-they-call upon-me, but-I-will-not answer; They-shall-seek-me-early, but-they-shall-not find-me : Because they-hated knowledge; And-did-not choose the-fear of-Jehovah; Did-not incline to-my-counsel: Contemptuously-rejected all my-reproof; Therefore-shall-they-eat of-the-fruit of-their-ways : And-shall-be-satiated with-their-own-devices. For the-defection of-the-fimple shall-slav-them : And-the-fecurity of-fools shall-destroy them. Prov. i. 24-32.

Seek-ye Jehovah, while-he-may-be-found; Call-ye-upon-him, while-he-is near; Let-the-wicked forfake his-way; And-the-unrighteous man his-thoughts: And-let-him-return to Jehovah, and-he-will compation-

And unto our-God, for he-aboundeth in-forgiveness (K). Isaiah lv. 6. 7.

These synonymous parallels sometimes confist of two. three, or more fynonymous terms. Sometimes they are formed by a repetition of part of the first sentence;

What shall I do unto thee, O Ephraim! What shall I do unto thee, O Judah ! For your goodness is as the morning cloud, And as the early dew it passeth away.

Hofea vi. 4.

The following is a beautiful instance of a parallel triplet, when three lines correspond and form a kind of stanza, of which two only are synonymous.

That day, let it become darkness: Let not God from above inquire after it; Nor let the flowing light radiate upon it. That night, let utter darkness seize it ; Let it not be united with the days of the year; Let it not come into the number of the months. Let the thars of its twilight be darkened; Let it look for light, and may there be none; And let it not behold the eyelids of the morning.

Job iii. 4, 6, 9.

The fecond fort of parallels are the antithetic, when two lines correspond with one another by an opposition of terms and fentiments; when the fecond is contrasted with the first, sometimes in expressions, sometimes in fense only. Accordingly the degrees of antithesis are various: from an exact contrapolition of word to word through the whole fentence, down to a general disparity, with fomething of a contrariety, in the two propositions. Thus in the following examples:

A wife fon rejoiceth his father ; But a foolith fon is the grief of his mother.

Prov. x. 1.

Where every word hath its opposite; for the terms father and mother are, as the logicians fay, relatively op-

The memory of the just is a bleffing; But the name of the wicked shall rot.

Prov. x. 7. Here to interrogative.

Scripture. Here there are only two antithetic terms: for memory

There is that scattereth, and still increaseth; And that is unreasonably sparing, yet groweth poor. Prov. xi. 24.

Here there is a kind of double antithefis; one between the two lines themselves; and likewise a subordinate opposition between the two parts of each.

These in chariots, and those in horses;
But we in the name of Jehovah our God will be strong.
They are bowed down, and fallen;

But we are rifen, and maintain ourselves firm.
Pf. xx. 7, 8.

For his wrath is but for a moment, his favour for life; Sorrow may lodge for the evening, but in the morning gladness. Pf. xxx. 5.

gladnefs. Pf. xxx. 5.
Yet a little while, and the wicked shall be no more;
Thou shalt look at his place, and he shall not be found:

But the meek shall inherit the land;

And delight themselves in abundant prosperity.

Pf. xxxvii. 10, 11.

In the last example the opposition lies between the two parts of a stanza of four lines, the latter distinct being opposed to the former. So likewise the following:

For the mountains shall be removed; And the hills shall be overthrown: But my kindness from thee shall not be removed; And the covenant of my peace shall not be overthrown. Isolah liv. 10.

Ifaiah by means of the antithetic parallelifm, without departing from his ufual dignity, adds greatly to the fweetness of his composition in the following inflances:

In a little anger have I forfaken thee; But with great mercies will I receive thee again: In a fhort wrath I hid my face for a moment from thee; But with everlating kindnefs will I have mercy on thee. I faish liv. 7, 8.

Behold my fervants shall eat, but ye shall be famished; Behold my fervants shall drink, but ye shall be thirsty; Behold my fervants shall rejoice, but ye shall be confounded;

Behold my fervants shall fing aloud, for gladness of heart.

But ye shall cry aloud for grief of heart; And in the anguish of a broken spirit shall ye howl. Isaiah lxv. 13, 14.

Frequently one line or member contains two fentiments:

The nations raged; the kingdoms were moved; He uttered a voice; the earth was diffolved: Be fill, and know that I am God: I will be exalted in the nations, I will be exalted in the earth.

When thou paffest through waters I am with thee; And through rivers, they shall not overwhelm thee: When thou walkest in the fire thou shalt not be scorched; And the same shall not cleave to thee.

faiah xlii. 2.

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The third fort of parallels is the fynthetic or con-Supruse. Intuitive: where the parallels in confits only in the firmlar form of confinuction; in which word does not answer to word, and fentence to fentence, as equivalent or opposite; but there is a correspondence and equality between different propositions, in respect of the shape and turn of the whole fentence, and of the con-further

parts; fuch as noun answering to noun, verb to verb,

member to member, negative to negative, interrogative

Lo! he withholdeth the waters, and they are dried up. And he fendeth them forth, and they overturn the earth. With him is strength, and perfect existence; The deceived, and the deceiver, are his.

Job xii, 13-16.

Is fuch then the faft which I choofe?
That a man Mould afflich his foul for a day?
Is it, that he fhould bow down his head like a bulrofh,
And fpread fackcloth and afhes for his couch?
Shall this be called a faft,
And a day acceptable to Jehovah?
Is not this the fait that I choofe?
To diffolive the bands of wickednefs;
To loofen the oppreffice outdens;
To deliver thof, that are crufhed by violence,
And that we floud breisk afunder every voke.

We shall produce another example of this species of parallelism from Ps. xix. 8-11, from Dr Lowth:

The law of Jehovah is perfect, reftoring the foul; The testimony of Jehovah is sure, making wife the simple:

The precepts of Jehovah are right, rejoicing the heart; The commandment of Jehovah is clear, enlightening the eyes:

The fear of Jehovah is pure, enduring for ever;
The judgements of Jehovah are truth, they are just altogether.

More defirable than gold, or than much fine gold;
And fweeter than honey, or the dropping of honeycombs.

Synonymous parallels have the appearance of art and concinnity, and a fludied elegance; they chiefly prevail in fluorer poems; in many of the Palians; in Balaam's prophecies, frequently in those of Isaiah, which are most of them chilinel poems of no great length. The antithetic parallelism gives an acuteness and force to adages and moral fentences; and therefore abounds in Solomon's Proverbs, and elsewhere is not often to be met with. The poem of Job, being on a large scale and in a high tragic style, though very exact in the division of the lines and in the parallelism, and stording many fire examples of the synonymous Lind, confillation.

Scripture, chiefly of the constructive. A happy mixture of the leveral forts gives an agreeable variety; and they mutually ferve to recommend and let off one another.

> The reader will perceive that we have derived every thing we have faid relating to Hebrew poetry from the elegant Lectures of Dr Lowth, which are beautifully translated by Mr Gregory, a distinguished author as well

as translator.

The book

The book of Proverbs has always been accounted canonical. The Hebrew title of it is Mifbli\*, which fignifics "fimilitudes." It has always been afcribed to Solomon, whole name it bears, though fome have doubted whether he really was the author of every one of the maxims which it contains. Those in chap, xxx, are indeed called the swords of Agur the fon of Jakeh, and the title of the 31st or last chapter is the words of King Lemuel. It feems certain that the collection called the Proverbs of Solomon was digested in the order in which we now have it by different hands; but it is not, therefore, to be concluded that they are not the work of Solomon. Several perfons might have made collections of them : Hezekiah, among others, as mentioned chapter xxv. Agur and Ezra might have done the same. From these several collections the work was compiled which we have now in our hands.

The book of Proverbs may be confidered under five divisions. 1. The first, which is a kind of preface, extends to the 10th chapter. This contains general cautions and exhortations from a teacher to his pupil, expreffed in elegant language, duly connected in its parts, illustrated with beautiful description, and well contrived

to engage and interest the attention.

2. The second part extends from the beginning of chap. x. to chap. xxii. 17. and confifts of what may firically and properly be called proverbs, viz. unconnected fentences, expressed with much nextness and simplicity. They are truly, to use the language of their sage author, " apples of gold in pictures of filver."

3. In the third part, which is included between chapter xxii. 16. and chapter xxv. the tutor drops the fententious style, addresses his pupil as present, and delivers

his advices in a connected manner.

4. The proverbs which are included between chapter xxv. and chapter xxx. are supposed to have been selected by the men of Hezekiah from some larger collection of Solomon, that is, by the prophets whom he employed to restore the service and writings of the church. Some of the proverbs which Solomon had introduced into the former part of the book are here repeated.

5. The prudent admonitions which Agur delivered to his pupils Ithiel and Ucal are contained in the 30th chapter, and in the 31st are recorded the precepts which the mother of Lemuel delivered to her fon.

Several references are evidently made to the book of

fition of diction and fentiment, Take the following ex-

\* Rom. xii. Proverbs by the writers of the New Testament \*.

16, 20. 1 Pet. sv The Proverbs of Solomon afford specimens of the didactic poetry of the Hebrews. They abound with antithetic parallels; for this form is peculiarly adapted Lames iv. to that kind of writing, to adages, aphorisms, and detached fentences. Indeed, the elegance, acuteness, and force of a great number of Solomon's wife fayings arife in a great measure from the antithetic form, the oppo-

amples:

The blows of a friend are faithful; But the kiffes of an enemy are treacherous. The cloved will trample on an honeycomb :

But to the hungry every bitter thing is fweet. There is who maketh himself rich, and wanteth all

Who maketh himself poor, yet hath much wealth,

The rich man is wife in his own eyes, + Proverbs But the poor man that hath discernment to trace him xxvii. 6, 7. out will defoife him +.

xiii. 7. XXVIII. IT.

Scripture,

The Hebrew title of the book which we call Eccle-Ecclenates, fiastes is Keleth, that is, the Gatherer or Collector; and it is so called, either because the work itself is a collection of maxims, or because it was delivered to an affembly gathered together to hear them. The Greek term Ecclesiasles is of the same import, fignifying one who gatkers together a congregation, or who discourses or preaches to an assembly convened. That Solomon was the author of this book is beyond all doubt; the beautiful description of the phenomena in the natural world, and their causes; of the circulation of the blood, i See Horas some think t, and the economy of the human fley's Serframe, shews it to be the work of a philosopher. At mon before what period of his life it was written may be eafily the Humane found out. The affecting account of the infirmities of Society.

old age which it contains, is a firong indication that the author knew by experience what they were; and his complete conviction of the vanity of all earthly enjoyments proves it to have been the work of a penitent. Some passages in it seem, indeed, to express an Epicurean notion of Providence. But it is to be observed, that the author, in an academic way, disputes on both fides of the question; and at last concludes properly, that to "fear God and keep his commandments is the whole duty of man; for God (fays he) will bring every work to judgement, and every fecret thing, whether it

be good, or whether it be evil."

The general tenor and style of Ecclesiastes is very different from the book of Proverbs, though there are many detached fentiments and proverbs interspersed. Logath's For the whole work is uniform, and confined to one Hebresu subject, namely, the vanity of the world exemplified by Poetry. the experience of Solomon, who is introduced in the character of a person investigating a very difficult question, examining the arguments on either fide, and at length difengaging himself from an anxious and doubtful difputation. It would be very difficult to diffinguish the parts and arrangement of this production; the order of the subject, and the connection of the arguments, are involved in fo much obscurity, that scarcely any two commentators have agreed concerning the plan of the work, and the accurate division of it into parts or sections. The truth is, the laws of methodical composition and arrangement were neither known by the Hebrews nor regarded in their didactic writings. They uniformly retained the old fententious manner, nor did they fubmit to method, even where the occasion appeared to demand it. The ftyle of this work is, however, fingular; the language is generally low; it is frequently loofe, unconnected, approaching to the incorrectness of conversation; and possesses very little of the poetical character, even in the composition and structure of the periods: which peculiarity may possibly be ac-

counted

scripture, counted for from the nature of the subject. Contrary to the opinion of the Rabbies, Ecclefiaftes has been classed among the poetical books; though, if their authority and opinions were of any weight or importance, they might perhaps on this occasion deserve some attention.

Song of Solomon.

The Song of Solomon, in the opinion of Dr Lowth, is an cpithalamium or nuptial dialogue, in which the principal characters are Solomon, his bride, and a chorus of virgins. Some are ot opinion that it is to be taken altogether in a literal fenle; but the generality of Jews and Christians have esteemed it wholly allegorical, expressing the union of Jesus Christ and the church. Dr Lowth has fupported the common opinion, by showing that the facred writers often apply metaphors to God and his people derived from the conjugal state. Our Saviour is styled a bridegroom by John the Baptist (John iii.), and is represented in the fame character in the parable of the ten virgins. Michaelis, on the other hand, rejects the argument drawn from analogy as inconclusive, and the opinion of Jews and Christians as of no greater authority than the opinion of the moderns.

The fecond of those great divisions under which the Jews classed the books of the Old Testament was that of the Prophets, which formerly comprehended 16

books.

The Prophets were 16 in number : Ifaiah, Jeremiah, Ezekiel, Daniel, Ho'ca, Joel, Amos, Obadiah, Jonah, Micah, Nahum, Habakkuk, Zephaniah, Haggai, Zechariah, Malachi. The first four are called the greater prophets; the other twelve are denominated the minor

Writings of The writings of the Prophets are to Christians the most interesting part of the O'd Testament; for they afford one of the most powerful arguments for the divine origin of the Christian religion. If we could only prove, therefore, that these prophecies were uttered a fingle century before the events took place to which they relate, their claim to infpiration would be unqueftionable. But we can prove that the interval between their enunciation and accomplishment extended much farther, even to 500 and 1000 years, and in some cases much more.

46 Their au-

The books of the prophets are mentioned by Jothenticity, fephus, and therefore furely existed in his time; they are also quoted by our Saviour, under the general denomination of the Prophets. We are informed by Tacitus and Suetonius, that about 60 years before the birth of our Saviour there was an univerfal expectation in the east of a great personage who was to arise; and the source of this expectation is traced by the same writers to the facred books of the Jews. They existed also in the time of Antiochus Epiphanes, A. C. 166; for when that tyrant prohibited the reading of the law, the books of the Prophets were substituted in its place, and were continued as a part of the daily fervice after the interdict against the law of Moses was taken off. We formerly remarked, that references are made by the author of Ecclefiallicus, A. C. 200, to the writings of Isaiah, Jeremiah, and Lz-kiel, and that he mentions the 12 Prophets. We can afcend ftill higher, and affert from the language of the Prophets, that all their writings must have been composed before the Balylonish captivity, or within a century after it; for all of them, cx-

cept Daniel and Ezra, are composed in Hebrew, and Scripture. even in them long passages are found in that language: but it is a weil-known fact, that all the books written by Jews about two centuries after that era are compofed in the Syriac, Chaldaic, or Greek language, " Let any man (lays Michaelis) compare what was written in Hebrew after the Babylouth exile, and, I apprehend, he will preceive no lefs evident marks of decay than in the Latin language." Even in the time of Ezra, the common people, from their long residence in Babylon, had forgotten the Hebrew, and it was necellary for the learned to interpret the law of Moles to them. We can therefore afcertain with very confiderable precision the date of the prophetic writings; which indeed is the only important point to be determined: For whether we can discover the authors or not, if we can only establish their ancient date, we shall be fully entitled to draw this conclusion, that the predictions of the Prophets are inspired.

Much has been written to explain the nature of in-andinfpra fpiration, and to show by what methods God imparted rationto the prophets that divine knowledge which they were commanded to publish to their countrymen. Attempts have been made to disclose the nature of dreams and visions, and to describe the ecstacy or rapture to which the prophets were supposed to be raised while they uttered their predictions. Not to mention the degrading and indecent comparison which this last circumftance fuggefts, we shally only inform those who expect here an explanation of the prophetic dreams and visions, that we shall not attempt to be wife above what is written. The manner in which the allwise and unscen God may think proper to operate upon the minds of his creatures, we might expect à priori to be mysterious and inexplicable. Indeed fuch an inquiry, though it were fuccessful, would only gratify curiofity, without being in the least degree conducive to useful know-

The bufiness of philosophy is not to inquire how almighty power produced the frame of nature, and beflowed upon it that beauty and grandeur which is everywhere conspicuous, but to discover those marks of intelligence and defign, and the various purpofes to which the works of nature are subservient. Philosophy has of late been directed to theology and the fludy of the Scriptures with the happiest effects; but it is not permitted to enter within the vail which the Lord of Nature has thrown over his councils. Its province, which is fufficiently extensive, is to examine the language of the rophecies, and to discover their application.

The character of the prophetic flyle varies according that offer to the genius, the education, and mode of living of the of their respective authors; and there are some peculiarities ity e sym. which run through the whole prophetic books. Aboucal. plain unadorned ftyle would not have fuited those men who were to wrap the mysteries of futurity in a veil, which was not to be penetrated till the events themselves should be accomplished. For it was never the intention of prophecy to unfold futurity to our view, as many of the rash interpreters of prophecy fondly imagive; for this would be inconfiftent with the free agency of man. It was therefore agreeable to the wifdom of God that prophecies should be couched in a lanperiod of their completion; yet fuch a language as is

S-ripture, diffinct, regular, and would be eafily explained when the events themselves should have taken place. This is precifely the character of the prophetic language. It is partly derived from the hieroglyphical fymbols of Egypt, to which the Ifraelites during their fervitude were familiarized, and partly from that analogy which fubfifts between natural objects and those which are moral and

Portowed

plics.

The prophets borrowed their imagery from the most splendid and sublime natural objects, from the host of heaven, from feas and mountains, from storms and earthquakes, and from the most striking revolutions in nature. The celestial bodies they used as symbols to express thrones and dignities, and those who enjoyed them. Earth was the fumbol for men of low estate. Hades represents the miserable. Ascending to heaven, and descending to earth, are phrases which express rising to power, or falling from it. Great earthquakes, the thaking of heaven and earth, denote the commotions and overthrow of kingdoms. The fun represents the whole race of kings shining with regal power and glory. The moon is the fymbol of the common people. The flars are subordinate princes and great men. Light denotes glory, truth, or knowledge. Darkness expresses obfcurity of condition, error, and ignorance. The darkening of the fun, the turning of the moon into blood, and the falting of the flars, fignify the destruction or desolation of a kingdom. New moons, the returning of a nation from a dispersed state. Conflagration of the earth, is the symbol for destruction by war. The afcent of smoke from any thing burning for ever, denotes the continuance of a people under flavery. Riding in the clouds, fignifies reigning over many subjects. Tempestuous winds, or motion of the clouds, denote wars. Thunder denotes the noise of multitudes. Fountains of waters express cities. Mountains and islands, cities with the territories belonging to them. Houses and ships stand for families, affemulies, and towns. A fireft is put for a kingdom. A wilderness for a nation much diminished in its num-

and from Animals, as a lion, bear, leopard, goat, are put for kingdoms or political communities corresponding to their respective characters. When a man or beast is put for a kinodom, the head represents those who govern; the tail those who are governed; the horns denote the number of military powers or flates that rife from the head. Seeing fignifies understanding; eyes men of understanding; the mouth denotes a lawgiver; the arm of a man is put for power, or for the people by whose strength his power is exercised; feet represent the

Such is the precision and regularity of the prophetic language, which we learn to interpret by comparing prophecies which are accomplished with the facts to which they correspond. So far is the study of it carried already, that a dictionary has been composed to explain it; and it is probable, that in a flort time it may be fo fully understood, that we shall find little difficulty in explaining any prophecy. But let us not from this expect, that the prophecies will enable us to penetrate the dark clouds of futurity : No! The diffi- Scripture. culty of applying prophecies to their corresponding events, before completion, will fill remain infurmountable. Those men, therefore, however pious and wellmeaning they may be, who attempt to explain and apply prophecies which are not yet accomplished, and who delude the credulous multitude by their own romantic conjectures, cannot be acquitted of raffiness and prefumption.

The predictions of the prophets, according to the Is also opinion of Dr Lowth, are written in a poetic ftyle, poetical. They possess indeed all the characteristics of Hebrew poetry, with the fingle exception, that none of them are alphabetical or acroffic, which is an artificial arrangement utterly repugnant to the nature of pro-

The other arguments, however, ought to be particularly adverted to on this subject : the poetic dialect, for inflance, the diction fo totally different from the language of common life, and other fimilar circumstances, which an attentive reader will easily discover, bot which cannot be explained by a few examples; for circumstances which, taken separately, appear but of fmall account, are in a united view frequently of the greatest importance. To these we may add the artisicial conformation of the fentences; which is a necesfary concomitant of metrical composition, the only one indeed which is now apparent, as it has always appeared

The order in which the books of the minor prophets are placed is not the fame in the Septuagint as in the Hebrew \*. According to the latter, they fland as in \* Chronoice our translation; but in the Greek, the feries is altered gy of the as to the first fix, to the following arrangement : Ho- Prophets. fea, Amos, Micah, Joel, Obadiah, Jonah. This change, however, is of no confequence, fince neither in the original, nor in the Septuagint, are they placed with exact regard to the time in which their facred authors re-

fpectively flourished.

The order in which they should stand, if chronologically arranged, is by Blair and others supposed to be as follows: Jonah, Amos, Hofeah, Micah, Nahum, Joel, Zephaniah, Habakkuk, Obadiah, Haggai, Zechariah, Malachi. And this order will be found to be generally confistent with the periods to which the Prophets will be respectively assigned in the following pages, except in the inflance of Joel, who probably flourished rather earlier than he is placed by these chronologists. The precise period of this prophet, however, cannot be afcertained; and fome disputes might be maintained concerning the priority of others also, when they were nearly contemporaries, as Amos and Hofea; and when the first prophecies of a later prophet were delivered at the fame time with, or previous to, those of a prophet who was called earlier to the facred office. The fellowing scheme, however, in which also the greater prophets will be introduced, may enable the reader more accurately to comprehend the actual and relative periods in which they feverally prophefied,

Scripture.

\* B\*fhop Newcome's Verfion of Minor Prophets, Preface, p. 43.

The PROPHETS in their supposed Order of Time, arranged according to Blair's Tables \* with but little variation.

	1		4					
	Before Christ.	Kings of Judah.	Kings of Ifrael.					
Jonah,	Between 856 and 784.		Jehu, and Jehoahaz, according to Lloyd; but Joafh and Jeroboam the Second according to Blair.					
Amos,	Between 810 and 785.	Uzziah, chap. i. 1.	Jeroboam the Second, chap. i. 1.					
Hofea,	Between 810 and 725.	Uzziah, Jotham, Ahaz, the third year of Hezekiah.	Jeroboam the Second, chap. i. 1.					
Isaiah,	Between 8 10 and 698.	Uzziah, Jotham, Ahaz, and Hezekiah, chap. i. 1. and perhaps Manasseh.						
Joel,	Between 810 and 660, or later.	Uzziah, or possibly Manas-						
Micah,	Between 758 and 699.	Jotham, Ahaz, and Heze- kiah, chap. i. 1.	Pekah and Hofea.					
Nahum,	Between 720 and 698.	Probably towards the close of Hezekiah's reign.						
Zephaniah,	Between 640 and 609.	In the reign of Josiah, chap.						
Jeremiah,	Between 628 and 586.	In the thirteenth year of Josiah.						
Habakkuk,	Between 612 and 598.	Probably in the reign of Jehoiakim.						
Daniel,	Between 606 and 534.	During all the Captivity.						
Obadiah,	Between 588 and 583.	Between the taking of Jeru- falem by Neouchadnezzar and the destruction of the Edomites by him.						
Ezekiel,	Between 595 and 536.	During part of the Capti- vity.						
Haggai,	About 520 to 518.	After the return from Baby- lon.						
Zechariah,	From 520 to 518, or longer.							
Malachi,	Between 436 and 397.							
4								

Serie Lure Ifaiah.

Harr's is supposed to have entered on the prophetic office in the last year of the reign of Uzziah, about 758 years before Christ: and it is certain that he lived to no 15th or 16th years of Hezekiah. This makes the least possible term of the duration of his prophetical office about 48 years. The Jews have a tradition that Itarah was put to death in the reign of Manaffelt, being fawn afunder with a wooden faw by the command of that tyrant : but when we recollect how much the traditions of the Jews were condemned by our Saviour, we will not be difpefed to give them much credit, The time of the delivery of lome of his prophecies is either expreisly marked, or fufficiently clear from the history to when they relate. The date of a few others may with some probability be deduced from internal marks; from expressions, descriptions, and circumstances interwoven.

Ifaiah, the first of the prophets both in order and Character dignity, abounds in such transcendant excellencies, that he may be properly faid to afford the most perfect model of the prophetic poetry. He is at once elegant and fublime, forcible and ornamented; he unites energy with copioninefs, and dignity with variety. In his fentiments there is uncommon elevation and majesty; in his imagery the utmost propriety, elegance, dignity, and diverfity; in his language uncommon beauty and energy; and, notwithstanding the obscurity of his subjects, a furprifing degree of clearness and simplicity. To these we may add, there is such sweetness in the poetical compofition of his fentences, whether it proceed from art or genius, that if the Hebrew poetry at present is possessed of any remains of its native grace and harmony, we shall chiefly find them in the writings of Isaiah: fo that the faving of Ezekiel may most justly be applied to this pro-

※ Frek. EXVIII. 12.

## Thou art the confirmed exemplar of measures, Full of wifdom, and perfect in beauty \*.

Ifaiah greatly excels too in all the graces of method, order, connection, and arrangement: though in afferting this we must not forget the nature of the prophetic impulse, which bears away the mind with irrelistible violence, and frequently in rapid transitions from near to remote objects, from human to divine; we must also be careful in remarking the limits of particular predictions, fince, as they are now extant, they are often improperly connected, without any marks of diferimination; which injudicious arrangement, on fome occasions, creates almost insuperable difficulties. It is, in fact, a body or collection of different prophecies, nearly allied to each other as to the fulject, which, for that reason, having a fort of connection, are not to be separated but with the utmost difficulty. The general subject is the restoration of the church. Its deliverance from captivity; the destruction of idolatry; the vindication of the divine power and truth; the confolation of the Iftheir incredulity, impiety, and rejection; the calling in of the Gentiles; the reftoration of the chofen people; the glory and felicity of the church in its perfect state; forth with a fushcient respect to order and method. If we read these passes with attention, and duly regard the nature and genius of the myffical allegory, at the same time remembering that all these points have been

frequently touched upon in other prophecies promulged Scripture. at different times, we thall neither find any irregularity in the arrangement of the whole, nor any want of order and connection as to matter or lentiment in the different parts. Dr Lowth effeems the whole book of Ifaiah to be poetical, a few paffages excepted, which, if brought together, would not at most exceed the bulk of five or

fix chapters. The 14th chapter of Isaiah is one of the most su-Unparallele blime odes in the Scripture, and contains one of theed sublinoblett personifications to be found in the records of mity or the 14th chap-

The prophet, after predicting the liberation of the ter. Jews from their fevere captivity in Babylon, and their refloration to their own country, introduces them as reciting a kind of triumphal fong upon the fall of the Babylonith monarch, replete with imagery, and with the most elegant and animated personifications. A sudden exclamation, expressive of their joy and admiration on the unexpected revolution in their affairs, and the destruction of their tyrants, forms the exordium of the poem. The earth itself triumphs with the inhabitants thereof; the fir-trees and the cedars of Lebanon (under which images the parabolic flyle frequently delineates the kings and princes of the Gentiles) exult with joy, and perfecute with contemptuous reproaches the humbled power of a ferocious enemy:

The whole earth is at reft, is quiet; they burft forth into a joyful shout :

Even the fir-trees rejoice over thee, the cedars of Le-

Since thou art fallen, no feller hath come up against us.

This is followed by a bold and animated perfonification of Hades, or the infernal regions:

Hades from beneath is moved because of thee, to meet thee at thy coming:

He rouseth for thee the mighty dead, all the great chiefs of the earth;

He maketh to rife up from their thrones all the kings of the nations.

Hades excites his inhabitants, the ghosts of princes, and the departed spirit of kings: they rife immediately from their feats, and proceed to make the monarch of Babylon; they infult and deride him, and comfort themfelves with the view of his calamity :

Art thou, even thou too, become weak as we? art thou made like unto us?

Is then thy pride brought down to the grave; the found of thy fprightly instruments?

Is the vermin become thy couch, and the earthworm thy covering ?

Again, the Jewish people are the speakers, in an exclamation after the manner of a funeral lamentation, which indeed the whole form of this composition exactly imitates. The remarkable fall of this powerful monarch is thus beautifully illustrated:

How art thou fallen from heaven, O Lucifer, fon of the morning !

Art cut down from earth, thou that didst subdue the nations !

Yet thou didft fay in thy heart, I will afcend the hea-Vens;

Scripture. Above the stars of God I will exait thy throne;

And I will fit upon the mount of the divine prefence, on the fides of the north:

I will afcend above the heights of the clouds; I will be like the most High.

But thou shalt be brought down to the grave, to the fides of the pit.

He himself is at length brought upon the stage, boasting in the most pompous terms of his own power; which furnishes the poet with an excellent opportunity of displaying the unparalleled mifery of his downfal. Some persons are introduced, who find the dead carcase of the king of Babylon cast out and exposed; they attentively contemplate it, and at last scarcely know it to be him.

Is this the man that made the earth to tremble, that

That made the world like a defert, that destroyed the

That never difmiffed his captives to their own home?

All the kings of the nations, all of them,

Lie down in glory, each in his fepulchre: But thou art cast out of the grave, as the tree abomi-

nated: Clothed with the flain, with the pierced by the fword, With them that go down to the stones of the pit; as a

trodden carcafe.

Thou shalt not be joined to them in burial;

Because thou hast destroyed thy country, thou hast slain

thy people:
The feed of evil doers shall never be renowned.

They reproach him with being denied the common

rites of sepulture, on account of the cruelty and atrocity Scripture.

of his conduct; they execrate his name, his offspring, and

their polyntia.

of his conduct; they exectate his name, his orispring, and their potterity. A folenm addrefs, so of the Dity himfelf, clofes the feene, and he denounces againft the king of Babylon, his pofferity, and even againft the city which was the feene of their cruelty, perpetual defiruction, and confirms the immutability of his own counfels by the folenmity of an oath.

How forcible is this imagery, how diverlified, how fublime! how elevated the diction, the figures, the fentiments !- The Jewish nation, the cedars of Lebanon, the ghoils of departed kings, the Babylonish monarch, the travellers who find his corpfe, and last of all Jehovah himfelf, are the characters which support this beautiful lyric drama. One continued action is kept up, or rather a feries of interesting actions are connected together in an incomparable whole. This, indeed, is the principal and diffinguished excellence of the sublimer ode, and is displayed in its utmost perfection in this poem of Isaiah, which may be considered as one of the most ancient, and certainly the most finished, specimen of that species of composition which has been transmitted to us. The personifications here are frequent, yet not confused; bold, yet not improbable: a free, elevated, and truly divine spirit, pervades the whole; nor is there any thing wanting in this ode to defeat its claim to the character of perfect beauty and fublimity. " It (fays Dr Lowth) I may be indulged in the free declaration of my own fentiments on this occasion, I do not know a fingle instance in the whole compass of Greek and Roman poetry, which, in every excellence of composition, can be said to equal, or even approach

SCRIPTURE continued in next Volume.

## END OF THE EIGHTEENTH VOLUME.

ERRATUM.—Page 366, note at bottom, in forme copies, inglead of This was the name given to the palace of the Grand Duke, &cc. read as follows: The Kremlin, or Kreml, is a particular quarter of Molco, where stands the palace of the trans, first built of sone by Dimitri Ivanovitch Donki in 1367. See Mosco.

## DIRECTIONS FOR PLACING THE PLATES OF VOL. XVIII.

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