BCD Arithmetic (5A)

BCD Examples

```
Decimal: 9 1
Binary: 0000 1001 0000 0001
```

Decimal: 9 1 Binary: 1001 0001

Decimal: 1 2 3 4 5 Binary: 0000 0001 0010 0011 0100 0101

Copyright (c) 2011-2013 Young W. Lim.
Permission is granted to copy, distribute and/or modify this document under the terms of the GNU Free Documentation License, Version 1.2 or any later version published by the Free Software Foundation; with no Invariant Sections, no Front-Cover Texts, and no Back-Cover Texts. A copy of the license is included in the section entitled "GNU Free Documentation License".
Please send corrections (or suggestions) to youngwlim@hotmail.com.
This document was produced by using OpenOffice and Octave.

BCD Addition

```
1001 + 1000 = 10001
9 + 8 = 17
```

$$10001 + 0110 = 00010111 => 0001 0111$$
 $17 + 6 = 23$
 1
 7

BCD Subtraction

References

- [1] http://en.wikipedia.org/
- [2] M. M. Mano, C. R. Kime, "Logic and Computer Design Fundamentals", 4th ed.
- [3] M. M. Mano, M. D. Ciletti, "Digital Design", 5th ed.
- [4] D. M. Harris, S. L. Harris, "Digital Design and Computer Architecture"