Quiz

Answer the following items on sheet(s) of yellow paper. Do not write anything at the back of each sheet. Write your name and section on top of each sheet. **Show all solutions and box all final answers**. Deadline: **18 August 2015, 5pm.**

- 1. Perform the specified operations. Assume an 8-bit word size and operands in 2C notation. Express the answers in decimal.
 - (a) 0100 0010 + 1001 0001
 - (b) 1010 1010 + 0001 1000
 - (c) 0101 0100 + 0010 0111
 - (d) 1011 1011 + 1111 1110
 - (e) 0111 1011 0110 0101
 - (f) 0100 1001 1110 1011
 - (g) 1110 1111 1100 1011
- 2. Determine if the following operations would result to an overflow. Assume an 8-bit word size.
 - (a) 1100 0010 + 1101 0001
 - (b) 1010 1010 + 0101 1100
 - (c) 1101 0100 + 0010 0001
 - (d) 1011 1011 + 1111 1110
 - (e) 0111 1011 0111 0101
 - (f) 0101 1001 1101 1011
 - (g) 1111 1111 1001 1011
 - (h) $1100\ 0010_{2c} + 1101\ 0001_{2c}$
 - (i) 1010 1010 $_{2c}$ + 0101 1100 $_{2c}$
 - (j) 1101 0100 $_{2c}$ + 0010 0001 $_{2c}$
 - (k) 1011 1011 $_{2c}$ + 1111 1110 $_{2c}$
 - (l) $0111\ 1011_{2c}$ $0111\ 0101_{2c}$
 - (m) 0101 1001 $_{2c}$ 1101 1011 $_{2c}$