

CSCI 255 – Intro to Embedded Systems
Homework #1
Fall 2013

Due: **9/4/2013** at the beginning of class

SHOW YOUR WORK!!

1. Convert the following decimal values to binary using an 8-bit representation
 - a. 115
 - b. 45
 - c. 247
 - d. 97

2. Convert the following decimal values to octal values
 - a. 523
 - b. 65
 - c. 26
 - d. 226

3. Convert the following binary values to octal values
 - a. 10100010101
 - b. 00101001001
 - c. 00101101111
 - d. 01011101111

4. Convert the following binary values to hexadecimal values
 - a. 01001011110
 - b. 00111110100
 - c. 00111010101
 - d. 00011100001

5. Convert the following decimal values to binary, octal, and hex
 - a. 77
 - b. 238
 - c. 111
 - d. 45

6. Convert the following octal values to decimal

- a. 772
- b. 233
- c. 111
- d. 452

7. Convert the following hex values to decimal

- a. AA4
- b. 3B1
- c. F4
- d. 8C