CS1356 Introduction to Information Engineering

Homework 1

- 1. Express the folloing bit patterns in hexadecimal notation.
 - a. 101010101010
 - b. 110010110111
 - c. 000011101011
- 2. Write the number 26 by
 - (1) ASCII representation (you can find a table at http://www.asciitable.com/)
 - (2) Binary representation
- 3. Convert each of the following binary representation to its base ten representation
 - a. 111
- b. 0001
- c. 10101

- d. 10001
- e. 10011
- f. 000000

- g. 100
- h. 1000
- i. 10000

- j. 11001
- k. 11010
- 1. 11011
- 4. Convert each of the following base ten representation to its binary representation
 - a. 7

- b. 11
- c. 16

- d. 15
- e. 33
- 5. Performing the following addition
 - a. 00101
- b. 11111
- c. 01111

- +01000
- +00001
- +00001

- d. 10111 +11010
- e. 00111 +00111
- f. 00111 +01100

- g. 11111 +11111
- h. 01010 +00011
- i. 01000 +01000

- j. 01010
 - +10101

Answers will be posted on website by Friday.