Name **Homework 1** **Due 1/26/15**

Each line below is a letter in ASCII code. Decode the letters.

0100 0101
0101 0011
0011 0100

Ans = | | | |

Find the Hamming distance between the two binary words

W_1 = 10110110
W_2 = 11110111

Choose the parity bit p in the word Q = 11010010p so that the word has odd parity

p =

Write the decimal number N_D=73

In 8 bit binary format N_B =

In hexadecimal format N_H =

In octal format N_8 =

Convert the binary number K_B = 011010 to a decimal number

K_D =

Convert the hexadecimal number R_H = EC to a decimal number

R_D =

Write the decimal number G_D = -54 as an 8 bit signed binary number

G_B =

Write G_D as an 8 bit two's compliment binary number

G(2s comp) =

Convert the binary number M_B = 01101.011 to a decimal number.

M_D =