Homework 1

1) Convert the following numbers from the given base to the other listed bases in the table. It is important that you show the whole conversion methods used and not only the final result.

Decimal	Binary	Octal	Hexadecimal
369.3125	?	?	?
?	10111101.101	?	?
?	?	326.5	?
?	?	?	F3C7.A

2) Do the following arithmetic operation in the binary number system:

a)

   25

-

   40

----------   (here use the 1`s complement representation)

    ?

b)

  (- 28)

-

  (+36)

-----------   (here use the signed-2`s complement representation)

    ?

Show how you do it. Don't give only the final result!

3) Show the bit configuration that represents the decimal number 365 in:
    a) Binary format
    b) BCD code
    c) ASCII code