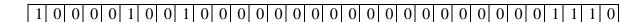
Tutorial/Practical-2

MIN-103: Programming and Data Structures

Problems to be done in copy

- 1. Convert the following integers in 8 bit binary number: 59 64
- 2. Convert the negative integer -54 in 8 bit binary number using signed/unsigned notation and twos complement notation.
- 3. Determine the ASCII value of A, a, 3, %, -, @, (, }.
- 4. Convert the real number 4.5 into IEEE single precision and IEEE double precision floating point number.
- 5. Determine the real number represented by the following single precision floating number.



All the above problems must be done in lab note book in advance in your hostel.

Problems for programming

Write flowchart/pseudo code for all the problems

- 1. Write a code for conversion of an eight bit binary number into decimal in signed/unsigned integer notation.
- 2. Define variables of int, float, double, long int, long long double etc. type. Print the size and limits of the variables.
- 3. Declare a char type variable and take a lower case alphabet as input from user. Display its ASCII value and convert the alphabet to upper case by manipulating the ASCII value.
- 4. Given three corner points of a triangle, and one more point P. Write a code to check whether P lies within the triangle or not.