Tutorial 1 : Data Representation in Computers

Objective : This tutorial is intended to show data representation and storage in a computer

Methodology : Through compilation of a program written in *C language*

Instructions :

1. Switch on your computer

2. Open a suitable editor to display the three programs provided on the course website:

Integer_representation.c , Floating_point_representation.c and Character_representation.c

Go through the codes and try to guess the output.

Integer_representation.c : Assigns and displays integer values. Shows effects of overflow.

Floating_point_representation.c: Assigns and displays the floating point types. Determines the precision of float and double on your machine.

Character_representation.c : Handling the char data type and escape sequence.

3. Use a suitable C compiler (**GCC preferred**) to compile each of the three codes and verify the output.