

Introduction to Computing Laboratory

Assignment – 3

1. Write a program in c to accept the length of three sides of a triangle. The program will then find the area of the triangle.
2. Write a program in C to convert some given Fahrenheit scale temperature to its corresponding Celsius scale value.
3. Write a program in C to swap the contents of two variables
(a) using a third variable and (b) without using a third variable.
4. Write a program in C to find the sum of the digits and reverse of a given three digit number.
5. Write a program in C to implement the functionality of a NOT gate.
6. Write a program in C that will display
(a) the current date and time and (b) the path of your current working directory.
7. Write a program in C that will find how many bytes are required to store
(a) 37 and (b) 37.0
8. Write a program in C to find the sum and average of two numbers where one number is even and another is odd.
9. Write a program in C to find the net salary of an employee where the basic salary will be accepted as input through keyboard. For calculation of net salary you are to consider the following:

Gross Salary = Basic Salary + HRA + DA, where

HRA = 30 % of Basic Salary, DA = 119 % of Basic Salary,

Deductions are as follows:

PF = 12 % of Basic Salary, PTAX = 200.

Net Salary = Gross Salary – Deductions.

10. Write a program in c to evaluate the following expression:

$$x = \frac{\sqrt{(5000 - 1000)^2 + (10000 - 1000)^2}}{5 * 2000}$$

Also find the time required by the processor to evaluate the expression.