Introduction to Computing Laboratory Assignment – 4

- 1. Write a program in C to find the largest of three input numbers.
- 2. Write a program in C to check whether a given year is leap year or not.
- 3. Write a program in C to check whether a valid triangle can be formed or not, where the lengths of the sides are entered through keyboard.
- 4. Write a program in C to check whether a character entered through the keyboard is a capital letter, a small letter, a digit or a special symbol.
- 5. Write a program in C to find the real roots of a quadratic equation where the values of three coefficients are accepted as input.
- 6. Write a program in C to find the largest of three given numbers using conditional / ternary operator.
- 7. Write a program in C to realize the following function:

$$f(x) = 6x+1 \text{ when } x>50,$$

$$= 2x^2 + 3$$
 when $30 \le x \le 50$,

$$= 5x^3$$
-6 when $1 \le x \le 29$,

- = 0 otherwise.
- 8. Write a program in C to accept the marks obtained by a student in three subjects of 100 marks each in an examination. Give the grade of the student as follows:

Percentage of Marks	Division
≥ 60	1 st
≥ 45 but < 60	2 nd
≥ 34 but < 45	3 rd
< 34	Fail