Computing Lab (CS 1171)

Assignment – 1

(Points: 30)

Assigned date: 15-Feb-2021   Submission date: 19-Feb-2021

1. Area of a triangle is given by the formula $A = \sqrt{S(S-a)(S-b)(S-c)}$ where a, b, and c are the sides of the triangle and $2S = a + b + c$. Write a C program to compute the area of the triangle by taking the values of *a*, *b*, and *c* as CONSTANTS.

2. Write a C program that reads three integer values from the keyboard and determines if they are the sides of a right-angled triangle.

3. Write a C program that prints the next character from the ASCII table for the corresponding character taken from the keyboard. As for example if the character taken from the keyboard is 'B' the program will print the immediate next character 'C'. Also print the corresponding ASCII value.

4. Write a C program to find the sum of individual digits of a positive integer. The number has to be taken as input from the keyboard. Keep a check to accept only the numbers with maximum of three digits.

5. Write a C program to test for odd or even of an integer by the following two methods: (i) division and (ii) bit testing. The integer has to be taken as input from the console.

6. Using Switch-case block, input the name of the month from the user and display the corresponding number of days in that month.