



THE SUPERIOR University, LAHORE
Department: Computer Science & Information Technology

Subject: Programming Fundamentals

Assignment 3

Instructor: Eng. HM Zahid

Note:

- ❖ You have to write and run your code in Dev C++ and code along with screenshots of output should be included in submission copy. (Assignment should be in proper format and should submit before 29 Jan 2020).
- ❖ Each question carries equal marks. Weightage of assignment would be decided at the end of the semester.
- ❖ Use appropriate data types like temperature, bill, etc in float.

- If the lengths of the sides of a triangle are denoted by **a**, **b**, and **c**, then area of triangle is given by

$$area = \sqrt{S(S-a)(S-b)(S-c)} \text{ where, } S = (a + b + c) / 2$$

Write a function to calculate 'area' of a triangle according to above scenario. The prototype of this function is `double area(double a, double b, double c);`

- Write a function to draw following:

```
      *
     ***
    *****
   *********
  ***********
 *****
  *****
   *****
    ***
     *
```