ISLAMIC UNIVERSITY OF TECHNOLOGY (IUT)

ORGANISATION OF ISLAMIC COOPERATION (OIC)

Department of Computer Science and Engineering (CSE)

Course: 4108, Lab Task 12-1b

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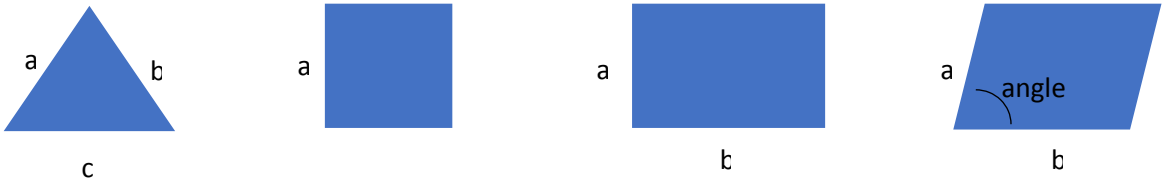
Create functions to calculate the following: area of a triangle, area of a square, area of a rectangle, and area of a parallelogram. The prototype of the above-mentioned functions are as follows:

```
double TriArea(double a, double b, double c);
double SqArea(double a);
double RecArea(double a, double b);
double ParArea(double a, double b, double angle);
```

The input parameters of the function correspond to the geometrical shapes (triangle, square, rectangle, parallelogram) according to the following figures respectively:



Subtasks (marks):

1. Create the four functions to find the area of the geometrical shapes. (5)
2. Create a header file called “geometry.h” and write the functions in the header file. Include the header file in your main program file.(2)
3. Use the functions of that header file to calculate the marked area below. (4)
4. Change the functions so that there are no semi-colons in the functions. (4)