13016209 Object-Oriented Concepts and Programming

Lab 4

Start your program with your information using the following format:

/*

ID:

Name:

Lab No:

Question No:

Date:

*/

1. Write a C++ program to that is used to calculate area of a rectangle or a triangle based on what a user chooses from the menu. The program must have at least 1 function, the function is used to ask a user to enter length, and height of a triangle or width and height of a rectangle. This function must receive 4 parameters the first two parameters are prompts to tell a user what to enter. The next two parameters are used to pass the values that the user enters back to the caller function (the length, and height of a triangle or width and height of a rectangle). This means that the function needs to use the pass by reference for at least the parameters that will pass the values back to the caller function. In this program uses the reference type for such parameters.

The examples output of the program are as follows:

1.Triangle

2.Rectangle

0.Exit

Your choice: 1

Enter length of a triangle 4

Enter height of a triangle 5

The area of the triangle is 10

1.Triangle

2.Rectangle

0.Exit

Your choice: 2

Enter width of a rectangle 6

Enter height of a rectangle 7

The area of the rectangle is 42

1.Triangle

2.Rectangle

0.Exit

Your choice: 0

Good bye

2. Do the same thing as question 1 but use pointer instead of reference.