Object Oriented Programming Lab 7

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ME-A Batch 3

Problem Statement ->

Implement a base class Shape. Use this class to store two double type variables that could be used to compute the area of the figures. Derive two specific class function get_data to initialize the base class members and another member function display_area to compute and display the area of the figures. Using these three classes to design a program that will compute the area for the triangle or the rectangle by taking user inputs.

First user input x = [length for rectangle, base for triangle]

y = [breadth for rectangle, height for triangle]

Code ->

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Output of the Following Program ->

1. Area of the Rectangle ->

```
Run: shape ×

"C:\Program Files\Java\jdk-11.0.6\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ

1. Rectangle
2. Triangle
5 Select your choice:

Inter the input parameters:
Enter the first parameter:

12

Enter the second parameter:

13.45

The area of the rectangle is: 161.39999999998
```

2. Area of Triangle ->

```
1. Rectangle
2. Triangle
Select your choice:
2
Enter the input parameters:
Enter the first parameter:
5:64
Enter the second parameter:
12.54
The area of the triangle is: 41.63279999999996
1. Rectangle
2. Triangle
Select your choice:
```