

OOP Lab Assignment 7

Calculate Area

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CSE 3

Program

Class Shape_area : Just a dummy class to demonstrate inheritance.

Class Rectangle : Inherits Shape_area, overwrites calculateArea to calculate rectangle area.

Class Circle : Inherits Shape_area, overwrites calculateArea to calculate circle area.

Class Triangle : Inherits Shape_area, overwrites calculateArea to calculate triangle area.

Output

```
PS C:\Mahindra Notes and schedule\Semester 5\00Ps\Lab\lab_works\week-7> javac .\shape_calc.java
PS C:\Mahindra Notes and schedule\Semester 5\00Ps\Lab\lab_works\week-7> java shape_calc
First class :
0
Using circle class
314.1
Using rectangle class
120.0
Using triangle class
60.0
```

Main

```
public class shape_calc{  
    Run | Debug  
    public static void main(String args[]){  
  
        Shape_area object = new Shape_area();  
        System.out.println(x:"First class : ");  
        System.out.println(object.calculateArea());  
  
        Circle circle = new Circle();  
        System.out.println(x:"Using circle class");  
        System.out.println(circle.calculateArea(r:10.0));  
  
        Rectangle rectangle = new Rectangle();  
        System.out.println(x:"Using rectangle class");  
        System.out.println(rectangle.calculateArea(length:10.0,breadth:12.0));  
  
        Triangle triangle = new Triangle();  
        System.out.println(x:"Using triangle class");  
        System.out.println(triangle.calculateArea(height:10.0,base:12.0));  
    }  
}
```