

Institute of Computer Technology
B. Tech Computer Science and Engineering
Subject: OOP (2CSE303)

PRACTICAL-7

AIM: - Ravi and his friends are playing a multiplayer game which requires each player to compute the area of a shape that is displayed in real time. Thus, overload the function compute() to print the area of different shapes (square, rectangle, circle) using the concept of polymorphism.

SOLUTION

```
import java.util.*;
public class Prac7
{
    float pie=3.14f;

    public double compute(double a)
    {
        double area=a*a;
        return area;
    }
    public double compute(double a,double b)
    {
        double area=a*b;
        return area;
    }
    public double compute(float a,double b)
    {
        double area=a*b*b;
        return area;
    }
    public static void main(String[] args)
    {
        double x,len,width,radius;
        System.out.println("Enter The Size Of A Side Of Square:");
        Scanner Yash=new Scanner(System.in);
        x=Yash.nextDouble();

        System.out.println("Enter The Length Of Rectangle:");
        len=Yash.nextDouble();

        System.out.println("Enter The Width Of Rectangle:");
        width=Yash.nextDouble();
```

```
System.out.println("Enter Radius Of Circle:");  
radius=Yash.nextDouble();
```

```
Prac7 obj=new Prac7();
```

```
System.out.println("Area Of Square:"+obj.compute(x));  
System.out.println("Area Of Recangle:"+obj.compute(len,width));  
System.out.println("Area Of Circle:"+obj.compute(obj.pie,radius));
```

```
}
```

```
}
```

OUTPUT

```
PS C:\Users\admin\Google Drive\B-Tech\SEM-3\OOP\Practicals\Prac-7> cd "c:\Users\admin\Google Drive\B-Tech\SEM-3\OOP\Practicals\Prac-7\" ; if ($?) { javac Prac7.java } ; if ($?) { java Prac7 }  
Enter The Size Of A Side Of Square:  
6  
Enter The Length Of Rectangle:  
4  
Enter The Width Of Rectangle:  
3  
Enter Radius Of Circle:  
2.5  
Area Of Square:36.0  
Area Of Recangle:12.0  
Area Of Circle:19.625000655651093  
PS C:\Users\admin\Google Drive\B-Tech\SEM-3\OOP\Practicals\Prac-7> |
```