

J BookMain.java 2

J ShapeMain.java X

```
C: > Users > KALYAN > Desktop > SEM3 > java > J ShapeMain.java > ⚡ Shape > ⚡ printArea()
1 import java.util.Scanner;
2 abstract class Shape {
3     int dim1, dim2;
4     Shape(int d1, int d2) {
5         dim1 = d1;
6         dim2 = d2;
7     }
8     abstract void printArea();
9 }
10 class Rectangle extends Shape {
11     Rectangle(int length, int breadth) {
12         super(length, breadth);
13     }
14     void printArea() {
15         double area = dim1 * dim2;
16         System.out.println("Area of Rectangle: " + area);
17     }
18 }
19 class Triangle extends Shape {
20     Triangle(int base, int height) {
21         super(base, height);
22     }
23     void printArea() {
24         double area = 0.5 * dim1 * dim2;
25         System.out.println("Area of Triangle: " + area);
26     }
27 }
28 class Circle extends Shape {
29     Circle(int radius) {
30         super(radius, radius);
31     }
32     void printArea() {
33         double area = Math.PI * dim1 * dim1;
34         System.out.println("Area of Circle: " + area);
35     }
36 }
```

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C: > Users > KALYAN > Desktop > SEM3 > java > J ShapeMain.java > ⚙ Shape > ⚡ printArea()

```
37  public class ShapeMain {  
38      Run | Debug  
39          public static void main(String[] args) {  
40              Scanner sc = new Scanner(System.in);  
41              System.out.print(s:"Enter length and breadth of rectangle: ");  
42              int l = sc.nextInt();  
43              int b = sc.nextInt();  
44              Rectangle r = new Rectangle(l, b);  
45              r.printArea();  
46              System.out.print(s:"\nEnter base and height of triangle: ");  
47              int base = sc.nextInt();  
48              int height = sc.nextInt();  
49              Triangle t = new Triangle(base, height);  
50              t.printArea();  
51              System.out.print(s:"\nEnter radius of circle: ");  
52              int rad = sc.nextInt();  
53              Circle c = new Circle(rad);  
54              c.printArea();  
55      }  
56  }
```

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J ShapeMain.java X

C: > Users > KALYAN > Desktop > SEM3 > java > J ShapeMain.java > Circle > Circle(int)

19 class Triangle extends Shape {

PROBLEMS 3 DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\KALYAN> & 'C:\Program Files\Java\jdk-24\bin\java.exe' '-agentlib:jdwp=transport=

DetailsInExceptionMessages' '-cp' 'C:\Users\KALYAN\AppData\Local\Temp\vscodews_7b337\jdt_ws\

Enter length and breadth of rectangle: 10 20

Area of Rectangle: 200.0

Enter base and height of triangle: 2

10

Area of Triangle: 10.0

Enter radius of circle: 5

Area of Circle: 78.53981633974483

PS C:\Users\KALYAN> █