

```

1 abstract class Shape{
2     double dim1,dim2;
3     abstract double printArea();
4 }
5
6
7 class Rectangle extends Shape{
8     Rectangle(double a, double b){
9         dim1 = a;
10        dim2 = b;
11    }
12    double printArea(){
13        System.out.println("Inside the Rectangle");
14        return dim1*dim2;
15    }
16 }
17
18 class Triangle extends Shape{
19     Triangle(double a, double b){
20         dim1 = a;
21         dim2 = b;
22     }
23     double printArea(){
24         System.out.println("Inside the Triangle");
25         return dim1*dim2/2;
26     }
27 }
28
29 class Circle extends Shape{
30     Circle(double a){
31         dim1 = a;
32     }
33     double printArea(){
34         System.out.println("Inside the Circle");
35         return 3.14*dim1*dim1;
36     }
37 }
38
39 class abs1Main{
40     public static void main(String args[]){
41         Rectangle r = new Rectangle(10,20);

```



```

    }
    double printArea(){
        System.out.println("Inside the Rectangle");
        return dim1*dim2;
    }
}

class Triangle extends Shape{
    Triangle(double a, double b){
        dim1 = a;
        dim2 = b;
    }
    double printArea(){
        System.out.println("Inside the Triangle");
        return dim1*dim2/2;
    }
}

class Circle extends Shape{
    Circle(double a){
        dim1 = a;
    }
    double printArea(){
        System.out.println("Inside the Circle");
        return 3.14*dim1*dim1;
    }
}

class abs1Main{
    public static void main(String args[]){
        Rectangle r = new Rectangle(10,20);
        Triangle t = new Triangle(20,30);
        Circle c = new Circle(35);

        System.out.println("Area of Rectangle is:" +r.printArea());
        System.out.println("Area of Triangle is:" +t.printArea());
        System.out.println("Area of Circle is:" +c.printArea());
    }
}

```

```
5
(base) jathinsmacbookpro@Jathins-MacBook-Pro java % java abs1Main
Inside the Rectangle
Area of Rectangle is:200.0
Inside the Triangle
Area of Triangle is:300.0
Inside the Circle
Area of Circle is:3846.5
(base) jathinsmacbookpro@Jathins-MacBook-Pro java %
```