

C:\java lab\shape_area.java - Notepad++

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bookMain.java xcount1.java xcourse.java xitem.java xor.v xBUBSORT.ASM xquad.java xarray4.java xinheritance_1.java xshape_area.java xbank.java x

```
1  import java.util.Scanner;
2  abstract class Shape
3  {
4      int a,b;
5      Scanner ss= new Scanner(System.in);
6      abstract public void print_area();
7  }
8
9  class rectangle extends Shape
10 {
11     public int area_rect;
12     @Override
13     public void print_area()
14     {
15         System.out.println("Inside the rectangle\n");
16         System.out.println("Enter the value of a: ");
17         a = ss.nextInt();
18         System.out.println("Enter the value of b: ");
19         b = ss.nextInt();
20         area_rect=a*b;
21         System.out.println("The area of rectangle is: "+area_rect);
22     }
23 }
24 class triangle extends Shape
25 {
26     int area_tri;
27     @Override
28     public void print_area()
29     {
30         System.out.println("Inside the triangle\n");
31         System.out.println("Enter the value of a: ");
32         a = ss.nextInt();
33         System.out.println("Enter the value of b: ");
34         b = ss.nextInt();
35         area_tri=(int) (0.5*a*b);
36         System.out.println("The area of triangle is: "+area_tri);
37     }
38 }
39 class circle extends Shape
40 {
41     int area_circle;
```



```
22  }
23  }
24  class triangle extends Shape
25  {
26      int area_tri;
27      @Override
28      public void print_area()
29      {
30          System.out.println("Inside the triangle\n");
31          System.out.println("Enter the value of a: ");
32          a = ss.nextInt();
33          System.out.println("Enter the value of b: ");
34          b = ss.nextInt();
35          area_tri=(int) (0.5*a*b);
36          System.out.println("The area of triangle is: "+area_tri);
37      }
38  }
39  class circle extends Shape
40  {
41      int area_circle;
42      @Override
43      public void print_area()
44      {
45          System.out.println("Inside the circle\n");
46          System.out.println("Enter the value of a: ");
47          a = ss.nextInt();
48          area_circle=(int) (3.14*a*a);
49          System.out.println("The area of circle is: "+area_circle);
50      }
51  }
52  class abs{
53      public static void main(String[] args){
54          rectangle rec = new rectangle();
55          rec.print_area();
56          triangle tri = new triangle();
57          tri.print_area();
58          circle cir = new circle();
59          cir.print_area();
60      }
61  }
```

C:\Users\arpit>cd..

C:\Users>cd..

C:\>cd java lab

C:\java lab>javac shape_area.java

C:\java lab>java abs

Inside the rectangle

Enter the value of a:

1

Enter the value of b:

1

The area of rectangle is: 1

Inside the triangle

Enter the value of a:

11

Enter the value of b:

11

The area of triangle is: 60

Inside the circle

Enter the value of a:

111

The area of circle is: 38687

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