File   Edit   Search   View   Encoding   Language   Settings   Tools   Macro   Run   Plugins   Window   ?                                                                      X

bookMain.java | count1.java | course.java | item.java | or.v | BUBSORT.ASM | quad.java | array4.java | inheritance_1.java | shape_area.java | bank.java

```java
import java.util.Scanner;
abstract class Shape
{
    int a,b;
    Scanner ss= new Scanner(System.in);
    abstract public void print_area();
}

class rectangle extends Shape
{
    public int area_rect;
    @Override
    public void print_area()
    {
        System.out.println("Inside the rectangle\n");
        System.out.println("Enter the value of a: ");
        a = ss.nextInt();
        System.out.println("Enter the value of b: ");
        b = ss.nextInt();
      area_rect=a*b;
        System.out.println("The area of rectangle is: "+area_rect);
    }
}
class triangle extends Shape
{
    int area_tri;
    @Override
    public void print_area()
    {
            System.out.println("Inside the triangle\n");
        System.out.println("Enter the value of a: ");
        a = ss.nextInt();
        System.out.println("Enter the value of b: ");
        b = ss.nextInt();
    area_tri=(int) (0.5*a*b);
    System.out.println("The area of triangle is: "+area_tri);
    }
}
class circle extends Shape
{
    int area_circle;
```

File    Edit    Search    View    Encoding    Language    Settings    Tools    Macro    Run    Plugins    Window    ?                                                    X

```java
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 abc
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

C:\java_lab>
```