

```

1  import java.util.Scanner;
2  import java.lang.Math;
3
4  abstract class Shape
5  {
6      int a;
7      int b;
8      Scanner in = new Scanner(System.in);
9      abstract void printArea();
10 }
11
12 class rectangle extends Shape
13 {
14     int area_rect;
15     rectangle()
16     {
17         System.out.println("Enter dimension of rectangle length breadth");
18         a = in.nextInt();
19         b = in.nextInt();
20     }
21     void printArea()
22     {
23         area_rect = a*b;
24         System.out.println("The area of rectangle is :"+area_rect);
25     }
26 }
27
28 class traingle extends Shape
29 {
30     double area_tri;
31     traingle()
32     {

```

Java source file

length: 1,406 lines: 76

Ln: 64 Col: 18 Sel: 0|0

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29 {
30     double area_tri;
31     traingle()
32     {
33         System.out.println("Enter dimension of traingle base and height");
34         a = in.nextInt();
35         b = in.nextInt();
36     }
37     void printArea()
38     {
39         area_tri = 0.5*a*b;
40         System.out.println("The area of traingle is :"+area_tri);
41     }
42 }
43
44 class circle`extends Shape
45 {
46     double cir_area;
47     circle()
48     {
49         System.out.println("Enter the radius");
50         a = in.nextInt();
51     }
52     void printArea()
53     {
54         cir_area = 3.14*a*a;
55         System.out.println("The area of circle is :"+cir_area);
56     }
57 }
58
59 class Figure
60 {

```



```

43
44 class circle extends Shape
45 {
46     double cir_area;
47     circle()
48     {
49         System.out.println("Enter the radius");
50         a = in.nextInt();
51     }
52     void printArea()
53     {
54         cir_area = 3.14*a*a;
55         System.out.println("The area of circle is :"+cir_area);
56     }
57 }
58
59 class Figure
60 {
61     public static void main(String args[])
62     {
63         rectangle r = new rectangle();
64         r.printArea();
65         traingle t = new traingle();
66         t.printArea();
67         circle c = new circle();
68         c.printArea();
69     }
70 }
71
72
73
74

```


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C:\WINDOWS\system32>c:

C:\WINDOWS\system32>cd/

C:\>cd Program Files

C:\Program Files>cd Java

C:\Program Files\Java>cd JDK 8

C:\Program Files\Java\JDK 8>cd bin

C:\Program Files\Java\JDK 8\bin>javac Figure.java

C:\Program Files\Java\JDK 8\bin>java Figure
Enter dimension of rectangle length breadth

2

3

The area of rectangle is :6

Enter dimension of traingle base and height

4

3

The area of traingle is :6.0

Enter the radius

3

The area of circle is :28.259999999999998

C:\Program Files\Java\JDK 8\bin>