

```
1 import java.util.Scanner;
2 abstract class Shape
3 {
4     int a1;
5     int a2;
6     Shape(int a,int b)
7     {
8         a1=a;
9         a2=b;
10    }
11    abstract double printarea();
12 }
13 class Rectangle extends Shape
14 {
15     double area;
16     Rectangle(int a,int b)
17     {
18         super(a,b);
19     }
20     double printarea()
21     {
22         area=a1*a2;
23         return (area);
24     }
25 }
26 class Triangle extends Shape
27 {
28     double area;
29     Triangle(int a,int b)
30     {
31         super(a,b);
32     }
33     double printarea()
34     {
35         area=(double) (a1*a2)/2;
36         return (area);
37     }
38 }
39 class Circle extends Shape
40 {
41     double area;
42     Circle(int a,int b)
43     {
44         super(a,b);
45     }
46     double printarea()
```

```

21     double printarea()
22     {
23         area=a1*a2;
24         return (area);
25     }
26     class Triangle extends Shape
27     {
28         double area;
29         Triangle(int a,int b)
30         {
31             super(a,b);
32         }
33         double printarea()
34         {
35             area=(double) (a1*a2)/2;
36             return (area);
37         }
38     }
39     class Circle extends Shape
40     {
41         double area;
42         Circle(int a,int b)
43         {
44             super(a,b);
45         }
46         double printarea()
47         {
48             area=(double)3.14*a1*a1;
49             return (area);
50         }
51     }
52     class areas
53     {
54         public static void main(String args[])
55         {
56             Rectangle r=new Rectangle(11,15);
57             Triangle t=new Triangle(9,7);
58             Circle c=new Circle(9,9);
59             System.out.println("Area of the rectangle :"+r.printarea());
60             System.out.println("Area of Triangle :"+t.printarea());
61             System.out.println("Area of the circle :"+c.printarea());
62         }
63     }
64

```

Command Prompt

```
04-04-2020 15:31 <DIR> WC 19
02-04-2020 16:01 897 µTorrent.lnk
17 File(s) 35,471,682 bytes
13 Dir(s) 127,380,877,312 bytes free
```

```
C:\Users\DELL\Desktop>cd JAVA
```

```
C:\Users\DELL\Desktop\JAVA>dir
```

```
Volume in drive C is OS
```

```
Volume Serial Number is F7A7-78E0
```

```
Directory of C:\Users\DELL\Desktop\JAVA
```

```
03-11-2020 16:53 <DIR> .
03-11-2020 16:53 <DIR> ..
03-11-2020 16:57 1,191 areas.java
13-10-2020 18:36 0 Bookmain.java
29-09-2020 09:43 1,444 Roots.class
28-09-2020 20:09 1,006 Roots.java
4 File(s) 3,641 bytes
2 Dir(s) 127,380,877,312 bytes free
```

```
C:\Users\DELL\Desktop\JAVA>javac areas.java
```

```
C:\Users\DELL\Desktop\JAVA>java areas
```

```
Area of the rectangle :165.0
```

```
Area of Triangle :31.5
```

```
Area of the circle :254.34
```

```
C:\Users\DELL\Desktop\JAVA>
```