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prog4.java

~/

bank.java



```
1 abstract class Shape
2 {
3     int len,breadth;
4     abstract void printArea();
5 }
6
7
8
9 class rectangle extends Shape
10 {
11     rectangle(int len,int breadth)
12     {
13         this.len=len;
14         this.breadth=breadth;
15     }
16     void printArea()
17     {
18         int area1=len*breadth;
19         System.out.println("Area of the rectangle is "+area1);
20     }
21 }
22
23
24 class triangle extends Shape{
25     triangle(int len,int breadth)
26     {
27         this.len=len;
28         this.breadth=breadth;
29     }
30     void printArea()
31     {
32         float area2=0.5f*len*breadth;
33         System.out.println("Area of the triangle is "+area2);
34     }
35 }
36
37
38
39 class circle extends Shape{
40     circle(int len)
41     {
42         this.len=len;
43     }
44     void printArea()
45     {
46         float area3=3.14f*len*len;
47         System.out.println("Area of the circle is "+area3);
48     }
49 }
50
51
52 |
```

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Screenshot captured

You can paste the image from the clipboard.

```
16 void printArea()
17 {
18     int area1=len*breadth;
19     System.out.println("Area of the rectangle is "+area1);
20 }
21 }
22
23
24 class triangle extends Shape{
25     triangle(int len,int breadth)
26 {
27     this.len=len;
28     this.breadth=breadth;
29 }
30 void printArea()
31 {
32     float area2=0.5f*len*breadth;
33     System.out.println("Area of the triangle is "+area2);
34 }
35 }
36
37
38
39 class circle extends Shape{
40     circle(int len)
41 {
42     this.len=len;
43 }
44 void printArea()
45 {
46     float area3=3.14f*len*len;
47     System.out.println("Area of the circle is "+area3);
48 }
49 }
50
51
52 |
53 class prog4
54 {
55     public static void main(String args[])
56 {
57         rectangle r1=new rectangle(20,30);
58         r1.printArea();
59         triangle t1=new triangle(10,15);
60         t1.printArea();
61         circle c1=new circle(40);
62         c1.printArea();
63 }
64 }
65
66
67
```



```
bmscecse@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ javac prog4.java
bmscecse@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ java prog4
Area of the rectangle is 600
Area of the triangle is 75.0
Area of the circle is 5024.0
bmscecse@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$
```