```
Main.java
     import java.util.Scanner;
  2 abstract class shape
          int a,b;
          abstract public void printArea();
     }
     class rectangle extends shape
  8 - {
          rectangle(int x,int y)
  11
              a=x;
  12
              b=y;
  13
          public void printArea()
  15
              System.out.println("Area of rectangle is:"+(a*b));
  17
     class triangle extends shape
  20 - {
  21
          triangle(int x,int y)
  22 -
  23
              a=x;
              b=y;
  25
          public void printArea()
  27
              System.out.println("The area of triangle is:"+((a*b)/2));
  29
  30
     class circle extends shape
  32 - {
          circle(int y)
```

34

```
32 - {
        circle(int y)
33
34
35
            a=0;
36
            b=y;
37
38
        public void printArea()
39 -
            System.out.println("Area of circle is:"+((3.14)*b*b));
40
41
42
43
    class Main
44 {
        public static void main(String[]args)
45
46
47
            Scanner sc=new Scanner(System.in);
48
            int a,b;
             System.out.print("Enter the length of rectangle : ");
49
50
            a=sc.nextInt();
51
             System.out.print("Enter the breadth of rectangle : ");
52
            b=sc.nextInt();
53
            rectangle r= new rectangle(a,b);
54
            r.printArea();
                tem.out.print("Enter the height of triangle : ");
55
56
            a=sc.nextInt();
             iystem.out.print("Enter the base of triangle : ");
57
            b=sc.nextInt();
58
59
            triangle t= new triangle(a,b);
60
            t.printArea();
               tem.out.print("Enter the radius of circle : ");
61
            a=sc.nextInt();
62
63
            circle c= new circle(a);
64
            c.printArea();
65
        }
66
```