```
import java.util.Scanner;
 1
     abstract class Shape
 4
    目{
 5
         int a;
 6
         int b;
 7
          abstract void printArea();
8
9
          public Shape (int a, int b) {
10
              this.a = a;
11
              this.b = b;
12
13
14
15
     class Rectangle extends Shape
16
    目(
         public Rectangle (int a, int b) {
17
    白
18
              super(a, b);
19
20
21
         void printArea()
22
              System.out.println("Area of rectangle: "+(a*b));
24
    1
26
     class Triangle extends Shape
    目{
         public Triangle (int a, int b) {
              super(a, b);
         void printArea() {
             System.out.println("Area of triangle: "+(a*b)/);
     class Circle extends Shape
         public Circle(int a, int b) {
             super(a, b);
```

```
void printArea() {
              System.out.println("Area of triangle: "+(a*b)/2);
    class Circle extends Shape
39
    E{
          public Circle(int a, int b) {
40
41
              super (a, b);
42
43
44
          void printArea() {
45
              System.out.println("Area of Circle: "+(3.142*a*b));
46
47
48
49
    Eclass prog7 {
50
51
          public static void main (String[] args) {
52
              Scanner sc = new Scanner (System.in);
53
              System.out.print("Enter length of rectangle:");
54
              int 1 rec = sc.nextInt();
55
              System.out.print("Enter breadth of rectangle:");
56
              int b rec = sc.nextInt();
57
58
              System.out.print("Enter height of triangle:");
              int l tri = sc.nextInt();
59
              System.out.print("Enter base of triangle:");
60
61
              int b tri = sc.nextInt();
62
63
              System.out.print("Enter radius of circle:");
64
              int r cir = sc.nextInt();
              Rectangle r = new Rectangle(1 rec,b rec);
              Triangle t = new Triangle(| tri,b tri);
               Circle c = new Circle(r cir, r cir);
              System.out.println('
              r.printArea();
              t.printArea();
              c.printArea();
ava source file
```

C:\Users\Deepu K\java>java prog7 Enter length of rectangle:12
Enter breadth of rectangle:3
Enter height of triangle:10
Enter base of triangle:4
Enter radius of circle:5 Area of rectangle:36 Area of triangle:20 Area of Circle:78.55 C:\Users\Deepu K\java>