

Program 4

```
import java.util.*;
abstract class Shape
{
    int d1, d2;
    Scanner input = new Scanner(System.in);
    abstract void printarea();
}

class Rectangle extends Shape
{
    void printarea()
    {
        System.out.print("Enter length and breadth  
of rectangle: ");
        d1 = input.nextInt();
        d2 = input.nextInt();
        System.out.println("The area of Rectangle  
is: " + d1 * d2 + "\n");
    }
}

class Triangle extends Shape
{
    void printArea()
    {
        System.out.print("Enter Base and height  
of triangle is: " + (d1 * d2) / 2 + "\n");
    }
}
```



```
{  
}  
}  
  
class circle extends Shape  
{  
    void printArea()  
    {  
        System.out.print("Enter radius: ");  
        d1 = input.nextInt();  
        System.out.println("The area of circle is  
+ 3.14f * d1 * d1 + \"\\n\"");  
    }  
}  
  
public class chap9main  
{  
    public static void main (String[] args)  
    {  
        Rectangle rec = new Rectangle();  
        rec.printArea();  
        Triangle tri = new Triangle();  
        tri.printArea();  
        Circle cir = new Circle();  
        cir.printArea();  
    }  
}
```