

File Edit View

```
import java.util.Scanner;
abstract class shape
{
    abstract void printArea(double x,double y);
}
class rectangle extends shape
{
    void printArea(double x,double y)
    {
        System.out.println("Area of rectangle: "+(x*y));
    }
}
class triangle extends shape
{
    void printArea(double x,double y)
    {
        System.out.println("Area of triangle: "+(0.5*x*y));
    }
}
class circle extends shape
{
    void printArea(double x,double y)
    {
        System.out.println("Area of circle: "+(3.14*x*x));
    }
}
public class Main
{
    public static void main(String[] args)
    {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter the length and width of the rectangle: ");
        double rectangleLength = scanner.nextDouble();
        double rectangleWidth = scanner.nextDouble();
        shape r = new rectangle();
        r.printArea(rectangleLength, rectangleWidth);
        System.out.print("Enter the base and height of the triangle: ");
        double triangleBase = scanner.nextDouble();
        double triangleHeight = scanner.nextDouble();
        shape t = new triangle();
        t.printArea(triangleBase, triangleHeight);
        System.out.print("Enter the radius of the circle: ");
        double circleRadius = scanner.nextDouble();
        shape c = new circle();
        c.printArea(circleRadius,0);
        System.out.println("Dharunya - 1BM23CS090");
    }
}
```



Name

Date modified

Type

C:\Windows\System32\cmd.exe

Microsoft Windows [Version 10.0.22000.2538]  
(c) Microsoft Corporation. All rights reserved.

C:\Users\Admin\Documents\088>javac Main.java

C:\Users\Admin\Documents\088>java Main

Enter the length and width of the rectangle: 4 8

Area of rectangle: 32.0

Enter the base and height of the triangle: 3 6

Area of triangle: 9.0

Enter the radius of the circle: 4

Area of circle: 50.24

Dharunya - 1BM23CS090

C:\Users\Admin\Documents\088>