

```
import java.util.Scanner;
```

```
abstract class Shape
```

```
{  
    int a;  
    int b;  
    abstract void printArea();
```

```
    public Shape(int a, int b) {  
        this.a = a;  
        this.b = b;  
    }  
}
```

```
class Rectangle extends Shape
```

```
{  
    public Rectangle(int a, int b) {  
        super(a, b);  
    }
```

```
    void printArea()  
    {  
        System.out.println("Area of rectangle:"+(a*b));  
    }  
}
```

```
class Triangle extends Shape
```

```
{  
    public Triangle(int a, int b) {  
        super(a, b);
```

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>

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Windows (CRLF)

UTF-8



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ENG

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```
public Triangle(int a, int b) {
    super(a, b);
}

void printArea() {
    System.out.println("Area of triangle:"+(.2*a*b));
}
}

class Circle extends Shape
{
    public Circle(int a, int b) {
        super(a, b);
    }

    void printArea() {
        System.out.println("Area of Circle:"+(3.142*a*b));
    }
}

class Prog5 {

    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter length of rectangle:");
        int l_rec = sc.nextInt();
        System.out.print("Enter breadth of rectangle:");
        int b_rec = sc.nextInt();

        System.out.print("Enter height of triangle:");
```



```
}  
}  
  
class Prog5 {  
  
    public static void main(String[] args) {  
        Scanner sc = new Scanner(System.in);  
        System.out.print("Enter length of rectangle:");  
        int l_rec = sc.nextInt();  
        System.out.print("Enter breadth of rectangle:");  
        int b_rec = sc.nextInt();  
  
        System.out.print("Enter height of triangle:");  
        int l_tri = sc.nextInt();  
        System.out.print("Enter base of triangle:");  
        int b_tri = sc.nextInt();  
  
        System.out.print("Enter radius of circle:");  
        int r_cir = sc.nextInt();  
  
        Rectangle r = new Rectangle(l_rec,b_rec);  
        Triangle t = new Triangle(l_tri,b_tri);  
        Circle c = new Circle(r_cir,r_cir);  
        System.out.println("-----");  
        r.printArea();  
        t.printArea();  
        c.printArea();  
    }  
}
```



Command Prompt

Microsoft Windows [Version 10.0.18363.1139]
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C:\Users\sohan>cd C:\Users\sohan\Desktop\Java Programs\Shape

C:\Users\sohan\Desktop\Java Programs\Shape>javac Prog5.java

C:\Users\sohan\Desktop\Java Programs\Shape>java Prog5

Enter length of rectangle:10

Enter breadth of rectangle:5

Enter height of triangle:6

Enter base of triangle:3

Enter radius of circle:7

Area of rectangle:50

Area of triangle:18

Area of Circle:153.958

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