```
shapeMainjava > ts shapeMain
import java.util.Scanner;
import java.lang.Math;

abstract class Shape {
   int c, d;

   Shape(int a, int b) {
        this.c = a;
        this.d = b;
   }

   Shape(int a) {
        this.c = a;
   }

   abstract void printArea();
   }

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

   void printArea() {
        System.out.println("Area of rectangle is: " + c * d);
   }
}

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

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            super(a, b);
    }
}
```

```
class Triangle extends Shape {
    Triangle(int a, int b) {
        super(a, b);
    }

    void printArea() {
        System.out.println("Area of triangle is: " + c * d / 2);
    }
}

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

    void printArea() {
        System.out.println("Area of circle is: " + Math.PI * Math.pow(c, 2));
    }
}

public class shapeMain {
    Run|Debug
    public static void main(String[] args){
        Scanner sc - new Scanner(system.in);
        Shape s;
        Shape s;
        System.out.println("Inter dimensions of rectangle:");
        int len = sc.nextInt();
        int len = sc.nextInt();
        int len = sc.nextInt();
        Rectangle r = new Rectangle(len, br);
        System.out.println("Enter dimensions of triangle:");
        System.out.printl
```

```
public class shapeMain

Run|Debuq

public static void main(String[] args){

Scanner s < new Scanner(System.in);

Shape 5;

System.out.println("Enter dimensions of rectangle;");

int len = sc.nextInt();

int b = sc.nextInt();

int b = sc.nextInt();

int b = sc.nextInt();

int h = sc.nextInt();

int h = sc.nextInt();

int h = sc.nextInt();

clint h = sc.nextInt();

clint h = sc.nextInt();

clint h = sc.nextInt();

system.out.println("Enter dimensions of triangle;");

int nad = sc.nextInt();

clintle c = new Candius of circle:");

int rad = sc.nextInt();

s = r;

s.printArea();

s = c;

s.printArea();

s = c;

s.printArea();

}

}
```

```
E:\jdk8\bin\ooj lab>java shapeMain
Enter dimensions of rectangle:
4 6
Enter dimensions of triangle:
6 3
Enter radius of circle:
3
Area of rectangle is: 24
Area of triangle is: 9
Area of circle is: 28.274333882308138
```