

```
abstract class Shape {
    int len;
    int bre;

    Shape(int len, int bre) {
        this.len = len;
        this.bre = bre;
    }

    abstract void printArea();
}

class Rectangle extends Shape {
    Rectangle(int len, int bre) {
        super(len, bre);
    }

    void printArea() {
        System.out.println("Area of Rectangle: " + len * bre);
    }
}

class Triangle extends Shape {
    Triangle(int len, int bre) {
        super(len, bre);
    }

    void printArea() {
        System.out.println("Area of Triangle: " +
            (0.5 * len * bre));
    }
}
```



```
class Circle extends Shape {
```

```
    Circle(int len) {
```

```
        super(len, len);
```

```
    }
```

```
    void printArea() {
```

```
        double area = 3.1415 * len * len;
```

```
        System.out.println("Area of circle " + area);
```

```
    }
```

```
}
```

```
class W4P1 {
```

```
    public static void main(String[] args) {
```

```
        Scanner input = new Scanner(System.in);
```

```
        Triangle t1 = new Triangle(input.nextInt(),
```

```
            input.nextInt());
```

```
        t1.printArea();
```

```
        Rectangle r1 = new Rectangle(input.nextInt(), input.nextInt());
```

```
        r1.printArea();
```

```
        Circle c1 = new Circle(input.nextInt());
```

```
        c1.printArea();
```

```
    }
```

```
}
```