

## LAB 4

```
import java.util.*;
```

```
abstract class shape {
```

```
    abstract double printArea();
```

```
    double a, b;
```

```
}
```

```
class Triangle extends shape
```

```
{
```

```
    Triangle(double x, double y) {
```

```
        a = x;
```

```
        b = y;
```

```
    }
```

```
    double printArea() {
```

```
        {
```

```
            System.out.println("area of Triangle →");
```

```
            return a*b;
```

```
        }
```

```
    }
```

```
class Rectangle extends shape
```

```
{
```

```
    Rectangle(double x, double y)
```

```
    {
```

```
        a = x;
```

```
        b = y;
```

```
    }
```

```
    double printArea() {
```

```
        System.out.println("area of Rectangle →");
```

```
        return a*b/2;
```

```
    }
```

```
}
```

```
class circle extends shape
```

```
{
```

```
    Circle (double x) {
```

```
        a = x;
```

```
    }
```

```
    double printArea()
```

```
    {
```

```
        System.out.println("area of circle --> ");
```

```
        return 3.14 * a * a;
```

```
    }
```

```
}
```

```
class Area.
```

```
{
```

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

```
    {
```

```
        Triangle t = new Triangle (10, 20);
```

```
        Rectangle r = new Rectangle (23, 24);
```

```
        Circle c = new Circle (5);
```

```
        System.out.println("t.printArea()");
```

```
        System.out.println("r.printArea()");
```

```
        System.out.println("c.printArea()");
```

```
    }
```

```
}
```