

```

lab4> import java.util.Scanner;
abstract class Shape {
    int a, b;
    Shape(a, b):
    Shape(int a, int b) {
        this.a = a;
        this.b = b;
    }
    abstract void printArea();
}

class Rectangle extends Shape {
    Rectangle(int a, int b) {
        super(a, b);
    }
    void printArea() {
        System.out.println("Area of the rectangle = "
            + (a * b));
    }
}

class Triangle extends Shape {
    Triangle(int a, int b) {
        super(a, b);
    }
    void printArea() {
        System.out.println("Area of the triangle = "
            + (a * b) ((float) a * b) / 2);
    }
}

```



```
class Circle extends Shape {
```

```
Circle extends
```

```
Circle (inta, int b) {
```

```
    super(a, b)
```

```
void printArea() {
```

```
    System.out.println("Area of the circle = " +  
        (2 * 3.14 * a));
```

```
}  
}   
public class Week-8-lab-4 {
```

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

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

```
        int a, b;
```

```
        System.out.println("Enter the values for  
        the integers a and b:");
```

```
        a = S.nextInt();
```

```
        b = S.nextInt();
```

```
        Rectangle r = new Rectangle(a, b);
```

```
        Triangle t = new Triangle(a, b);
```

```
        Circle c = new Circle(a, b);
```

```
        r.printArea();
```

```
        t.printArea();
```

```
        c.printArea();
```

```
}  
}
```