

Lab 4 - program

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18M19CS194

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

```
abstract class Shape {
```

```
    Scanner in = new
```

```
    Scanner(System.in);
```

```
    int a1, a2;
```

```
    Shape () {
```

```
        System.out.println("Input 2 integer values:");
```

```
        a1 = in.nextInt();
```

```
        a2 = in.nextInt();
```

```
    }
```

```
    abstract void printArea();
```

```
}
```

```
class Rectangle extends Shape {
```

```
    void printArea() {
```

```
        System.out.println("Rectangle: " + a1 * a2);
```

```
    }
```

```
}
```

```
class Circle extends Shape {
```

```
    void printArea() {
```

```
        System.out.println("Circle 1: " + (3.14 * a1 * a1));
```

```
        System.out.println("Circle 2: " + (3.14 * a2 * a2));
```

```
    }
```

```
}
```

class testAbstract {

public static void main (String [] args)

{

Shape s ;

s = new Rectangle ();

s.printArea ();

s = new ^{Triangle}Rectangle ();

s.printArea ();

s = new Circle ();

s.printArea ();

}

}