

## LAB 4

classmate

Date

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```
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 Triangle extends Shape {
    void printArea() {
        System.out.println("Triangle: " + (a1 + a2) / 2);
    }
}

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();  
        s.printArea();  
        s = new Circle();  
        s.printArea();  
    }  
}
```