

# Week 04 : Programming Assignment 5

Due on 2025-02-20, 23:59 IST

Modify the code segment to print the following output.

-----OUTPUT-----  
Circle: This is Shape1  
Circle: This is Shape2  
-----

Private Test cases used for evaluation	Input	Expected Output	Actual Output	Status
Test Case 1		Circle: This is Shape1\nCircle: This is Shape2	Circle: This is Shape1\nCircle: This is Shape2	Passed

The due date for submitting this assignment has passed.  
1 out of 1 tests passed.  
You scored 100.0/100.

Assignment submitted on 2025-02-20, 19:59 IST

Your last recorded submission was :

```
1 // Interface ShapeX is created
2 interface ShapeX {
3     public String base = "This is Shape1";
4     public void display1();
5 }
6
7 // Interface ShapeY is created which extends ShapeX
8 interface ShapeY extends ShapeX {
9     public String base = "This is Shape2";
10    public void display2();
11 }
12 class ShapeG implements ShapeY {
13     public String base = "This is Shape3";
14     // Overriding method in ShapeY interface is ok
15     public void display2() {
16         System.out.print("Circle: " + ShapeY.base);
17     }
18
19     //Overriding method in ShapeX interface is done
20     public void display1() {
21         System.out.println("Circle: " + ShapeX.base);
22     }
23 }
24
25 public class Main{
26     public static void main(String[] args) {
27         //Object of class shapeG is created and display methods are called.
28         ShapeG circle = new ShapeG();
29         circle.display1();
30         circle.display2();
31     }
32 }
```

Sample solutions (Provided by instructor)

```
1 // Interface ShapeX is created
2 interface ShapeX {
3     public String base = "This is Shape1";
4     public void display1();
5 }
6
7 // Interface ShapeY is created which extends ShapeX
8 interface ShapeY extends ShapeX {
9     public String base = "This is Shape2";
10    public void display2();
11 }
12 // Class ShapeG is created which implements ShapeY
13 class ShapeG implements ShapeY {
14     public String base = "This is Shape3";
15     //Overriding method in ShapeX interface
16     public void display1() {
17         System.out.println("Circle: " + ShapeX.base);
18     }
19     // Overriding method in ShapeY interface
20     public void display2() {
21         System.out.println("Circle: " + ShapeY.base);
22     }
23 }
24 public class Main{
25     public static void main(String[] args) {
26         //Object of class shapeG is created and display methods are called.
27         ShapeG circle = new ShapeG();
28         circle.display1();
29         circle.display2();
30     }
31 }
```