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NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » **Programming in Java (course)**

Announcements (announcements)

About the Course (https://swayam.gov.in/nd1_noc20_cs08/preview)   Ask a Question (forum)

Progress (student/home)   Mentor (student/mentor)

Course outline

How does an NPTEL online course work?

Week 0 :

Week 1 :

Week 2 :

Week 3 :

Week 4 :

○ Lecture 16 : Demonstration-VII (unit? unit=5&lesson=30)

○ Lecture 17 : Packages-I

Java Week 4: Q5

Due on 2020-02-27, 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\n Circle: This i s Shape2\n	Circle: This is Shape1\n Circle: This is Shape2\n	Passed

Due Date Exceeded.
1 out of 1 tests passed.
You scored 100.0/100.

Your last recorded submission was :

```
1  interface ShapeX
2  {
3    public String base = "This is Shape1";
4    public void display1();
5  }
6
7  interface ShapeY extends ShapeX
8  {
9    public String base = "This is Shape2";
10   public void display2();
11 }
12
```

```java
13  class ShapeG implements ShapeY
14  {
15    public String base = "This is Shape3";
16    public void display1()
17  {
18      System.out.println("Circle: " + ShapeX.base);
19    }
20    public void display2()
21    {
22      System.out.println("Circle: " + ShapeY.base);}
23  }
24  // Main class Question
25  public class Question45{
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  }
33
```

Sample solutions (Provided by instructor)

Select the Language . Java ▼

```java
 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
13  // Class ShapeG is created which implements ShapeY
14  class ShapeG implements ShapeY {
15    public String base = "This is Shape3";
16    //Overriding method in ShapeX interface
17    public void display1() {
18      System.out.println("Circle: " + ShapeX.base);
19    }
20    // Overriding method in ShapeY interface
21    public void display2() {
22      System.out.println("Circle: " + ShapeY.base);
23    }
24  }
25
26  // Main class Question
27  public class Question45{
28    public static void main(String[] args) {
29      //Object of class shapeG is created and display methods are called.
30      ShapeG circle = new ShapeG();
31      circle.display1();
32      circle.display2();
33    }
34  }
35
```

**Assignment
Solution**