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

How does an
NPTEL online
course work?

Week 0 :

Week 1 :

Week 2 :

Week 3 :

☐ Lecture 11 :
Java Static
Scope Rule
(unit?
unit=4&lesson=25)

☐ Lecture 12 :
Demonstration-
V (unit?
unit=4&lesson=26)

Java Week 3: Q2

Due on 2020-02-20, 23:59 IST

Define a class **Point** with two fields **x** and **y** each of type **double**. Also , define a method **distance(Point p1, Point p2)** to calculate the distance between points **p1** and **p2** and return the value in **double**. Complete the code segment given below. Use **Math.sqrt()** to calculate the square root.

Private Test cases used for
evaluation

Input

Expected
Output

Actual
Output

Status

Test Case 1

1.0
1.0
1.0
1.0

0.0

0.0

Pass
ed

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

Your last recorded submission was :

```

1 import java.util.Scanner;
2
3 public class Circle extends Point{
4
5     public static void main(String[] args) {
6
7         Scanner sc = new Scanner(System.in);
8         Point c=new Point(); //Create a point center
9         c.x=sc.nextDouble();
10        c.y=sc.nextDouble();
11        Point p=new Point(); //Create a point on circumference
12        p.x=sc.nextDouble();
13        p.y=sc.nextDouble();
14        Circle c1=new Circle(); //Create an object of class Circle
15        c1.distance(c,p); //Calcualte radius of the circle

```

☐ Lecture 13 :
Inheritance
(unit?
unit=4&lesson=27)

☐ Lecture 14 :
Demonstration-
VI (unit?
unit=4&lesson=28)

☐ Lecture 15 :
Information
Hiding (unit?
unit=4&lesson=29)

☒ Quiz :
Assignment 3
(assessment?
name=95)

☒ Java Week 3:
Q1
(/noc20_cs08/progassign
name=107)

☒ Java Week 3:
Q2
(/noc20_cs08/progassign
name=108)

☒ Java Week 3:
Q3
(/noc20_cs08/progassign
name=109)

☒ Java Week 3:
Q4
(/noc20_cs08/progassign
name=110)

☒ Java Week 3:
Q5
(/noc20_cs08/progassignment?
name=111)

☐ Feedback For
Week 3 (unit?
unit=4&lesson=124)

Week 4 :

Week 5 :

Week 6 :

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```

16     }
17 }
18 }
19 }
20 }
21 //Complete the code segment to define a class Point with variable x,y and me
22 //Note: Pass objects of type class Point as argument in distance() method.
23 class Point{
24     double x,y;
25     public void distance(Point p1, Point p2){
26         System.out.print(Math.sqrt(((p1.x-p1.y)*(p1.x-p1.y)+(p2.x-p2.y)*(p2.x-p2.
27     })
28 }
29 }

```

Sample solutions (Provided by instructor)

Select the Language .

```

1 import java.util.Scanner;
2
3 public class Circle extends Point{
4
5     public static void main(String[] args) {
6
7         Scanner sc = new Scanner(System.in);
8         Point c=new Point(); //Create a point center
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11        Point p=new Point(); //Create a point on circumference
12        p.x=sc.nextDouble();
13        p.y=sc.nextDouble();
14        Circle c1=new Circle(); //Create an object of class Circle
15        c1.distance(c,p); //Calcualte radius of the circle
16    }
17 }
18
19 }
20
21 class Point{
22     double x;
23     double y;
24
25     public static void distance(Point p1,Point p2){
26         double d;
27         d=Math.sqrt((p2.x-p1.x)*(p2.x-p1.x) + (p2.y-p1.y)*(p2.y-p1.y));
28         System.out.println(d);
29     }
30 }

```

**Assignment
Solution**