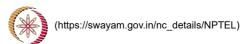X

sainaveen.in@gmail.com ⌄

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 :

● 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.

Select the Language for this assignment. Java ▼

File name for this program : Circle.java

```
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
16
17    }
18
19 }
20
```

```
21 //Complete the code segment to define a class Point with variab
22 //Note: Pass objects of type class Point as argument in distanc
23  class Point
24 {
25    double x,y;
26    void distance(Point p1,Point p2)
27    {
28      double w,z;
```

**DOWNLOAD
VIDEOS**

**Assignment
Solution**

```
29      w=p1.x-p2.x;
30      z=p1.y-p2.y;
31    System.out.print(Math.sqrt(Math.pow(w,2)+Math.pow(z,2)));
32    }
33 }
```

◄   ►

You may submit any number of times before the due date. The final submission will
be considered for grading.
**This assignment has Public Test cases. Please click on "Compile & Run" button
to see the status of Public test cases. Assignment will be evaluated only after
submitting using Submit button below. If you only save as or compile and run the
Program , your assignment will not be graded and you will not see your score
after the deadline.**

Save as Draft	Compile & Run	Submit	Reset

Sample Test Cases

	Input	Output
Test Case 1	2.0 3.0 1.0 2.0	1.4142135623730951
Test Case 2	2.0 1.0 1.0 1.0	1.0