X

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	Passed

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
```

```
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 . Java ▼

```
1  import java.util.Scanner;
2
3   public class Circle extends Point{
4
5       public static void main(String[] args) {
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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