

Question 3 Distance\DistanceTest.java

```
1  import java.util.Scanner;
2
3  public class DistanceTest {
4      public static void main(String[] args) {
5          Scanner scanner = new Scanner(System.in);
6
7          // Prompt the user to enter coordinates for point 1
8          System.out.println("Enter the first point x and y:");
9          double x1 = scanner.nextDouble();
10         double y1 = scanner.nextDouble();
11
12         // Prompt the user to enter coordinates for point 2
13         System.out.println("Enter the second point x and y:");
14         double x2 = scanner.nextDouble();
15         double y2 = scanner.nextDouble();
16
17         // Create two Point objects
18         Point point1 = new Point(x1, y1);
19         Point point2 = new Point(x2, y2);
20
21         // Compute and print the distance between the two points
22         double distance = point1.distance(point2);
23         System.out.println("The distance between X and Y is: " + distance);
24
25         scanner.close();
26     }
27 }
28
```