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CSP26A TTH 10:30

In-class Lab 04

02/04/2020

Distance between two points

prompt "Enter x_1 "

Get x_1

prompt "Enter y_1 "

Get y_1

prompt "Enter x_2 "

Get x_2

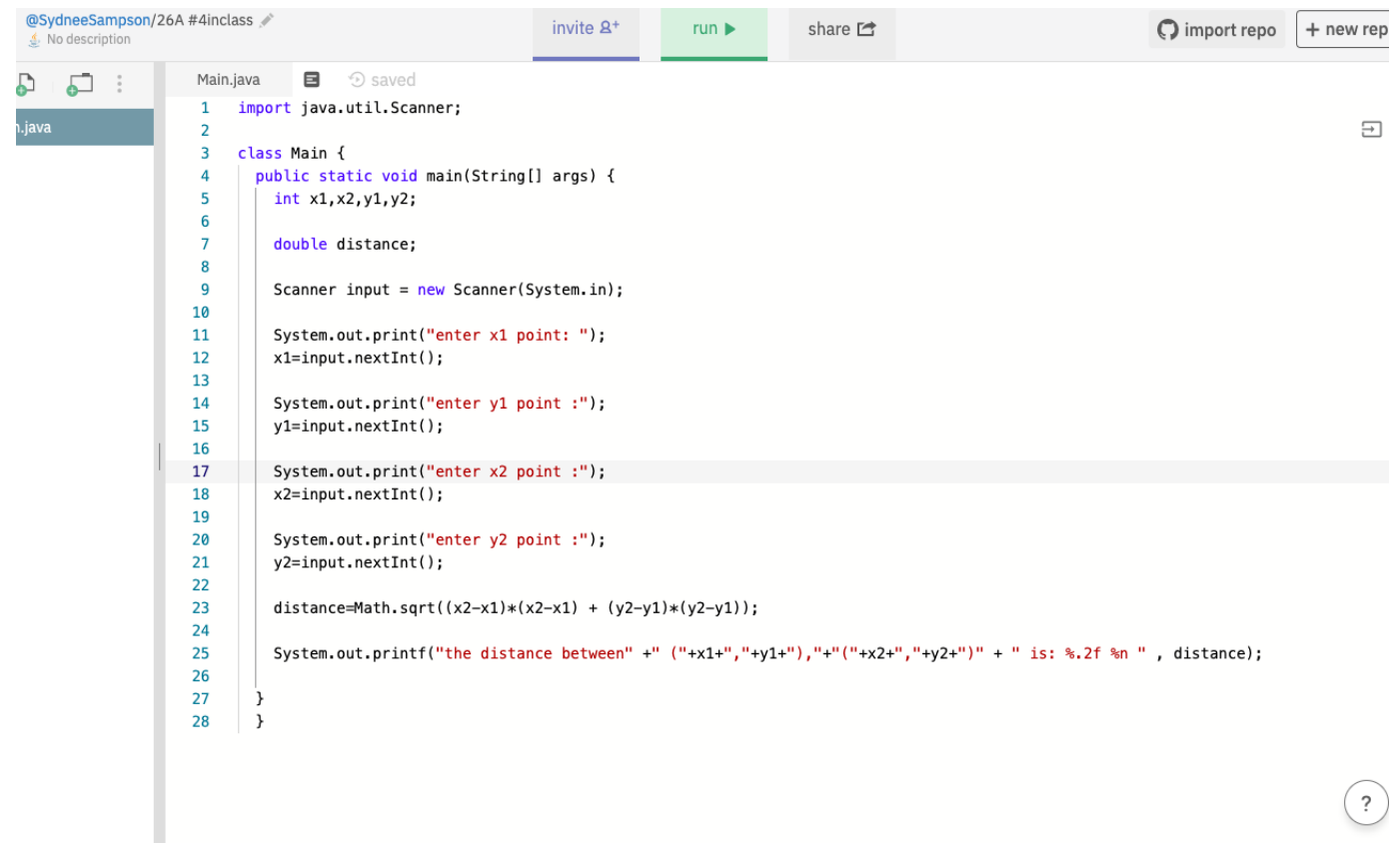
prompt "Enter y_2 "

Get y_2

Calculate distance

$$\text{Distance} = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

Display distance



The screenshot shows a Java IDE with a file named Main.java. The code is as follows:

```
1 import java.util.Scanner;
2
3 class Main {
4     public static void main(String[] args) {
5         int x1,x2,y1,y2;
6
7         double distance;
8
9         Scanner input = new Scanner(System.in);
10
11         System.out.print("enter x1 point: ");
12         x1=input.nextInt();
13
14         System.out.print("enter y1 point:");
15         y1=input.nextInt();
16
17         System.out.print("enter x2 point:");
18         x2=input.nextInt();
19
20         System.out.print("enter y2 point:");
21         y2=input.nextInt();
22
23         distance=Math.sqrt((x2-x1)*(x2-x1) + (y2-y1)*(y2-y1));
24
25         System.out.printf("the distance between" + " (" +x1+", "+y1+",)+" (" +x2+", "+y2+",)" + " is: %.2f %n " , distance);
26
27     }
28 }
```

The IDE interface includes a top bar with the user's name (@SydneeSampson/26A #4inclass), a description (No description), and buttons for invite, run, share, import repo, and + new rep. The left sidebar shows a file explorer with a folder named h.java. The bottom right corner has a circular button with a question mark.

@SydneeSampson/26A #4inclass

invite

run

share

import repo

+ new rep

h.java

https://26A-4inclass.sydneesampson.repl.run

OpenJDK Runtime Environment (build 10.0.2+13-Ubuntu-1ubuntu0.18.04.4)
✧ javac -classpath ./run_dir/junit-4.12.jar -d . Main.java
✧ java -classpath ./run_dir/junit-4.12.jar Main
enter x1 point: 2
enter y1 point :4
enter x2 point :6
enter y2 point :8
the distance between (2,4),(6,8) is: 5.66
✧
✧