Lab 02 – Program development

# Questions

1. What variables do you need? What types should they be?

You need two variables for each point, and one for the result (distance):

* x1 (type: double)
* y1 (type: double)
* x2 (type: double)
* y2 (type: double)
* distance (type: double)

1. Do you need any constants? If so, what type(s)?

No, in this program all variables should be able to change value.

1. What kinds of calculations do you need?

You need to calculate the distance with the formula:

1. Do you need user input? If so, what should you prompt?

Yes, the program prompts the user two points with the four variables x1,y1, and x2, y2.

1. What information do you need to return to the user?

The distance calculated. Which is the value of the variable ‘distance’.

1. Do you need to import any packages?

Yes, you need to import the Scanner object from java.util and the Math object from java.lang.

# Program Distance

**File name:** C:\Users\enriq\Documents\Langara Computer Science\CPSC 1150\lab02\Distance.java

**Purpose:** Calculate distance between two points entered by the user.

**Input:** The values of x and y of two different points.

**Output:** The calculated distance between the two points.