# Lab Exercise 2

Chapter 2 Elementary Programming

Chapter 3 Control Structures

# INSTRUCTIONS TO THE STUDENTS

- This exercise must be done **individually**.
- Any form of plagiarism is **NOT ALLOWED**. Students who copied other students' assignments will get **ZERO** marks (both parties, students who copied, and students who shared their work).
- Please insert your **name and matric number** as a comment in your solution.

# SUBMISSION PROCEDURE

- Please submit this exercise no later than **November 23, 2023, Thursday (11.59 PM MYT)**.
- Only one file is required for the submission (the file with the extension **.pdf**).
- Submit it via the UTM's e-learning system (https://elearning.utm.my/23241/).

# WRITE A C++ PROGRAM
## based on the tasks below:

- Set the values:

  x1 = 1; y1 = 3; x2 = 2; y2 = 6; x3 = 5; y3 = 4;

- Find the distance between every pair of points A(1, 3), B(2, 6), and C(5, 4) using Euclidean Distance Formula.

- The output of the program:

  A(1, 3), B(2, 6), and C(5, 4)

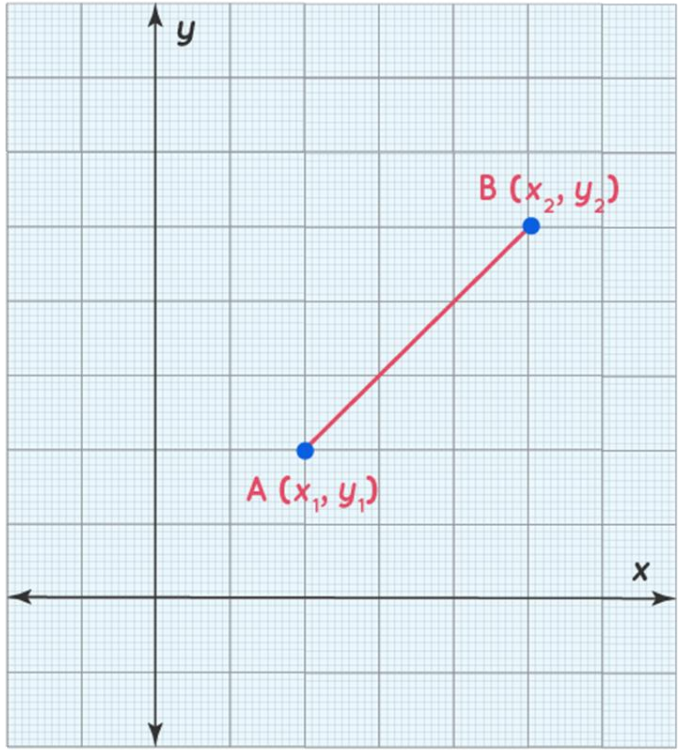
| | x | y |
|---|---|---|
| A | 1 | 3 |
| B | 2 | 6 |
| C | 5 | 4 |

AB =

AC =

BC =

Euclidean Distance Formula




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