Assignment 2:

Objective:

To work with basic input-output and decision making commands.

Assignment:

Write a python program that prints a menu, with options performing the following operations. The option number should be provided as user input. The functions performed by each option is given below:

Option 1: User input your name and age store it in variables 'name' and 'age' respectively. Then print the statement as "My name is <<name>> and my age is << age>>".

Option 2: Accept two coordinate values as float and store them in variables x_1, y_1, x_2 and y_2. Find the distance between two points (x_1, y_1) and (x_2, y_2) using the formula, $\text{sqrt}((x_2 - x_1)^2 + (y_2 - y_1)^2)$ and print them. (Hint: You may need to import math module and use sqrt () and pow ()).

Option 3: Exit from the program.

Sample Output:

Menu:

1. Option 1
2. Option 2
3. Exit

Please enter an option:

>>1

Please enter your name:
abc

Please enter your age:
10

My name is abc and my age is 10.

Menu:

1. Option 1

2. Option 2
3. Exit

Please enter an option:

>>2

Please enter the x value of first coordinate:
30
Please enter the y value of first coordinate:
20
Please enter the x value of second coordinate:
50
Please enter the y value of second coordinate:
40

The distance between (x1, y1) and (x2, y2) is
28.2842

Instructions:

- Preferred programming environment:
    - OS : Linux (Mint)
    - Interpreter : Python 3
    - Editor : gedit or any other editor of your choice
- The program is saved as a file with .py extension. Submit the .py file to blackboard.
- The program should include a comment block at the top with your name, course number and course section, assignment number.

    For example:
    ```
    # Your name
    # CSCI II 161 L01/L02
    # Assignment 2
    ```

- Upload your file as your *lastname_firstname_assignmentnumber.py*
    For example: *lastname_firstname_2.py*