Programming Assignment 2.1

1. Problem definition

The purpose of this program is to calculate and convert temperature units. The user inputs the number for Celsius temperature and the program will get the conversion and will show how much is in Fahrenheit.

1. Input and Output

* Input: one int value for the number of Celsius we want to convert
* Output: One float number showing the temperature in Fahrenheit

1. Variables

* Int Celsius = User inputs the temperature in Celsius
* Float Fahrenheit = Program print the temperature in Fahrenheit

1. Flow Chart

Calculate the conversion from Celsius to Fahrenheit.

Fahrenheit = ( (9 / 5) \* celsius) + 32

Ask the user to enter one value, the temperature in Celsius.

celsius

Start

Print the temperature in fahrenheit

Print(“Fahrenheit: ”f’{fahrenheit:.2f}’)

End

1. Errors and Lessons

Output show different results

* The program was showing different numbers than the expected output.
* Fix: using the parenthesis I gave priority to the operations to make sure they were done in the right order.

Lessons

* I learned about the math operations in python because when we use the parenthesis “()” the program give it priority and it will execute it first and then the ones outside the parenthesis.