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AI LAB: 2

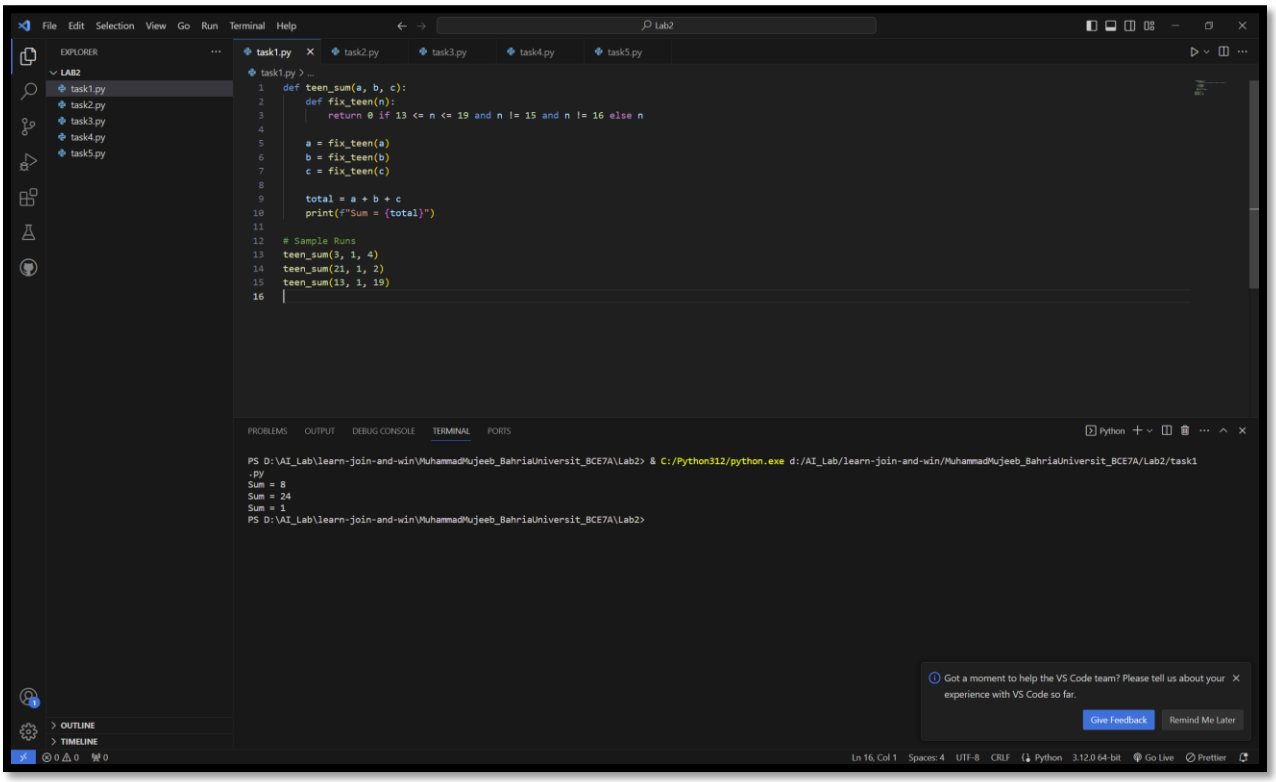
Exercise 1

Given 3 int values, a b c, return their sum. However, if any of the values is a teen -- in the range 13..19 inclusive -- then that value counts as 0.

Sample Run:

Input: a=3, b=1, c=4 ; a=21, b=1, c=2 ; a=13, b=1, c=19

Output: Sum= 8, ; Sum=24 ; Sum = 1



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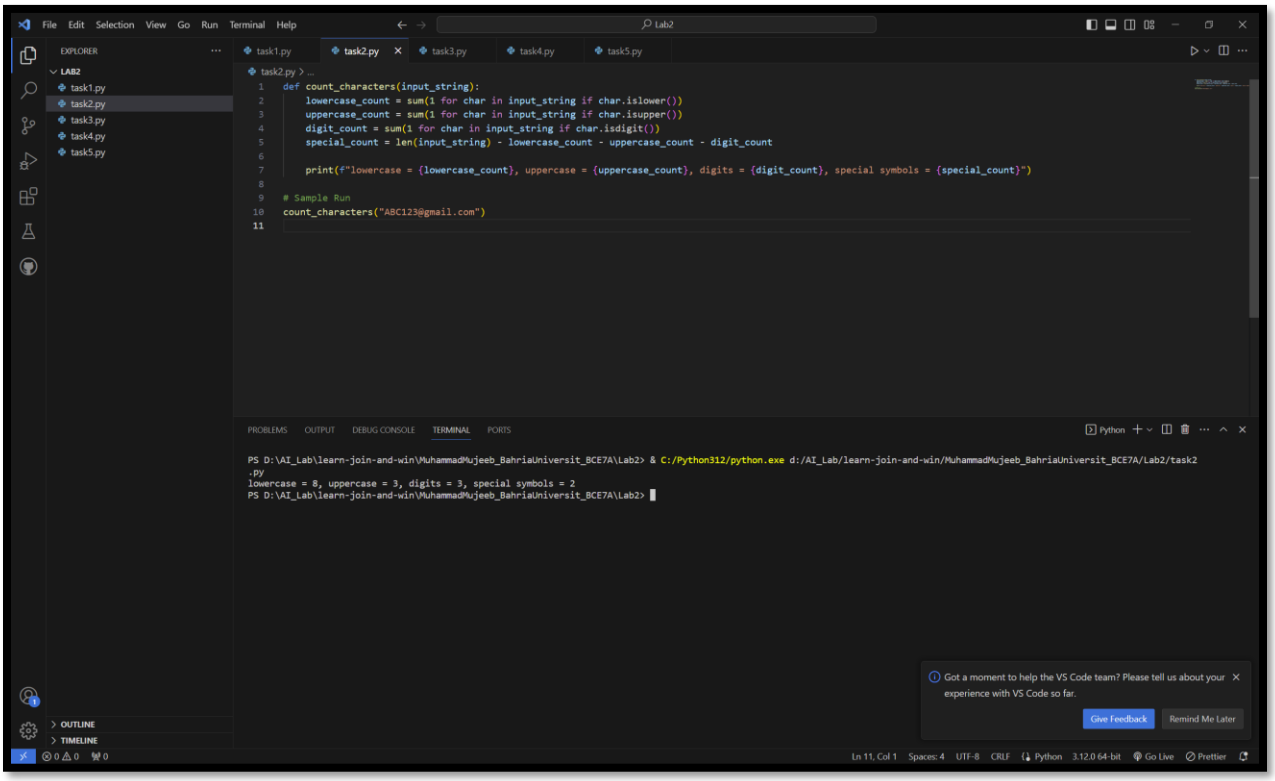
Exercise 2

Given a string input Count all lower case, upper case, digits, and special symbols.

Sample Run:

String: ABC123@gmail.com

Output: lowercase = 8, uppercase = 3 , special symbols = 2 , digits = 3



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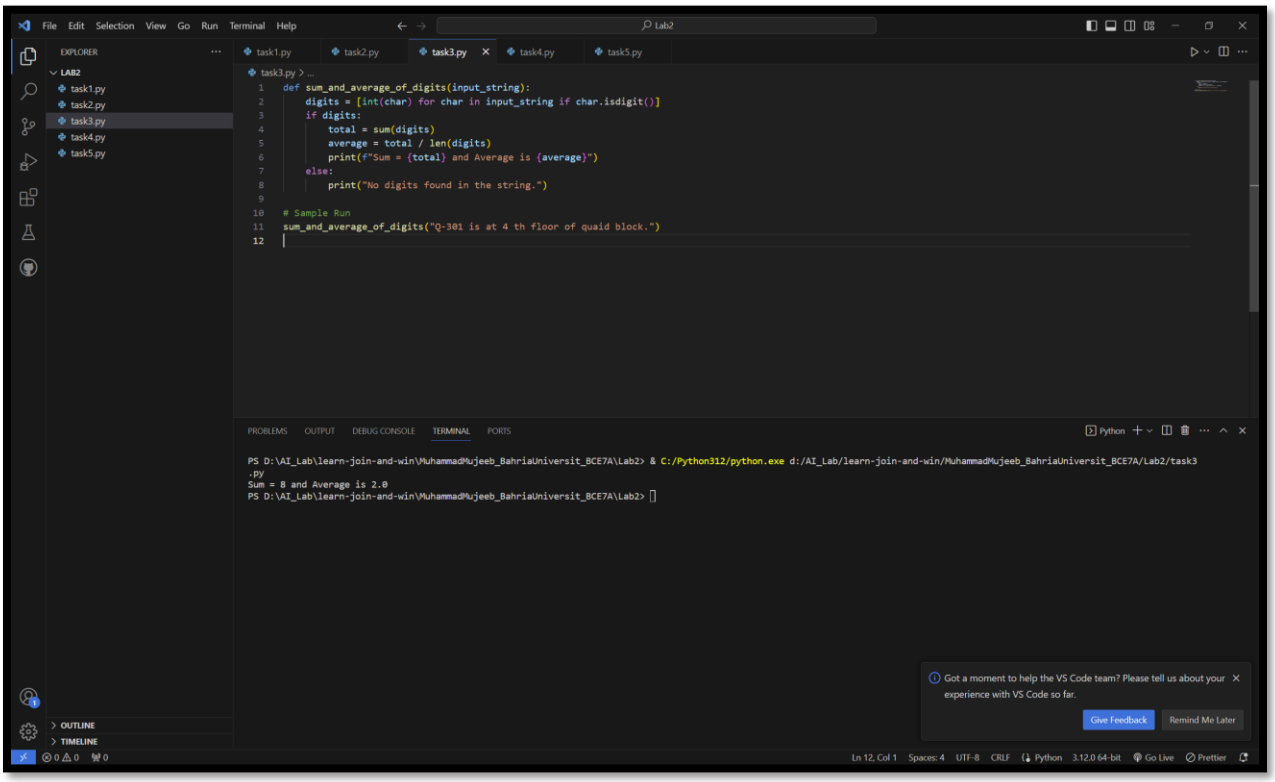
Exercise 3

Given a string, return the sum and average of the digits that appear in the string, ignoring all other characters.

Sample Run:

String: Q-301 is at 4 th floor of quaid block.

Output: Sum = 8 and Average is 2



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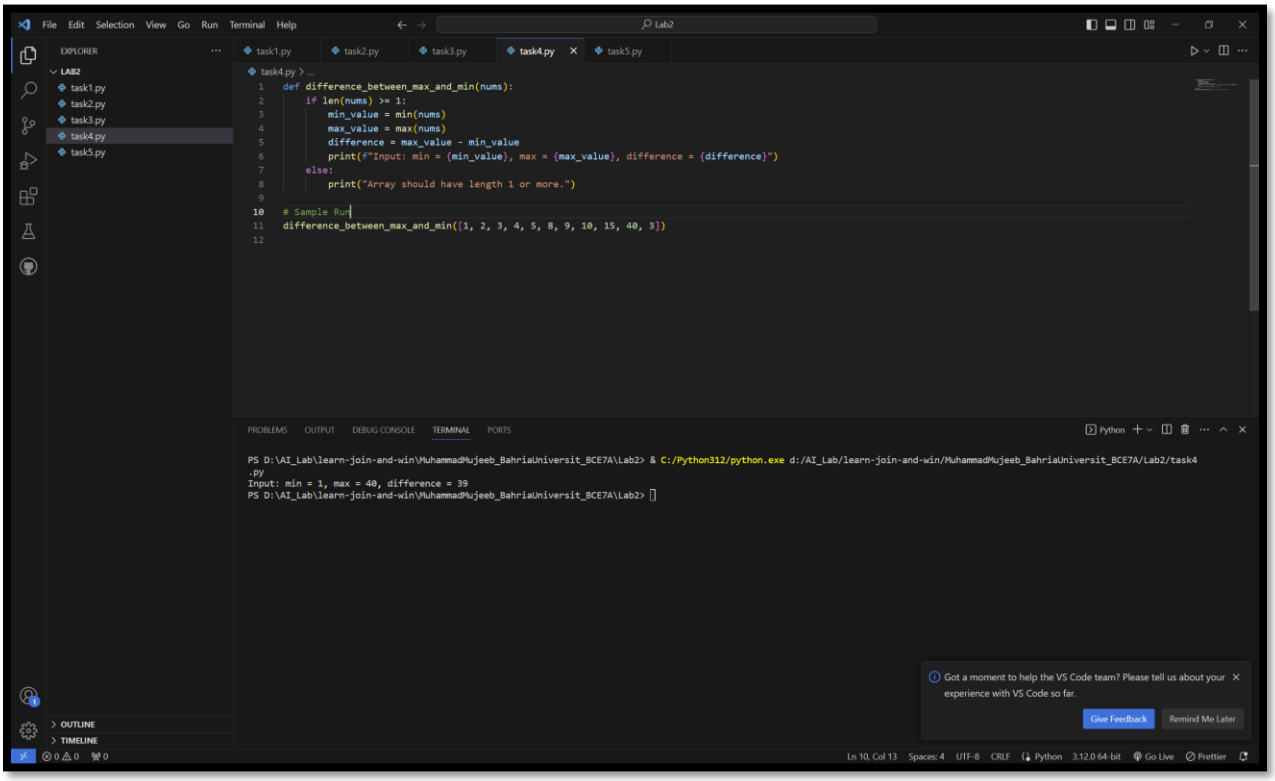
Exercise 4

Given an array length 1 or more of ints, return the difference between the largest and smallest values in the array. Note: the built-in min(v1, v2) and max(v1, v2) functions return the smaller or larger of two values.

Sample Run: 1,2,3,4,5,8,9,10,15,40,3

Input: min = 1, max= 40 difference = 39



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Exercise 5

Return the number of times that the string "ant" appears anywhere in the given string, except we'll accept any letter for the 'n', so "art" and "abt" and other counts.

Sample Run:

String: Antandart

Output: count = 2