Python Test: 13.00 - 15.00

Rules

- You must pass all exercises to pass the test,
- Aids: Paper, pen, your laptop, VS Code, the website docs.python.org/3/library/.
- No documentation of the code is needed.

Exercise 0 (Preparation)

Create a new folder in Visual Studio Code entitled python_test and store all Python test related files in that project. Close all other files!

Exercise 1

Create a program consecutive.py containing a function get_consecutive(s) that returns the first (from left) character in string s that is followed by an identical character. It should return None if no such character exists. That is, the input strings aBBa, Jonass, ooops, and abcd should return B, s, o, and None respectively. Also, add program code that demonstrates how the function can be used.

Exercise 2

Create a program lower.py containing a function only_lower(lst) that takes a list of letters ([a-z,A-Z]) and returns a new list with all the lower case letters ([a-z]) in the list lst. The input list lst should not be changed. For example, input ['a', 'B', 'J', 'x', 'w'] should return ['a', 'x', 'w']. Also, add program code that demonstrates how the function can be used.

Exercise 3

Create a program filled_triangle.py reading a positive integer n>2 from the keyboard, and then prints the corresponding filled right-angled triangle using symbols x and o. See example below to see what we mean by a filled right-angled triangle .