# Python Test, 10.15 - 12.15

### **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 Python program sum.py containing a function sum100 (1st) that returns True if the integer list 1st contains two integers that adds up to 100. For example, the two lists [33,5,67,98,51] and [-27,14,67,51,127] should return True since (33,67) and (-27,127)) adds up to 100. The list [33,5,62,94,51] should return False since no pair of numbers in the list adds up to 100. Also, add program code that demonstrates how the function can be used.

#### Exercise 2

Create a Python program wrap\_around.py with a function wrap(s,p) that returns a new string containing all characters in string s separated with string/character p. That is, for input abcd, + it should return +a+b+c+d+, and for input Alice, FF it should return FFAFF1FFiFFcFFeFF. Notice that the returned string both starts and ends with p. Also, add program code that demonstrates how the function can be used.

#### Exercise 3

Create a Python program no\_duplicates.py that reads an arbitrary number of integers from the keyboard. You type a duplicate element (one that already been provided) to stop the reading process. The program ends by printing all the integers (except the final duplicated). An execution might look like this:

```
Provide integers and stop with a duplicate element Number 1: 6
Number 2: 7
Number 3: -16
Number 4: 20
Number 5: 7

All numbers
6
7
-16
20
```