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 `dash.py` containing a function `add_dash(s)` that returns a new string that starts and ends with a dash `"-"`, and then contains all characters in string `s` separated with a dash. That is, for input `abcd` it should return `-a-b-c-d-`, and for input `Jonas` it should return `-J-o-n-a-s-`. Input strings with zero characters should be returned as they are. Also, add program code that demonstrates how the function can be used.

Exercise 2

Create a Python program `exclusive_or.py` containing a function `xor(a, b)` that returns `True` if either `a` or `b` is `True` (but not both), and `False` in all other cases. That is, for input `True,False` and `False,True` it should return `True`, and for `True,True` and `False,False` it should return `False`. Also, add program code that demonstrates how the function can be used.

Exercise 3

Create a program **triangle.py** reading a positive integer *n* from the keyboard, and then prints a right-hand isosceles triangle. See example below to see what we mean by a right-hand isosceles triangle.

```
Enter a positive integer: 4
   *
  **
 ***
****
 ***
  **
   *
```