Lab 3.3.1 Writing your own functions – basics

Objectives

Familiarize the student with:

- projecting and writing parameterized functions;
- utilizing the return statement;
- testing the functions.

Scenario

Your task is to write and test a function which takes one argument (a year) and returns True if the year is a leap year, or False otherwise. The seed of the function is already sown in the skeleton code (below).

Note: we've also prepared a short testing code, which you can use to test your function. The code uses two lists – one with the test data, and the other containing the expected results. The code will tell you if any of your results are invalid.

```python
def IsYearLeap(year):
#
# put your code here
#
testdata = [1900, 2000, 2016, 1987]
testresults = [False, True, True, False]
for i in range(len(testdata)):
    yr = testdata[i]
    print(yr,"->",end="")
    result = IsYearLeap(yr)
if result == testresults[i]:
    print("OK")
else:
    print("Failed")
```