

# Sprawozdanie lab13

## Test Driven Development(TDD)

Faza1 RED:

```
app.py x test_app.py x
1 from app import bubble_sort
2 import pytest
3
4 testdata1 = [
5     ([4, 2, 5, 3, 1], [1, 2, 3, 4, 5]),
6     ([8, 7, 6, 5, 4, 3, 2, 1], [1, 2, 3, 4, 5, 6, 7, 8])]
7
8
9 @pytest.mark.parametrize('sample, expected_output', testdata1)
10 def test_extract_sentiment(sample, expected_output):
11     assert bubble_sort(sample) == expected_output
12
```

Tests failed: 1 of 1 test

C:\Users\turgo\anaconda3\envs\...  
Testing started at 09:23 ...  
C:\Users\turgo\PyCharm Communi...

Faza2 GREEN:

```
def bubble_sort(list):
    for i in range(len(list)):
        for j in range(len(list)-i-1):
            if list[j] > list[j + 1]:
                temp = list[j]
                list[j] = list[j+1]
                list[j + 1] = temp
    return list
```

Tests passed: 2 of 2 tests  
0 ms collecting ... co

Faza3 REFACTOR:

```
29 def bubble_sort(list):
30     for i in range(len(list)):
31         for j in range(len(list)-i-1):
32             if list[j] > list[j + 1]:
33                 list[j], list[j + 1] = list[j + 1], list[j]
34     return list
```

Tests passed: 2 of 2 tests - 0  
0 ms collecting ... colle