

1. Faza czerwona

```
✖ Tests failed: 1 of 1 test - 0 ms
C:\Users\pacio\PycharmProjects\pythonProject1\venv\Scripts\python.exe "C:\Program Files\JetBrains\PyCharm 2021.2\plugins\python\helpers\pycharm\jb_pytest_runner.py" --target test_app.py::test_text_contain_word
Testing started at 11:10 ...
Launching pytest with arguments test_app.py::test_text_contain_word --no-header --no-summary -q in C:\studia\sem_5\AiBD\lab_13\my_app\test

===== test session starts =====
collecting ... collected 1 item

test_app.py::test_text_contain_word[list0-expected_output0] FAILED [100%]
test_app.py:7 (test_text_contain_word[list0-expected_output0])
list = [5, 4, 1, 2, 8, 2], expected_output = [1, 2, 2, 4, 5, 8]

@pytest.mark.parametrize('list, expected_output', testdata)
def test_text_contain_word(list, expected_output):
>     assert app.bubble_sort(list) == expected_output
E     AttributeError: module 'my_app.app' has no attribute 'bubble_sort'

test_app.py:10: AttributeError

===== 1 failed in 1.02s =====

Process finished with exit code 1
```

2. Faza zielona

```
✔ Tests passed: 1 of 1 test - 0 ms
C:\Users\pacio\PycharmProjects\pythonProject1\venv\Scripts\python.exe "C:\Program Files\JetBrains\PyCharm 2021.2\plugins\python\helpers\pycharm\jb_pytest_runner.py" --target test_app.py::test_text_contain_word
Testing started at 11:11 ...
Launching pytest with arguments test_app.py::test_text_contain_word --no-header --no-summary -q in C:\studia\sem_5\AiBD\lab_13\my_app\test

===== test session starts =====
collecting ... collected 1 item

test_app.py::test_text_contain_word[list0-expected_output0] PASSED [100%]

===== 1 passed in 0.84s =====

Process finished with exit code 0
```

```
def bubble_sort(lista: List):
    finish = False
    while finish is False:
        for i in range(len(lista)-1):
            if lista[i] > lista[i+1]:
                lista[i], lista[i+1] = lista[i+1], lista[i]
                finish = True
        if finish is False: return lista
        else: finish = False
```

3. Faza niebieska

```
✓ Tests passed: 1 of 1 test – 0 ms

C:\Users\pacio\PycharmProjects\pythonProject1\venv\Scripts\python.exe "C:\Program Files\JetBrains\PyCharm 2021.2
.2\plugins\python\helpers\pycharm\jb_pytest_runner.py" --target test_app.py::test_text_contain_word
Testing started at 11:17 ...
Launching pytest with arguments test_app.py::test_text_contain_word --no-header --no-summary -q in C:\studia\sem_5\AiB0\lab_13\my_app\test

===== test session starts =====
collecting ... collected 1 item

test_app.py::test_text_contain_word[list0-expected_output0] PASSED [100%]

===== 1 passed in 0.83s =====

Process finished with exit code 0
```

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