

<i>TDD</i>		
Wydział <i>EAIiB</i>	Kierunek <i>Automatyka i Robotyka</i>	Rok <i>III</i>
Grupa 1, czwartek 8:30		Data <i>16 stycznia 2023 r.</i>
Zrealizował: Maksym Rzepka		

FAZA GREEN

The screenshot shows a VS Code editor with a Python test file named `test_app.py`. The file contains the following code:

```

1 from app import text_contain_word
2 from app import hello
3 import pytest
4 from app import bubblesort
5 from timeit import timeit
6 import random
7
8
9
10
11
12 def test_hello():
13     got = hello("Maksym")
14     want = "Hello Maksym"
15
16     assert got == want
17
18

```

The left sidebar shows the test results: 1/1 tests passed (100%). The terminal at the bottom shows the execution of the test:

```

rootdir: C:\D\aiibd_maksym\13 Maksym Rzepka
collected 1 item

test\test_app.py . [100%]

===== 1 passed in 0.77s =====
PS C:\D\aiibd_maksym\13 Maksym Rzepka>

```

FAZA RED

```
test > test_app.py > test_hello
7 import random
8
9
10
11
12 def test_hello(): ... Test result not found for: ./test/test_app.py::test_hello

Test result not found for: ./test/test_app.py::test_hello test_hello
1 Test result not found for: ./test/test_app.py::test_hello
2

got = hello("Maksym")
want = "Hello Maksym"

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
rootdir: C:\D\aidb_maksym\13 Maksym Rzepka
collected 0 items / 1 error

===== ERRORS =====
ERROR collecting test/test_app.py
ImportError while importing test module 'C:\D\aidb_maksym\13 Maksym Rzepka\test\test_app.py'.
Hint: make sure your test modules/packages have valid Python names.
Traceback:
C:\Users\nikos\AppData\Local\Programs\Python\Python39\lib\importlib\__init__.py:127: in import_module
    return _bootstrap._gcd_import(name[level:], package, level)
test\test_app.py:1: in <module>
    from app import extract_sentiment
E ImportError: cannot import name 'extract_sentiment' from 'app' (C:\D\aidb_maksym\13 Maksym Rzepka\app.py)

===== short test summary info =====
ERROR test/test_app.py
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!! Interrupted: 1 error during collection !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
===== 1 error in 0.98s =====
PS C:\D\aidb_maksym\13 Maksym Rzepka>
```

```
test > test_app.py > test_hello
7 import random
8
9
10
11
12 def test_hello(): ... ./test/test_app.py::test_hello Failed: [undefined]AssertionError: assert 0 == 'Hello Maksym'

./test/test_app.py::test_hello Failed: [undefined]AssertionError: assert 0 == 'Hello Maksym' test_hello
1 ./test/test_app.py::test_hello Failed: [undefined]AssertionError:
2 assert 0 == 'Hello Maksym'
3 def test_hello():
4     got = hello("Maksym")
5     want = "Hello Maksym"
6
7     assert got == want
8     AssertionError: assert 0 == 'Hello Maksym'
9 test\test_app.py:16: AssertionError
10

got = hello("Maksym")
want = "Hello Maksym"

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
PS C:\D\aidb_maksym\13 Maksym Rzepka> py -m pytest
platform win32 -- Python 3.9.13, pytest-7.1.3, pluggy-1.0.0
rootdir: C:\D\aidb_maksym\13 Maksym Rzepka
collected 4 items

test\test_app.py F... [100%]

===== FAILURES =====
test_hello

def test_hello():
    got = hello("Maksym")
    want = "Hello Maksym"

    assert got == want
E     AssertionError: assert 0 == 'Hello Maksym'

test\test_app.py:16: AssertionError

===== short test summary info =====
FAILED test/test_app.py::test_hello - AssertionError: assert 0 == 'Hello Maksym'
===== 1 failed, 3 passed in 1.02s =====
```

FAZA GREEN

```
1 from typing import Tuple, List
2 from textblob import TextBlob
3
4
5
6 def bubblesort(I: List[int]) -> Tuple[List[int], int]:
7     p = 0
8     lista1 = I[:]
9     j = len(lista1)
10    while j > 1:
11        change = False
12        for k in range(0, j-1):
13            p += 1
14            if lista1[k] > lista1[k+1]:
15                lista1[k], lista1[k+1] = lista1[k+1], lista1[k]
16            change = True
17        j -= 1
18
19    if change == False:
20        break
21    return lista1, p
22
23 def hello(name):
24     output = f'Hello {name}'
```

rootdir: C:\D\aidb_maksym\13 Maksym Rzepka
collected 4 items

test/test_app.py [100%]

===== 4 passed in 0.79s =====

PS C:\D\aidb_maksym\13 Maksym Rzepka> py -m pytest

===== test session starts =====

platform win32 -- Python 3.9.13, pytest-7.1.3, pluggy-1.0.0
rootdir: C:\D\aidb_maksym\13 Maksym Rzepka
collected 4 items

test/test_app.py [100%]

===== 4 passed in 0.79s =====

PS C:\D\aidb_maksym\13 Maksym Rzepka>

FAZA RED

TESTING

Filter (e.g. text, texclude, @tag)

0/4 tests passed (0.00%)

13 Maksym Rzepka

- test
- test_app.py
 - test_extract_sentiment
 - test_hello
 - test_text_contain_word
- Pytest Discovery Error [13 Maksym Rzepka]

```
10
11 time_1 = [500 - i for i in range(1001)]
12 time_2 = [i for i in range(500)]
13
14 def bubblesort():
15     t1_bubble = timeit("bubblesort(time_1)", number=1000, globals=globals())/1000
16     t2_bubble = timeit("bubblesort(time_2)", number=1000, globals=globals())/1000
17     return t1_bubble, t2_bubble
18
19 def test_hello():
20     got = hello("Maksym")
21     want = "Hello Maksym"
22     assert got == want
23
24
25
26
27 testdata1 = ["I think today will be a great day"]
28
29 @pytest.mark.parametrize('sample', testdata1)
30 def test_extract_sentiment(sample):
31     sentiment = extract_sentiment(sample)
32     assert sentiment > 0
33
34
35 testdata2 = [
36     ('There is a duck in this text', 'duck', True),
37     ('There is nothing here', 'duck', False)
38 ]
39
40
41 @pytest.mark.parametrize('sample, word, expected_output', testdata2)
42 def test_text_contain_word(sample, word, expected_output):
43     assert text_contain_word(word, sample) == expected_output
44
45
46
```

