## Labwork 12, PyTest

#### Exercise 1

```
pytest_example — -zsh — 80×24
Last login: Sat Dec 21 17:05:08 on console
You have new mail.
(base) maksimkolosov@MacBook-Pro-Maksim pytest_example % pytest
platform darwin -- Python 3.12.4, pytest-7.4.4, pluggy-1.0.0
rootdir: /Users/maksimkolosov/Desktop/MastersStudies/ProgramEngineering/Webinar_
16_Labwork_12/pytest_example
plugins: anyio-4.2.0
collected 5 items
test/test_calculator.py .....
                                                      [100%]
(base) maksimkolosov@MacBook-Pro-Maksim pytest_example %
```

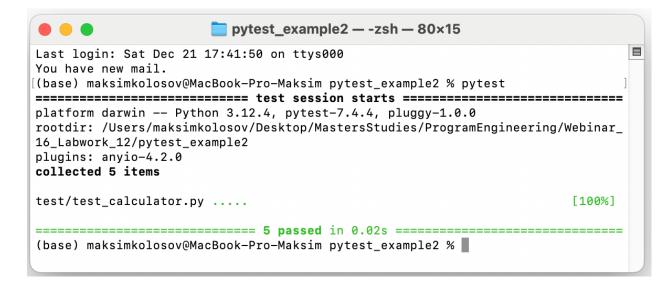
# Mistake in test\_add

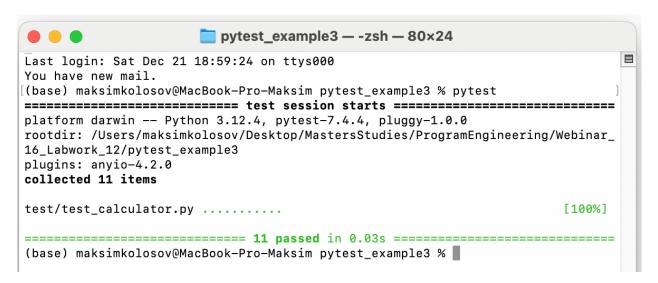
```
pytest_example — -zsh — 80×26
                                                       [(base) maksimkolosov@MacBook-Pro-Maksim pytest_example % pytest
platform darwin -- Python 3.12.4, pytest-7.4.4, pluggy-1.0.0
rootdir: /Users/maksimkolosov/Desktop/MastersStudies/ProgramEngineering/Webinar_
16_Labwork_12/pytest_example
plugins: anyio-4.2.0
collected 5 items
test/test_calculator.py F....
                                                  [100%]
_____ test_add _____
  def test_add():
     assert calculator.add(2, 3) == 5
     assert calculator.add(-1, 1) == 0
     assert calculator.add(-1, -1) == 2
     assert -2 == 2
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      + where -2 = <function add at 0x1026151c0>(-1, -1)
         where <function add at 0x1026151c0> = calculator.add
test/test_calculator.py:12: AssertionError
FAILED test/test_calculator.py::test_add - assert -2 == 2
(base) maksimkolosov@MacBook-Pro-Maksim pytest_example % ■
```

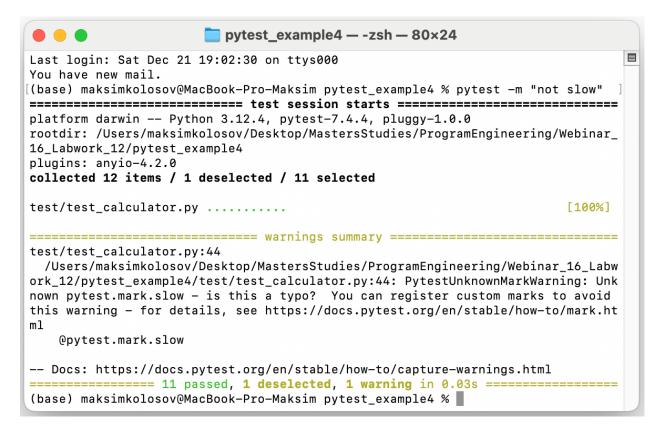
#### Divide to zero:

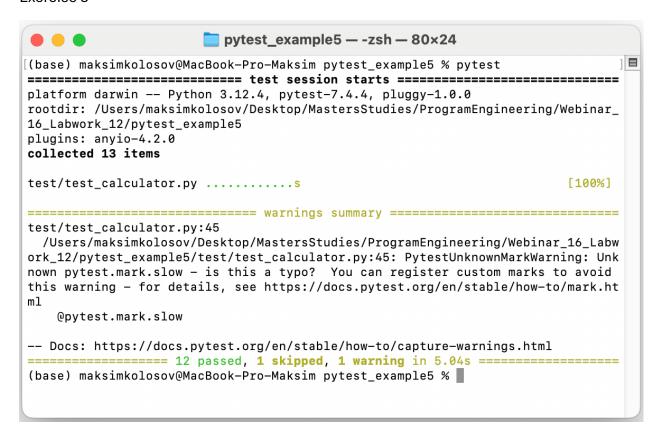
```
pytest_example — -zsh — 80×32
[(base) maksimkolosov@MacBook-Pro-Maksim pytest_example % pytest
platform darwin -- Python 3.12.4, pytest-7.4.4, pluggy-1.0.0
rootdir: /Users/maksimkolosov/Desktop/MastersStudies/ProgramEngineering/Webinar_
16_Labwork_12/pytest_example
plugins: anyio-4.2.0
collected 5 items
test/test_calculator.py ...F.
                                             [100%]
_____ test_divide _____
  def test divide():
    assert calculator.divide(10, 0) == 5
test/test_calculator.py:25:
a = 10, b = 0
  def divide(a, b):
    if b == 0:
       raise ValueError("Cannot divide by zero")
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       ValueError: Cannot divide by zero
calculator.py:13: ValueError
FAILED test/test_calculator.py::test_divide - ValueError: Cannot divide by zero
(base) maksimkolosov@MacBook-Pro-Maksim pytest_example %
```

# No mistakes again:











```
🚞 pytest_example7 — -zsh — 80×24
                                                                    Last login: Sat Dec 21 19:20:20 on ttys000
You have new mail.
(base) maksimkolosov@MacBook-Pro-Maksim pytest_example7 % pytest
platform darwin -- Python 3.12.4, pytest-7.4.4, pluggy-1.0.0
rootdir: /Users/maksimkolosov/Desktop/MastersStudies/ProgramEngineering/Webinar_
16_Labwork_12/pytest_example7
plugins: anvio-4.2.0
collected 14 items
test/test_calculator.py .....x.
                                                             [100%]
test/test calculator.py:44
 /Users/maksimkolosov/Desktop/MastersStudies/ProgramEngineering/Webinar_16_Labw
ork_12/pytest_example7/test/test_calculator.py:44: PytestUnknownMarkWarning: Unk
nown pytest.mark.slow - is this a typo? You can register custom marks to avoid
this warning - for details, see https://docs.pytest.org/en/stable/how-to/mark.ht
m1
   @pytest.mark.slow
-- Docs: https://docs.pytest.org/en/stable/how-to/capture-warnings.html
========= 13 passed, 1 xfailed, 1 warning in 5.06s ===========
(base) maksimkolosov@MacBook-Pro-Maksim pytest_example7 %
```

