# Object Oriented Programming with Python

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Session 14

## Content

Pytest

#### pytest

pytest is one of the best tools you can use to boost your testing productivity. This packages is not installed by default in python

### How to install pytest

```
$ pip install pytest
```

# or

\$ python -m pip install pytest

### Create your firts test

```
def func(x):
    return x + 1

def test_func():
    assert func(3) == 5
Now execute the test function:
$ pytest
```

#### Group multiple tests in a class

You may want to group them into a class.

```
class TestClass:
    def test_one(self):
        assert 1==1
    def test_two(self):
        assert x in "xgames"
Execute tests file:
$ pytest -q test_class.py
Note: Having each test share the same class instance would be very detrimental to test isolation and would promote poor test practices.
```

#### Expected exception

#### **Parametrize**

```
Parametrization of arguments for a test function.
import pytest

Opytest.mark.parametrize("test_input, expected", [("3+5", 6", 42)])

def test_eval(test_input, expected):
   assert eval(test_input) == expected
```

#### Mock

It allows you to replace parts of your system under test with mock objects and make assertions about how they have been used.