- 1. Install pytest
 - a. Open cmd and install pytest as >pip install -U pytest
 - b. Check version >pytest --version
- 2. creating come calculator related functions and testing it
 - a. create calculator.py and add following code
 - b. create testing file for pytest
 - i. remember, for pyetst, your file name must be either start or ends with test like
 - test_calculator.py or calculator_test.py

```
◆ calculator.py ×
...
◆ test_calculator.py ×
b v ...

◆ calculator.py × ⊕ div
...
◆ test_calculator.py × ⊕ test_div

1 def add(x,y):
1 import calculator

2 result = x+y
2
3 def test_add():

3 return result
4 output=calculator.add(10,2)

5 def div(a,b):
5 assert output==12

6 result = a-b #logic is wrong
7 def test_div():

7 return result
0 output=calculator.div(10,2)

9 assert output==5.0
```

- c. running test file:
 - i. open cmd on folder location and run any of the following command

```
>pytest
>pytest -v (v for verbose)
>pytest -v -s (s to show message that we write in print)
```

- d. running test file with keywords
 - i. create 2 more functions in test_calculator.py and run it as

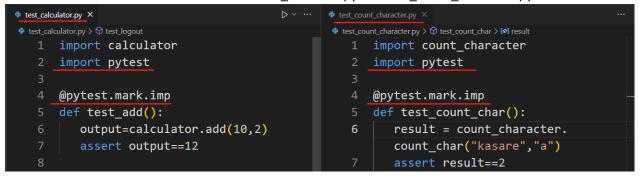
```
    test_calculator.py ×
    test_calculator.py > ② test_logout
    11    def test_login():
    12    | print("login success")
    13
    14    def test_logout():
    15    | print("logout success")
```

>pvtest -vsk log

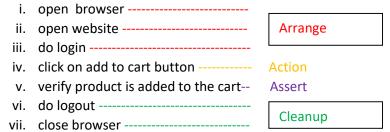
K for keyword and log is name of that keyword

- 3. running test file in group by using custom markers
 - a. create one more file with test file

b. add custom markers on some functions in test calcultor.py and test count character.py



- c. run test as >pytest -vsm imp
 - m for marker and imp is the name of marker
- 4. The Complete List Of Python Assert Statements:
 - a. Click below link to get most common assert in pytest https://understandingdata.com/posts/list-of-python-assert-statements-for-unit-tests/
- 5. fixture
 - a. consider the following flow to test add to cart button:



Arrange and cleanup together called as fixture

b. create test_addToCart.py and add following code

```
test_addToCart.py ×
test_addToCart.py > ② test_addtocart
    import pytest

2
3    @pytest.fixture()
4     def setUp():
5         print("open browser")
6         print("open website")
7         print("do login")
8         yield
9         print("do logout")
10         print("close browser")
11
12     def test_addtocart(setUp):
13         print("clicked on button add to cart")
```

- c. run it as > pytest test addToCart.py -vs
- 6. DONE !!!!!!