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## Assignment 6.2

Implement tests for tasks/6\_writing\_robust\_readable\_and\_maintainable\_code/day\_2\_testing/assignment/my\_proj project (there is a tests/test\_sum\_func.py file ready, missing the tests only).

Aim for 100% code coverage, branch coverage and condition coverage. Run the tests with `pytest`. Then run the tests with a flag producing coverage reports (you'll need to install `pytest-cov` at <https://pypi.org/project/pytest-cov/>).

We perform all code coverage methodology including branch, conditional and statement coverage using `pytest`

test\_sum\_func.py - assignment - Visual Studio Code

File Edit Selection View Go Run Terminal Help

EXPLORER

ASSIGNMENT

> .pytest\_cache

> my\_proj

> \_\_pycache\_\_

> .pytest\_cache

> tests

> \_\_pycache\_\_

> .pytest\_cache

test\_sum\_func.py

\_\_init\_\_.py

.coverage

test\_sum\_func.py

\_\_init\_\_.py

.coverage

sum\_func.py

.coverage

README.md

sum\_func.py

test\_sum\_func.py

```
my_proj> tests > test_sum_func.py > test_check_type
1 from my_proj.sum_func import add, add_positive
2 def test_add_2_3_equal_5():
3     assert add(2,3) == 5
4
5 def test_add_2_7_equal_9():
6     assert add_positive(2,7) == 9
7
8 def test_add_2_neg3_equal_none():
9     assert add_positive(2,-3) == None
10
11 def test_add_neg2_neg2_equal_none():
12     assert add_positive(-2,-2) == None
13
14 def test_add_neg2_4_equal_none():
15     assert add_positive(-2,4) == None
16
17 def test_check_type():
18     assert type(add_positive(2,3)) == int
```

and here cover 100% code coverage

```
(base) osamaabdulrazzak@all-MS-7D35:~/Desktop/data_engineering_bootcamp_2303/tasks/6_writing_robust_readable_and_maintainable_code/day_2_testing/assignment/my_proj$ pytest --cov=. tests/
===== test session starts =====
platform linux -- Python: 3.10.9, pytest: 7.2.1, pluggy: 1.0.0
rootdir: /home/osamaabdulrazzak/Desktop/data_engineering_bootcamp_2303/tasks/6_writing_robust_readable_and_maintainable_code/day_2_testing/assignment/my_proj
plugins: dash-2.9.3, cov-4.8.0, anyio-3.6.2
collected 6 items

tests/test_sum_func.py ..... [100%]

----- coverage: platform linux, python 3.10.9-final-0 -----
Name                               Stmts   Miss Cover
-----
__init__.py                         0     0    100%
sum_func.py                        6     0    100%
tests/__init__.py                   0     0    100%
tests/test_sum_func.py             13     0    100%
TOTAL                              19     0    100%
```