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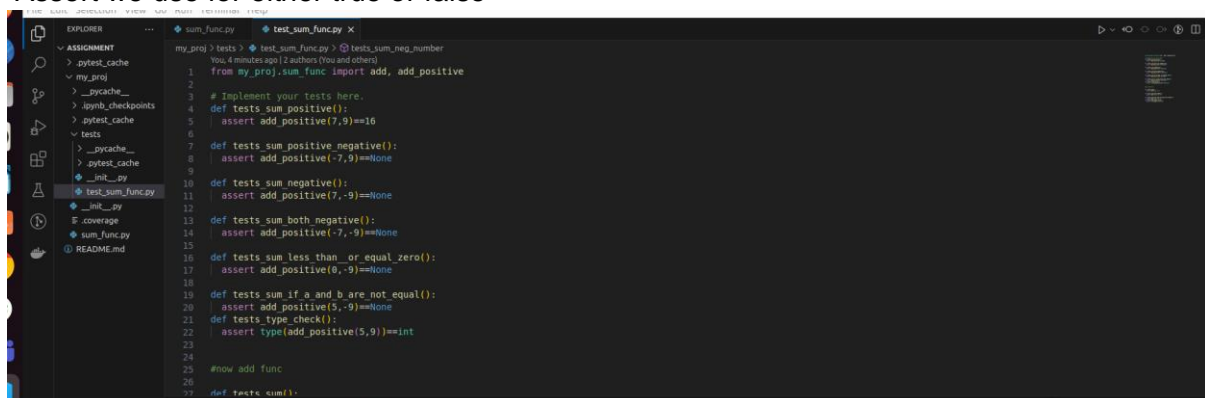
## ASSIGNMENT NO : 6.2

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).

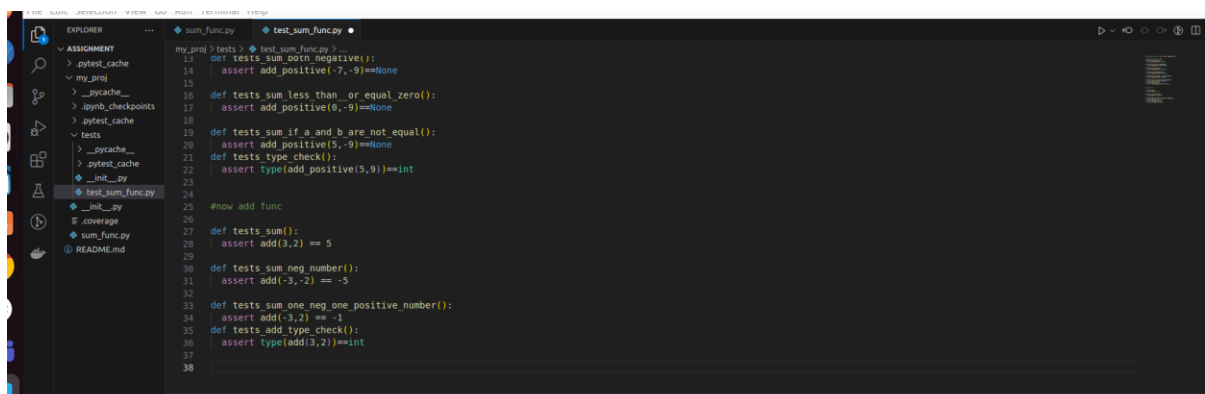
Aim for 100% code coverage, branch coverage and condition coverage. Run the tests with pytest. Then run the tests with a flag producing coverage reports (you'll need to install pytest-cov at <https://pypi.org/project/pytest-cov/>).

### Solution:

Here we check multiple test cases  
Like positive, negative , type , less than  
Assert we use for either true or false

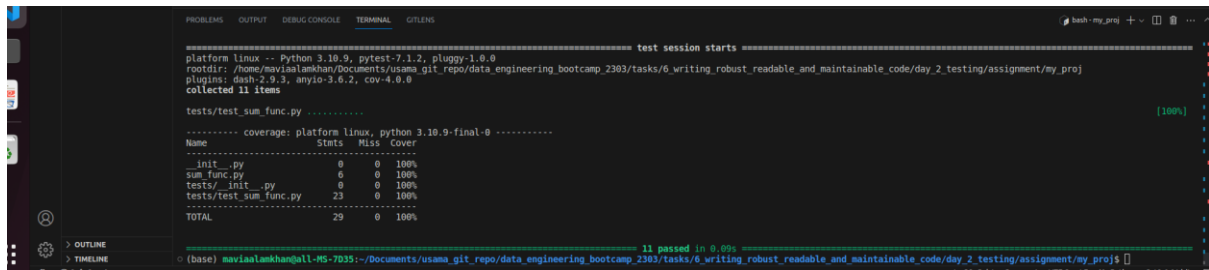


```
1 my_proj > tests > test_sum_func.py > test_sum_neg_number
2 You, 4 minutes ago | 2 authors (you and others)
3 from my_proj.sum_func import add, add_positive
4
5 # Implement your tests here.
6 def tests_sum_positive():
7     assert add_positive(7,9)==16
8
9 def tests_sum_positive_negative():
10    assert add_positive(-7,9)==None
11
12 def tests_sum_negative():
13    assert add_positive(7,-9)==None
14
15 def tests_sum_both_negative():
16    assert add_positive(-7,-9)==None
17
18 def tests_sum_less_than_or_equal_zero():
19    assert add_positive(0,-9)==None
20
21 def tests_sum_if_a_and_b_are_not_equal():
22    assert add_positive(5,-9)==None
23
24 def tests_type_check():
25    assert type(add_positive(5,9))==int
26
27 #now add func
28 def tests_sum():
```



```
13 def tests_sum_both_negative():
14    assert add_positive(-7,-9)==None
15
16 def tests_sum_less_than_or_equal_zero():
17    assert add_positive(0,-9)==None
18
19 def tests_sum_if_a_and_b_are_not_equal():
20    assert add_positive(5,-9)==None
21
22 def tests_type_check():
23    assert type(add_positive(5,9))==int
24
25 #now add func
26
27 def tests_sum():
28    assert add(3,2) == 5
29
30 def tests_sum_neg_number():
31    assert add(-3,-2) == -5
32
33 def tests_sum_one_neg_one_positive_number():
34    assert add(-3,2) == -1
35
36 def tests_add_type_check():
37    assert type(add(3,2))==int
38
```

## Results:



```
===== test session starts =====
platform linux -- Python 3.10.9, pytest-7.1.2, pluggy-1.0.0
rootdir: /home/naviaalamkhan/Documents/usama_git_repo/data_engineering_bootcamp_2303/tasks/6_writing_robust_readable_and_maintainable_code/day_2_testing/assignment/my_proj
plugins: dash-2.9.3, anyio-3.6.2, cov-4.0.0
collected 11 items

tests/test_sum_func.py .....

----- coverage: platform linux, python 3.10.9-final-0 -----
Name                               Stats    Miss  Cover
-----
__init__.py                         0        0   100%
sum_func.py                         6        0   100%
tests/__init__.py                   0        0   100%
tests/test_sum_func.py             23        0   100%
TOTAL                               29        0   100%

===== 11 passed in 0.07s =====
(base) naviaalamkhan@ali-MS-7035:~/Documents/usama_git_repo/data_engineering_bootcamp_2303/tasks/6_writing_robust_readable_and_maintainable_code/day_2_testing/assignment/my_proj$
```