

## Assignment - 2

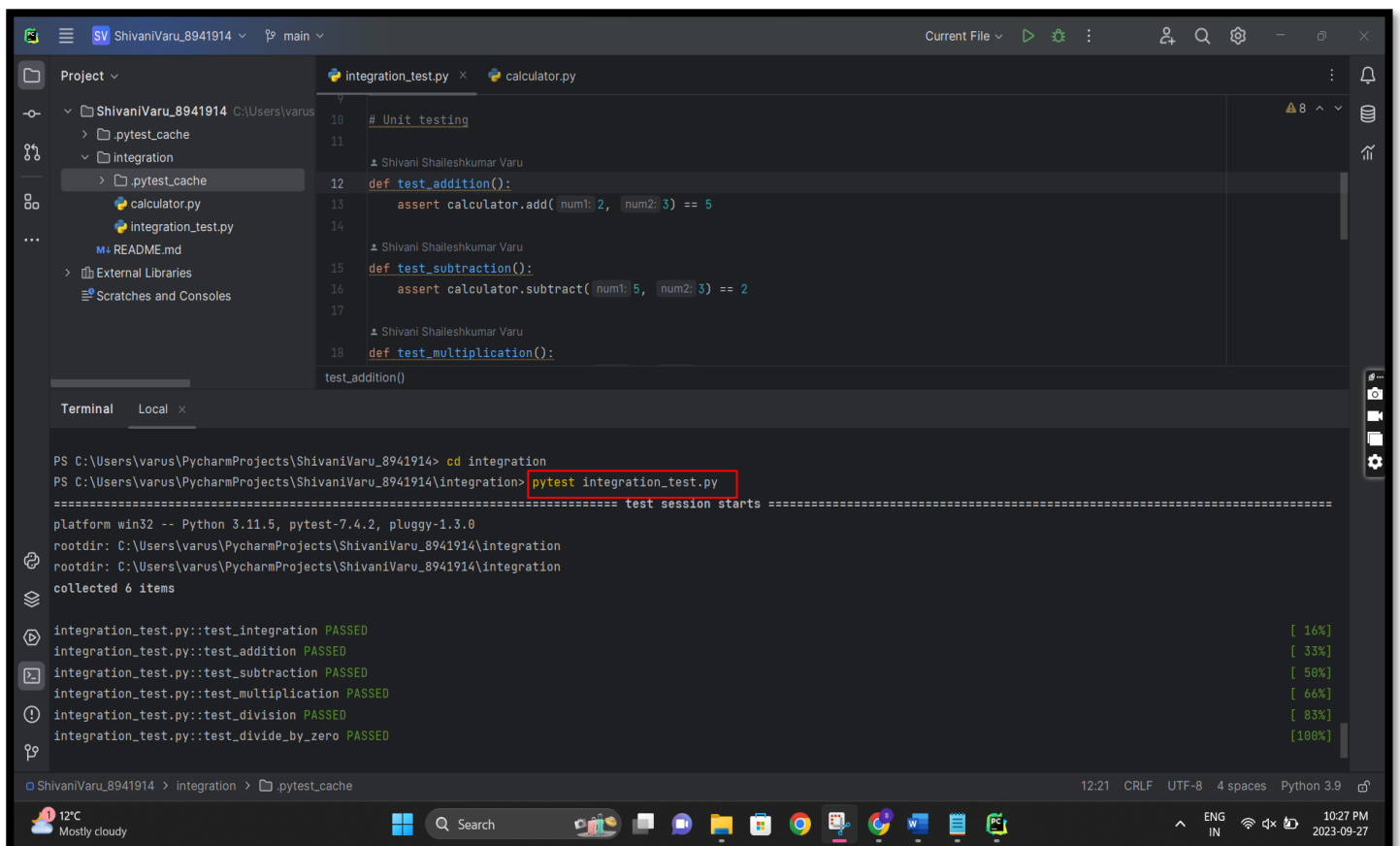
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Section: 4

3. Write commands to run the file:

- pytest integration\_test.py



The screenshot shows the PyCharm IDE interface. The left sidebar displays the project structure for 'ShivaniVaru\_8941914', including folders like '.pytest\_cache' and 'integration', and files like 'calculator.py' and 'integration\_test.py'. The main editor window shows the content of 'integration\_test.py', which includes unit tests for addition, subtraction, multiplication, division, and division by zero. The bottom terminal window shows the command 'pytest integration\_test.py' being executed, with the output indicating that all tests passed successfully.

```
PS C:\Users\varus\PycharmProjects\ShivaniVaru_8941914> cd integration
PS C:\Users\varus\PycharmProjects\ShivaniVaru_8941914\integration> pytest integration_test.py
===== test session starts =====
platform win32 -- Python 3.11.5, pytest-7.4.2, pluggy-1.3.0
rootdir: C:\Users\varus\PycharmProjects\ShivaniVaru_8941914\integration
rootdir: C:\Users\varus\PycharmProjects\ShivaniVaru_8941914\integration
collected 6 items

integration_test.py::test_integration PASSED [ 16%]
integration_test.py::test_addition PASSED [ 33%]
integration_test.py::test_subtraction PASSED [ 50%]
integration_test.py::test_multiplication PASSED [ 66%]
integration_test.py::test_division PASSED [ 83%]
integration_test.py::test_divide_by_zero PASSED [100%]
```

- `python -m pytest -v`

The screenshot shows the PyCharm IDE interface. The left sidebar displays the project structure for 'ShivaniVaru\_8941914', including folders like '.pytest\_cache' and files like 'calculator.py' and 'integration\_test.py'. The main editor window shows the code in 'integration\_test.py', which includes imports for 'addition', 'multiplication', and 'calculator', and a function 'test\_integration()' that uses 'assert' to verify calculations. The bottom terminal window shows the command 'python -m pytest -v' being executed, resulting in a successful test session with 6 items passed in 0.05s. The terminal output includes details about the platform (win32), Python version (3.11.5), and pytest version (7.4.2). The status bar at the bottom indicates the current file is 'integration\_test.py' and the Python version is 3.9.

```
1 # import addition
2 # import multiplication
3 import calculator
4 # Shivani Shaileshkumar Varu
5 def test_integration():
6     # Test multiplying the result of adding two numbers with another number
7     assert calculator.multiply(calculator.add( num1: 2, num2: 3), num2: 4) == 20
8
9
10 # Unit testing
11
12 Shivani Shaileshkumar Varu
test_divide_by_zero() > else
```

```
PS C:\Users\varus\PycharmProjects\ShivaniVaru_8941914> python -m pytest -v
===== test session starts =====
platform win32 -- Python 3.11.5, pytest-7.4.2, pluggy-1.3.0 -- C:\Users\varus\AppData\Local\Programs\Python\Python311\python.exe
cachedir: .pytest_cache
rootdir: C:\Users\varus\PycharmProjects\ShivaniVaru_8941914
collected 6 items

integration/integration_test.py::test_integration PASSED [ 16%]
integration/integration_test.py::test_addition PASSED [ 33%]
integration/integration_test.py::test_subtraction PASSED [ 50%]
integration/integration_test.py::test_multiplication PASSED [ 66%]
integration/integration_test.py::test_division PASSED [ 83%]
integration/integration_test.py::test_divide_by_zero PASSED [100%]

===== 6 passed in 0.05s =====
PS C:\Users\varus\PycharmProjects\ShivaniVaru_8941914>
```

Git hub repo: [https://github.com/shivi-1010/ShivaniVaru\\_8941914](https://github.com/shivi-1010/ShivaniVaru_8941914)