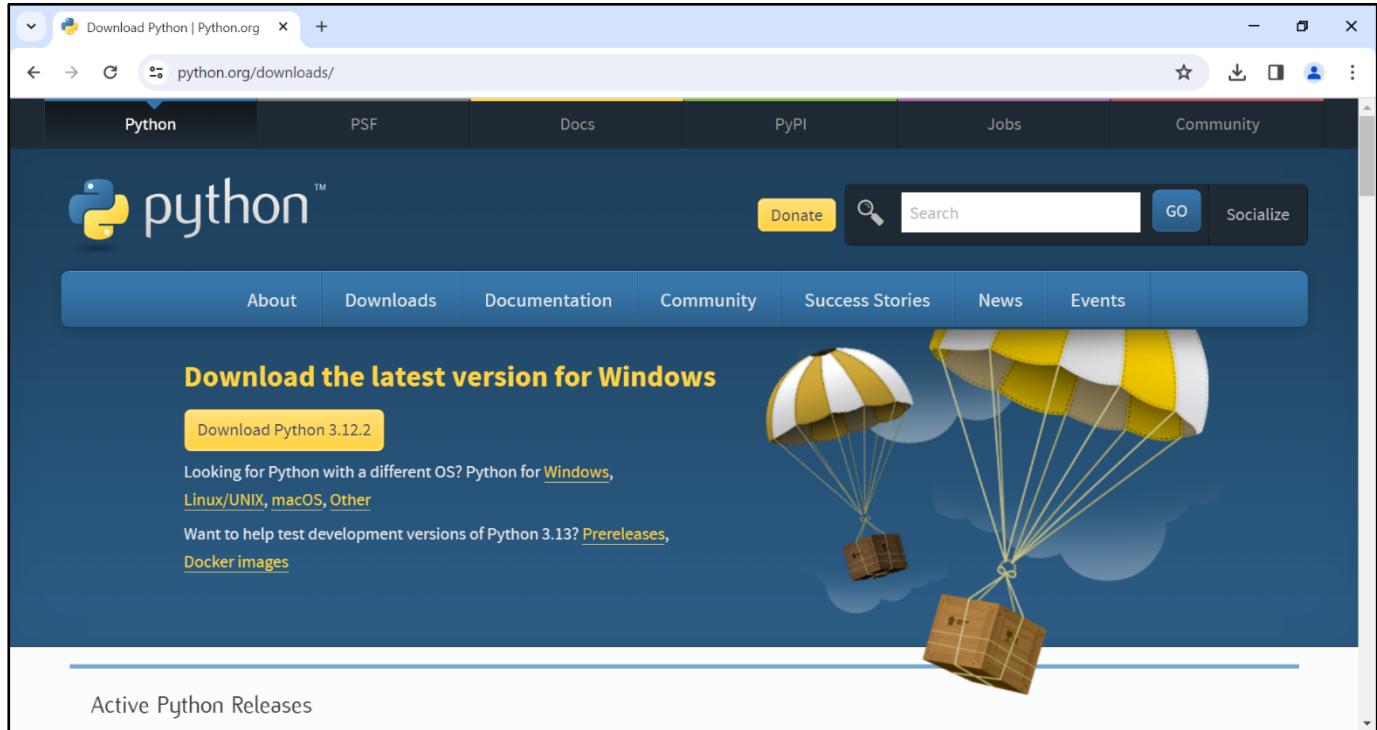
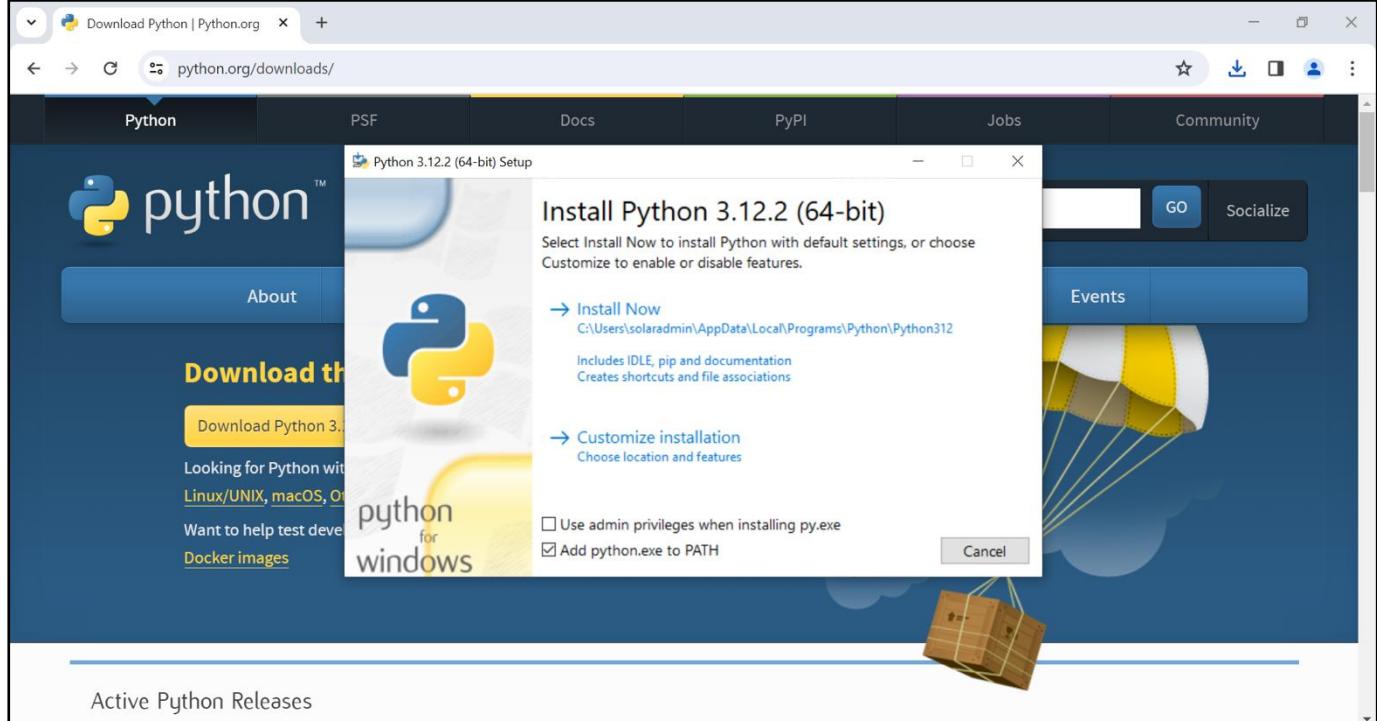


## Python 3 installation

1. Do this only if you have not installed Python 3
2. Download Python 3 from <https://www.python.org/downloads/>

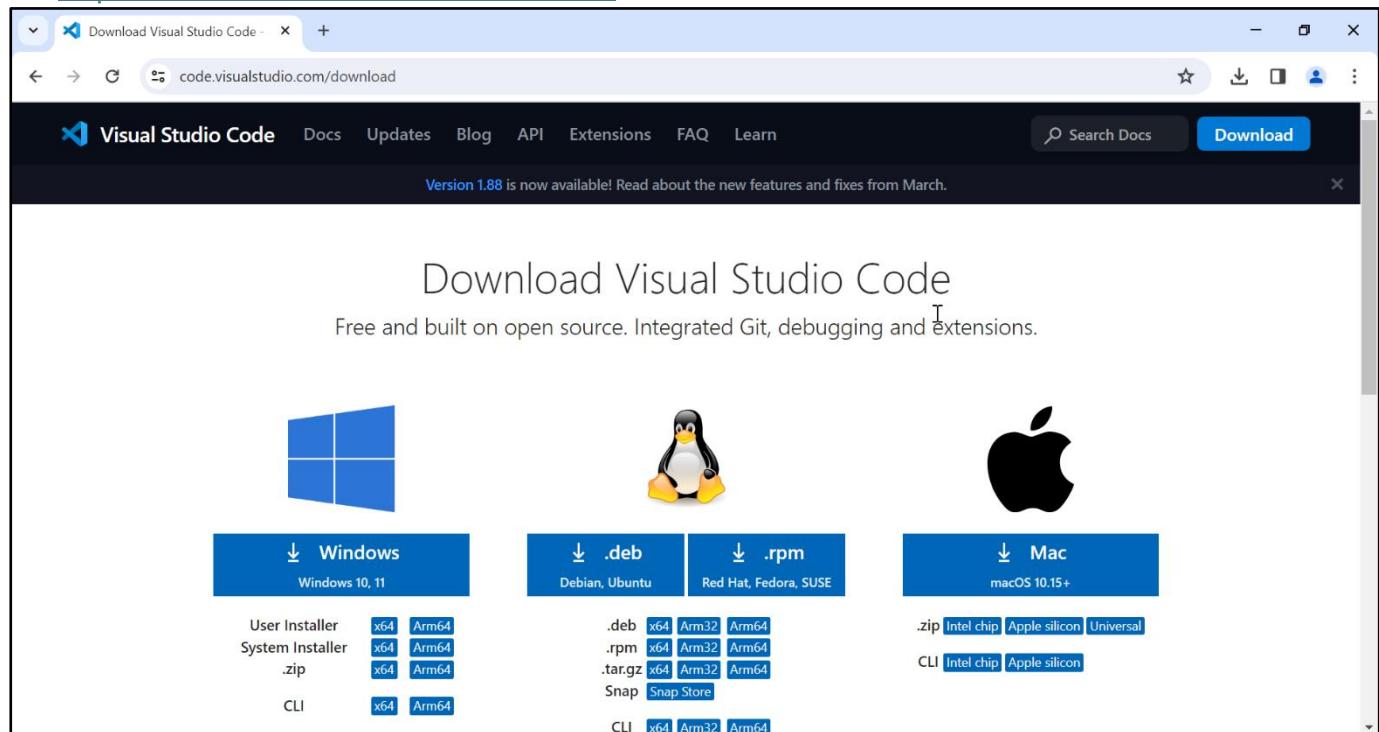


3. Install Python 3. Check the box for **Add python.exe to PATH** and click **Install Now**



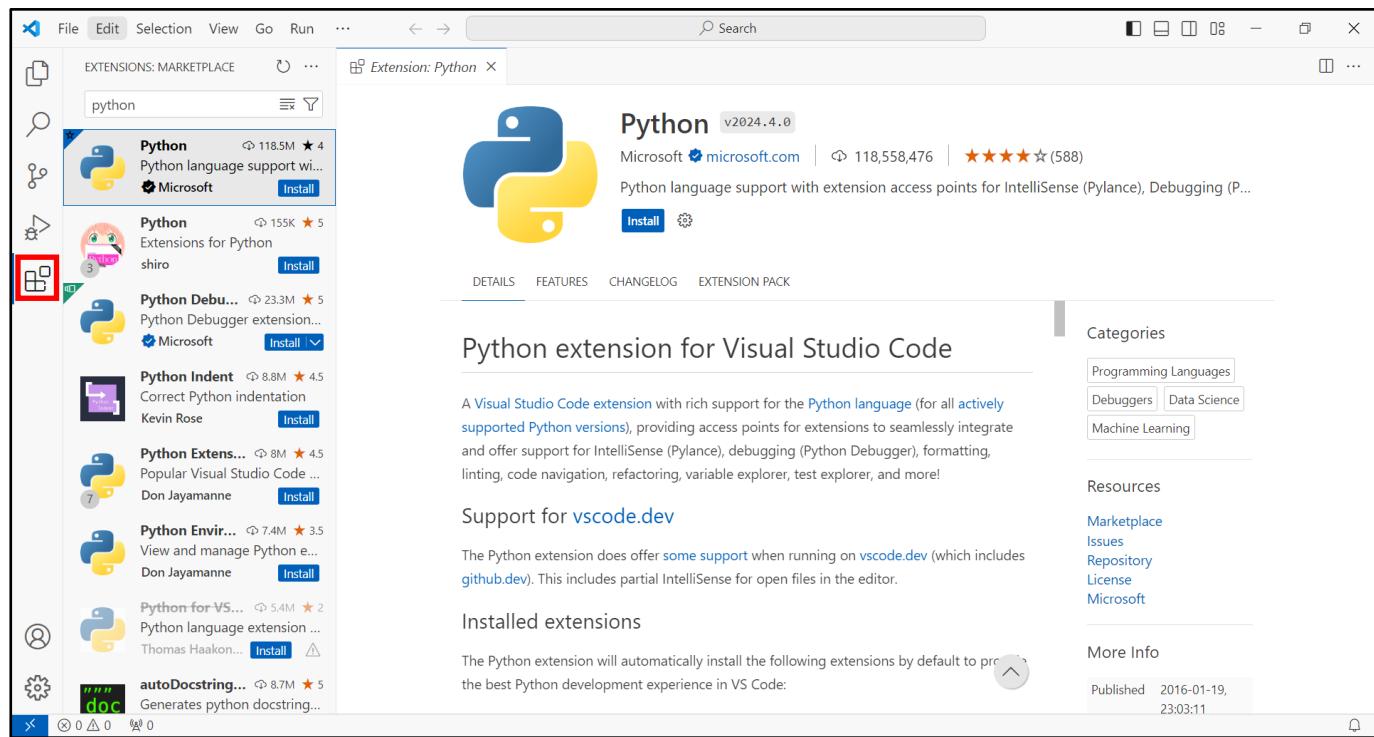
## Visual Studio Code installation

1. Do this only if you have not installed Visual Studio Code
2. Download and install the appropriate Visual Studio Code installer from <https://code.visualstudio.com/download>



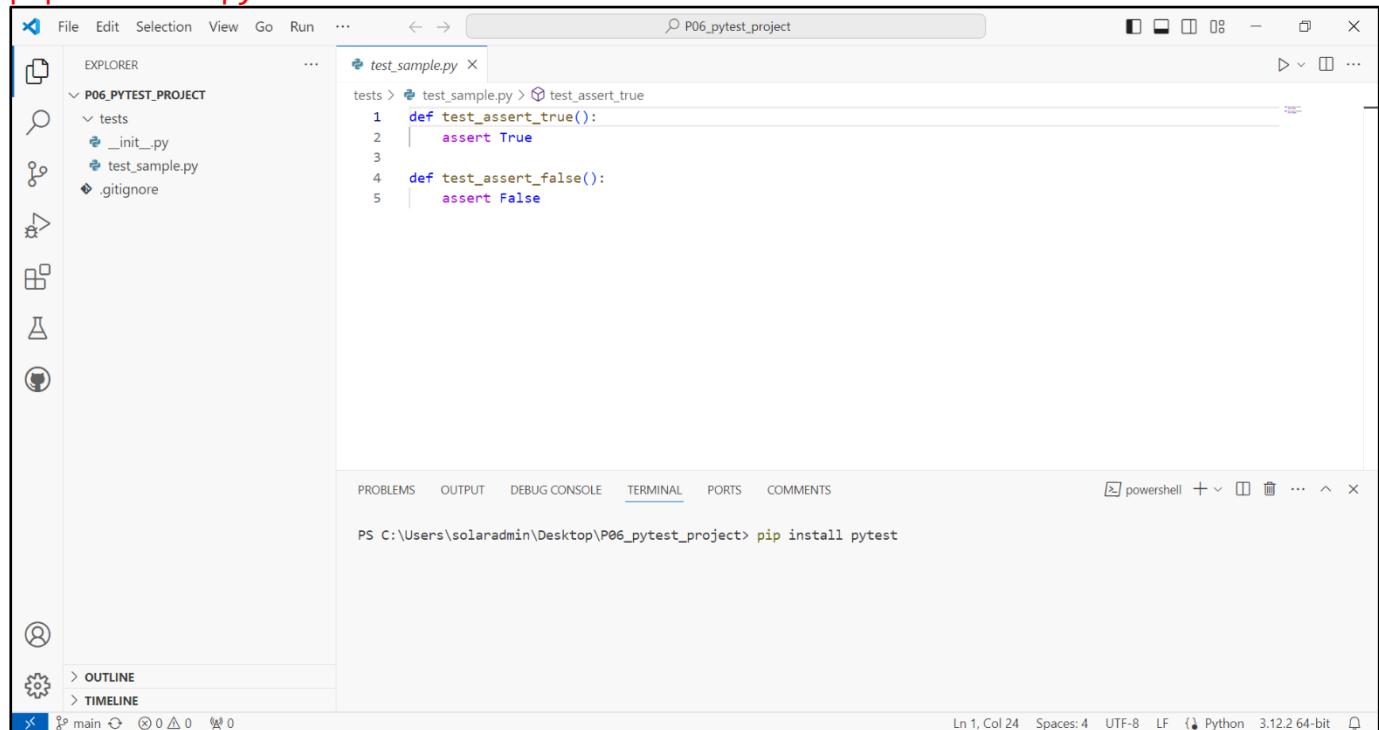
# Python extension for Visual Studio Code

1. Launch Visual Studio Code
2. From the Extensions button on the left, search for and install the Python extension from Microsoft.



## pytest installation and execution

1. Launch Visual Studio Code
2. Unzip P06\_pytest\_project.zip from the resources folder
3. Open the folder P06\_pytest\_project in Visual Studio Code
4. Open a terminal in Visual Studio Code and run the following command  
**pip install pytest**



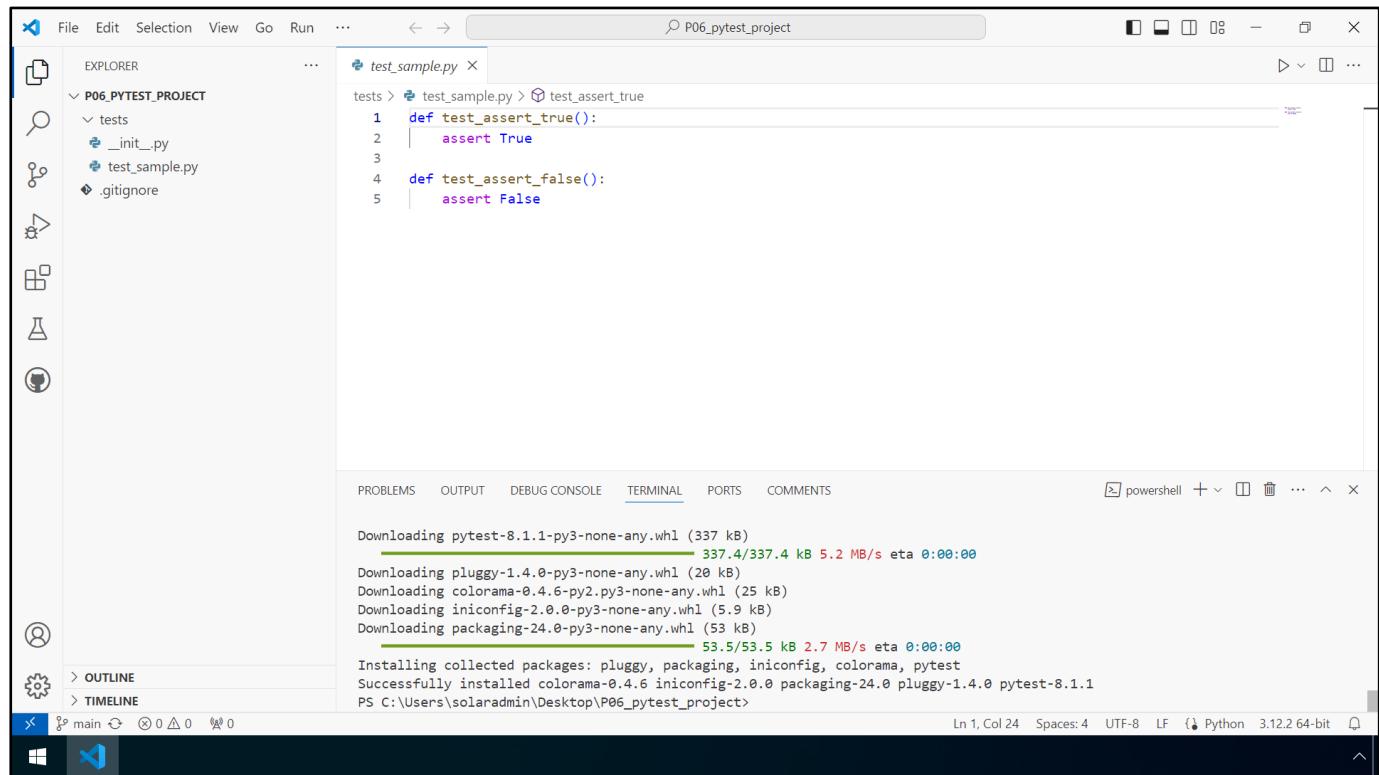
The screenshot shows the Visual Studio Code interface. On the left is the Explorer sidebar with a project named 'P06\_PYTEST\_PROJECT' containing 'tests', '\_init\_.py', and 'test\_sample.py'. The 'test\_sample.py' file is open in the main editor, displaying the following code:

```
def test_assert_true():
    assert True

def test_assert_false():
    assert False
```

Below the editor is a terminal window showing the command: `PS C:\Users\solaradmin\Desktop\P06_pytest_project> pip install pytest`. The status bar at the bottom indicates the file is 'main' and the encoding is 'UTF-8'.

## 5. Check that the installation was successful



The screenshot shows the Visual Studio Code interface with the terminal tab active. The terminal window displays the process of installing pytest and its dependencies:

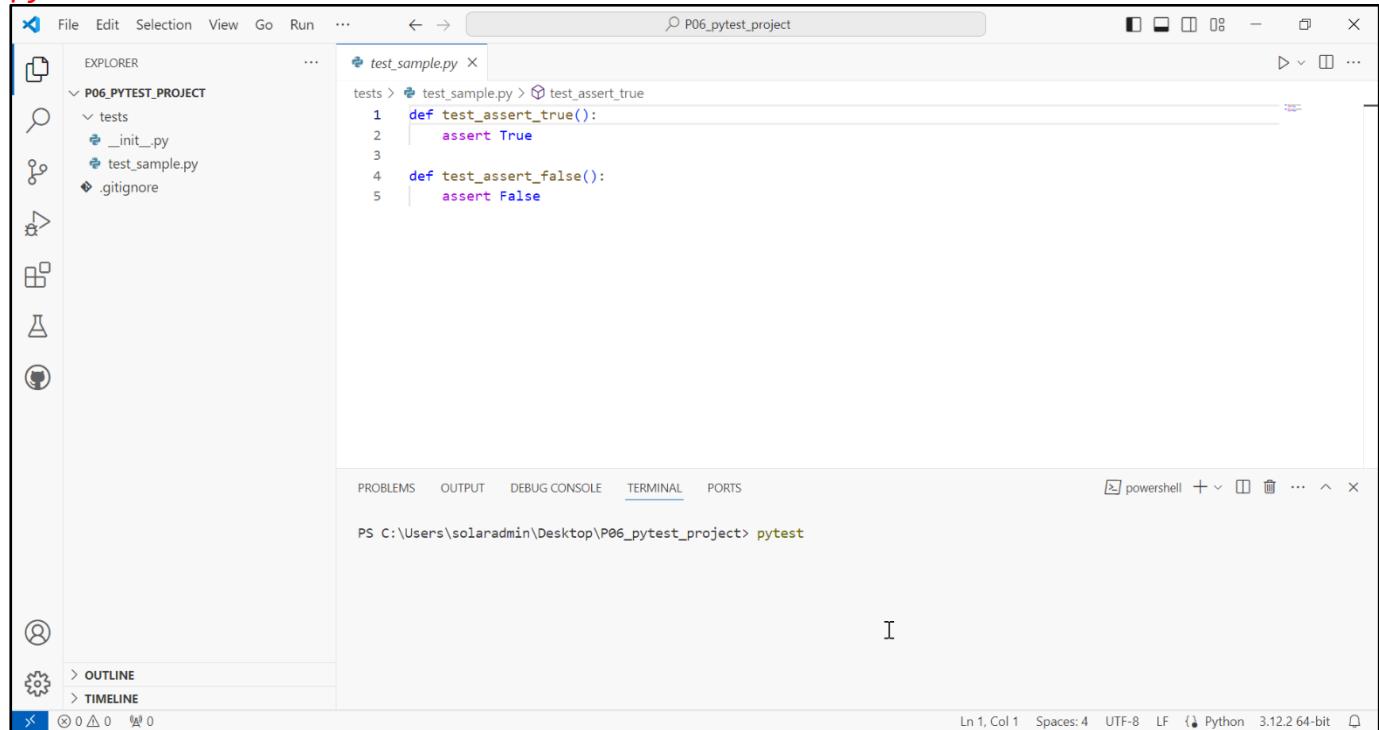
```

Downloading pytest-8.1.1-py3-none-any.whl (337 kB) 337.4/337.4 kB 5.2 MB/s eta 0:00:00
Downloading pluggy-1.4.0-py3-none-any.whl (28 kB)
Downloading colorama-0.4.6-py2.py3-none-any.whl (25 kB)
Downloading iniconfig-2.0.0-py3-none-any.whl (5.9 kB)
Downloading packaging-24.0-py3-none-any.whl (53 kB) 53.5/53.5 kB 2.7 MB/s eta 0:00:00
Installing collected packages: pluggy, packaging, iniconfig, colorama, pytest
Successfully installed colorama-0.4.6 iniconfig-2.0.0 packaging-24.0 pluggy-1.4.0 pytest-8.1.1
PS C:\Users\solaradmin\Desktop\P06_pytest_project>

```

## 6. Clear the terminal and run the following command

**pytest**



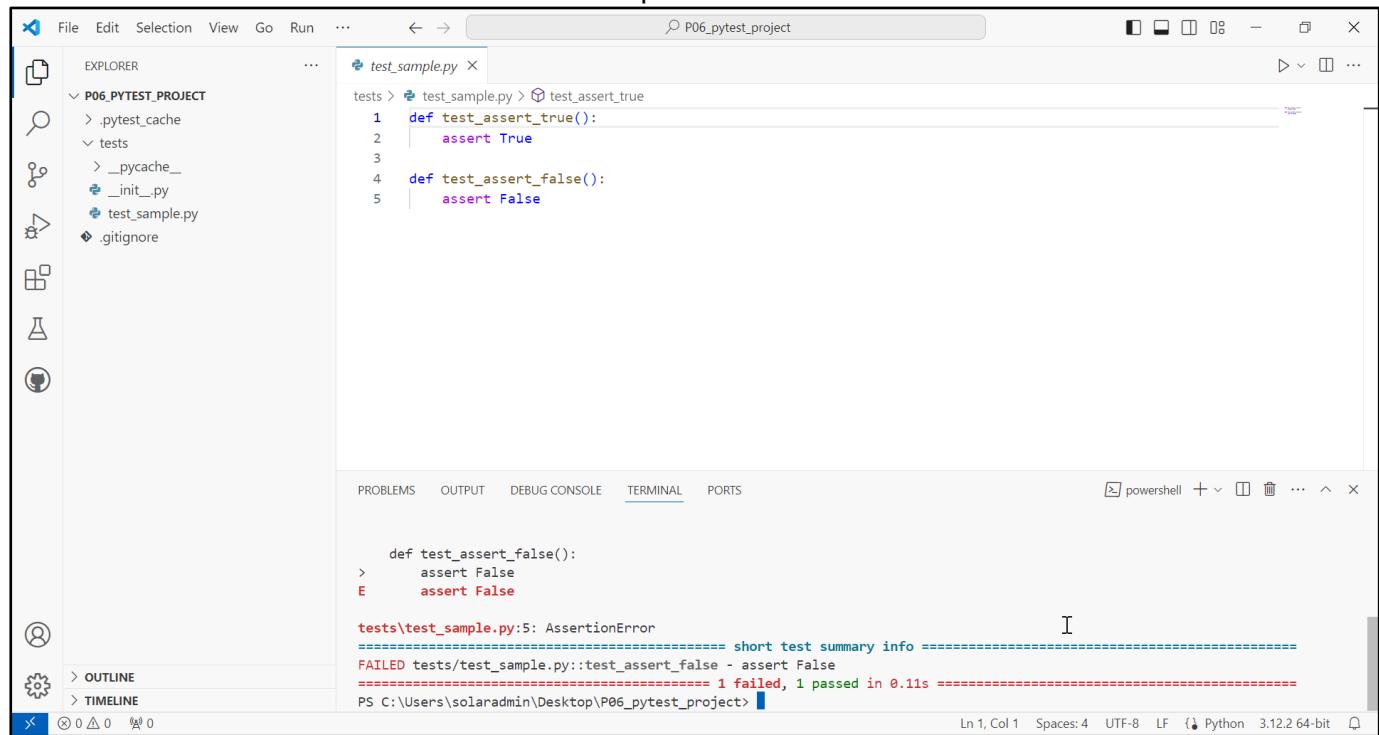
The screenshot shows the Visual Studio Code interface with the terminal tab active. The terminal window displays the command being run:

```

PS C:\Users\solaradmin\Desktop\P06_pytest_project> pytest

```

## 7. You should see that 1 test failed and 1 test passed



The screenshot shows a Visual Studio Code interface with the following details:

- File Explorer:** Shows a project structure named "P06\_PYTEST\_PROJECT" containing ".pytest\_cache", "tests", "\_\_pycache\_\_", "\_\_init\_\_.py", and "test\_sample.py".
- Code Editor:** Displays "test\_sample.py" with the following content:

```
1 def test_assert_true():
2     assert True
3
4 def test_assert_false():
5     assert False
```
- Terminal:** Shows the output of a pytest run:

```
def test_assert_false():
>     assert False
E     assert False

tests\test_sample.py:5: AssertionError
=====
short test summary info =====
FAILED tests/test_sample.py::test_assert_false - assert False
=====
1 failed, 1 passed in 0.11s =====
PS C:\Users\solaradmin\Desktop\P06_pytest_project>
```
- Status Bar:** Shows "Ln 1, Col 1" and "Spaces: 4" and "UTF-8" and "LF" and "Python 3.12.2 64-bit".