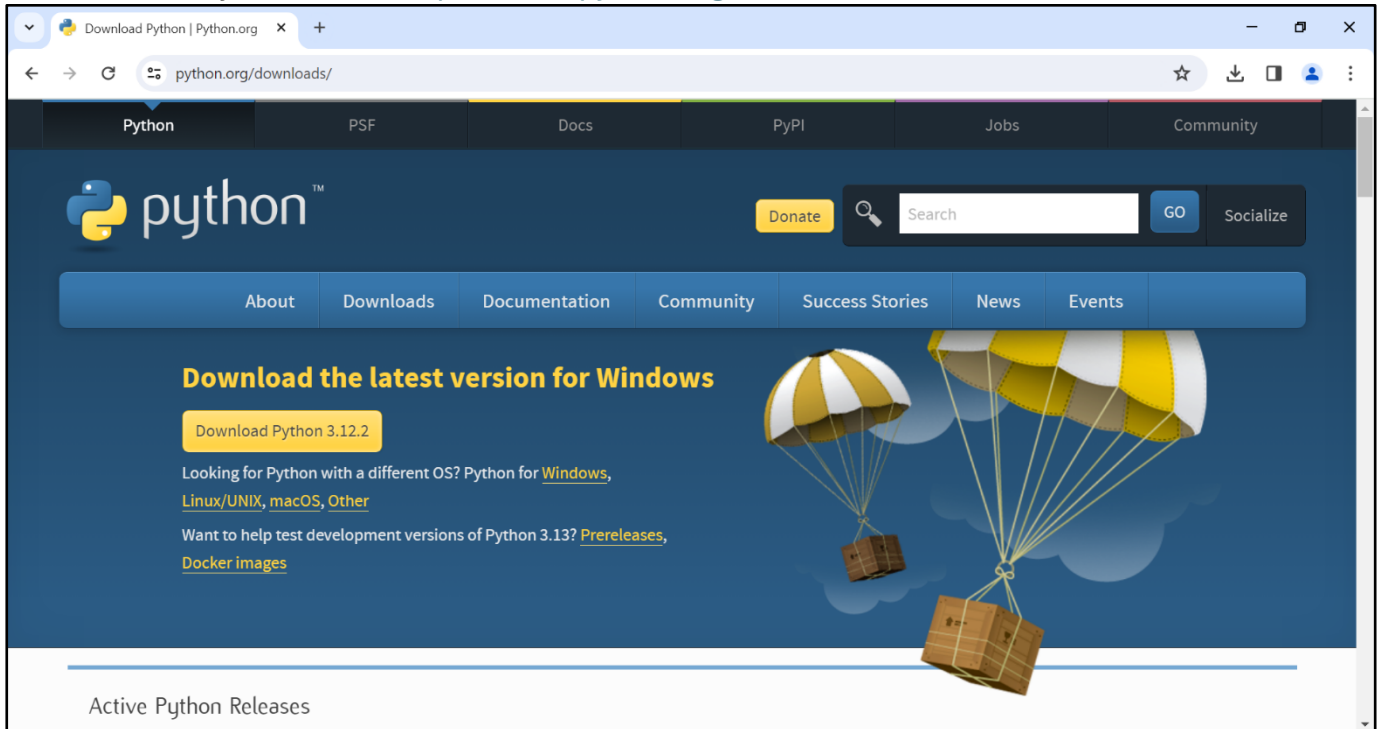
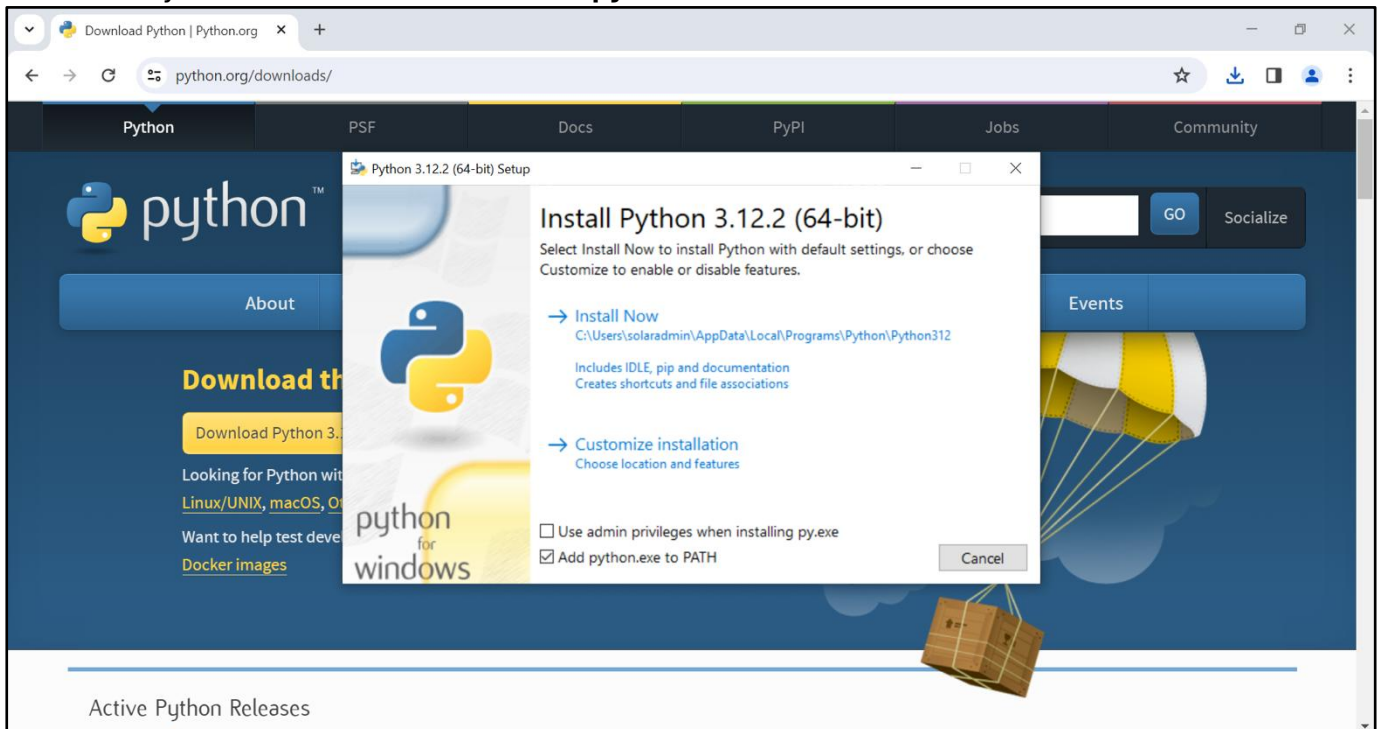


# Python 3 installation

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

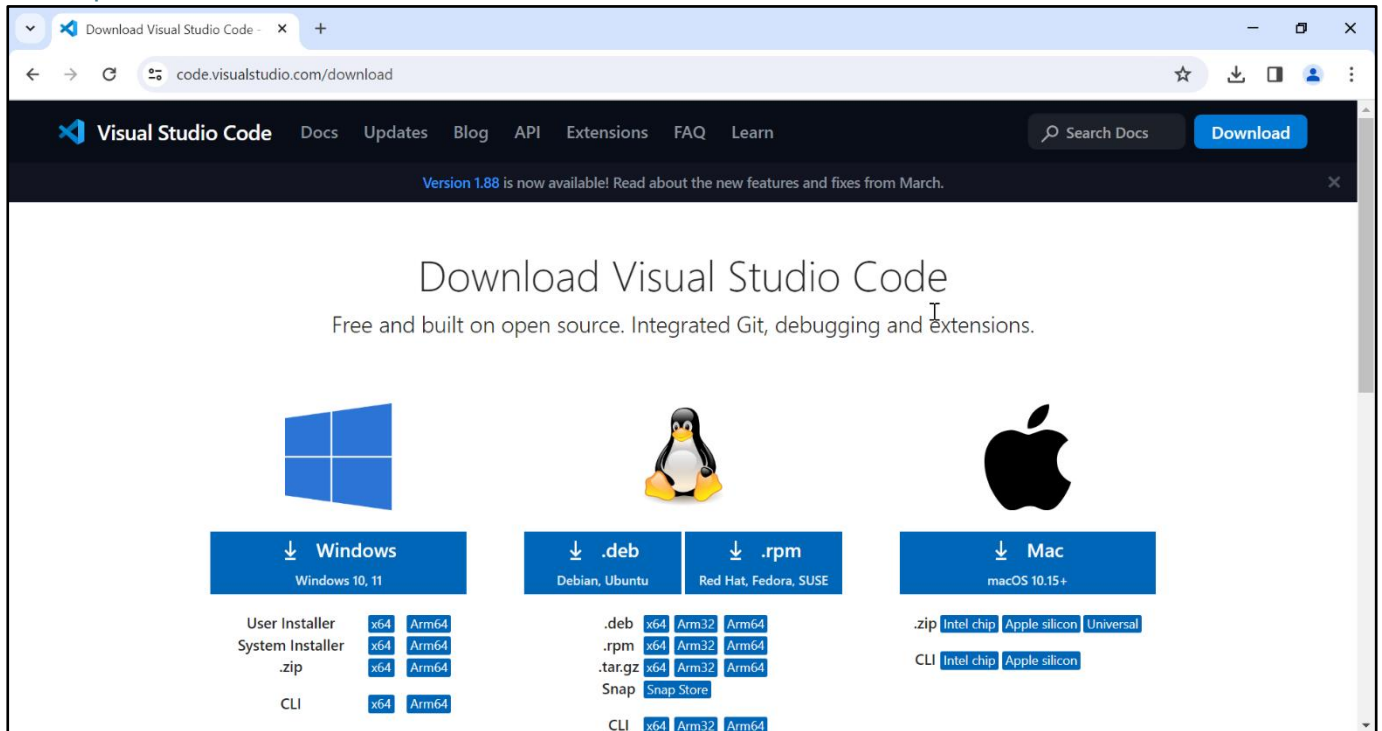


3. Install Python 3. Check the box for **Add python.exe to PATH** and click **Install Now**



## 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

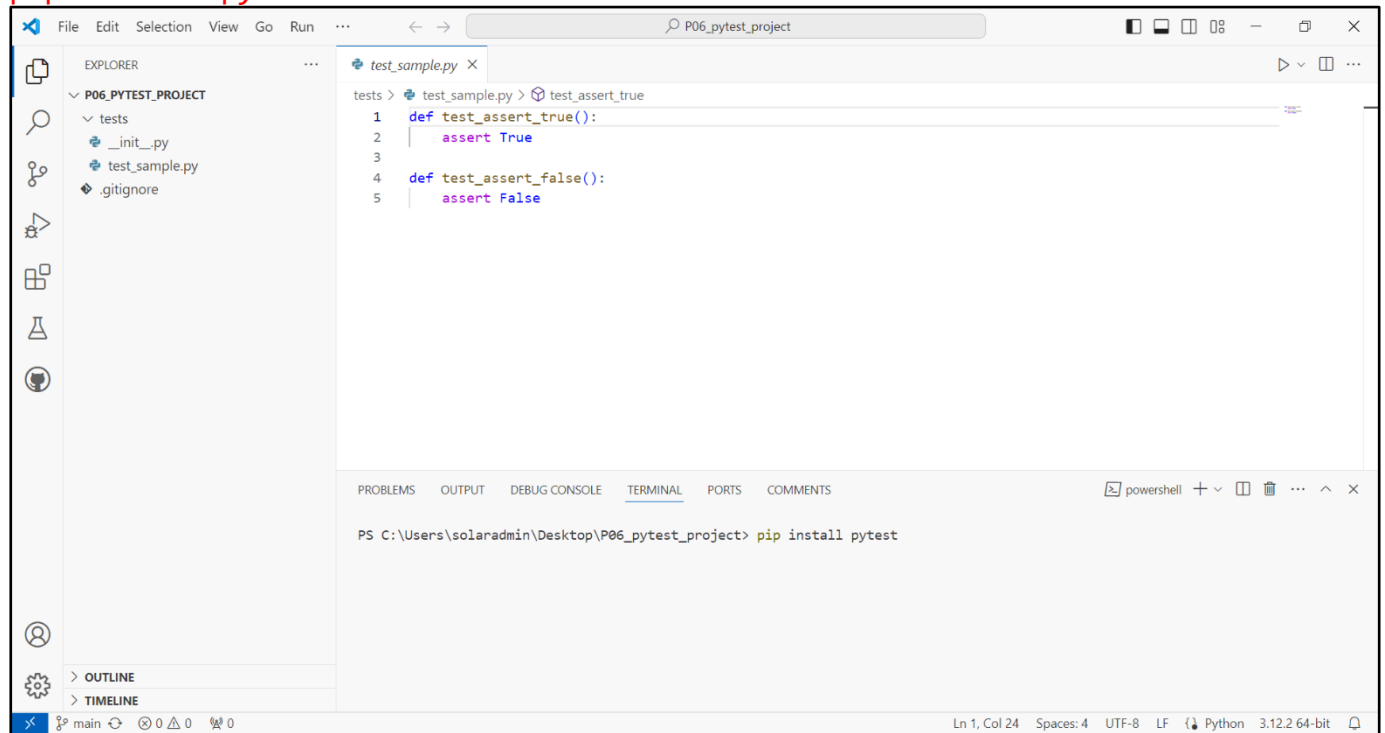
1. Launch Visual Studio Code
2. From the Extensions button on the left, search for and install the Python extension from Microsoft.



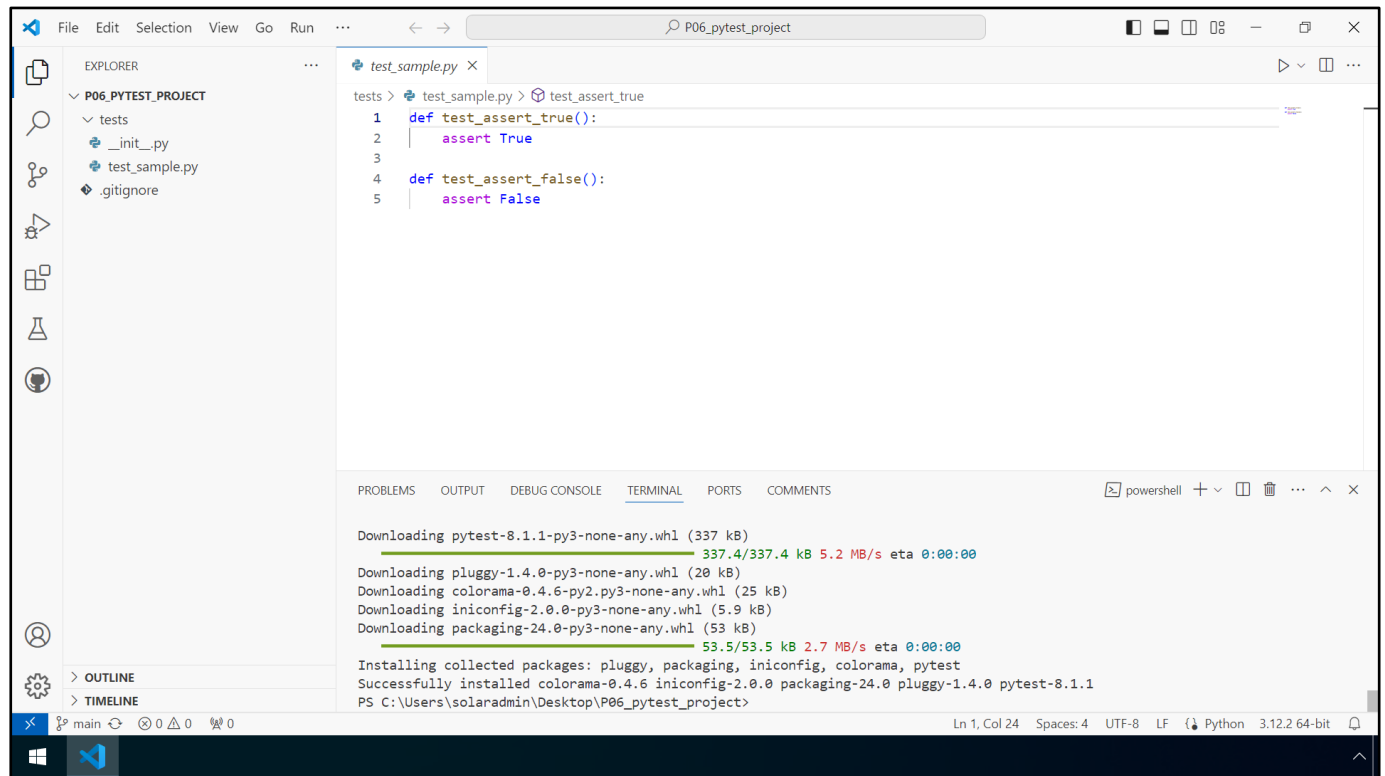
## pytest installation and execution

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**



## 5. Check that the installation was successful



The screenshot shows the Visual Studio Code interface with the Explorer view on the left displaying the project structure: P06\_PYTEST\_PROJECT, tests, \_\_init\_\_.py, test\_sample.py, and .gitignore. The main editor shows the file test\_sample.py with the following code:

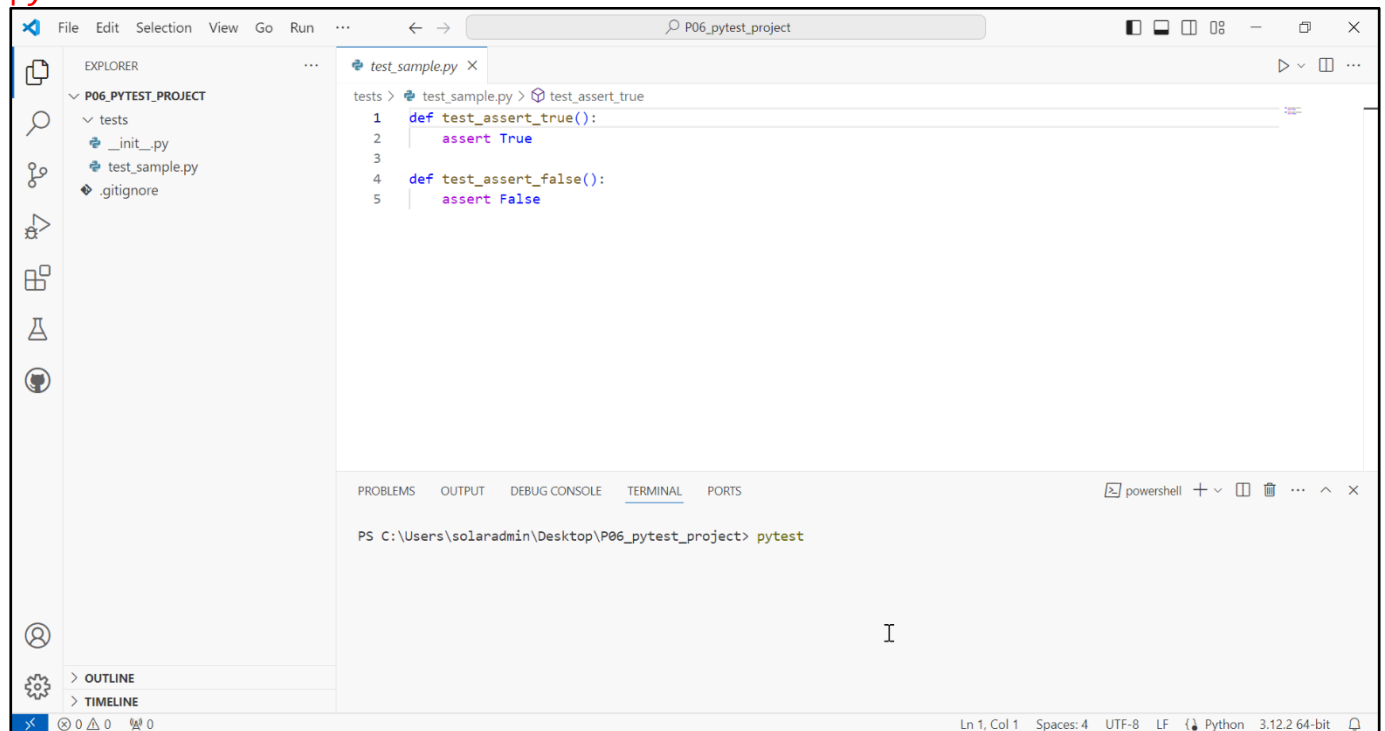
```
tests > test_sample.py > test_assert_true
1 def test_assert_true():
2     assert True
3
4 def test_assert_false():
5     assert False
```

The TERMINAL view at the bottom shows the output of the installation process:

```
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 (20 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**



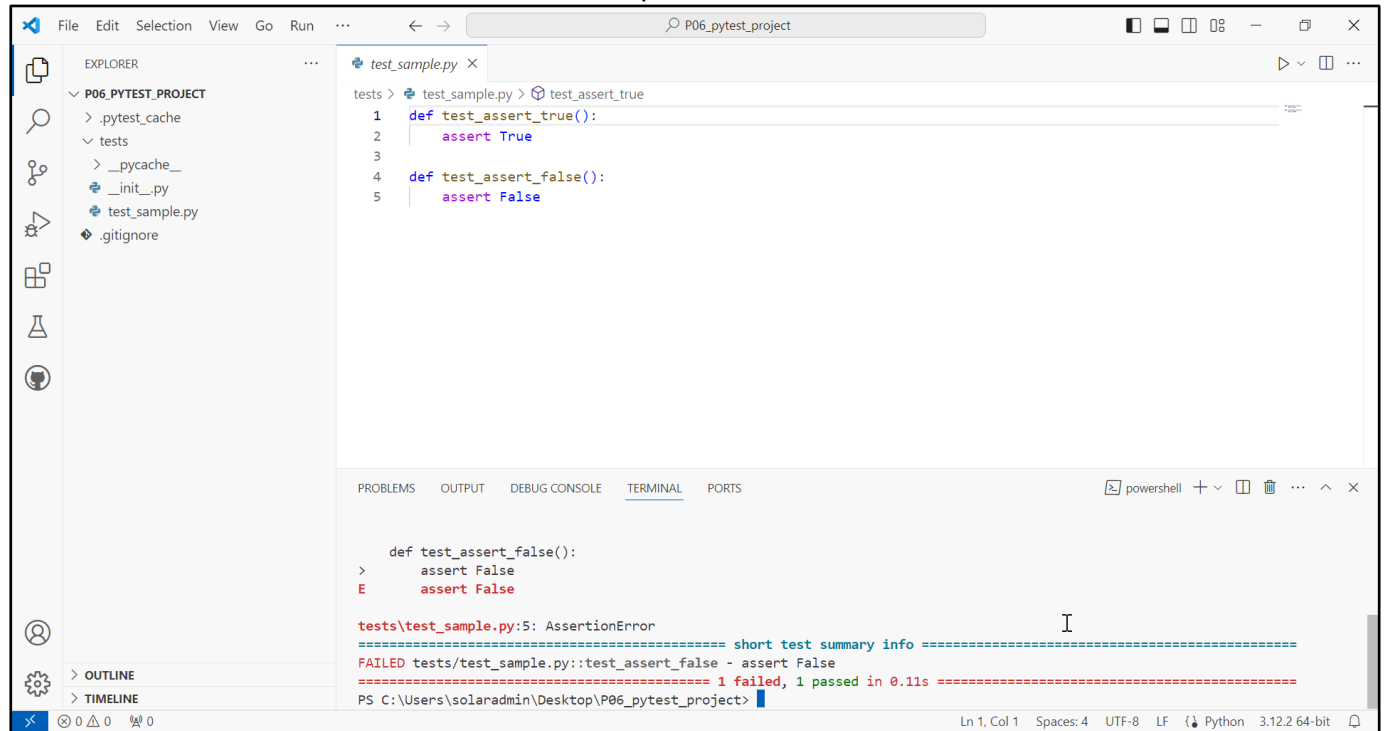
The screenshot shows the Visual Studio Code interface with the Explorer view on the left displaying the project structure: P06\_PYTEST\_PROJECT, tests, \_\_init\_\_.py, test\_sample.py, and .gitignore. The main editor shows the file test\_sample.py with the following code:

```
tests > test_sample.py > test_assert_true
1 def test_assert_true():
2     assert True
3
4 def test_assert_false():
5     assert False
```

The TERMINAL view at the bottom shows the command `pytest` entered in the PowerShell prompt:

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

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



```
File Edit Selection View Go Run ... test_sample.py X
P06_PYTEST_PROJECT
> .pytest_cache
> tests
> __pycache__
__init__.py
test_sample.py
.gitignore

tests > test_sample.py > test_assert_true
1 def test_assert_true():
2     assert True
3
4 def test_assert_false():
5     assert False

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS powershell + - &#x2013; ^ x

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>
```