**Pytest**

Pytest is a testing framework for Python that makes it easy to write simple and scalable test cases. It offers features like fixtures, parameterized tests, and detailed error reporting. With Pytest, we can efficiently test your code and ensure its reliability. Pytest Features

**Some key features of Pytest is as follows:**

* **Simple Syntax:** Pytest uses a simple syntax for writing tests, making it easy to get started and understand test cases.
* **Fixtures:** Provides a powerful fixture mechanism to set up and tear down resources needed for tests, promoting code reuse and reducing duplication.
* **Parameterized Tests:** Supports parameterized tests, allowing you to run the same test with different inputs efficiently.
* **Detailed Reporting:** Offers detailed and readable test reports with clear information on test failures and errors, helping you diagnose issues quickly.
* **Extensible:** Highly extensible with plugins, enabling additional functionalities and integrations modified to your testing needs.

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Running pytest without mentioning a filename will run all files of format **test\_\*.py** or **\*\_test.py** in the current directory and subdirectories. Pytest automatically identifies those files as test files.

Pytest requires the test function names to start with **test**. Function names which are not of format **test** are not considered as test functions by pytest.

**Using assert Statements:**

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Run a single test file - pytest test\_sample.py

**Using Fixtures (Reusable Setup/Teardown Code):**

Fixtures help with setup and teardown operations.

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**Parametrized Tests (Testing Multiple Cases):**

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**Running Tests with More Options:**

* Run tests with detailed output - pytest -v
* Stop on first failure - pytest -x
* Show print statements - pytest -s

**Generating Test Reports:**

Generate an **HTML test report** - pytest --html=report.html