

briefly explain how i can meet this objective with my setup: wsl vscode ... implemented and run AI-suggested test cases in my development environment

You can meet your objective—implementing and running AI-suggested test cases for your Python code—using your WSL and VS Code setup as follows:

1. Generate Test Cases with AI (e.g., Copilot)

- Open your Python file in VS Code.
- Use GitHub Copilot's **Generate Tests** feature:
 - Right-click in the editor and select **Copilot > Generate Tests**.
 - Or, open the Copilot Chat view and prompt:
Generate tests for this code. Also include tests for edge cases.
 - Copilot will create test functions covering valid, invalid, missing city names, and API failures, either in your existing test file or a new one^[1].

2. Configure Python Testing in VS Code (WSL)

- Make sure the Python extension is installed in your WSL environment^[2].
- Open the **Test Explorer** in VS Code.
- If prompted, select **Configure Python Tests** and choose a framework (e.g., unittest or pytest)^[3].
- Ensure your test files are named appropriately (e.g., `test_fetch_weather_data.py`) so the test discovery can find them^[3].

3. Run and Debug the Tests

- In the **Test Explorer**, you'll see your discovered tests. Select the play button next to individual tests or run all tests at once^[3] ^[1].
- You can also right-click a test and choose **Run Test**, or use the command palette to run all tests^[3].
- Debug tests by selecting the debug icon next to them in the Test Explorer^[3].

4. Review Results

- Test results (pass/fail, errors) will be shown in the Test Explorer and the output panel.
- You can iterate on your code and tests, re-running as needed.

This workflow lets you quickly implement and verify AI-suggested tests in your WSL-based VS Code Python environment, ensuring robust coverage for your function^[3] ^[2] ^[1].

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1. <https://code.visualstudio.com/docs/debugtest/testing>
2. <https://code.visualstudio.com/docs/remote/wsl-tutorial>
3. <https://code.visualstudio.com/docs/python/testing>