

# Walkthrough

This document provides step-by-step instructions to set up and execute the two Python data analysis tasks from the report.

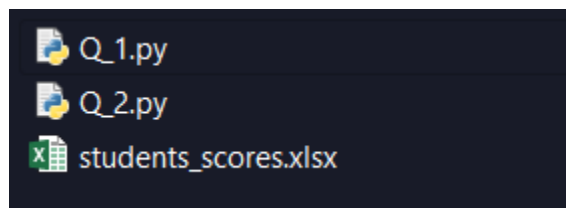
## 1. File Preparation

Ensure these files are in your project folder.

1. **Task 1:** Q\_1.py
  - Analyzes renewable energy adoption across 10 countries.
2. **Task 2:** Q\_2.py + students\_scores.xlsx
  - Evaluates exam scores for 20 students across four subjects.

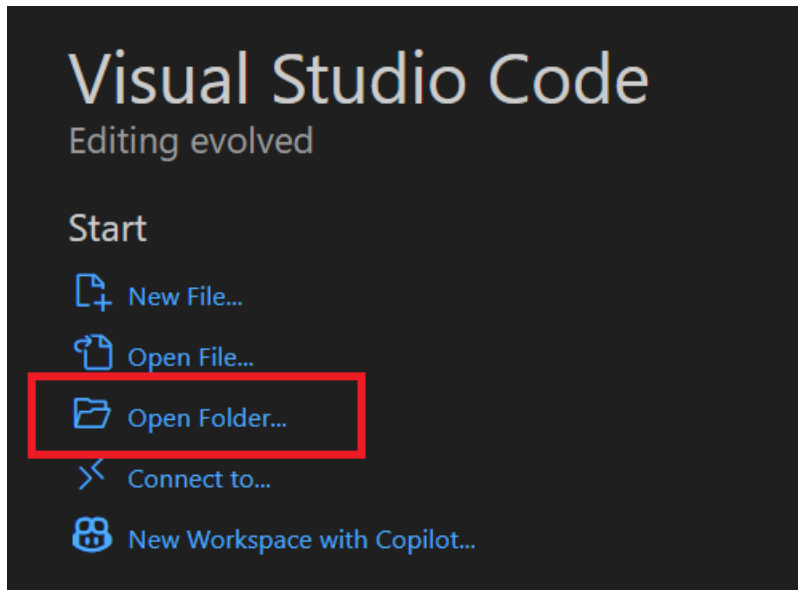
## 2. Development Environment Setup

1. Install Python from [python.org](https://python.org)
2. Set up VS Code:
  - Install VS Code from [code.visualstudio.com](https://code.visualstudio.com)
  - Add the Python extension (Ctrl+Shift+X → search "Python")
3. Create a new folder and save these files in it:
  - Q\_1.py
  - Q\_2.py
  - students\_scores.xlsx

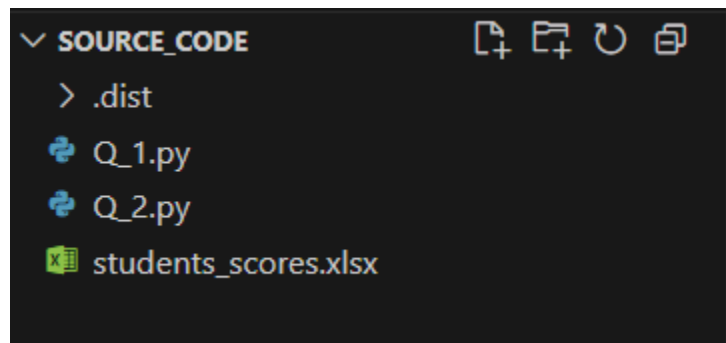


### 3. Project Setup in Vs Code

1. Launch Vs Code and click "Open Folder" and navigate to and select the folder containing your Python and dataset files.



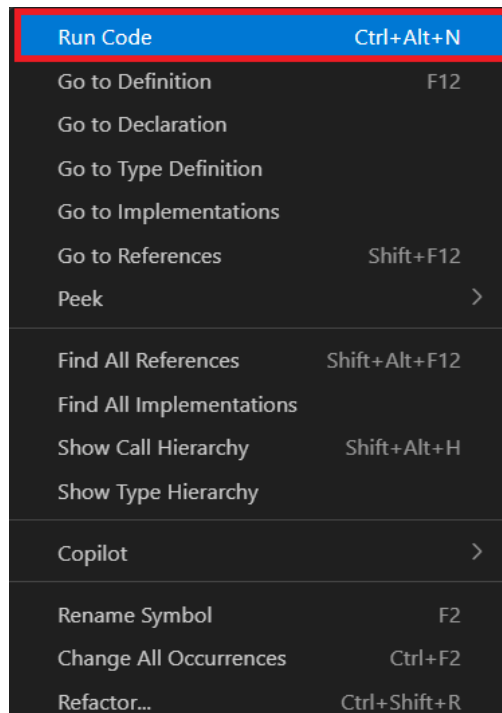
2. **Files will appear** in the project panel. Double-click to open:



3. Open both .py files

### 4. Execution

1. Run the program by right-clicking on either:
  - Q\_1.py (for Task 1)
  - Q\_2.py (for Task 2)
  - selecting "Run Code"



2. Shortcut: Press "Ctrl + Alt + N" to run the active Python file
3. Output: The console will display:
  - Renewable energy metrics (Task 1)
  - Student performance analysis (Task 2)