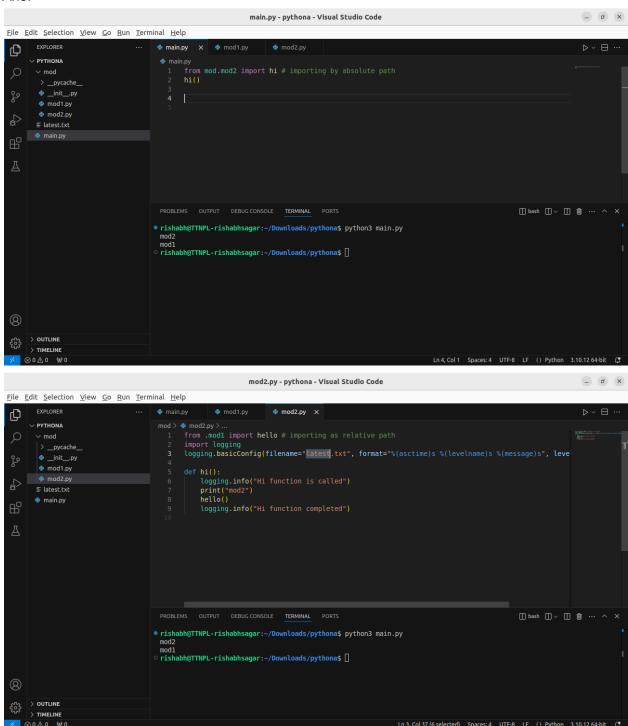
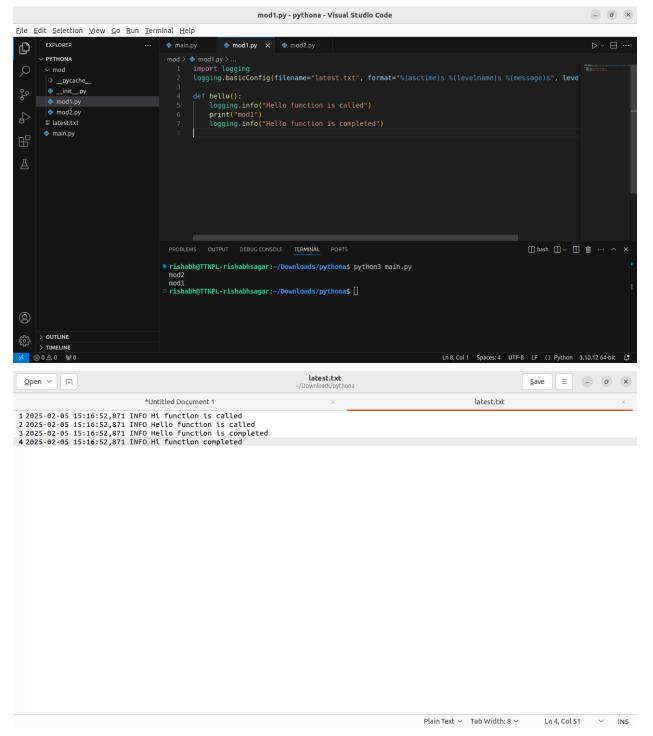
## **Module and Packages**

Q1)Write Python code scripts to demonstrate absolute vs relative imports. Prrof that relative imports should be explicit. Also demonstrate use of PYTHONPATH Ans.



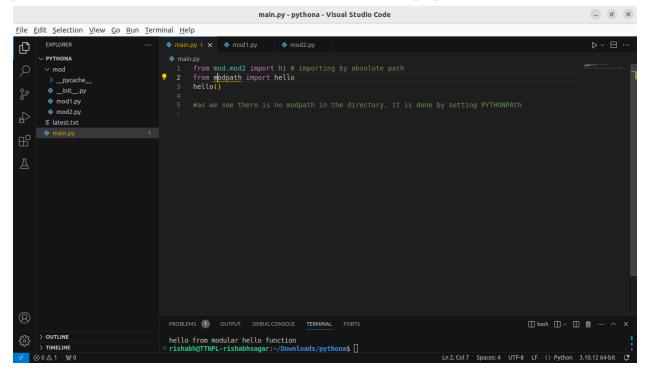


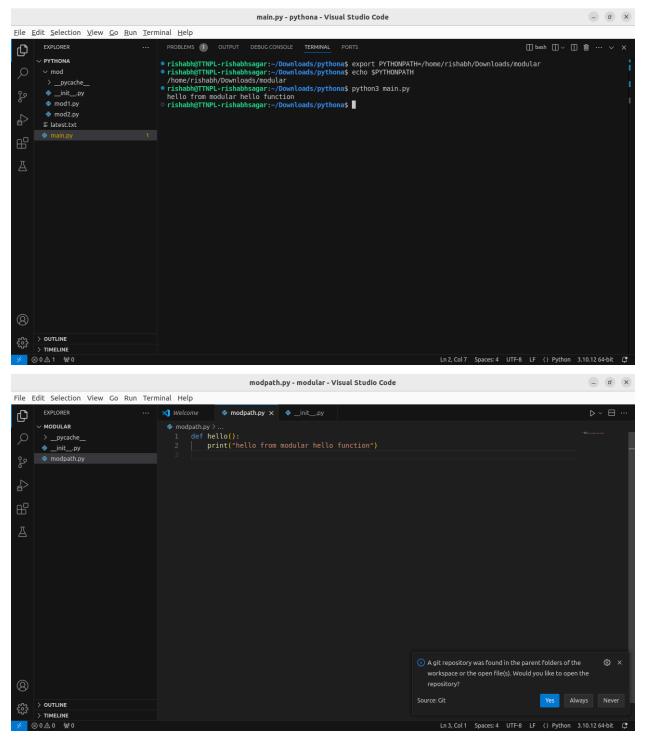
Prrof that relative imports should be explicit-

Relative imports should be explicit because-

- 1. Clarity-In larger project clarity will be faded as the size of the project grows
- 2. **Ambiguity** It leads to ambiguity as .. vs ... can lead to problems when the module structure changes or when scripts are executed from different directories.

3.**Package Execution:** Relative imports only work within a package context. If you attempt to run a script that contains relative imports directly Python will throw an error

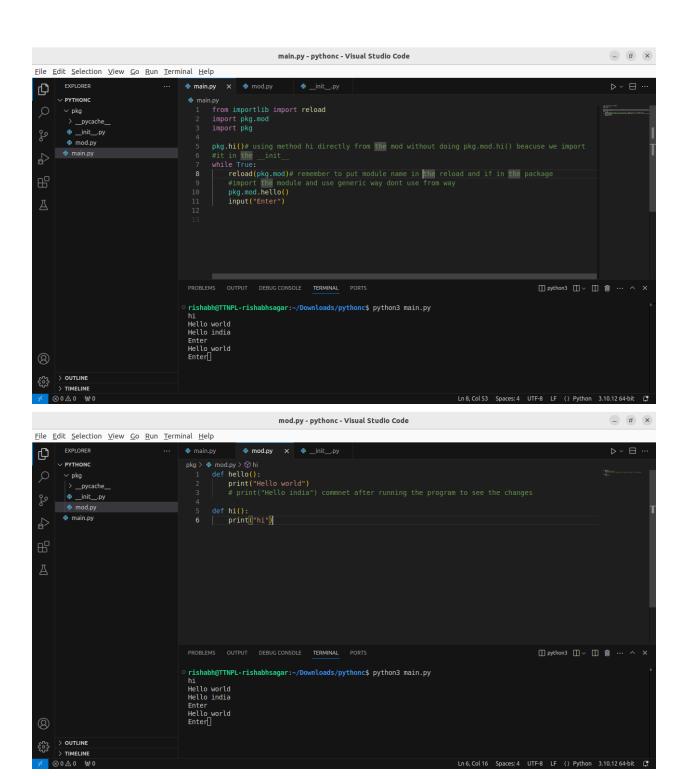


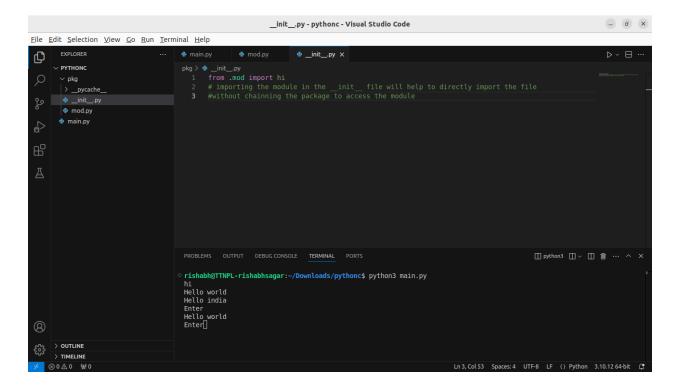


## Q2)Explain the use of `from importlib import reload`

Ans. The reload method in the importlib is used to reload the module in real time i.e whenever we run the program which depend on any module, then that module is stored in the memory and whenever any changes happen in the module during execution it does not reflect, to reflect we have to stop the execution and re run the program hence reload will help to reflect the

changes immediately during the execution without re running the program. It is use in testing, web development etc





Q3)Read about itertools.count(start=0, step=1) function which accepts options arguments start and end Based on this, implement a similar `datecount([start, step])` where start is a `datetime.date` object and step can we string values 'alternative', 'daily', 'weekly', 'monthly', 'Quarterly', 'yearly' (ignore case) example execution: >> dc = datecount(step='weekly') >> for i in range(10): print (next(dc)) Output: 2025-01-17 2025-01-24 2025-01-31 2025-02-07 2025-02-14 2025-02-21 2025-02-28 2025-03-07 2025-03-14 2025-03-21

## Ans.

