Assignment-5

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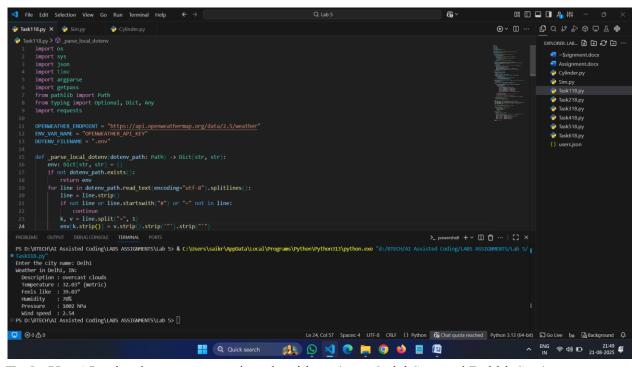
BATCH: 16

Task 1 : Use an AI tool to generate a Python program that connects to a weather API.

Prompt:

"Generate code to fetch weather data securely without exposing API keys in the code."

CODE&OUTPUT:

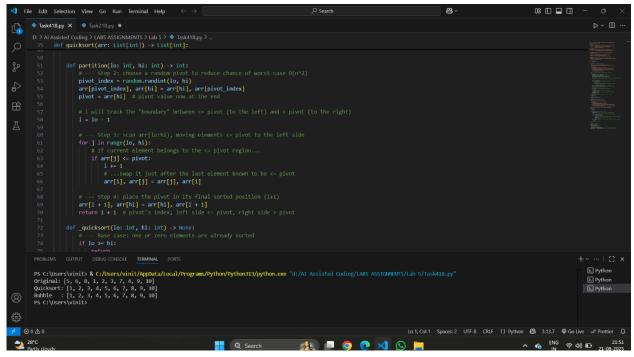


Task: Use AI to implement two sorting algorithms (e.g., QuickSort and BubbleSort).

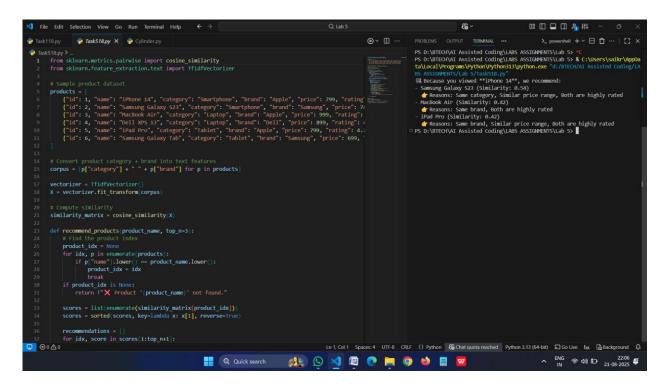
Prompt:

"Generate Python code for QuickSort and BubbleSort, and include comments explaining stepby-step how each works and where they differ."

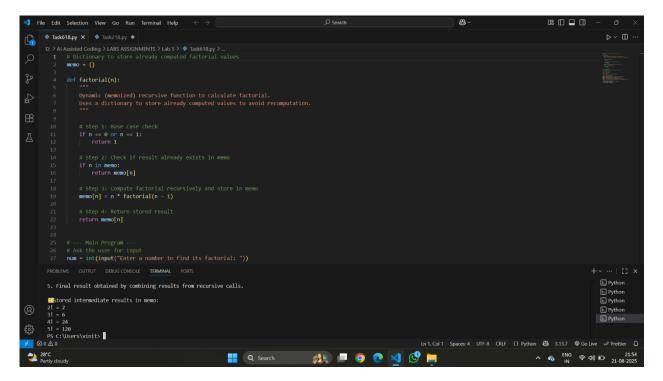
CODE&OUTPUT:



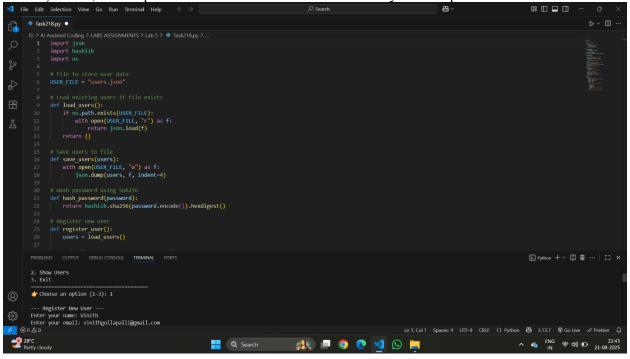
Generate a recommendation system that also provides reasons for each suggestion



• Generate a recursive factorial function with comments that explain each line and a final summary of the algorithm's flow



• Prompt GitHub Copilot to generate a Python script that collects user data (e.g., name, age, email). Then, ask Copilot to add comments on how to anonymize or protect this data.



PROMPT:

Generate an Armstrong number checking function with comments and explanation.

