Al Assisted Coding - Lab Test 1

Enrollment No:2503A51L01

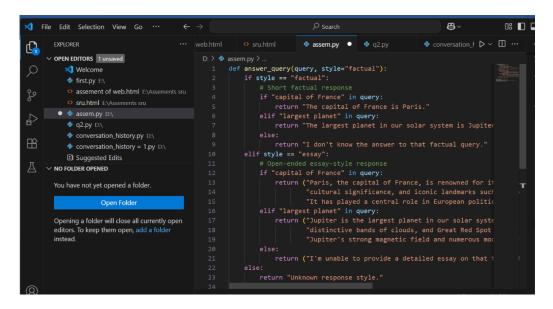
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Batch No:19

Tasks 1

Use GitHub Copilot to generate different prompt variations for the chatbot (e.g., answering short factual queries vs. open-ended essaystyle questions)

prompt: Create a program short factual queries vs open-ended eassy style questions

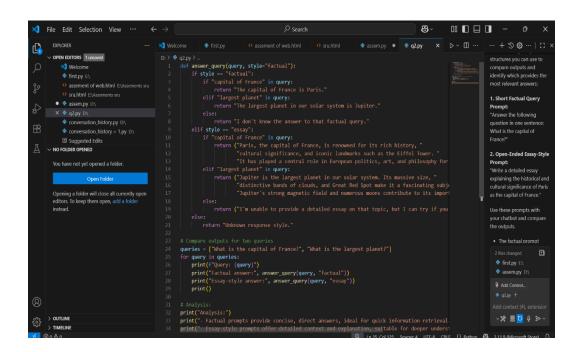


Output:



Compare outputs and identify which prompt structure provides the most relevantanswers.

Prompt: create a program to identify which prompt structure provides the most relevant answers

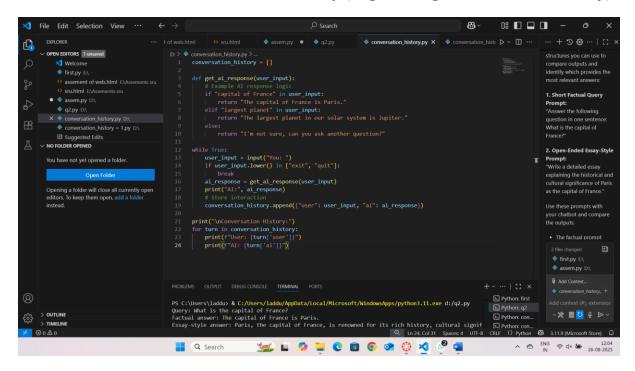


Output:



Task2:

Prompt: create a python script that stores previous user—Al interactions in a conversationhistory (e.g., using a list or dictionary)



Output:

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Opening a folder will close all currently open editors. To keep them open, add a folder instead.

Ji i'm not sure, can you ask another question?
You: what is ai
AI: I'm not sure, can you ask another question?
You do you no ai
AI: I'm not sure, can you ask another question?
You exit

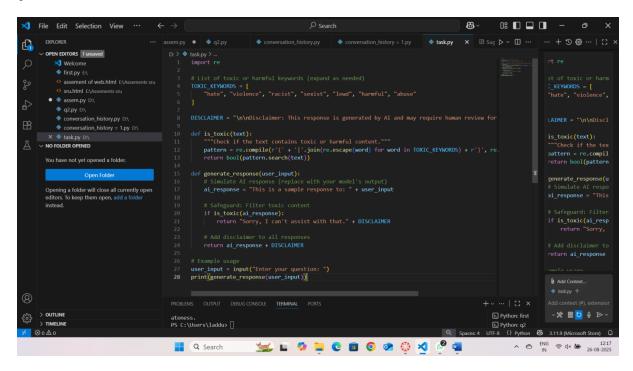
Conversation History:
User: what is ai
AI: I'm not sure, can you ask another question?
AI: I'm not sure, can you ask another question?
AI: I'm not sure, can you ask another question?
AI: I'm not sure, can you ask another question?
AI: I'm not sure, can you ask another question?
AI: I'm not sure, can you ask another question?
AI: I'm not sure, can you ask another question?
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2. Ethical Foundations Task

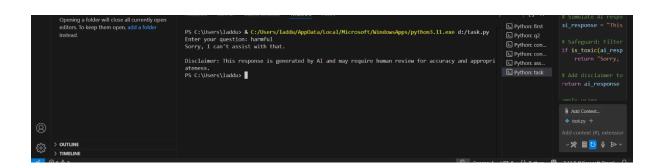
Task:

Prompt: create a python program Add code-level safeguards (with Copilot assistance) to ensure that the system avoids biased or harmful responses (e.g., filtering toxic content, adding disclaimers).

• Document on how responsible AI practices were integrated into your code.



Output:



Observation:

- While working on this assignment with GitHub Copilot, I observed that the quality of AI-generated code and responses strongly depends on how the prompt is framed.
 - For short factual queries, concise prompts produced direct and accurate code/output.
 - For open-ended essay-style prompts, Copilot generated longer, more descriptive answers, but sometimes required refinement to stay relevant.

- By integrating conversation history, the system was able to provide contextaware answers, showing how prompt design plus stored context improves chatbot consistency.
- In Task 2, adding safeguards (e.g., filtering harmful/toxic words and appending disclaimers) demonstrated how responsible AI practices can be implemented at the code level. This ensures that generated responses are safer, unbiased, and aligned with ethical AI usage.