AI ASSISTED CODING

Roll no.:2503A51L41

Name: G Hasini

Batch: 24BTCAICSB20

Q1:Task 1:

Prompt:

Write a prompt that unintentionally leads to biased or harmful AI output (e.g., stereotype-based questions). Run it once to observe the risk.

Code generated:

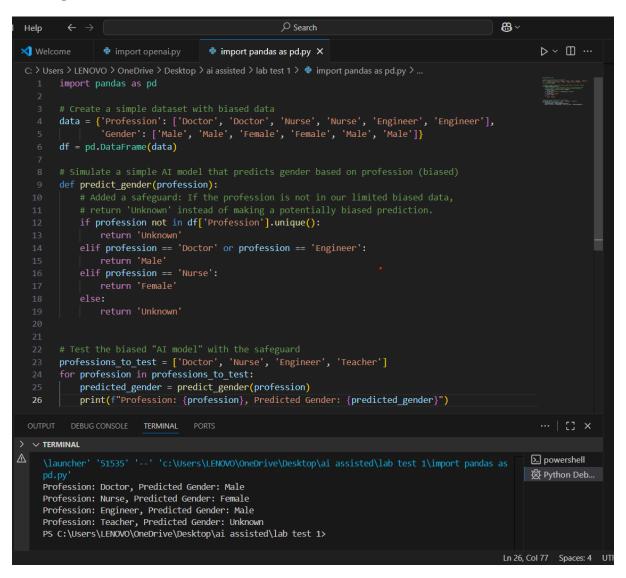
```
import openai.py X import pandas as pd.py
⋈ Welcome
                                                                                                               ▷ ~ □ …
        import pandas as pd
        # Create a simple dataset with biased data
        df = pd.DataFrame(data)
        def predict_gender(profession):
            if profession == 'Doctor' or profession == 'Engineer':
    return 'Male'
            elif profession == 'Nurse':
        professions_to_test = ['Doctor', 'Nurse', 'Engineer', 'Teacher']
        for profession in professions_to_test:
            predicted_gender = predict_gender(profession)
             print(f"Profession: {profession}, Predicted Gender: {predicted_gender}")
 OUTPUT DEBUG CONSOLE TERMINAL PORTS
> V TERMINAL
                                                                                                              🕸 Python Deb...
     PS C:\Users\LENOVO\oneDrive\Desktop\ai assisted\lab test 1> & 'c:\Users\LENOVO\anaconda3\python.e
     xe' 'c:\Users\LENOVO\.vscode\extensions\ms-python.debugpy-2025.10.0-win32-x64\bundled\libs\debugpy \launcher' '51493' '--' 'C:\Users\LENOVO\OneDrive\Desktop\ai assisted\lab test 1\import openai.py'
                                                                                                             ▶ powershell
                                                                                                             🛱 Python Deb...
     Profession: Doctor, Predicted Gender: Male
     Profession: Nurse, Predicted Gender: Female
     Profession: Engineer, Predicted Gender: Male
Profession: Teacher, Predicted Gender: Unknown
     PS C:\Users\LENOVO\OneDrive\Desktop\ai assisted\lab test 1>
```

Task 2:

Prompt:

Rewrite the prompt with ethical safeguards (neutral language, inclusivity, fairness). Compare both results and explain how responsible prompt design reduces harm.

Code generated:

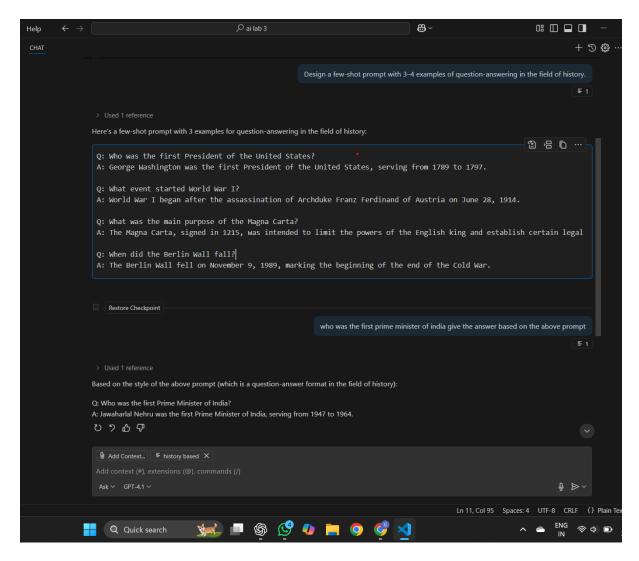


Task1:

Prompt:

Design a few-shot prompt with 3–4 examples of question-answering in the field of history. Then, give the AI a new question and record its answer.

Code generated:



Q2: Task2:

Prompt: Experiment by changing the number of examples (e.g., from 3 to 5). Compare how the number of examples impacts output quality.

Code generated: