# AI Assisted Coding LAB ASS-5.4

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Task Description #1:

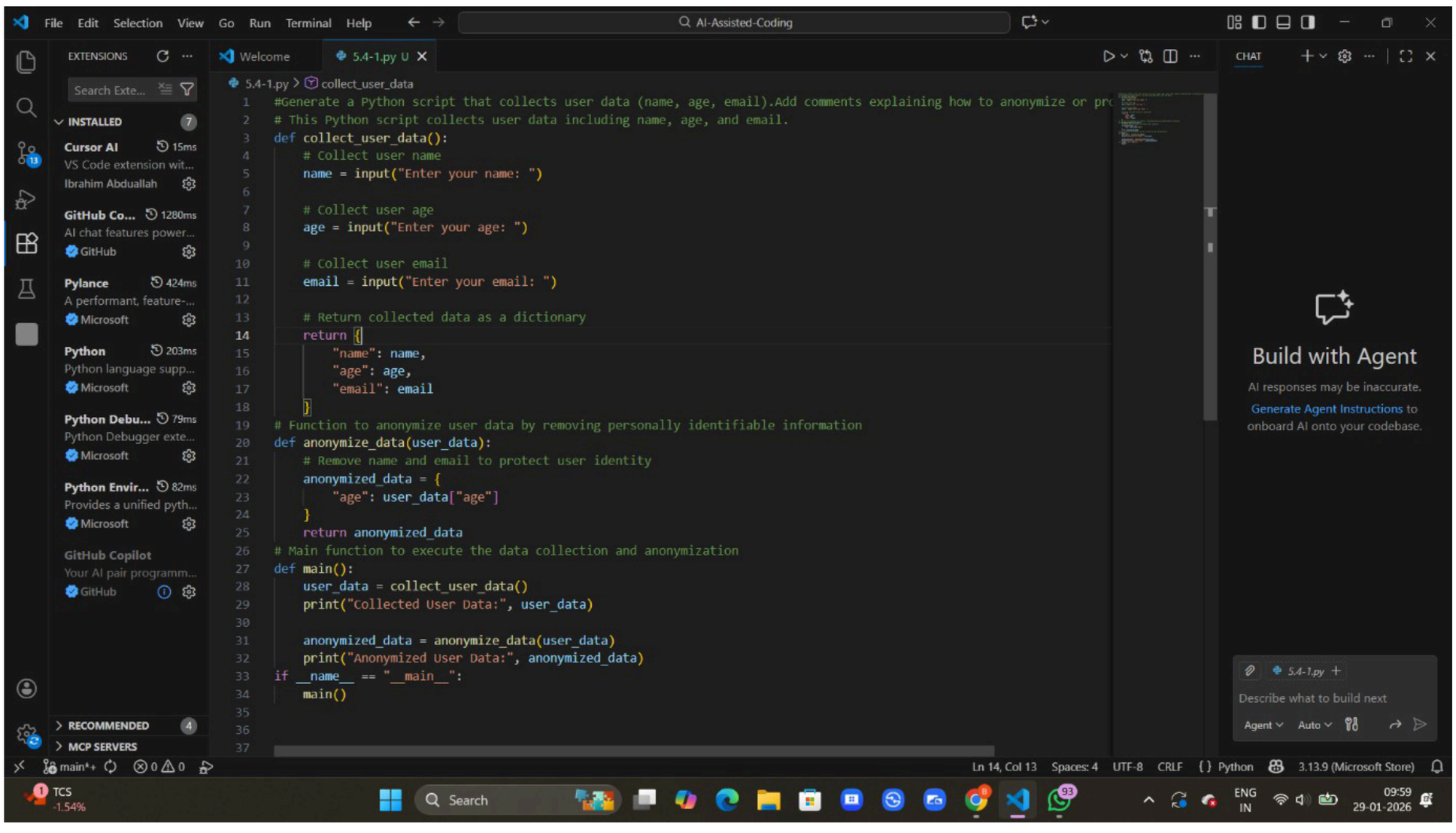
- Prompt GitHub Copilot to generate a Python script that collects user data (e.g., name, age, email). Then, ask Copilot to add comments on how to anonymize or protect this data.

PROMPT:

# Generate a Python script that collects user data such as name, age, and email. # Add inline comments explaining how to protect or anonymize this data,

# such as hashing email addresses, avoiding plain-text storage, # and following basic privacy best practices.

CODE AND INPUT



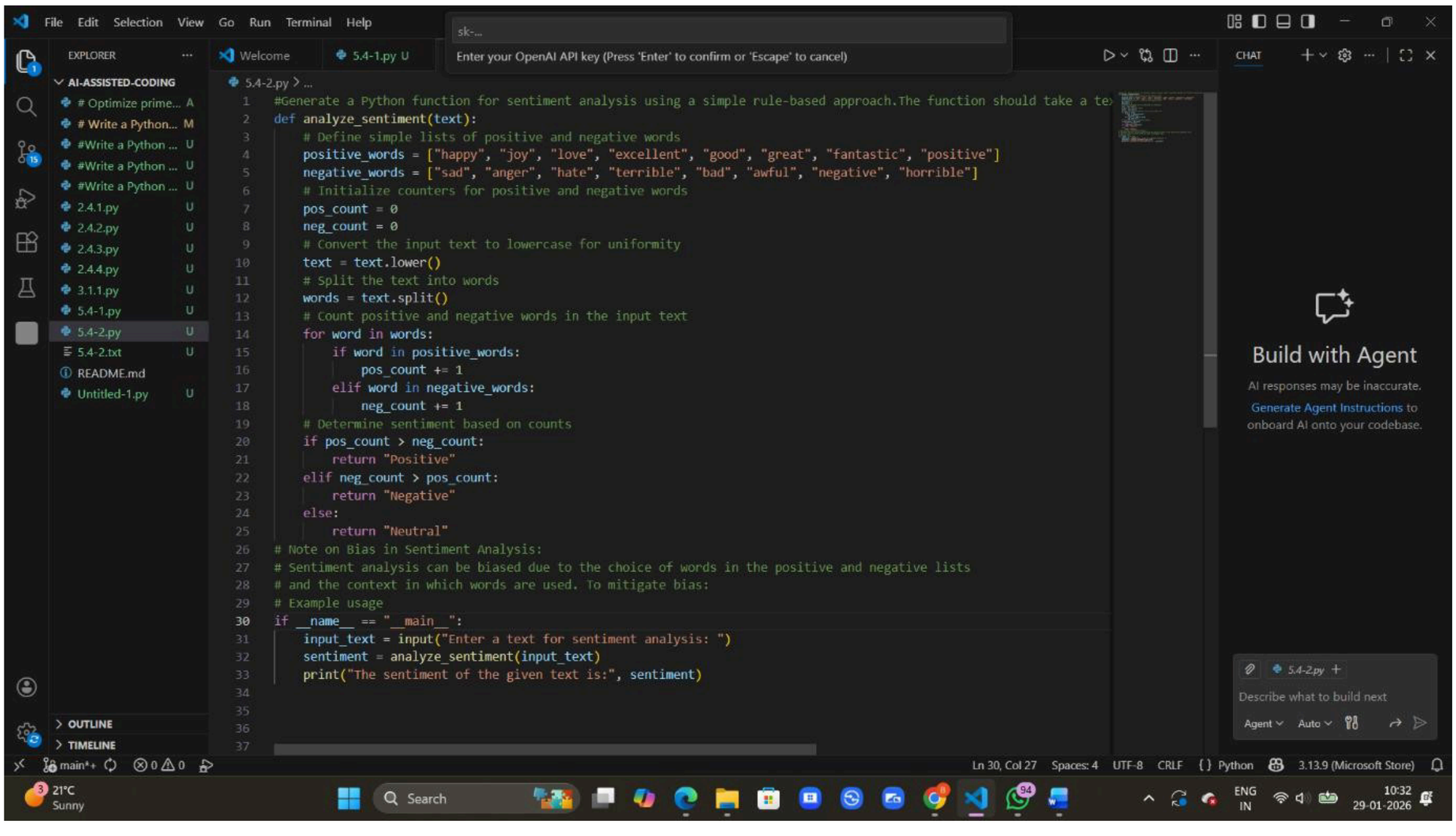
## OUTPUT:

```
                                        ^C
PS C:\Users\sathw\Documents\AI-Assisted-Coding>
PS C:\Users\sathw\Documents\AI-Assisted-Coding>  c:; cd 'c:\Users\sathw\Documents\AI-Assisted-Coding'; & 'c:\Users\sathw\AppDa
ta\Local\Microsoft\WindowsApps\python3.13.exe' 'c:\Users\sathw\.vscode\extensions\ms-python.debugpy-2025.18.0-win32-x64\bundle
d\libs\debugpy\launcher' '54325' '--' 'C:\Users\sathw\Documents\AI-Assisted-Coding\5.4-1.py'
Enter your name: SATHWIK REDDY
Enter your age: 21
Enter your email: sathwikreddybala@gmail.com
Collected User Data: {'name': 'SATHWIK REDDY', 'age': '21', 'email': 'sathwikreddybala@gmail.com'}
Anonymized User Data: {'age': '21'}
PS C:\Users\sathw\Documents\AI-Assisted-Coding>
```

## Task Description #2:

- Ask Copilot to generate a Python function for sentiment analysis. Then prompt Copilot to identify and handle potential biases in the data

PROMPT: # Generate a Python function for sentiment analysis.
# Add comments or code to identify and reduce potential biases in the data, # such as removing offensive terms, balancing positive and negative samples, # and avoiding biased language in predictions.



**OUTPUT:**

```
Enter text to analyze (or 'quit' to exit): good

Text: "good"
Sentiment: POSITIVE
Score: 1.0 (range: -1.0 to 1.0)
Positive words: 1
Negative words: 0
Confidence: medium
------------------------------------------------------------

Enter text to analyze (or 'quit' to exit):
```

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS
------------------------------------------------------------

Enter text to analyze (or 'quit' to exit): bad

Text: "bad"
Sentiment: NEGATIVE
Score: -1.0 (range: -1.0 to 1.0)
Positive words: 0
Negative words: 1
Confidence: medium
------------------------------------------------------------

Enter text to analyze (or 'quit' to exit):
```

**Task Description #3:**

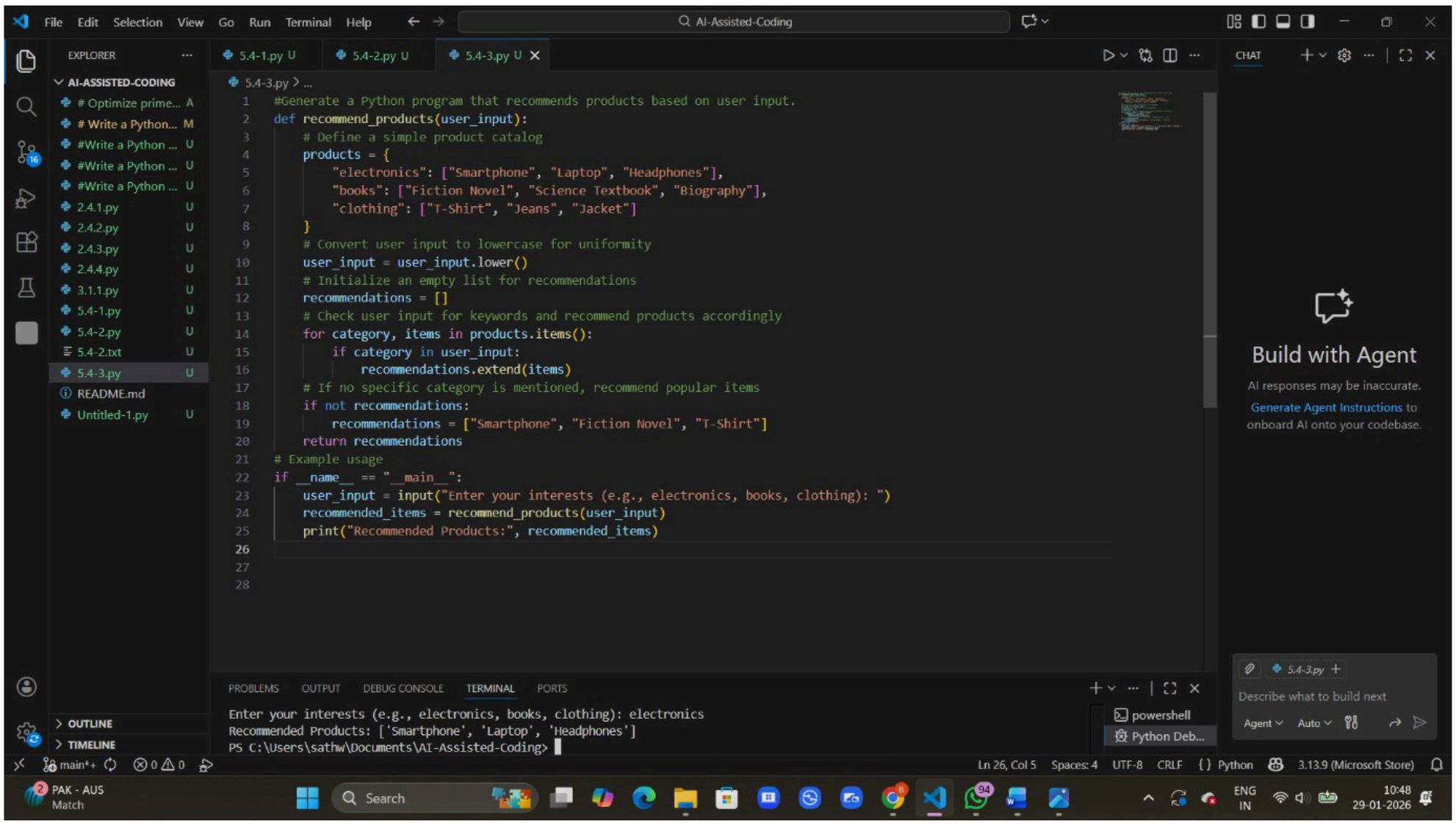
- **Use Copilot to write a Python program that recommends products based on user history. Ask it to follow ethical guidelines like transparency and fairness.**

**PROMPT:**

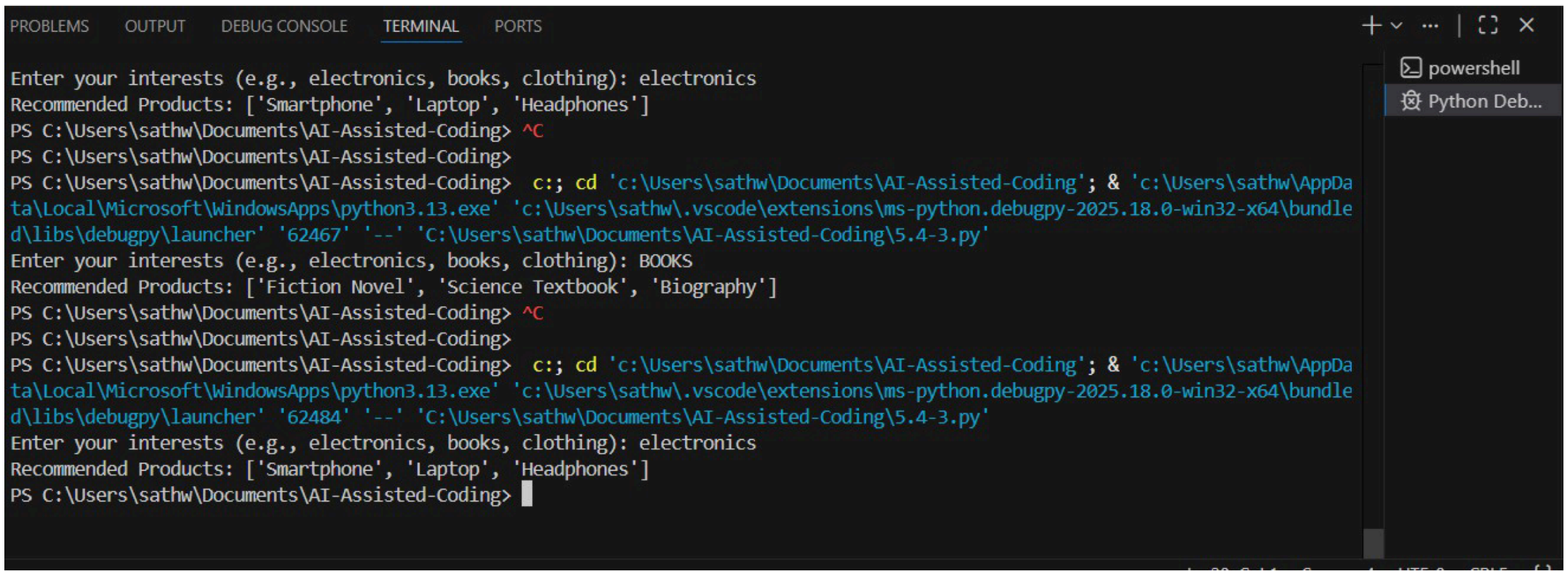
**# Generate a Python program that recommends products based on user purchase history. # Follow ethical AI guidelines such as transparency, fairness, and user control.**

**# Add comments explaining how recommendations are generated, # Avoid favouritism toward only popular products, # and allow users to give feedback or opt out of recommendations.**

## CODE AND INPUT:




## OUTPUT:




## Task Description #4:

- Prompt Copilot to generate logging functionality in a Python web application. Then, ask it to ensure the logs do not record sensitive information.

PROMPT:

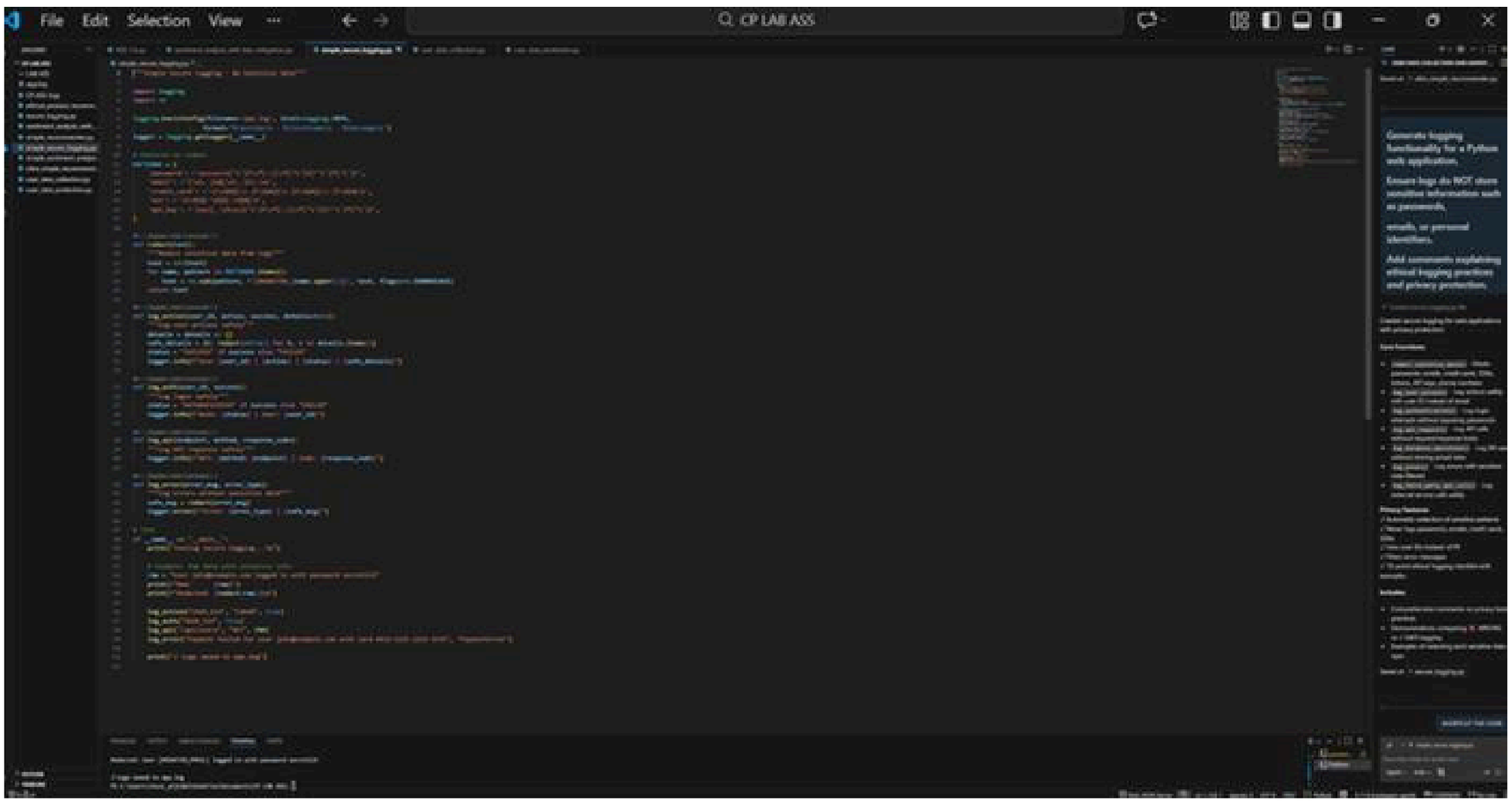
# Generate logging functionality for a Python web application.

# Ensure logs do NOT store sensitive information such as

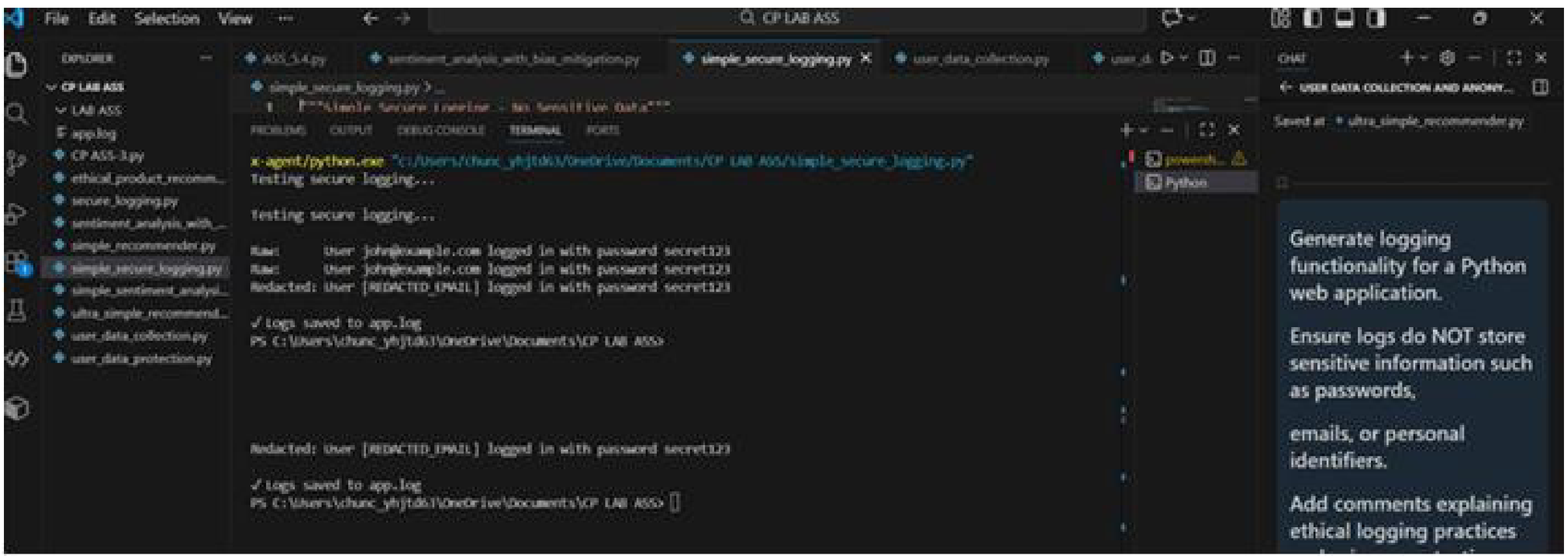
passwords, # emails, or personal identifiers.

# Add comments explaining ethical logging practices and privacy protection.

## CODE AND INPUT:



## OUTPUT:




Task Description #5:

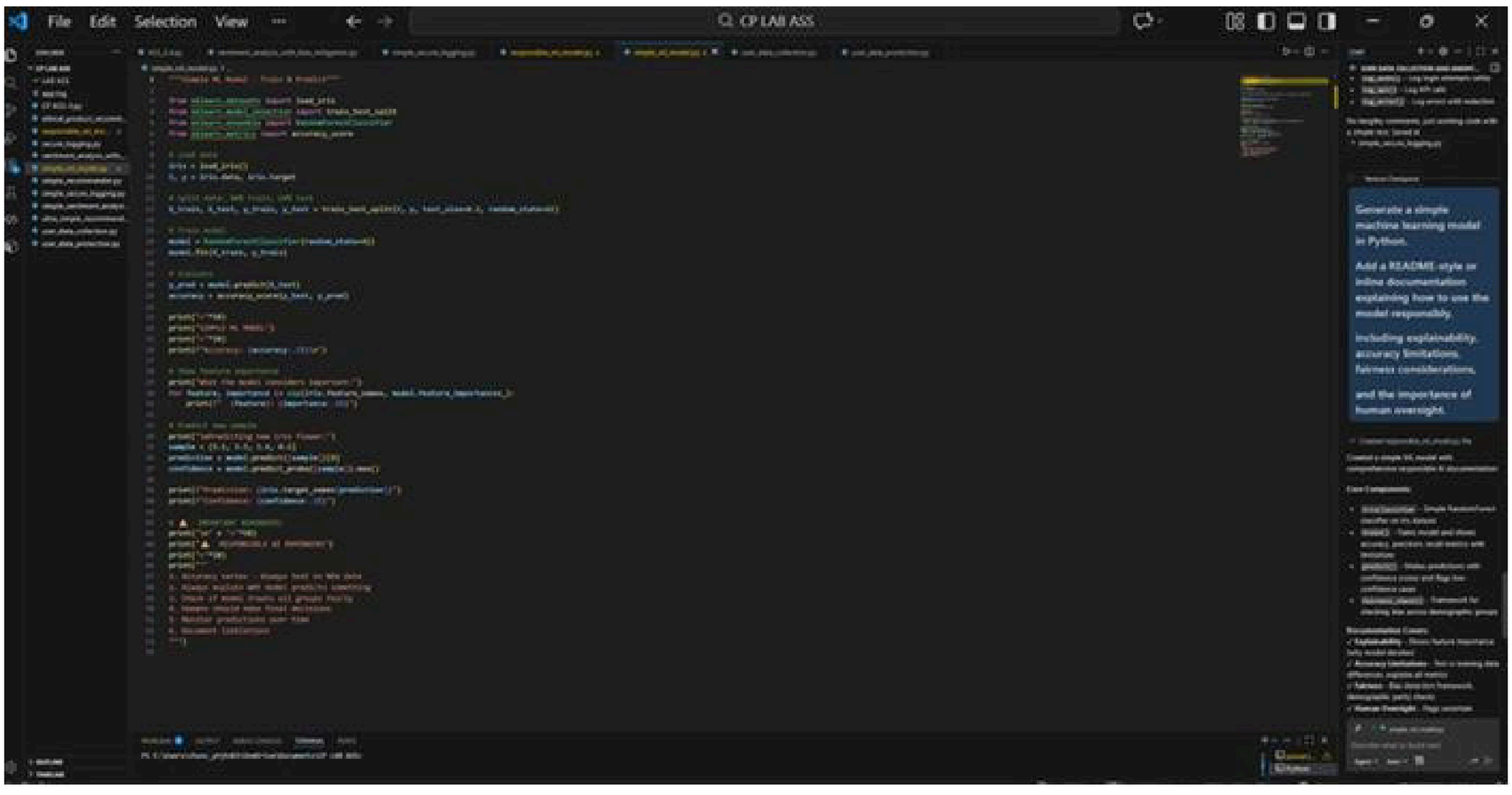
- Ask Copilot to generate a machine learning model. Then, prompt it to add documentation on how to use the model responsibly (e.g., explainability, accuracy limits).

PROMPT: # Generate a simple machine learning model in Python.

# Add a README-style or inline documentation explaining how to use the model responsibly,

# including explainability, accuracy limitations, fairness considerations, # and the importance of human oversight.

## CODE AND INPUT:




## OUTPUT: