

Task:1

The image shows a Windows desktop with a Visual Studio Code (VS Code) editor open. The editor has a dark theme and is displaying a Python file named 'LAB5.4.1.py'. The code in the file is a script for collecting user data (name, age, email) and displaying it. It also includes a section for data protection and anonymization, with comments explaining the steps: avoiding storing sensitive data in plain text, removing or hashing personally identifiable information (PII), using pseudonyms or unique IDs, limiting data access, and following local data protection regulations (e.g., GDPR, HIPAA). The terminal window at the bottom shows the execution of the script, with prompts for name, age, and email, and the resulting output: 'Collected Data: Name: samreen, Age: 19, Email: 2403a51284@xru.edu.in'. The sidebar on the left shows the Explorer view with the file 'LAB5.4.1.py' selected. The right sidebar shows the AI Copilot suggestions, with a prompt to generate a Python script that collects user data and asks for comments on how to anonymize or protect this data. The bottom status bar shows the file encoding as UTF-8, the line and column numbers as 18, 67, and the current mode as CRLF. The system tray at the bottom shows the date and time as 28-08-2025 18:02.

The screenshot displays a VS Code editor with a Python script for sentiment analysis. The script is named 'lab 5.4.2.py' and is located in the 'lab 5.4.2.py' file. The code defines a function 'sentiment_analysis' that takes three arguments: 'text', 'positive_words', and 'negative_words'. The function splits the text into words and classifies them based on the provided word lists. The script also includes a dataset of sentences and a loop to print predictions for each sentence.

```
def sentiment_analysis(text, positive_words, negative_words):
    text = text.lower()
    words = set(text.split())
    pos = len(words & set(positive_words))
    neg = len(words & set(negative_words))
    if pos > neg:
        return 'positive'
    elif neg > pos:
        return 'negative'
    else:
        return 'neutral'

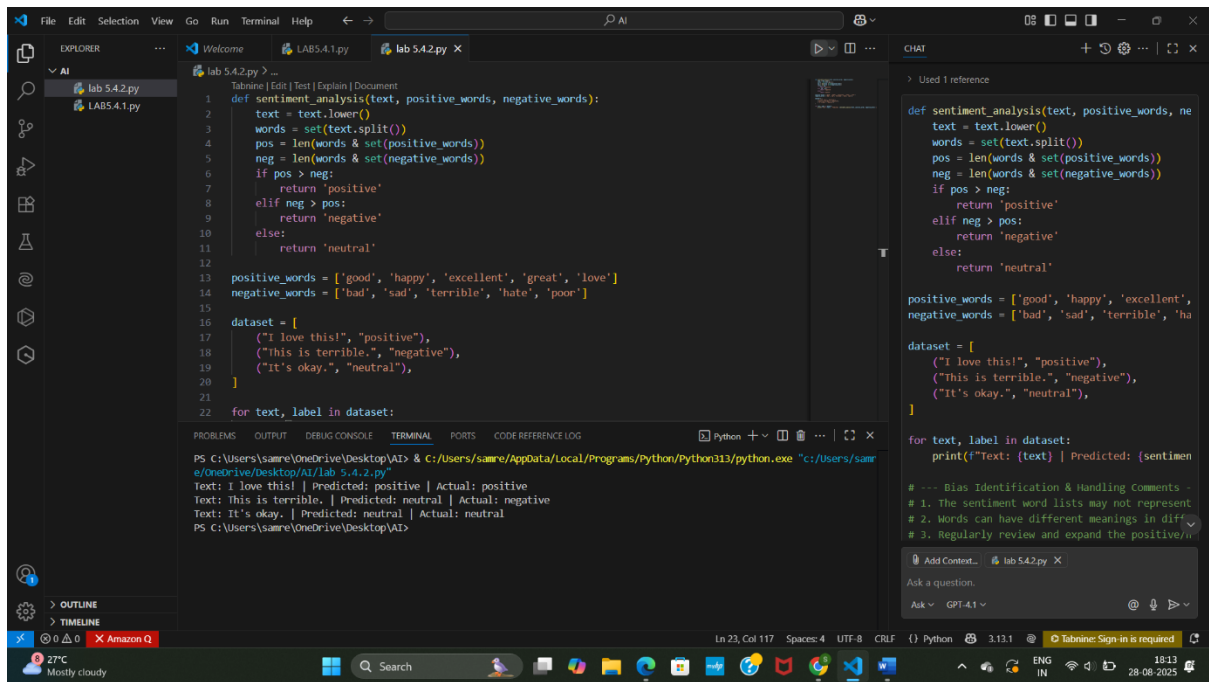
positive_words = ['good', 'happy', 'excellent', 'great', 'love']
negative_words = ['bad', 'sad', 'terrible', 'hate', 'poor']

dataset = [
    ("I love this!", "positive"),
    ("This is terrible.", "negative"),
    ("It's okay.", "neutral"),
]

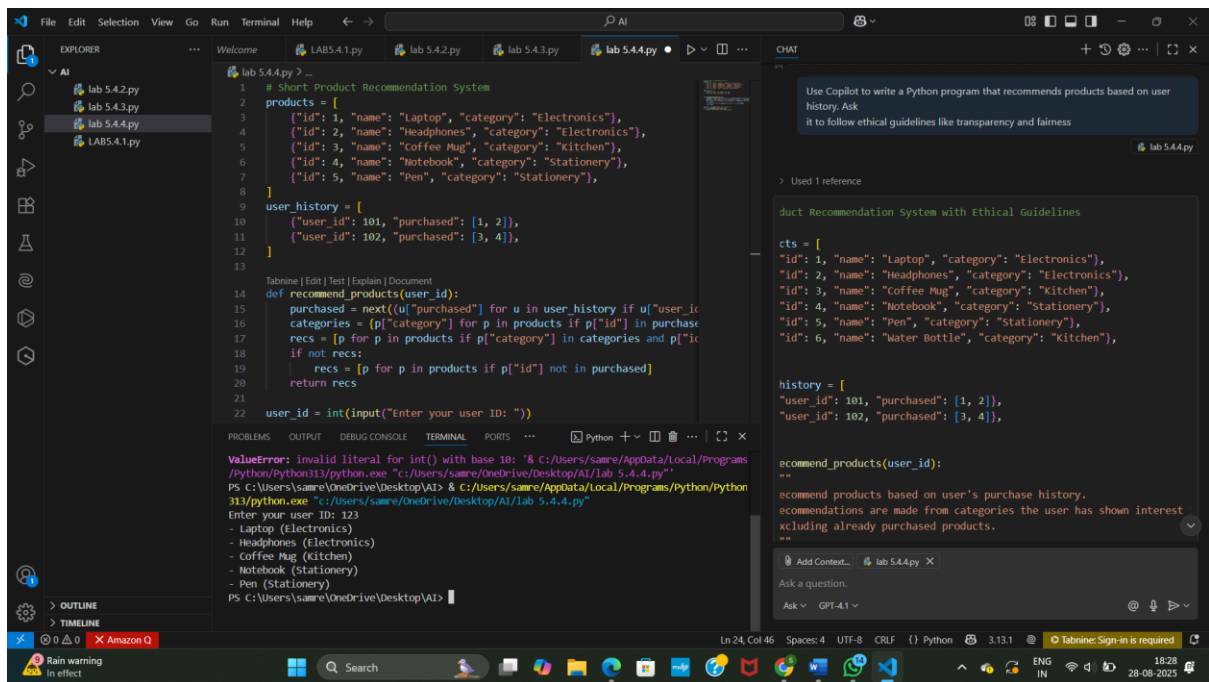
for text, label in dataset:
    print(f"Text: {text} | Predicted: {sentiment_analysis(text, positive_words, negative_words)}")
```

The interface shows the Explorer, Search, and Run and Debug panels. The Explorer panel on the left shows the file structure with 'lab 5.4.2.py' and 'lab 5.4.1.py'. The Search panel in the middle shows no results. The Run and Debug panel on the right shows the execution of the script, with the output 'Text: I love this! | Predicted: positive'.

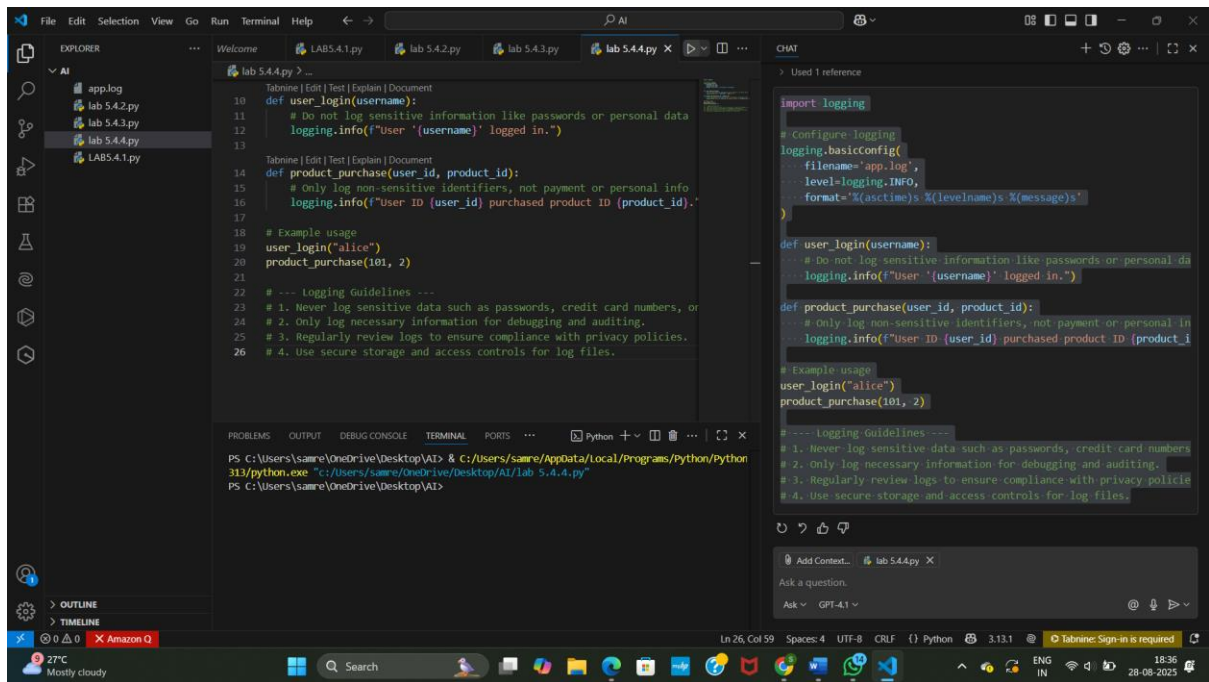
Output:



Task:3



Task:4



Task:5

