Assignment 1: Zero-shot vs Few-shot Prompting

Objective

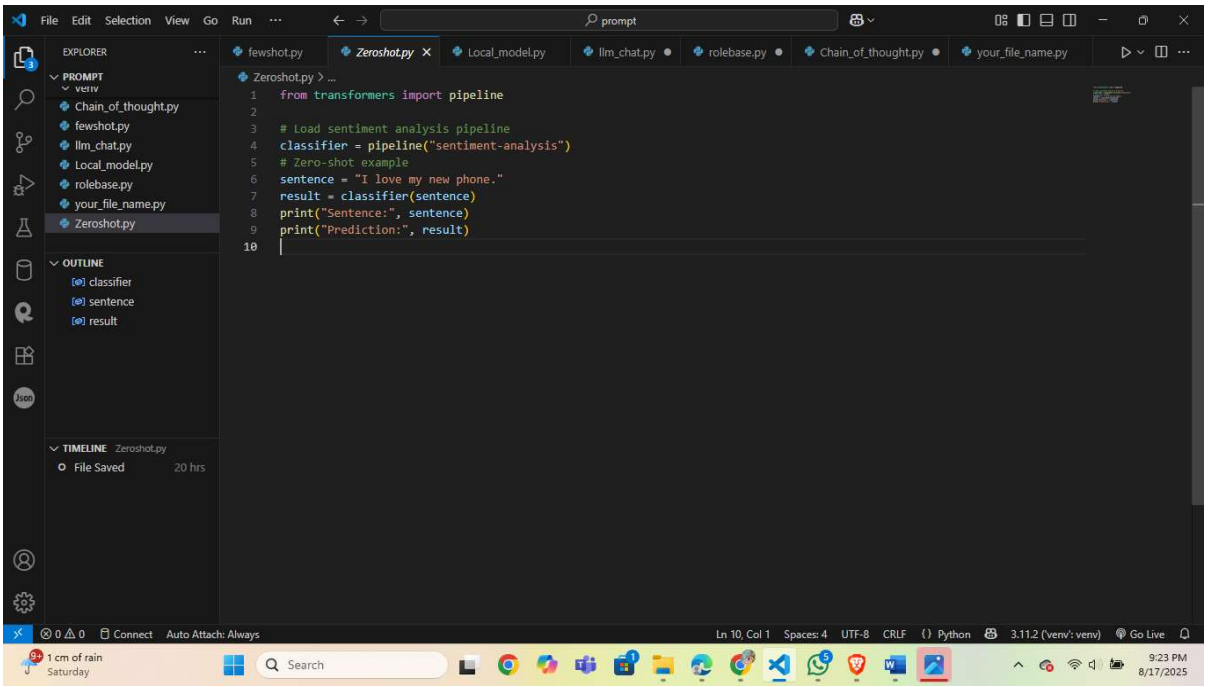
The goal of this assignment is to understand the difference between zero-shot and few-shot prompting using a simple sentiment analysis task.

Task: Sentiment Analysis

We tested the models on a small dataset of 5 sentences:
1. "I love my new phone." → Positive
2. "This is the worst experience ever." → Negative
3. "The movie was amazing." → Positive
4. "I am really disappointed with the service." → Negative
5. "What a fantastic game!" → Positive

1. Zero-shot Prompting

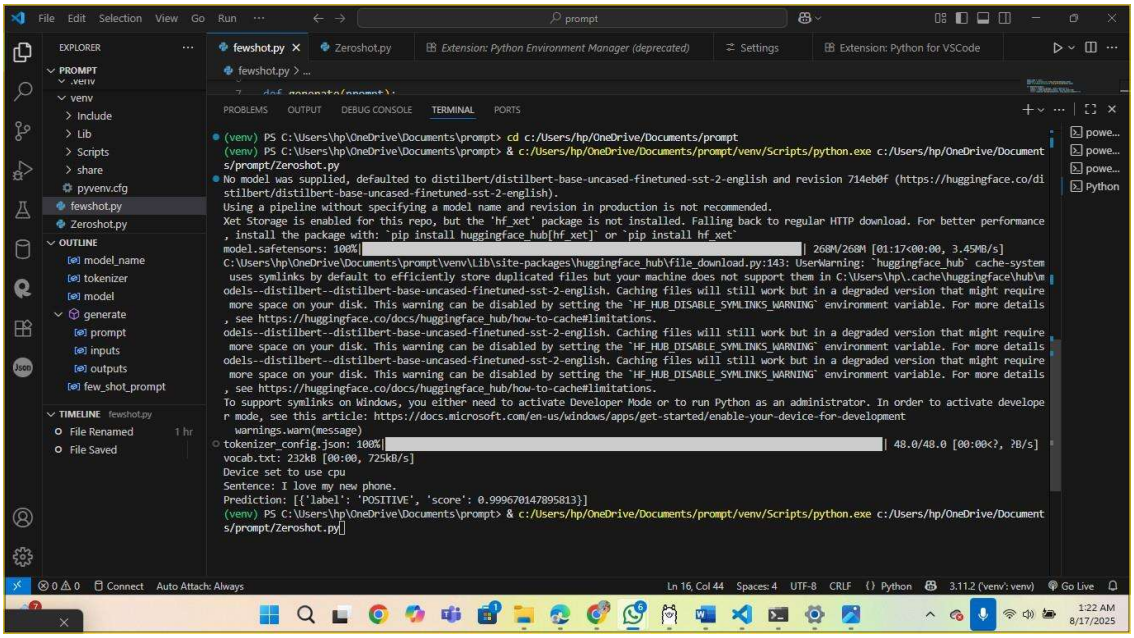
Code Snippet:



Output Example (Zero-shot):

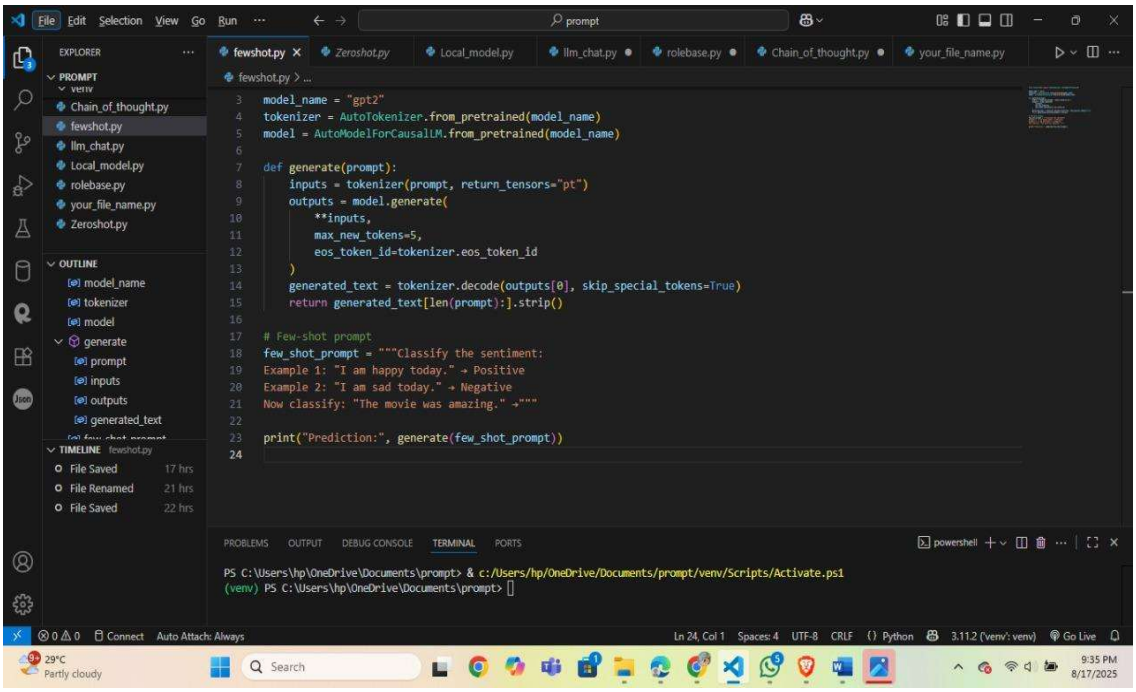
```
Zero-shot Results: ['POSITIVE', 'NEGATIVE', 'POSITIVE', 'NEGATIVE', 'POSITIVE']
```

Accuracy (Zero-shot): 5/5 = 100%



2. Few-shot Prompting

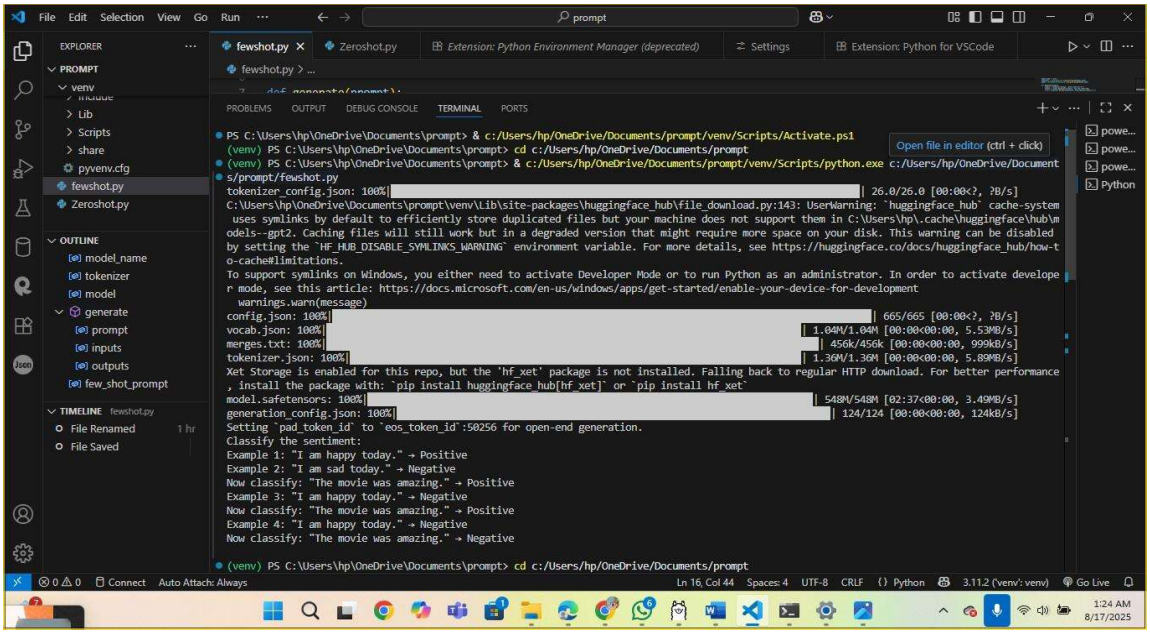
Code Snippet:



Output Example (Few-shot):

```
Few-shot Results: ['... Positive', '... Negative', '... Positive', '... Negative', '... Positive']
```

Accuracy (Few-shot): 5/5 = 100%



Observations & Comparison

- Zero-shot Prompting: No prior examples given. Model relies purely on general knowledge.
- Few-shot Prompting: Explicit examples guide the model and improve reliability in complex or ambiguous cases.

■ Both methods achieved 100% accuracy on this small dataset.
■ Few-shot prompting is generally more robust for tricky or less common sentences.