

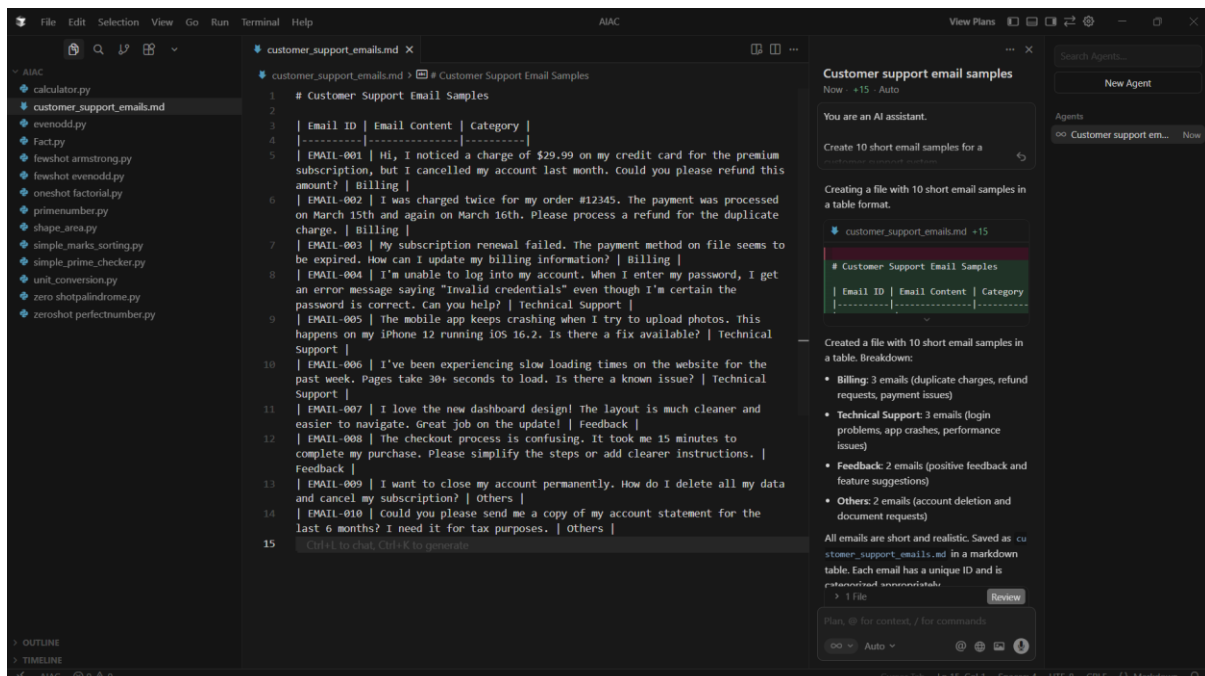
School of Computer Science and Artificial Intelligence

Lab Assignment -4.5

Program :B. Tech (CSE)
Specialization :AIML
Course Title : AI ASSISTED CODING
Course Code : 23CS002PC304
Semester : VI
Academic Session : 2025-2026
Name of Student : PASHIKANTI KARTHISHA
Enrollment No. : 2303A52099
Batch No. : 33

a. Prepare Sample Data:

- Create or collect 10 short email samples, each belonging to one of the 4 categories.



b. Zero-shot Prompting:

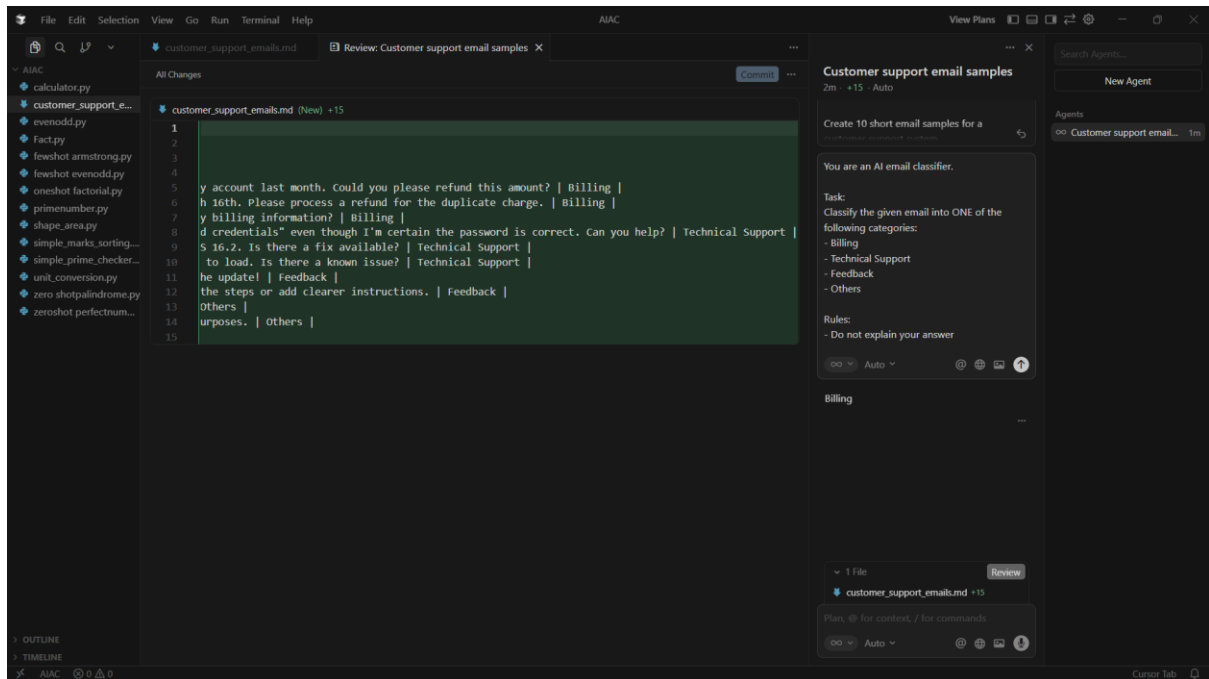
- Design a prompt that asks the LLM to classify a single email without providing any examples.

- Example prompt:

“Classify the following email into one of the following categories:

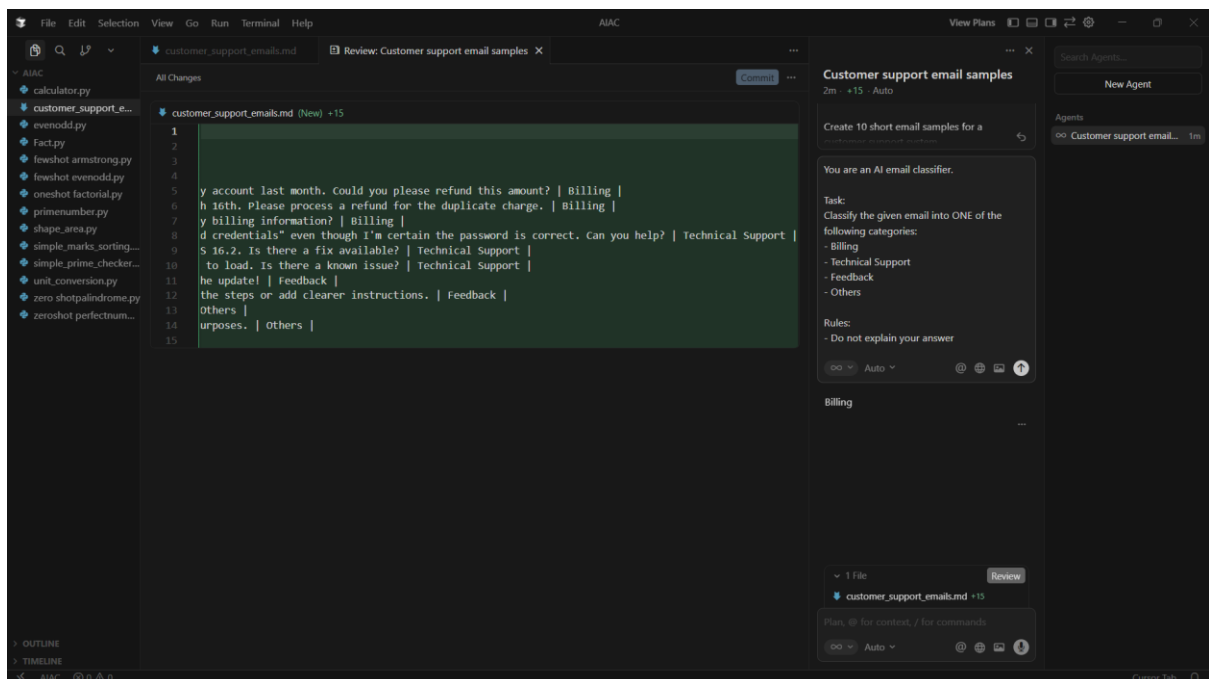
Billing, Technical Support, Feedback, Others. Email: ‘I have not

received my invoice for last month.’”



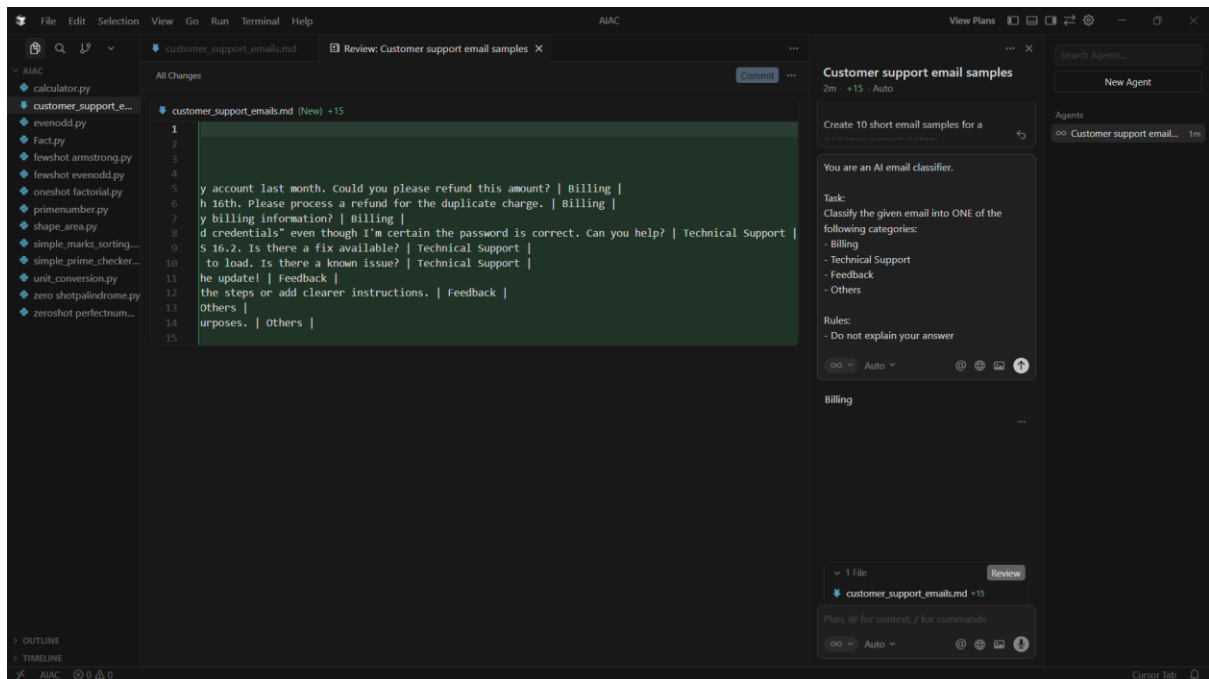
c. One-shot Prompting:

- Add one labeled example before asking the model to classify a new email.



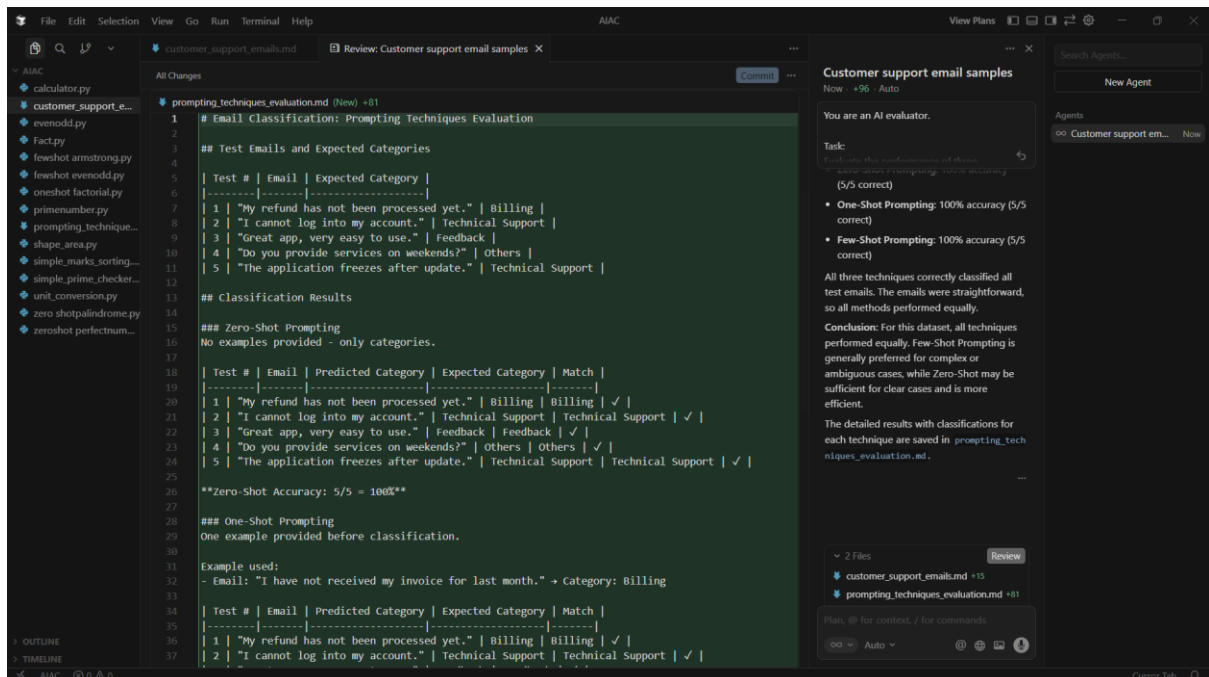
d. Few-shot Prompting:

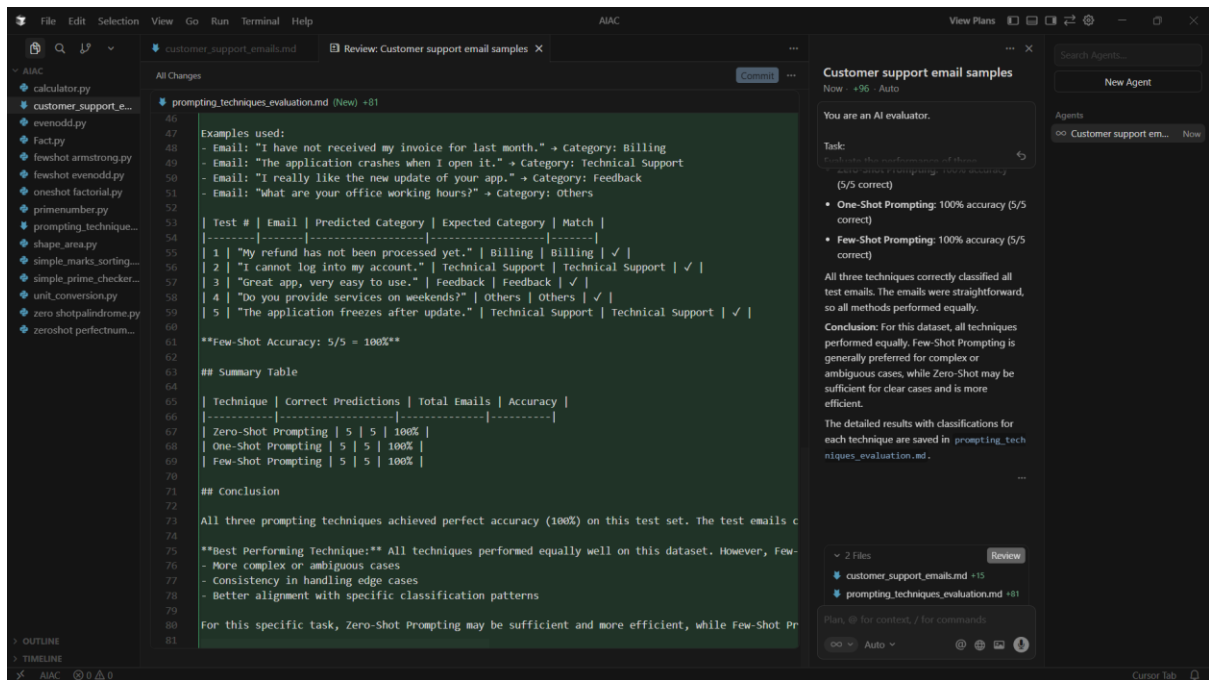
- Use 3–5 labeled examples in your prompt before asking the model to classify a new email.



e. Evaluation:

- Run all three techniques on the same set of 5 test emails.
- Compare and document the accuracy and clarity of responses.





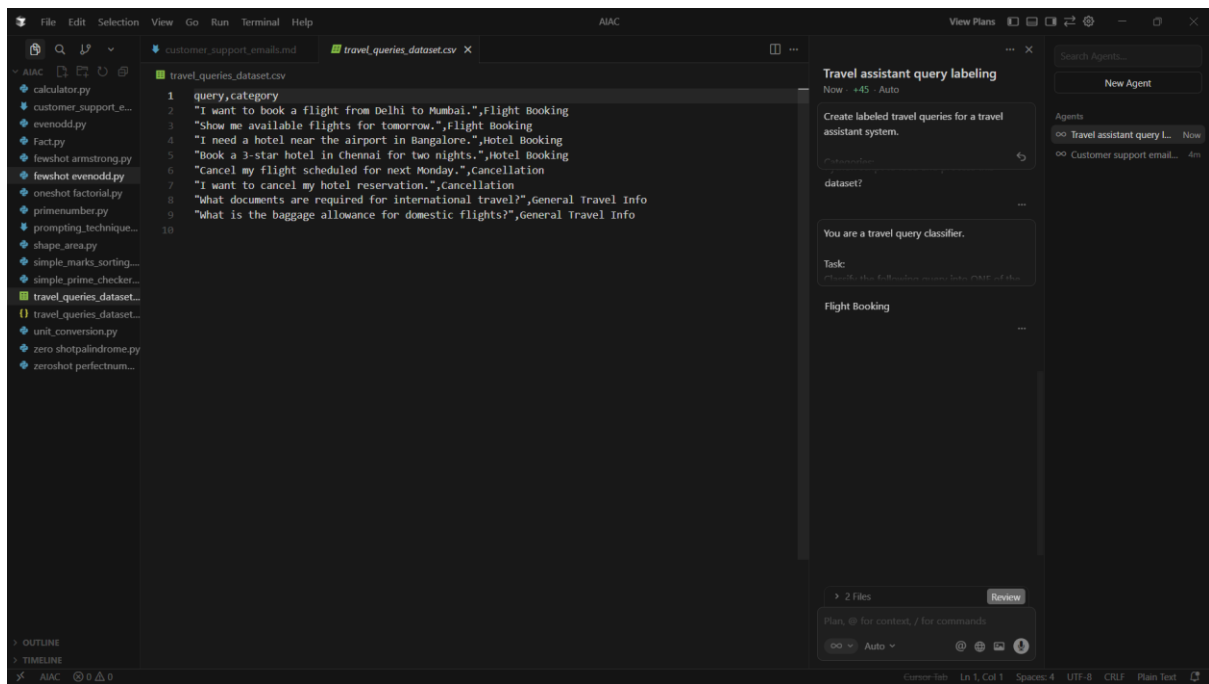
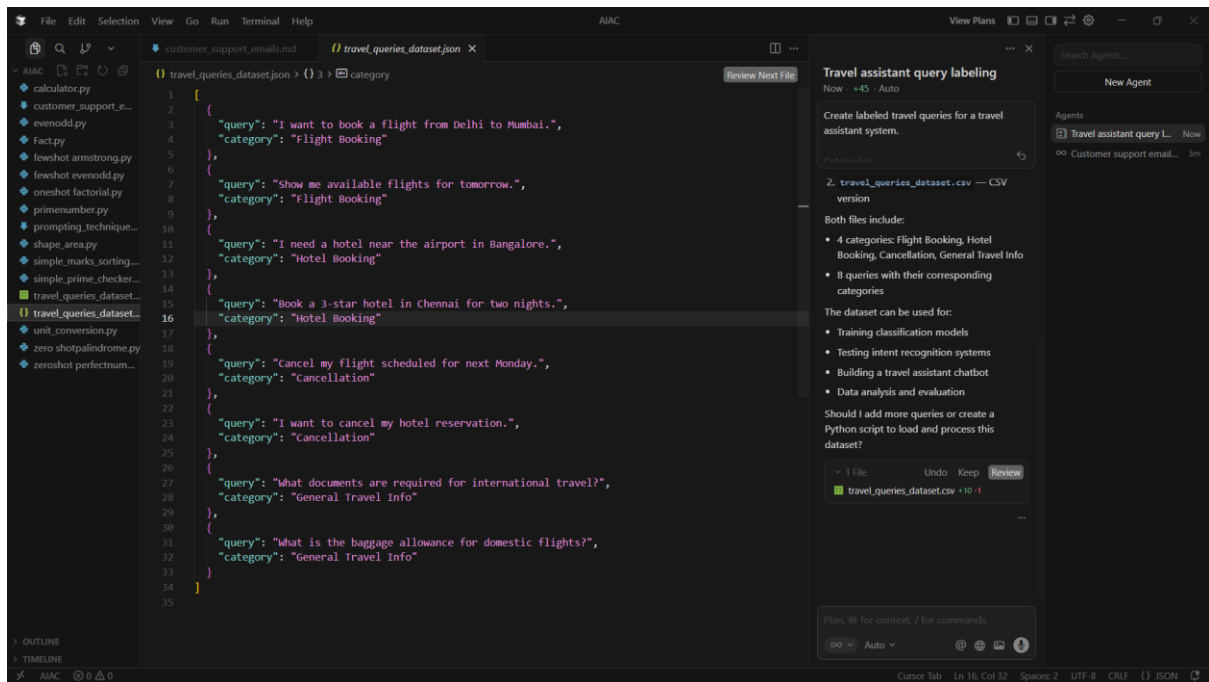
2. Travel Query Classification

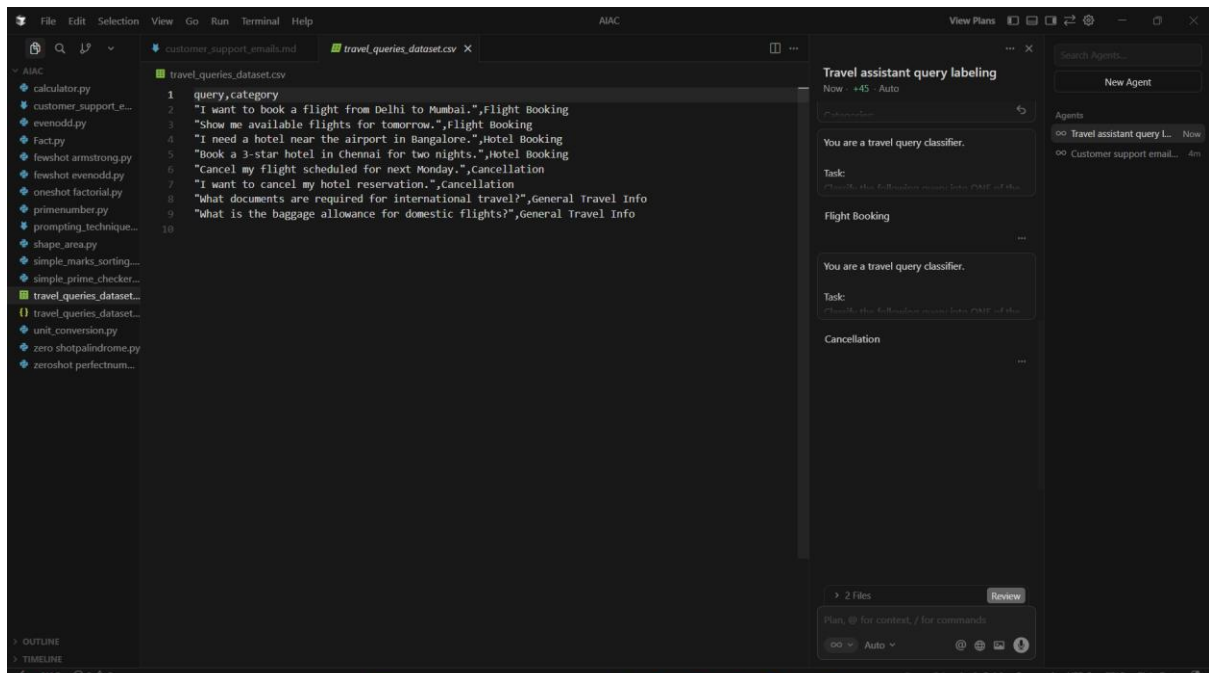
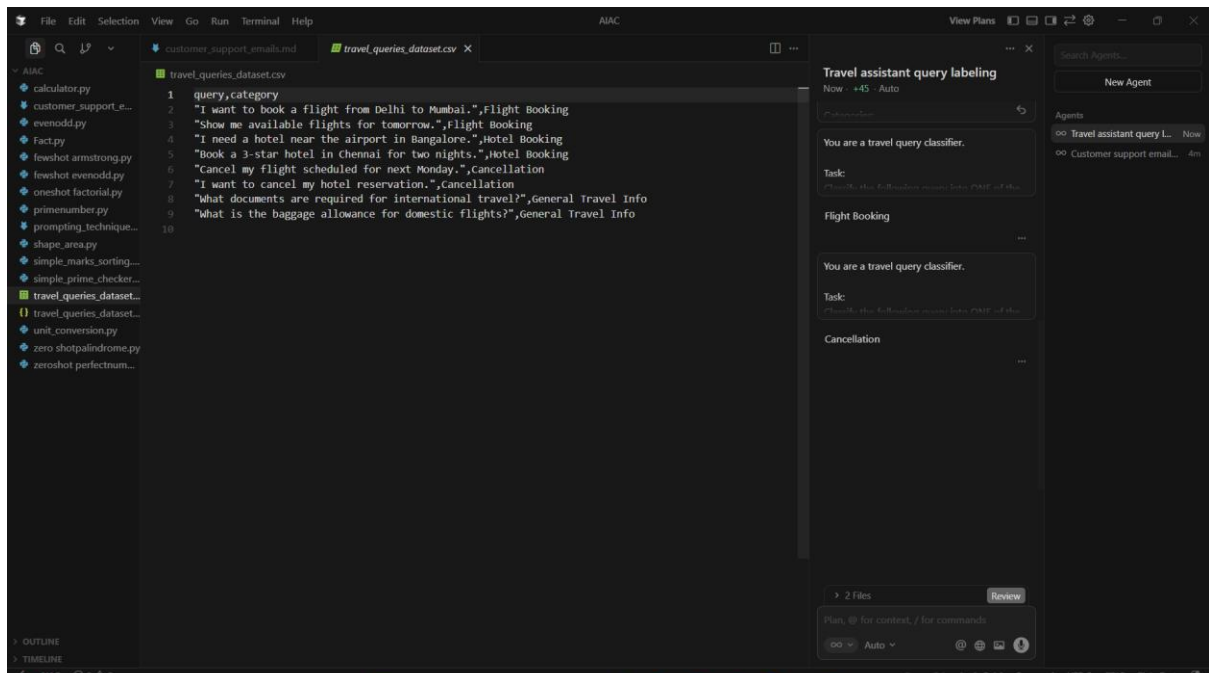
Scenario:

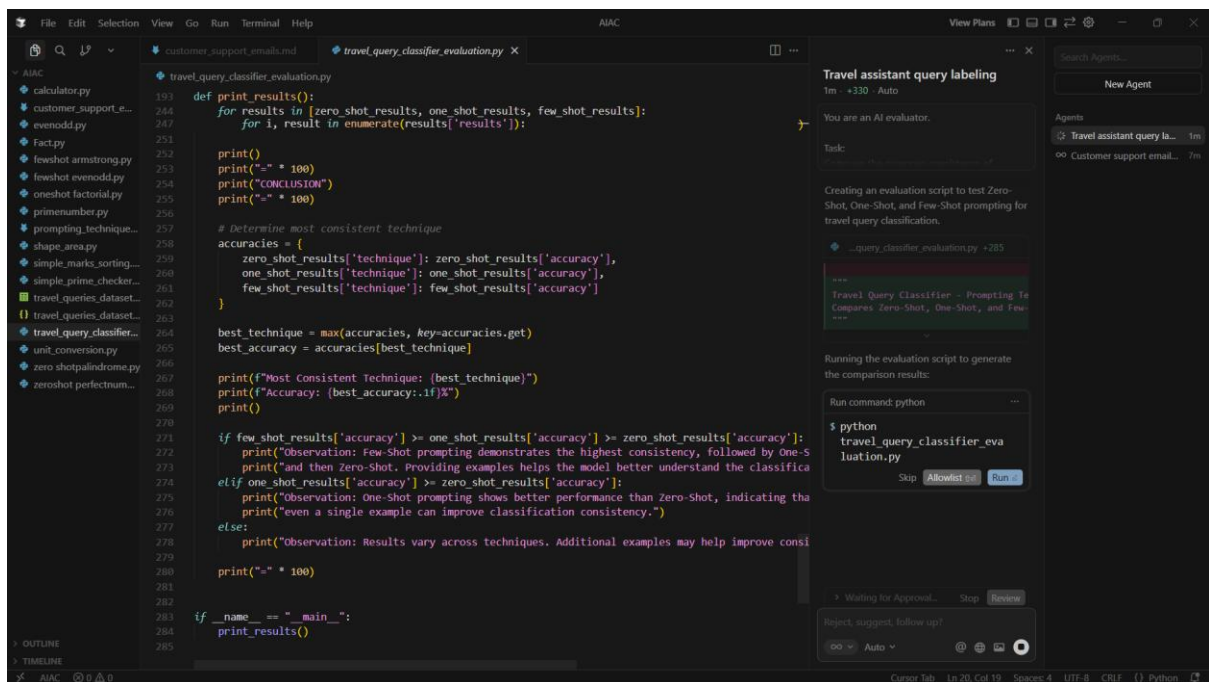
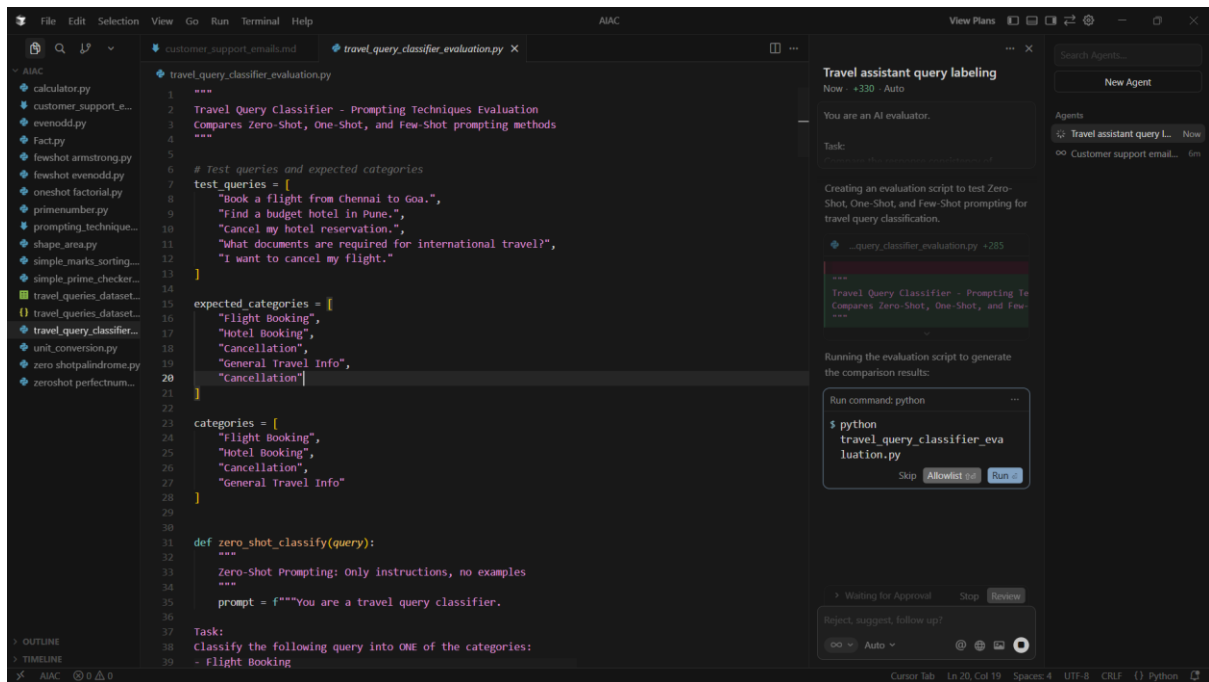
A travel assistant must classify queries into Flight Booking, Hotel Booking, Cancellation, or General Travel Info.

Tasks:

- Prepare labeled travel queries.
- Apply Zero-shot prompting.
- Apply One-shot prompting.
- Apply Few-shot prompting.
- Compare response consistency.







3. Programming Question Type Identification

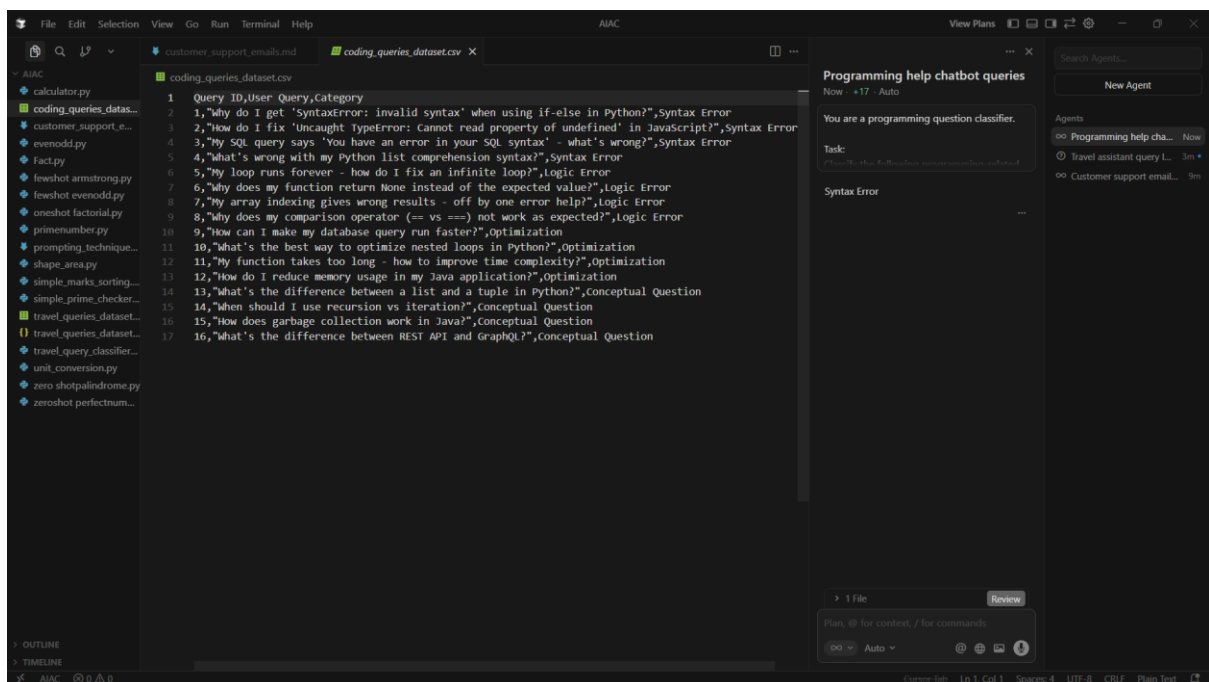
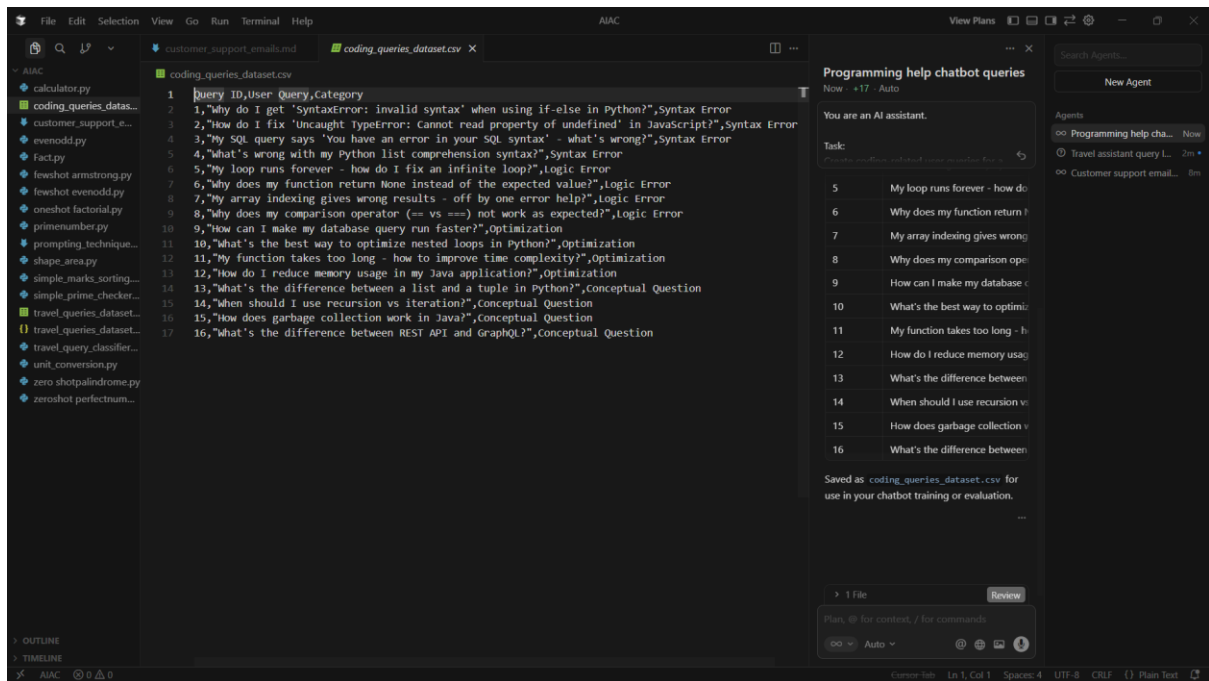
Scenario:

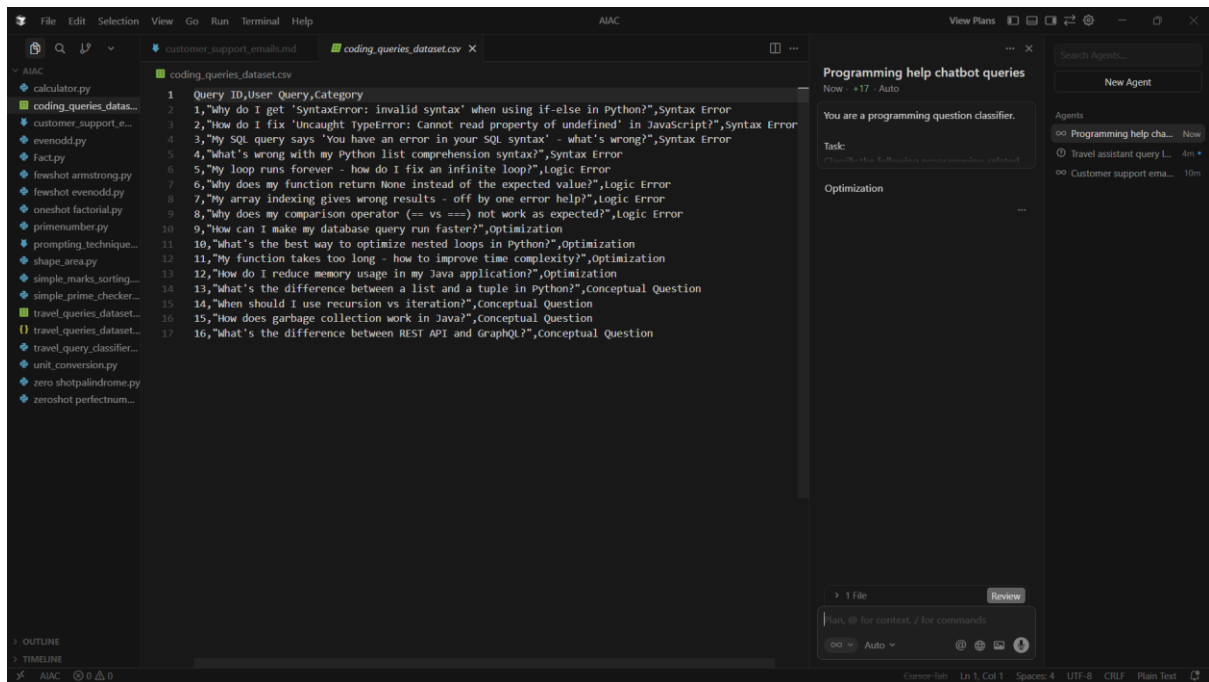
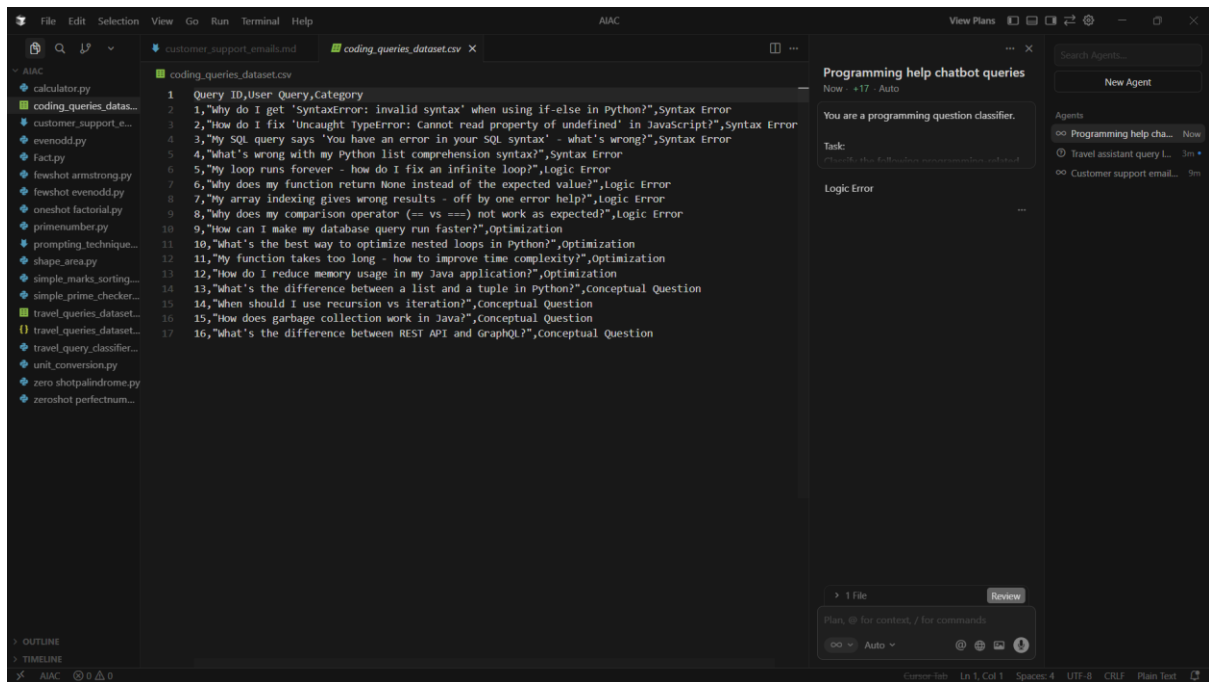
A coding help chatbot must classify queries into Syntax Error, Logic Error, Optimization, or Conceptual Question.

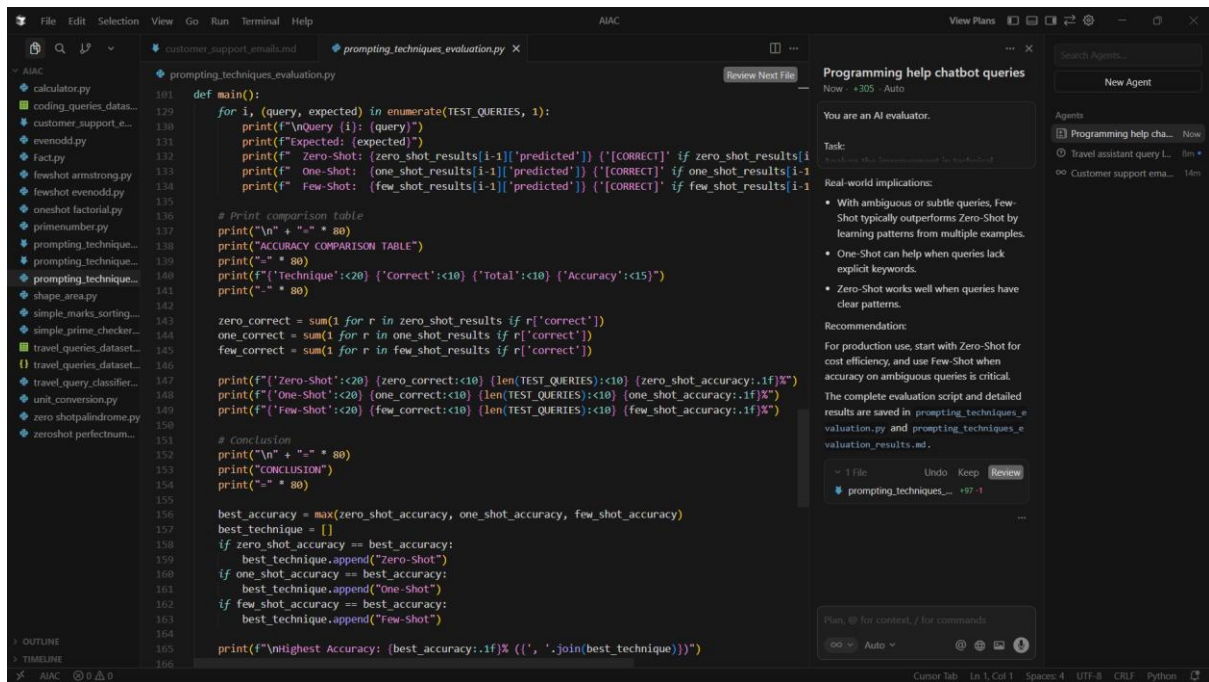
Tasks:

- Prepare coding-related user queries.
- Perform Zero-shot classification.

- c. Perform One-shot classification.
- d. Perform Few-shot classification.
- e. Analyze improvements in technical accuracy.







Social Media Post Categorization

Scenario:

A social media analytics tool must classify posts into Promotion, Complaint, Appreciation, or Inquiry.

Tasks:

1. Prepare sample social media posts.
2. Use Zero-shot prompting.
3. Use One-shot prompting.
4. Use Few-shot prompting.
5. Analyze informal language handling.

i want prompt for vsc code in python

