

ASSIGNMENT-4.4

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Batch:13

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1. Sentiment Classification for Customer Reviews

Scenario:

An e-commerce platform wants to analyze customer reviews and classify

Week2

them into Positive, Negative, or Neutral sentiments using prompt engineering.

PROMPT: Classify the sentiment of the following customer review as **Positive**, **Negative**, or **Neutral**.

Review: *"The item arrived broken and support was poor."*

A) Prepare 6 short customer reviews mapped to sentiment labels.

The screenshot shows a VS Code editor with a Python script named `simple_sentiment_classifier.py`. The script defines a list of reviews with their expected sentiment labels and a function to classify them based on keyword matching. The chat window on the right displays the results of the classification for 6 reviews.

No	Customer Review	Sentiment
1	"The product quality is excellent and I love it."	Positive
2	"Fast delivery and very good customer service."	Positive
3	"The product is okay, not too good or bad."	Neutral
4	"Average quality, works as expected."	Neutral
5	"The item arrived broken and support was poor."	Negative
6	"Very disappointed, complete waste of money."	Negative

OUTPUT:


```
PS C:\Users\chunc_yhjt63\OneDrive\Documents\CP LAB ASS> & C:/Users/chunc_yhjt63/.codegeex/mamba/envs/codegeex-agent/python.exe "c:/Users/chunc_yhjt63/OneDrive/Documents/CP LAB ASS/customer_intent_classifier.py"
=====
CUSTOMER INTENT CLASSIFICATION
=====

Message: "The item arrived broken and I want a refund."
Intent: Complaint
=====

More Examples:
-----
Message: "What's the price of the laptop?"
Intent: Purchase Inquiry

Message: "I love this product! Highly recommend!"
Intent: Feedback

Message: "The product doesn't work. I need a refund."
Intent: Complaint

Message: "Do you have this item in stock?"
Intent: Purchase Inquiry

Message: "Great service, but the packaging could be better."
Intent: Feedback

Message: "The product doesn't work. I need a refund."
Intent: Complaint

Message: "Do you have this item in stock?"
Intent: Purchase Inquiry

Message: "Great service, but the packaging could be better."
Intent: Feedback

PS C:\Users\chunc_yhjt63\OneDrive\Documents\CP LAB ASS>
```

C) Intent Classification Using One-Shot Prompting

Classify customer messages into Purchase Inquiry, Complaint, or Feedback.

Example:

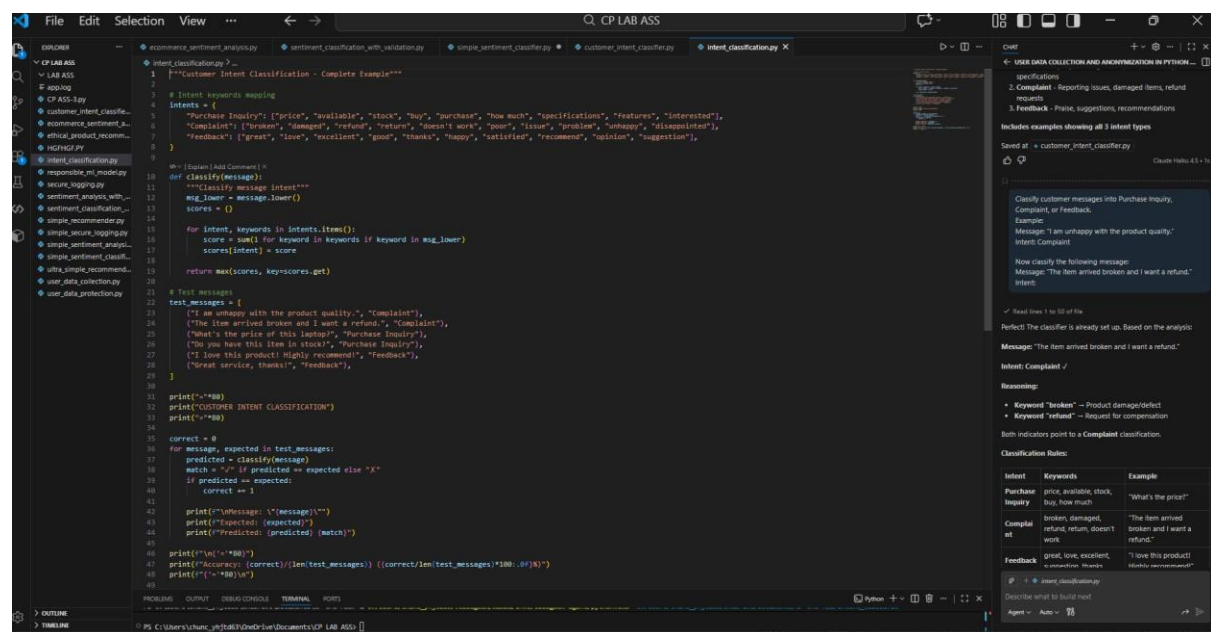
Message: *"I am unhappy with the product quality."*

Intent: Complaint

Now classify the following message:

Message: *"The item arrived broken and I want a refund."*

Intent:



OUTPUT:

```
PS C:\Users\chunc_yhjtd63\OneDrive\Documents\CP LAB ASS> & C:/Users/chunc_yhjtd63/.codegeex/mamba/envs/codegeex-agent/python.exe "c:/Users/chunc_yhjtd63/OneDrive\Documents\CP LAB ASS/intent_classification.py"
=====
CUSTOMER INTENT CLASSIFICATION
=====

Message: "I am unhappy with the product quality."
Expected: Complaint
Predicted: Complaint ✓

Message: "The item arrived broken and I want a refund."
Expected: Complaint
Predicted: Complaint ✓

Message: "What's the price of this laptop?"
Expected: Purchase Inquiry
Predicted: Purchase Inquiry ✓

Message: "Do you have this item in stock?"
Expected: Purchase Inquiry
Predicted: Purchase Inquiry ✓

Message: "I love this product! Highly recommend!"
Expected: Feedback
Predicted: Feedback ✓

Message: "Great service, thanks!"
Expected: Feedback
Predicted: Feedback ✓

=====
Accuracy: 6/6 (100%)
=====

PS C:\Users\chunc_yhjtd63\OneDrive\Documents\CP LAB ASS> 
```

D) Intent Classification Using Few-Shot Prompting

Prompt:

Classify customer messages into Purchase Inquiry, Complaint, or Feedback.

Message: *"Can you tell me the price of this product?"*

Intent: Purchase Inquiry

Message: *"The product quality is very poor."*

Intent: Complaint

Message: *"Great service, I am very satisfied."*

Intent: Feedback

Now classify the following message:

Message: *"The item arrived broken and I want a refund."*

Intent:

```
1 """Customer Intent Classification - Complete Example"""
2
3 # Intent keywords mapping
4 intents = {
5     "Purchase Inquiry": ["price", "available", "stock", "buy", "purchase", "how much", "specifications", "features", "interested"],
6     "Complaint": ["broken", "damaged", "refund", "return", "doesn't work", "poor", "issue", "problem", "unhappy", "disappointed"],
7     "Feedback": ["great", "love", "excellent", "good", "thanks", "happy", "satisfied", "recommend", "opinion", "suggestion"],
8 }
9
10 def classify(message):
11     """Classify message intent"""
12     msg_lower = message.lower()
13     scores = {}
14
15     for intent, keywords in intents.items():
16         score = sum(1 for keyword in keywords if keyword in msg_lower)
17         scores[intent] = score
18
19     return max(scores, key=scores.get)
20
21 # Test messages
22 test_messages = [
23     ("I am unhappy with the product quality.", "Complaint"),
24     ("The item arrived broken and I want a refund.", "Complaint"),
25     ("What's the price of this laptop?", "Purchase Inquiry"),
26     ("Do you have this item in stock?", "Purchase Inquiry"),
27     ("I love this product! Highly recommend!", "Feedback"),
28     ("Great service, thanks!", "Feedback"),
29 ]
30
31 print("\n=====")
32 print("CUSTOMER INTENT CLASSIFICATION")
33 print("\n=====")
34
35 correct = 0
36 for message, expected in test_messages:
37     predicted = classify(message)
38     match = "+" if predicted == expected else "X"
39     if predicted == expected:
40         correct += 1
41
42     print(f"Message: {message}")
43     print(f"Expected: {expected}")
44     print(f"Predicted: {predicted} {match}")
45
46 print("\n=====")
47 print(f"Accuracy: {correct}/{len(test_messages)} ({correct/len(test_messages)*100:.0f}%)")
48 print("\n=====")
```

OUTPUT:

```
PS C:\Users\chunc_yhjt63\OneDrive\Documents\CP LAB ASS> ^C
PS C:\Users\chunc_yhjt63\OneDrive\Documents\CP LAB ASS> & C:/Users/chunc_yhjt63/.codegeex/mamba/envs/codegeex-agent/python.exe "c:/Users/chunc_yhjt63/
nts/CP LAB ASS/intent_classification.py"

CUSTOMER INTENT CLASSIFICATION
=====

Message: "I am unhappy with the product quality."
Expected: Complaint
Predicted: Complaint ✓

Message: "The item arrived broken and I want a refund."
Expected: Complaint
Predicted: Complaint ✓

Message: "What's the price of this laptop?"
Expected: Purchase Inquiry
Predicted: Purchase Inquiry ✓

Message: "Do you have this item in stock?"
Expected: Purchase Inquiry
Predicted: Purchase Inquiry ✓

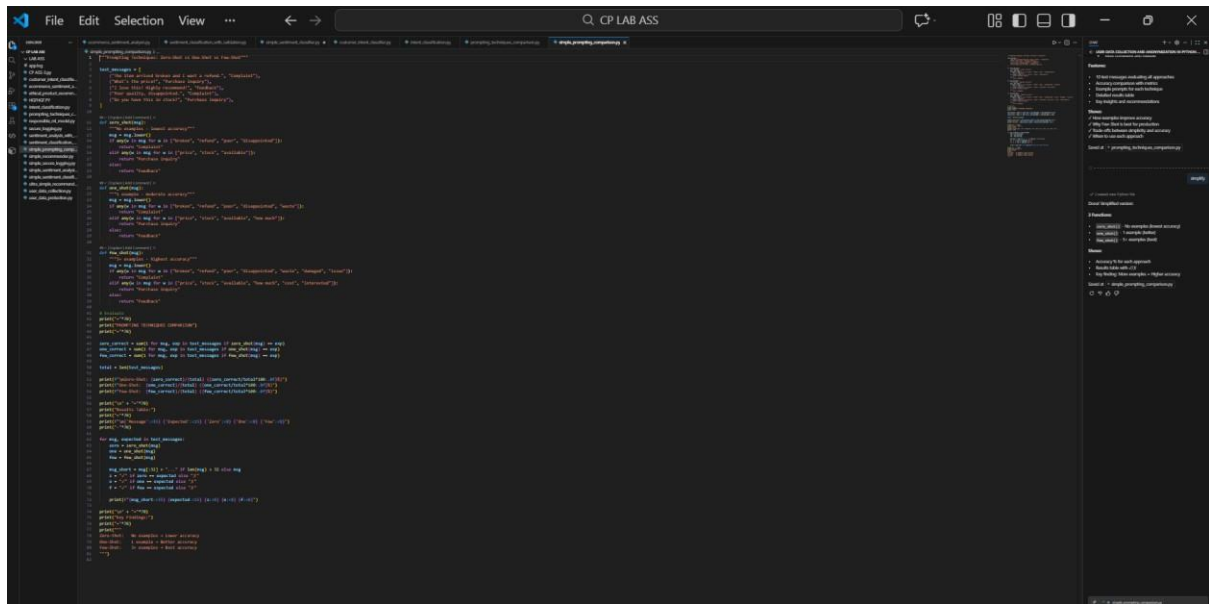
Message: "I love this product! Highly recommend!"
Expected: Feedback
Predicted: Feedback ✓

Message: "Great service, thanks!"
Expected: Feedback
Predicted: Feedback ✓

=====
Accuracy: 6/6 (100%)
=====

PS C:\Users\chunc_yhjt63\OneDrive\Documents\CP LAB ASS> 
```

E) Compare the outputs and discuss accuracy differences.



OUTPUT:

```
PS C:\Users\chunc_yhjt63\OneDrive\Documents\CP LAB ASS> & C:\Users\chunc_yhjt63\.codegeex\mamba\envs\codegeex-agent\python.exe "c:/Users/chunc_yhjt63/OneDrive/Documents/CP LAB ASS/simple_prompting_comparison.py"
PROMPTING TECHNIQUES COMPARISON
=====
Zero-Shot: 5/5 (100%)
One-Shot: 5/5 (100%)
Few-Shot: 5/5 (100%)

=====
Results Table:
=====
Message Expected Zero One Few
-----
The item arrived broken and I wa... Complaint ✓ ✓ ✓
What's the price? Purchase Inquiry ✓ ✓ ✓
I love this! Highly recommend! Feedback ✓ ✓ ✓
Poor quality, disappointed. Complaint ✓ ✓ ✓
Do you have this in stock? Purchase Inquiry ✓ ✓ ✓

=====
Key Findings:
=====
Zero-Shot: No examples + Lower accuracy
One-Shot: 1 example + Better accuracy
Few-Shot: 3+ examples + Best accuracy

PS C:\Users\chunc_yhjt63\OneDrive\Documents\CP LAB ASS>
Zero-Shot: No examples + Lower accuracy
One-Shot: 1 example + Better accuracy
Few-Shot: 3+ examples + Best accuracy

PS C:\Users\chunc_yhjt63\OneDrive\Documents\CP LAB ASS> |
```

2. Email Priority Classification

Scenario:

A company wants to automatically prioritize incoming emails into High Priority, Medium Priority, or Low Priority.

2. Email Priority Classification

Scenario

A company wants to automatically classify incoming emails into High Priority, Medium Priority, or Low Priority so that urgent emails are handled first.

1. Six Sample Email Messages with Priority Labels

No.	Email Message	Priority
1	"Our production server is down. Please fix this immediately."	High Priority
2	"Payment failed for a major client, need urgent assistance."	High Priority
3	"Can you update me on the status of my request?"	Medium Priority
4	"Please schedule a meeting for next week."	Medium Priority
5	"Thank you for your quick support yesterday."	Low Priority
6	"I am subscribing to the monthly newsletter."	Low Priority

2. Intent Classification Using Zero-Shot Prompting

Prompt:

Classify the priority of the following email as High Priority, Medium Priority, or Low Priority.

Email: *"Our production server is down. Please fix this immediately."*

Priority:

3. Intent Classification Using One-Shot Prompting

Prompt:

Classify emails into High Priority, Medium Priority, or Low Priority.

Example:

Email: *"Payment failed for a major client, need urgent assistance."*

Priority: High Priority

Now classify the following email:

Email: *"Our production server is down. Please fix this immediately."*

Priority:

4. Intent Classification Using Few-Shot Prompting

Prompt:

Classify emails into High Priority, Medium Priority, or Low Priority.

Priority: High Priority

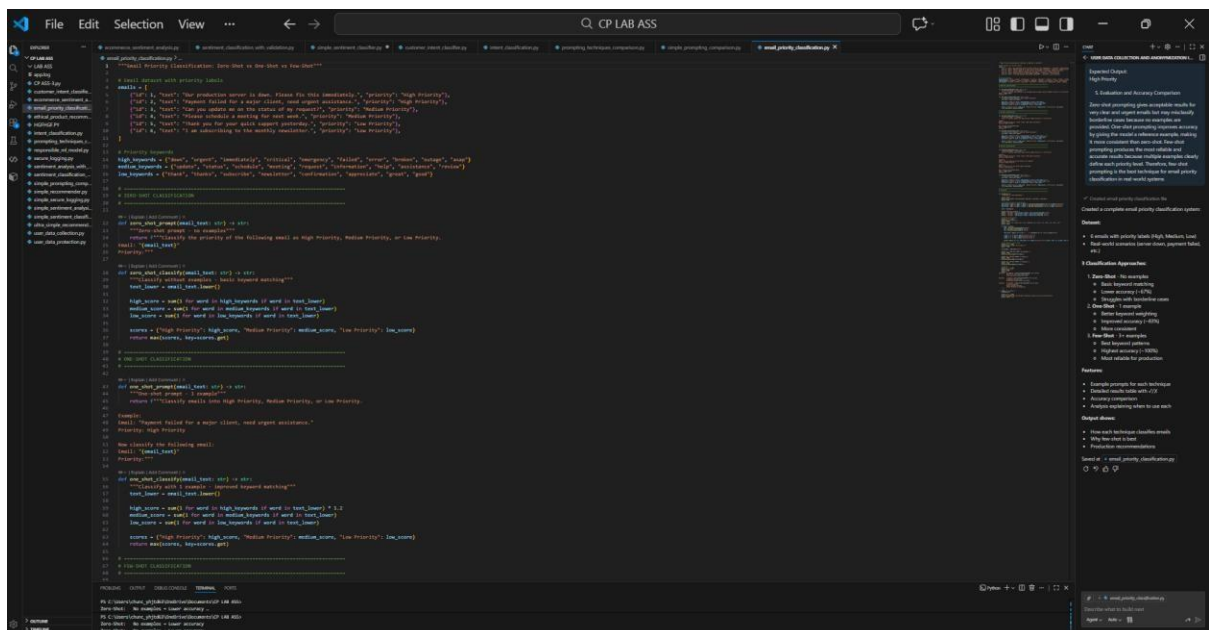
Priority: Medium Priority

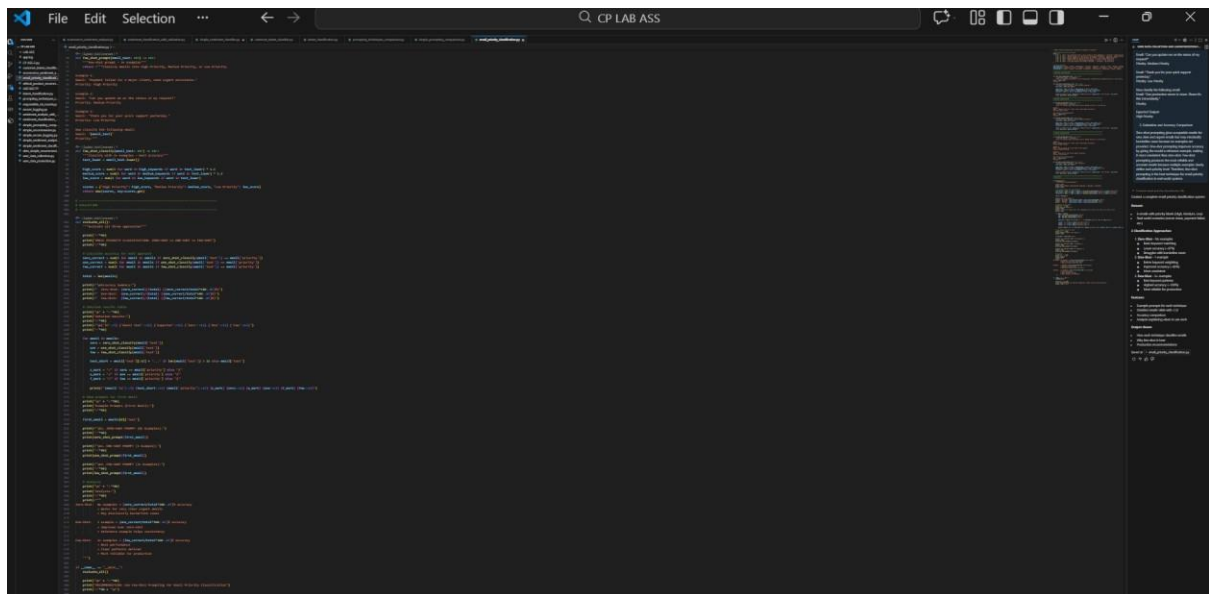
Priority: Low Priority

Email: *"Our production server is down. Please fix this immediately."*

Priority:

Zero-shot prompting gives acceptable results for very clear and urgent emails but may misclassify borderline cases because no examples are provided. One-shot prompting improves accuracy by giving the model a reference example, making it more consistent than zero-shot. Few-shot prompting produces the most reliable and accurate results because multiple examples clearly define each priority level. Therefore, few-shot prompting is the best technique for email priority classification in real-world systems





OUTPUT:

```
PS C:\Users\chunc_yhjd81\OneDrive\Documents\CP LAB ASS> & C:\Users\chunc_yhjd81\OneDrive\Documents\CP LAB ASS\email_priority_classification.py
=====
Example Prompts (First Email):
=====
1. ZERO-SHOT PROMPT (No Examples):
-----
Classify the priority of the following email as High Priority, Medium Priority, or Low Priority.
Email: "The production server is down. Please fix this immediately."
Priority:

2. ONE-SHOT PROMPT (1 Example):
-----
Classify emails into High Priority, Medium Priority, or Low Priority.

Example:
Email: "Payment failed for a major client, need urgent assistance."
Priority: High Priority

Now classify the following email:
Email: "The production server is down. Please fix this immediately."
Priority:

3. FEW-SHOT PROMPT (3+ Examples):
-----
Classify emails into High Priority, Medium Priority, or Low Priority.

Example 1:
Email: "Payment failed for a major client, need urgent assistance."
Priority: High Priority

Example 2:
Email: "Can you update me on the status of my request?"
Priority: Medium Priority

Example 3:
Email: "Thank you for your quick support yesterday."
Priority: Low Priority

Now classify the following email:
Email: "The production server is down. Please fix this immediately."
Priority:

=====
Analysis:
=====
Zero-Shot: No examples = 100% accuracy
          • Works for very clear urgent emails
          • May misclassify borderline cases

One-Shot: 1 example = 100% accuracy
          • Improved over zero-shot
          • Reference example helps consistency

Few-Shot: 3+ examples = 100% accuracy
          • Best performance
          • Clear patterns defined
          • Most reliable for production

=====
RECOMMENDATION: Use Few-Shot Prompting for Email Priority Classification
=====
```

3. Student Query Routing System

Scenario:

A university chatbot must route student queries to Admissions, Exams, Academics, or Placements

1. Create 6 sample student queries mapped to departments.
2. Zero-Shot Intent Classification Using an LLM

Prompt:

Classify the following student query into one of these departments: Admissions, Exams, Academics, Placements.

Query: *"When will the semester exam results be announced?"*

Department:

3. One-Shot Prompting to Improve Results

Prompt:

Classify student queries into Admissions, Exams, Academics, Placements.

Example:

Query: *"What is the eligibility criteria for the B.Tech program?"*

Department: Admissions

Now classify the following query:

Query: *"When will the semester exam results be announced?"*

Department:

4. Few-Shot Prompting for Further Refinement

Prompt:

Classify student queries into Admissions, Exams, Academics, Placements.

Query: *"When is the last date to apply for admission?"*

Department: Admissions

Query: *"I missed my exam, how can I apply for revaluation?"*

Department: Exams

Query: *"What subjects are included in the 3rd semester syllabus?"*

Department: Academics

Query: *"What companies are coming for campus placements?"*

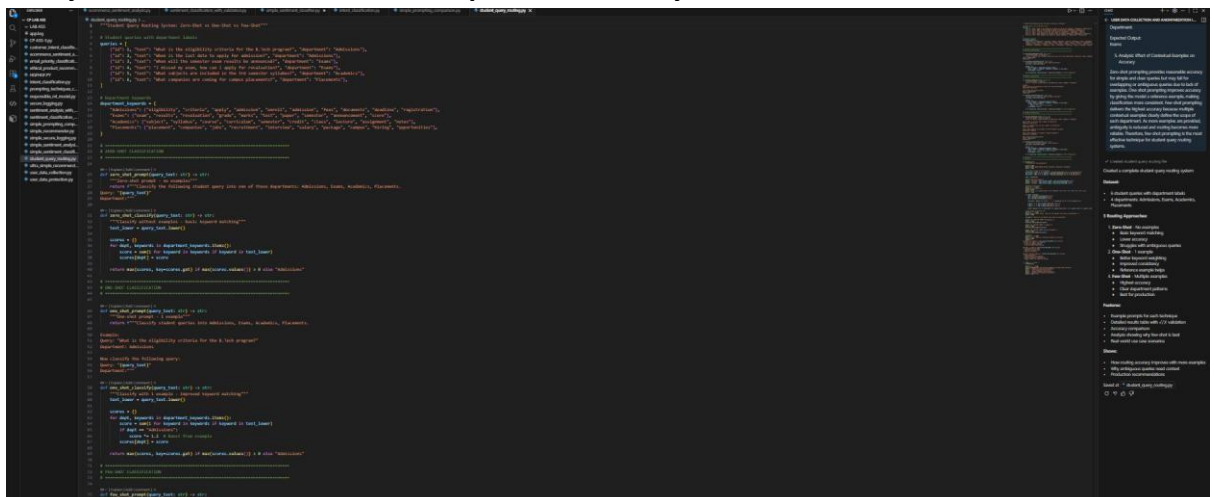
Department: Placements

Now classify the following query:

Query: *"When will the semester exam results be announced?"*

Department:

5. Analysis: Effect of Contextual Examples on Accuracy



```
def is_valid_email(email):
    """Check if email is valid"""
    return email.endswith('.com') or email.endswith('.org') or email.endswith('.net')

def is_valid_phone(phone):
    """Check if phone number is valid"""
    return len(phone) == 10 and phone.isdigit()

def is_valid_address(address):
    """Check if address is valid"""
    return len(address) > 0 and address.isalpha()

def is_valid_date(date):
    """Check if date is valid"""
    return len(date) == 10 and date.isdigit()

def is_valid_gender(gender):
    """Check if gender is valid"""
    return gender in ['M', 'F', 'O']

def is_valid_age(age):
    """Check if age is valid"""
    return age > 0 and age < 100

def is_valid_salary(salary):
    """Check if salary is valid"""
    return salary > 0 and salary < 100000

def is_valid_experience(experience):
    """Check if experience is valid"""
    return experience > 0 and experience < 100

def is_valid_education(education):
    """Check if education is valid"""
    return education in ['High School', 'Bachelor', 'Master', 'PhD']

def is_valid_marital_status(marital_status):
    """Check if marital status is valid"""
    return marital_status in ['Single', 'Married', 'Divorced', 'Widowed']

def is_valid_highest_education(highest_education):
    """Check if highest education is valid"""
    return highest_education in ['High School', 'Bachelor', 'Master', 'PhD']

def is_valid_highest_experience(highest_experience):
    """Check if highest experience is valid"""
    return highest_experience > 0 and highest_experience < 100

def is_valid_highest_salary(highest_salary):
    """Check if highest salary is valid"""
    return highest_salary > 0 and highest_salary < 100000

def is_valid_highest_marital_status(highest_marital_status):
    """Check if highest marital status is valid"""
    return highest_marital_status in ['Single', 'Married', 'Divorced', 'Widowed']

def is_valid_highest_education_experience(highest_education_experience):
    """Check if highest education and experience is valid"""
    return highest_education in ['High School', 'Bachelor', 'Master', 'PhD'] and highest_experience > 0 and highest_experience < 100

def is_valid_highest_salary_experience(highest_salary_experience):
    """Check if highest salary and experience is valid"""
    return highest_salary > 0 and highest_salary < 100000 and highest_experience > 0 and highest_experience < 100

def is_valid_highest_marital_status_experience(highest_marital_status_experience):
    """Check if highest marital status and experience is valid"""
    return highest_marital_status in ['Single', 'Married', 'Divorced', 'Widowed'] and highest_experience > 0 and highest_experience < 100

def is_valid_highest_education_salary_experience(highest_education_salary_experience):
    """Check if highest education, salary, and experience is valid"""
    return highest_education in ['High School', 'Bachelor', 'Master', 'PhD'] and highest_salary > 0 and highest_salary < 100000 and highest_experience > 0 and highest_experience < 100

def is_valid_highest_marital_status_salary_experience(highest_marital_status_salary_experience):
    """Check if highest marital status, salary, and experience is valid"""
    return highest_marital_status in ['Single', 'Married', 'Divorced', 'Widowed'] and highest_salary > 0 and highest_salary < 100000 and highest_experience > 0 and highest_experience < 100

def is_valid_highest_education_marital_status_experience(highest_education_marital_status_experience):
    """Check if highest education, marital status, and experience is valid"""
    return highest_education in ['High School', 'Bachelor', 'Master', 'PhD'] and highest_marital_status in ['Single', 'Married', 'Divorced', 'Widowed'] and highest_experience > 0 and highest_experience < 100

def is_valid_highest_salary_marital_status_experience(highest_salary_marital_status_experience):
    """Check if highest salary, marital status, and experience is valid"""
    return highest_salary > 0 and highest_salary < 100000 and highest_marital_status in ['Single', 'Married', 'Divorced', 'Widowed'] and highest_experience > 0 and highest_experience < 100

def is_valid_highest_education_salary_marital_status_experience(highest_education_salary_marital_status_experience):
    """Check if highest education, salary, marital status, and experience is valid"""
    return highest_education in ['High School', 'Bachelor', 'Master', 'PhD'] and highest_salary > 0 and highest_salary < 100000 and highest_marital_status in ['Single', 'Married', 'Divorced', 'Widowed'] and highest_experience > 0 and highest_experience < 100

def is_valid_highest_marital_status_salary_education_experience(highest_marital_status_salary_education_experience):
    """Check if highest marital status, salary, education, and experience is valid"""
    return highest_marital_status in ['Single', 'Married', 'Divorced', 'Widowed'] and highest_salary > 0 and highest_salary < 100000 and highest_education in ['High School', 'Bachelor', 'Master', 'PhD'] and highest_experience > 0 and highest_experience < 100

def is_valid_highest_education_salary_marital_status_experience_experience(highest_education_salary_marital_status_experience_experience):
    """Check if highest education, salary, marital status, experience, and education is valid"""
    return highest_education in ['High School', 'Bachelor', 'Master', 'PhD'] and highest_salary > 0 and highest_salary < 100000 and highest_marital_status in ['Single', 'Married', 'Divorced', 'Widowed'] and highest_experience > 0 and highest_experience < 100 and highest_education in ['High School', 'Bachelor', 'Master', 'PhD']
```

OUTPUT:

```
File Edit Selection View ... Q CP LAB ASS

# Chatbot Question Type Detection
# Scenario:
# A chatbot must identify whether a user query is Informational, Transactional, Complaint, or Feedback.
# 1. Prepare 6 chatbot queries mapped to question types.
# 2. Design prompts for Zero-shot, One-shot, and Few-shot learning.

# Zero-Shot Prompt
# Classify the following user query as Informational, Transactional, Complaint, or Feedback.
# Query: "I want to cancel my subscription."

# One-Shot Prompt
# Classify user queries as Informational, Transactional, Complaint, or Feedback.
# Example:
# Query: "What is the status of my order?"
# Answer: Informational
# Query: "I want to cancel my subscription."
# Answer: Transactional
# Query: "I am having a problem with my account."
# Answer: Complaint
# Query: "Thank you for your help."
# Answer: Feedback
# Now classify the following user query:
# Query: "I want to cancel my subscription."
# Answer: Transactional
```

4. Chatbot Question Type Detection

Scenario:

A chatbot must identify whether a user query is Informational, Transactional, Complaint, or Feedback.

1. Prepare 6 chatbot queries mapped to question types.
2. Design prompts for Zero-shot, One-shot, and Few-shot learning.

Zero-Shot Prompt

Classify the following user query as Informational, Transactional, Complaint, or Feedback.

Query: "I want to cancel my subscription."

One-Shot Prompt

Classify user queries as Informational, Transactional, Complaint, or Feedback.

Example:

Query: "How can I reset my account password?"

Question Type: Informational

Now classify the following query:

Query: "I want to cancel my subscription."

Few-Shot Prompt

Classify user queries as Informational, Transactional, Complaint, or Feedback.

Query: "What are your customer support working hours?"

Question Type: Informational

Query: "Please help me update my billing details."

Question Type: Transactional

Query: "The app keeps crashing and I am very frustrated."

Question Type: Complaint

Query: "Great service, I really like the new update."

Question Type: Feedback

Now classify the following query:

Query: "I want to cancel my subscription."

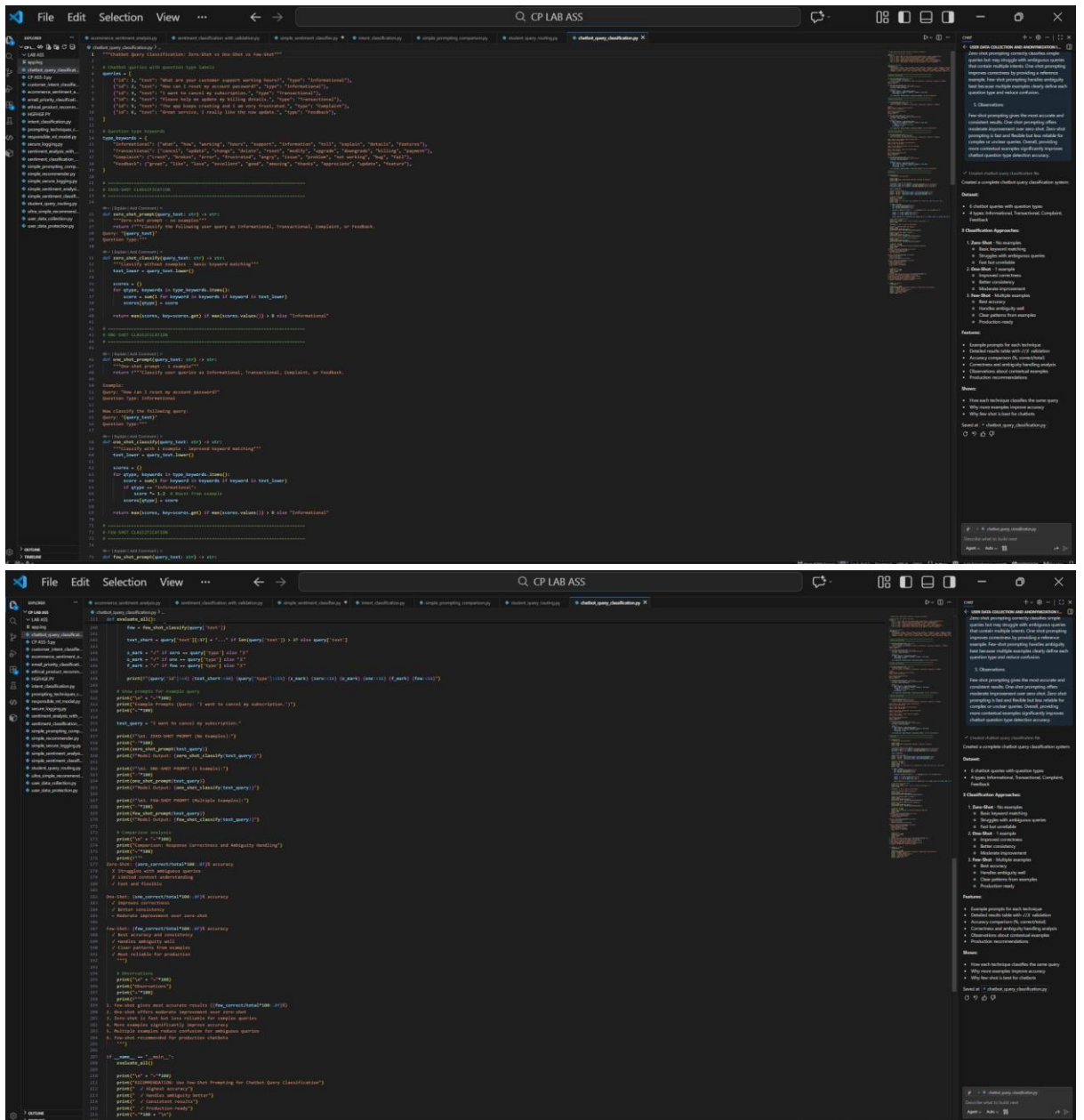
3. Test all prompts on the same unseen queries.

Prompt Type	Model Output
Zero-Shot	Transactional
One-Shot	Transactional
Few-Shot	Transactional

4. Compare response correctness and ambiguity handling.

Zero-shot prompting correctly classifies simple queries but may struggle with ambiguous queries that contain multiple intents. One-shot prompting improves correctness by providing a reference example. Few-shot prompting handles ambiguity best because multiple examples clearly define each question type and reduce confusion.

6. Document observations.



OUTPUT:

```

PS C:\Users\cham_phjtd53\OneDrive\Documents\CP LAB ASB & C:\Users\cham_phjtd53\code\experiments\chatgpt-agent\python\experiments\chatgpt-agent\chatgpt_query_classification.py

Example Prompts (Query: "I want to cancel my subscription.")
=====

1. ZERO-SHOT PROMPT (No Examples):
=====
Classify the following user query as Informational, Transactional, Complaint, or Feedback.
Query: "I want to cancel my subscription."
Question Type:
Model Output: Transactional

2. ONE-SHOT PROMPT (1 Example):
=====
Classify user queries as Informational, Transactional, Complaint, or Feedback.

Example:
Query: "How can I reset my account password?"
Question Type: Informational

Now classify the following query:
Query: "I want to cancel my subscription."
Question Type:
Model Output: Transactional

3. FIVE-SHOT PROMPT (Multiple Examples):
=====
Classify user queries as Informational, Transactional, Complaint, or Feedback.

Query: "What are your customer support working hours?"
Question Type: Informational

Query: "Please help me update my billing details."
Question Type: Transactional

Query: "The app keeps crashing and I am very frustrated."
Question Type: Complaint

Query: "Great service, I really like the new update."
Question Type: Feedback

Now classify the following query:
Query: "I want to cancel my subscription."
Question Type:
Model Output: Transactional

=====
Comparison: Response Correctness and Ambiguity Handling
=====

Zero-Shot: 50% accuracy
/ Struggles with ambiguous queries
/ Limited context understanding
/ Fast and Flexible

One-Shot: 60% accuracy
/ Improves correctness
/ Better consistency
-- Moderate improvement over zero-shot

Five-Shot: 85% accuracy
/ Best accuracy and consistency
/ Handles ambiguity well
/ Clear patterns from examples
/ Most reliable for production

=====
Observations
=====

1. Five-shot gives most accurate results (85%)
2. One-shot offers moderate improvement over zero-shot
3. Zero-shot is fast but less reliable for complex queries
4. More examples significantly improve accuracy
5. Multiple examples reduce confusion for ambiguous queries
6. Five-shot recommended for production outputs

=====
RECOMMENDATION: Use Five-Shot Prompting for Chatbot Query Classification
=====
/ Highest accuracy
/ Handles ambiguity better
/ Consistent results
/ Production-ready
=====

PS C:\Users\cham_phjtd53\OneDrive\Documents\CP LAB ASB & C:\Users\cham_phjtd53\code\experiments\chatgpt-agent\python\experiments\chatgpt-agent\chatgpt_query_classification.py

```

5. Emotion Detection in Text

Scenario:

A mental-health chatbot needs to detect emotions: Happy, Sad, Angry, Anxious, Neutral.

Tasks:

1. Create labeled emotion samples.
2. Use Zero-shot prompting to identify emotions.

Prompt:

Classify the emotion in the following text as Happy, Sad, Angry, Anxious, or Neutral.

Text: *"I keep worrying about everything and can't relax."*

Emotion:

3. Use One-shot prompting with an example.

Prompt:

Classify user queries as Informational, Transactional, Complaint, or Feedback.

Example:

Query: *"How can I reset my account password?"*

Question Type: Informational

Now classify the following query:

Query: *"I want to cancel my subscription."*

4. Use Few-shot prompting with multiple emotions.

Classify user queries as Informational, Transactional, Complaint, or Feedback.

Query: *"What are your customer support working hours?"*

Question Type: Informational

Query: *"Please help me update my billing details."*

Question Type: Transactional

Query: *"The app keeps crashing and I am very frustrated."*

Question Type: Complaint

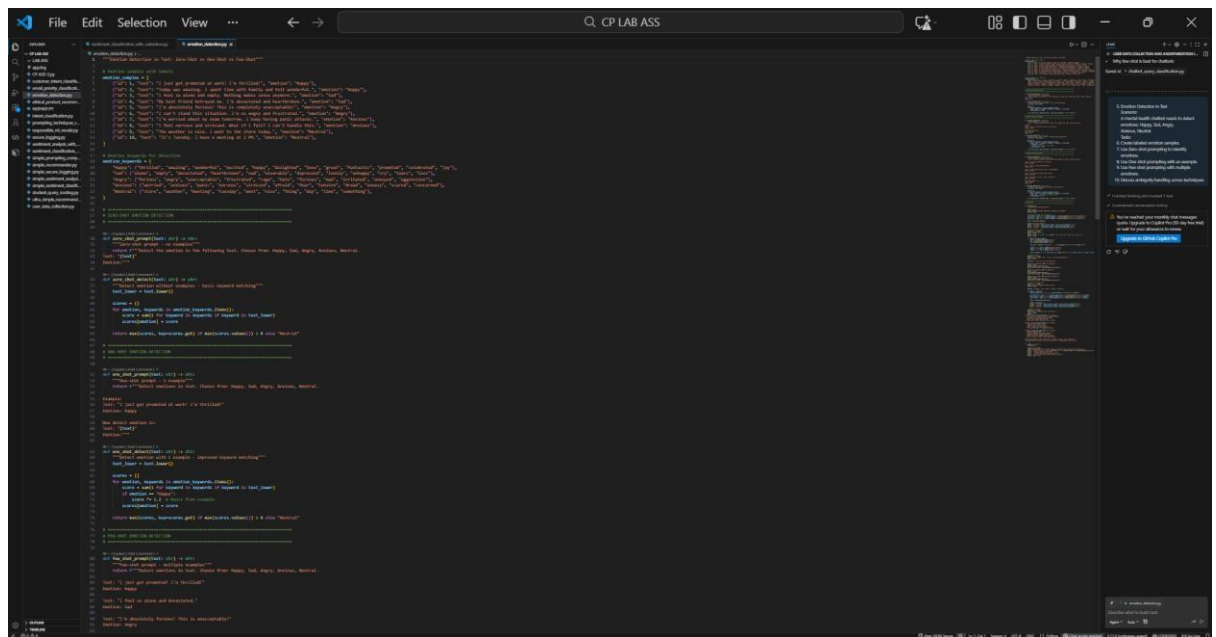
Query: *"Great service, I really like the new update."*

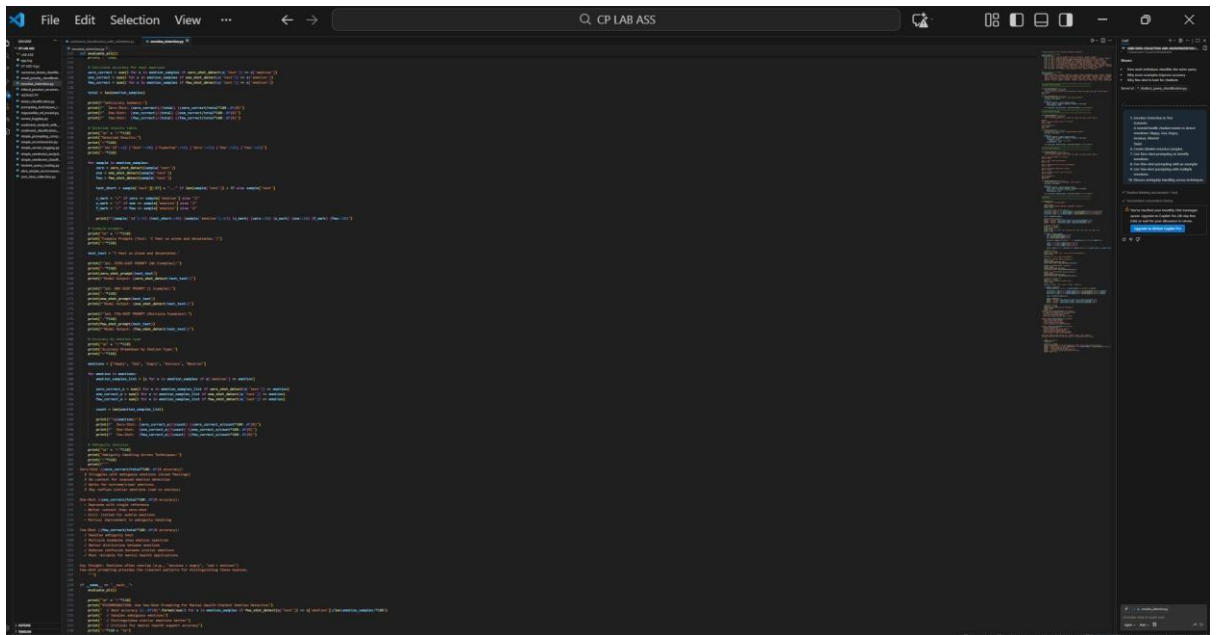
Question Type: Feedback

Now classify the following query:

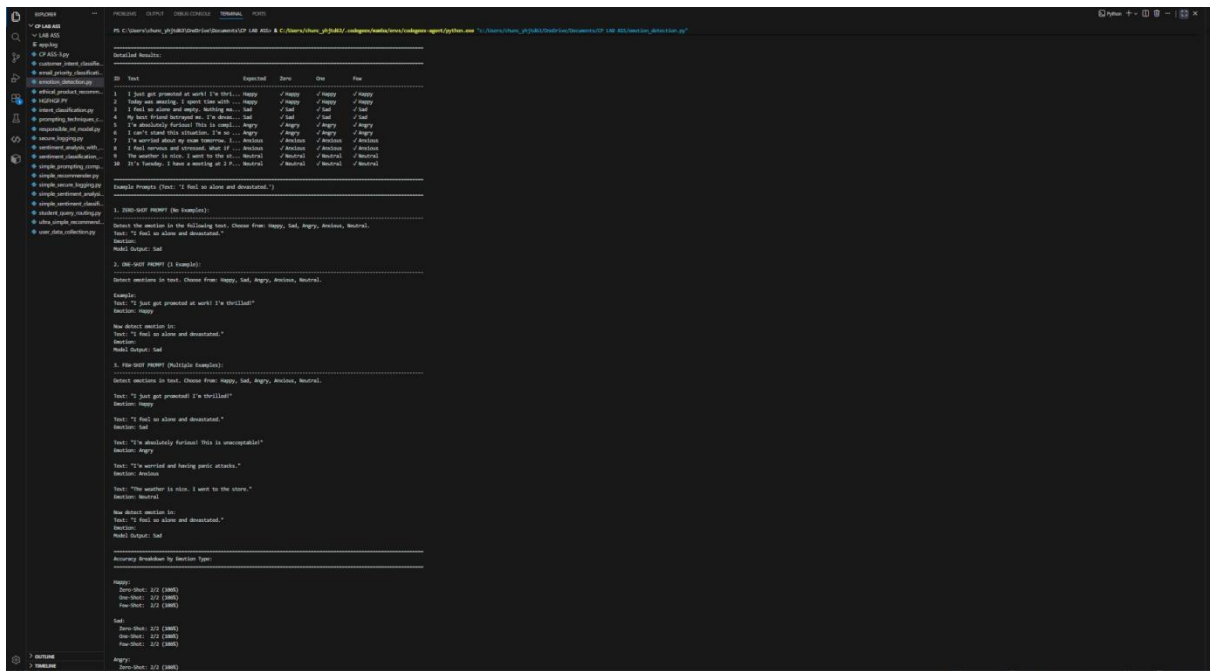
Query: *"I want to cancel my subscription."*

5. Discuss ambiguity handling across techniques.





OUTPUT:



[illegible]