AI ALIA – An Initiative by SOFTECH

Professional Learning Solutions

Course Information

Course Title: Prompt Engineering

Module: Prompting Techniques

Lesson: Zero-shot, One-shot, Few-shot Prompting Techniques

Exercise Type: Scenario-Based Assessment

Difficulty Level: Beginner

Estimated Completion Time: 30 Minutes

🎯 Learning Objectives

After completing this exercise, the learner will be able to:

- Define Prompt Engineering clearly
- Identify components of an effective prompt
- Differentiate between weak and strong prompts
- Apply structured prompting technique

📝 EXERCISE QUESTIONS

Exercise 1 – Zero-Shot Prompting (Easy)

Task:

Write a zero-shot prompt asking AI to explain "Blockchain" in simple words.

Rules:

- Do not give any example.
- Keep it as a direct instruction.
- Mention audience and clarity if needed.

Exercise 2 – Improve a Zero-Shot Prompt (Easy–Medium)

Poor Prompt:

Explain climate change.

Task:
Rewrite this as a stronger zero-shot prompt by:

- Adding audience

- Adding clarity

- Defining length

(Remember: No example should be included.)

Exercise 3 – One-Shot Prompting (Medium)

Task:
Create a one-shot prompt to teach AI how to explain concepts in one simple sentence.

Topic to ask after example: "Explain Gravity."

Rules:

- First provide one example question and answer.

- Then ask the new question.

- Keep the style simple.

Exercise 4 – Few-Shot Prompting (Medium)

Task:
Create a few-shot prompt to train AI to define scientific terms in one simple sentence.

Final term to ask: "Define Photosynthesis."

Rules:

- Provide at least two example question-answer pairs.

- Then ask the final question.

- Maintain consistent format.

Exercise 5 – Scenario-Based (Medium)

Scenario:

You are preparing structured answers for a school quiz competition.

You want all answers in one short, clear sentence.

Task:

Write a few-shot prompt that teaches AI the expected format and then asks:

"What is Democracy?"

✍ Response Area

Answer 1:

Answer 2:

Answer 3:

Answer 4:

Answer 5:

📊 Evaluation Rubric

Criteria	Excellent	Good	Needs Improvement
Concept Clarity	Clear & well-articulated	Adequate	Limited
Prompt Structure	Fully structured	Partially structured	Weak
Practical Application	Professional & usable	Acceptable	Needs refinement
Analytical Thinking	Insightful	General	Basic