

AI ALIA – An Initiative by SOFTECH

Professional Learning Solutions

Course Information

Course Title: Prompt Engineering

Module: Prompt Engineering for Specific Use Cases – Part 2

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:

- Data Analysis Prompt – Structured Reasoning
 - Ambiguous Data Prompt
 - Creative Writing Prompt – Tone & Style Control
 - Same Topic – Two Creative Angles
 - Advanced Challenge: Combine Data + Creativity
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EXERCISE QUESTIONS

Exercise 1:

Scenario:

You are building an AI assistant for a small retail store.

The store owner provides this monthly sales data:

- January: 12,000
- February: 15,000
- March: 9,000
- April: 18,000

The owner asks:

“What can I understand from this?”

You want the AI to:

- Analyze trends
- Identify highest and lowest months
- Calculate percentage increase/decrease between months
- Provide 2 business recommendations

- Present results in bullet points

Task:

Write a detailed data-analysis prompt that:

- Clearly includes the data
- Requests step-by-step reasoning
- Specifies output format
- Ensures practical insights

After generating output, students must evaluate:

- Is the trend analysis correct?
- Are calculations shown clearly?
- Are recommendations data-driven?

Exercise 2:

Scenario:

A weak prompt is written:

“Analyze my sales.”

The AI gives a vague answer.

You now know:

It’s monthly sales data

It’s for a clothing store

The goal is to identify seasonal trends

Output should include a short summary and a table

Task:

Rewrite the weak prompt into a strong professional data-analysis prompt that:

Specifies the data context

Defines business goal

Requests structured output

Avoids ambiguity

Exercise 3:

Scenario:

You are creating content for a short storytelling competition.

Theme:

“A future where AI and humans live together.”

You want the AI to:

Write a 400-word short story

Use emotional tone

Include one unexpected twist

Show, not tell

End with a reflective message

Task:

Write a detailed creative-writing prompt that:

Defines tone

Specifies word limit

Controls narrative structure

Encourages descriptive writing

After generating output, students must evaluate:

Is the tone consistent?

Is the twist effective?

Is the ending meaningful?

Exercise 4:

Scenario:

Topic:

“Lost in a city.”

Students must write two prompts:

- ① A suspense thriller version
- ② A romantic drama version

Each prompt must:

Specify genre

Define tone

Set word limit

Describe main character briefly

After generating outputs, students must compare:

Vocabulary differences

Emotional intensity

Narrative pacing

Atmosphere

Exercise 5:

Scenario:

You are writing a blog post about declining book sales in physical stores.

You are given this data:

- 2018: 50,000 sales

- 2019: 48,000
- 2020: 35,000
- 2021: 30,000
- 2022: 28,000

You want the AI to:

- Analyze the trend
- Explain possible causes
- Present data in a small table
- Then write a compelling narrative paragraph about the emotional impact on small bookstores

Task:

Write one powerful prompt that:

- Combines data analysis + storytelling
- Clearly separates analytical section and narrative section
- Controls formatting

🚩 Response Area

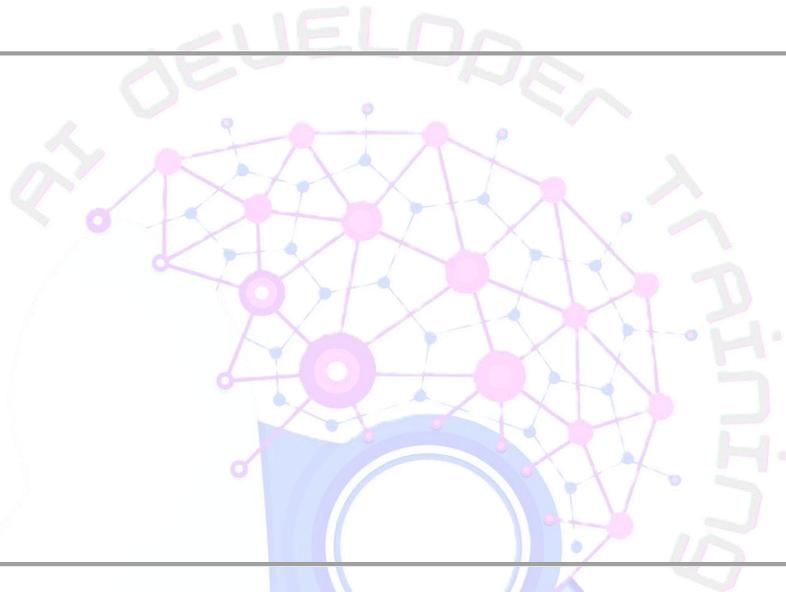
Answer 1:

Answer 2:

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Answer 3:

Answer 4:



Answer 5:

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 **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