

AI ALIA – An Initiative by SOFTECH

Professional Learning Solutions

Course Information

Course Title: Prompt Engineering

Module: Fundamentals of Prompt

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:

- Identify & Apply Prompt Types
 - Build a Complete Prompt Using Structure
 - Fixing the Weak Prompt
 - Advanced Hands-On Challenge
-

EXERCISE QUESTIONS

Exercise 1:

Scenario:

You are building an AI assistant for a school website.

The principal wants AI to help students in different ways.

Task:

For each situation below, write the appropriate type of prompt.

1 Question-Based Prompt

A student wants to know about renewable energy.

Write a question-based prompt that asks the AI to explain renewable energy clearly.

2 Instruction-Based Prompt

You want the AI to summarize a paragraph about climate change in 3 bullet points.

Write an instruction-based prompt.

3) Command-Based Prompt

You want the AI to generate 5 motivational quotes for exam preparation.
Write a command-style prompt.

4) Context-Based Prompt

You are creating an AI tutor for 8th-grade students in India.
Write a context-based prompt to explain the water cycle in a way suitable for that audience.

Exercise 2:

Scenario:

You are designing an AI career assistant.

A user says:

“I want to switch from mechanical engineering to data science.”

You want the AI to:

Give step-by-step guidance

Suggest skills to learn

Recommend 2 beginner projects

Format the answer in numbered steps

Task:

Write a complete structured prompt that includes:

- Clear instruction
- Context
- Input data
- Output format specification

(You must clearly show these 4 components inside your prompt.)

Exercise 3:

Scenario:

A student writes this prompt:

“Tell me about marketing.”

The output is too broad and not useful.

Task:

Rewrite this into a strong, well-structured prompt.

Add:

Clear instruction

Specific context

Defined audience

Output format requirement

Example situation to improve it:

The user is:

A small business owner

Wants digital marketing strategies

Has a limited budget

Needs practical, actionable steps.

Exercise 4:

Scenario:

Write 3 different prompts about the same topic:

Topic: “Time management”

One vague prompt

One moderately detailed prompt

One fully structured prompt (with format instructions)

After generating responses, students must:

Compare length

Compare clarity

Compare usefulness

Explain why results differ

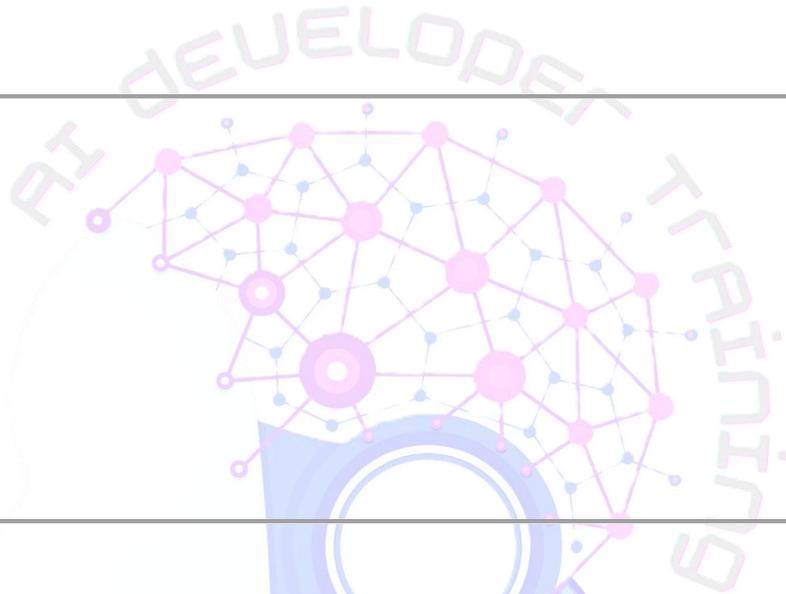
🔗 Response Area

Answer 1:

AI-ALIA.COM

Answer 2:

Answer 3:



Answer 4:

AI-ALIA.COM

 **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