ASSIGNMENT 6:

Assignment and practice of Prompt Engineering to craft effective prompts.

Task 1: Prompt Categorization

Prompt 1:

"Generate a logo for a tech startup using neon colors."
 Category: Visual
 Reasoning:
 This prompt asks for the creation of a visual design (a logo), which involves graphic or aesthetic output. It's not focused on discussion or instruction, but rather the generation of an image based on specific design criteria (tech startup + neon colors).

Prompt 2:

"Explain blockchain to a 5-year-old."
 Category: Instructional
 Reasoning:
 This prompt seeks an explanation of a complex topic in simplified terms, which is a hallmark of instructional prompts. The goal is to educate or inform in an age-appropriate, understandable way.

Prompt 3:

"You are a UX designer. Suggest improvements to this app layout."
 Category: Conversational / Instructional (Hybrid)
 Reasoning:
 This prompt frames the assistant in a role-playing scenario ("You are a UX designer") and requests professional advice. It's partly conversational due to the role assumption, but also instructional because the response will provide guidance or recommendations on improving a layout. It can reasonably fit both, but if only one category is required, Instructional is more accurate due to the emphasis on actionable suggestions.

Task 2: Refinement Practice

1. Original Prompt:
 "Write a story."

- ● Refined Prompt:
   "Write a 500-word short story for teenagers about a group of friends who discover a hidden portal   in their school library that leads to a magical world. Use a light, adventurous tone."

2. Original Prompt:
 "Draw a car."

- ● Refined Prompt:
   "Generate an illustration of a futuristic electric car with sleek silver bodywork, glowing blue   headlights, and solar panels on the roof, shown driving on a Neon-lit highway at night."

3. Original Prompt:
 "Make a video."

- ● Refined Prompt:
   "Create a 15-second video Showing a sunrise over the Himalayas, where the sky gradually changes from dark blue to orange, with birds flying across the   mountains."

4. Original Prompt:
 "Do some coding."

- ● Refined Prompt:
   "Write a Python program that asks the user to enter 5 numbers, stores them in a list, and then prints the maximum, minimum, and average values."

5. Original Prompt:
 "Teach me math."

- ● Refined Prompt:
   "You are a math tutor. Explain he concept of fractions to a 10-year-old using simple examples (like cutting a pizza), and then provide 3 practice problems with solutions."

Task 3: Prompt Design Exercise

1. ChatGPT (Text-Based Prompt)

Prompt:
 "You are an HR consultant. Draft a professional yet friendly email to a candidate who has successfully cleared the final interview round for a marketing role. Include next steps, timeline for onboarding, and a note of congratulations."

 Purpose: Professional writing, tone adjustment, and task-specific instruction.

2. DALL·E (Image-Based Prompt)

Prompt:
 "Create a digital painting of a futuristic library floating in space, with glowing bookshelves, zero-gravity reading pods, and a large glass dome showing stars and planets outside. Style: cinematic, high-detail, sci-fi concept art."

 Purpose: Generates a vivid and imaginative image using clear descriptors, setting, and art style.

3. SORA (Video-Based Prompt)

Prompt:
 "Generate a 30-second video showing a time-lapse of a forest transforming across the four seasons — starting from spring bloom, to summer greenery, autumn leaves falling, and ending with a snowy winter scene. Add gentle background music."

 Purpose: Focuses on environmental visuals and mood, with a defined sequence and tone for video generation.

4. Coding or Logic Prompt

Prompt:
 "Write a Python function that takes a list of student test scores and returns a dictionary with the average, highest, and lowest score. Include input validation to handle empty lists or non-numeric values."

 Purpose: Tests problem-solving, validation, and basic data processing skills.

5. Education or Training Prompt

Prompt:
 "Design a 15-minute microlearning module for new retail employees on how to handle difficult customers. Include key phrases to use, role-play scenarios, and a short quiz at the end to reinforce learning."

 Purpose: Instructional design with clear components for an engaging and structured training experience.