### **Task 1: Prompt Categorization**

**Prompt 1:** *"Generate a logo for a tech startup using neon colors."*

* **Type:** Visual Prompt
* **Reasoning:** This request is asking for the creation of an image (a logo) with specific stylistic requirements (neon colors). Visual prompts are typically used with image-generation models like DALL·E or SORA.

**Prompt 2:** *"Explain blockchain to a 5-year-old."*

* **Type:** Instructional Prompt
* **Reasoning:** The user is asking the AI to explain a complex concept (blockchain) in simple terms suitable for a child. It involves giving a structured and simplified explanation → this fits the **instructional** category.

**Prompt 3:** *"You are a UX designer. Suggest improvements to this app layout."*

* **Type:** Role-based Conversational Prompt
* **Reasoning:** The user frames the AI as a **UX designer** (role-based prompting) and asks for suggestions. Since it requires an opinion, advice, and interactive explanation, it falls under **conversational + role-based** prompting.

✅ **Final Categorization Table**

| **Prompt** | **Type** | **Reasoning** |
| --- | --- | --- |
| Generate a logo for a tech startup using neon colors. | Visual Prompt | Creates an image (logo) with specific styling. |
| Explain blockchain to a 5-year-old. | Instructional Prompt | Gives a structured explanation tailored to a child. |
| You are a UX designer. Suggest improvements to this app layout. | Role-based Conversational Prompt | Frames AI as a UX designer and seeks interactive 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 the concept of fractions to a 10-year-old using simple examples (like cutting a pizza), and then provide 3 practice problems with solutions."*

✅ **Summary Table**

| **Original Prompt** | **Refined Prompt** |
| --- | --- |
| Write a story. | Write a 500-word adventure story for teens about friends finding a magical portal in their school library. |
| Draw a car. | Generate an illustration of a futuristic electric car with glowing blue headlights, solar panels, and neon-lit highway background. |
| Make a video. | Create a 15-sec video of sunrise over the Himalayas with changing sky colors and birds flying. |
| Do some coding. | Write a Python program that takes 5 numbers and prints the max, min, and average. |
| Teach me math. | Explain fractions to a 10-year-old with pizza examples + give 3 practice problems with solutions. |

## **Task 3: Prompt Design Exercise**

### **1. ChatGPT (Text-based Prompt)**

**Prompt:** *"You are a career advisor. Write a step-by-step career roadmap for an engineering graduate who wants to transition into investment banking, including required skills, certifications, and networking strategies."*

* **Domain:** Career guidance (Text-based)
* **Purpose:** To get structured, practical advice in a professional tone.

### **2. DALL·E (Image-based Prompt)**

**Prompt:** *"A futuristic smart city at night, filled with flying cars, glowing holograms, and vertical gardens on skyscrapers, illustrated in cyberpunk style with neon colors."*

* **Domain:** Creative visual design
* **Purpose:** To generate a detailed AI image with specific styling.

### **3. SORA (Video-based Prompt)**

**Prompt:** *"Create a 20-second cinematic video of a space explorer landing on a mysterious alien planet with glowing blue forests and bioluminescent creatures moving in the background."*

* **Domain:** Entertainment / Visual storytelling
* **Purpose:** To produce an immersive short video scene.

### **4. Coding or Logic Prompt**

**Prompt:** *"Write a Python program that takes a list of student names and their marks, then prints a sorted leaderboard in descending order of marks with ranks."*

* **Domain:** Programming / Logic
* **Purpose:** To get a functional and testable code output.

### **5. Education or Training Prompt**

**Prompt:** *"You are a history teacher. Explain World War II in the form of a storytelling session for high school students, using simple language, key events, and short analogies."*

* **Domain:** Education / Training
* **Purpose:** To teach history in an engaging and student-friendly way.

✅ **Final Answer – Summary Table**

| **Domain** | **Example Prompt** | **Purpose** |
| --- | --- | --- |
| ChatGPT (Text) | You are a career advisor. Write a roadmap for an engineering graduate moving into investment banking. | Career guidance |
| DALL·E (Image) | A futuristic smart city with flying cars, holograms, vertical gardens, cyberpunk neon style. | Creative image generation |
| SORA (Video) | 20-sec cinematic of space explorer landing on alien planet with glowing forests & creatures. | Immersive video storytelling |
| Coding / Logic | Python program to create a leaderboard sorted by marks with ranks. | Functional code |
| Education / Training | You are a history teacher. Explain WWII as a story for high school students. | Engaging teaching |