**Practical No-06**

* **Task 1: Prompt Categorization**

Categorize the following prompts into types (Instructional, Conversational, Visual, etc.) and explain your reasoning:

* 'Generate a logo for a tech startup using neon colors.'
* 'Explain blockchain to a 5-year-old.'
* 'You are a UX designer. Suggest improvements to this app layout.'

### **1. “Generate a logo for a tech startup using neon colors.”**

**Category:** Visual / Creative Generation

**Detailed Reasoning:**

* **Nature of task** → It is asking for **creation** of a *visual design* (a logo), not text or explanation.
* **Medium of output** → Primarily **visual imagery**, which could be made via an AI image generator or graphic design software.
* **Constraints** → Neon colors + tech startup theme. This makes it more than “any logo” — it emphasizes **style** and **industry relevance**.
* **Type of interaction** → Not conversational, not analytical. Purely **creative design task**.

### **2. “Explain blockchain to a 5-year-old.”**

**Category:** Instructional / Explanatory (Simplified Communication)

**Detailed Reasoning:**

* **Nature of task** → Teaching a **complex concept** (blockchain).
* **Audience specification** → A 5-year-old → forces simplification, metaphors, and age-appropriate analogies.  
  **Expected output** → A **simplified narrative or explanation**, in **textual form**.
* **Type of interaction** → It’s not about design or conversation, but **instructional teaching** (knowledge transfer in a simplified way).

### **3. “You are a UX designer. Suggest improvements to this app layout.”**

**Category:** Role-based Expert Advice / Analytical Critique

**Detailed Reasoning:**

* **Nature of task** → Role assignment: “You are a UX designer” → requires assuming expertise.
* **Action requested** → Provide **feedback + improvement suggestions** for an app layout (analytical, critique-driven).
* **Expected output** → **Practical, structured recommendations** (improving usability, accessibility, flow, aesthetics).
* **Type of interaction** → Unlike the first two, this isn’t just teaching or generating an image → it’s **role-playing as an expert** and giving **consultative advice**.
* **Task 2: Refinement Practice**

Given vague prompts, refine them to be more effective.

### **1. Original Prompt:**

“Generate an image.”  
 **Refined Prompt:** “Generate a high-resolution image of a futuristic city skyline at night, featuring flying cars, neon lights, and holographic billboards, in a cyberpunk art style.”

### **2. Original Prompt:**

“Write a story.”  
 **Refined Prompt:** “Write a 500-word short story about a time traveler who accidentally arrives in ancient Egypt. Use a suspenseful tone, include vivid descriptions of the pyramids, and end with an unexpected twist.”

### **3. Original Prompt:**

“Design a website.”  
 **Refined Prompt:** “Design a responsive landing page for a mobile fitness app. Use a clean, modern layout with a hero image of people exercising, a call-to-action button (‘Start Your Free Trial’), and three feature sections with icons.”

### **4. Original Prompt:**

“Explain AI.”  
 **Refined Prompt:** “Explain artificial intelligence to a high school student using simple language. Provide real-life examples such as voice assistants, recommendation systems, and self-driving cars.”

### **5. Original Prompt:**

“Suggest improvements.”  
 **Refined Prompt:** “Act as a UX designer and suggest 5 improvements to a food delivery app’s checkout process, focusing on speed, clarity, and user trust.”

* **Task 3: Prompt Design Exercise**

Design 5 original prompts for different domains

* - One for ChatGPT (text-based)
* - One for DALL·E (image-based)
* - One for SORA (video-based)
* - One for coding or logic
* - One for education or training

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

**Prompt:** “Imagine you are a career coach. Write a step-by-step guide (500 words) for a college student studying Artificial Intelligence and Data Science on how to find an internship abroad. Include online platforms, networking strategies, and skills to highlight.”

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

**Prompt:** “Generate a digital painting of an ancient Indian city at sunrise, with busy markets, elephants decorated with ornaments, and grand temples in the background. Style: realistic with warm golden tones.”



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

**Prompt:** “Create a 20-second animated video of a day in the life of a honeybee. Show it flying from flower to flower, collecting nectar, returning to the hive, and producing honey.”

### **4. Coding / Logic Prompt**

**Prompt:** “Write a Java program that takes a sentence as input and counts how many vowels, consonants, digits, and spaces are present. Display the results clearly.”

| import java.util.Scanner;  public class SentenceAnalyzer {  public static void main(String[] args) {  Scanner sc = new Scanner(System.in);  String s = sc.nextLine().toLowerCase();  int v=0,c=0,d=0,sp=0;  for(char ch : s.toCharArray()) {  if("aeiou".indexOf(ch)>=0) v++;  else if(ch>='a' && ch<='z') c++;  else if(Character.isDigit(ch)) d++;  else if(ch==' ') sp++;  }  System.out.println("Vowels: " + v);  System.out.println("Consonants: " + c);  System.out.println("Digits: " + d);  System.out.println("Spaces: " + sp);  sc.close();  }  } |
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### **5. Education / Training Prompt**

### **Prompt:** “Prepare a 5-minute training script for new employees on ‘Workplace Cybersecurity Basics.’ Cover topics like strong passwords, phishing emails, and safe internet practices in simple, non-technical language.”

| **Intro (30s):**  “Cybersecurity is like locking your doors — small habits protect you and the company.”  **1. Strong Passwords (1.5 min):**   * Use long, unique passphrases. * Don’t reuse passwords. * Use a password manager.   **2. Phishing Emails (1.5 min):**   * Watch for urgent or suspicious messages. * Don’t click unknown links. * When in doubt, verify with IT.   **3. Safe Practices (1.5 min):**   * Download only from trusted sources. * Avoid public Wi-Fi for work; use VPN. * Lock your computer when away. * Keep software updated.   **Closing (30s):**  “Strong passwords, careful clicking, and safe habits keep us all secure. When unsure, ask IT — one question can prevent a big problem.” |
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