ASSIGNMENT 6

Task 1*: Prompt Categorization*

1. 'Generate a logo for a tech startup using neon colors.'

- **Categorization**: Visual / Creative
- **Reasoning**: This prompt explicitly requests the generation of a visual asset (a logo). The core task is creative and design-oriented, requiring the AI to synthesize concepts (tech startup, neon colors) into a graphical format. It's focused on producing an image rather than text-based information or conversation.

2. 'Explain blockchain to a 5-year-old.'

- **Categorization**: Instructional / Informational
- **Reasoning**: This is a classic instructional prompt that asks the AI to perform an informational task: to explain a complex topic. The key nuance is the specific audience ("to a 5-year-old"), which instructs the AI to adapt its explanation by using simple language, analogies, and a fundamentally different structure than it would for an expert audience. The primary goal is to educate and inform.

3. 'You are a UX designer. Suggest improvements to this app layout.'

- **Categorization**: Role-Play / Instructional
- **Reasoning**: This prompt has two distinct layers:
    1. Role-Play: It begins by assigning a specific role to the AI ("You are a UX designer"). This sets a context and expectations for the expertise and perspective of the response.
    2. Instructional: The core task is instructional—to analyze and provide professional suggestions for improvement. It implies a critique based on established design principles (usability, accessibility, aesthetics). The prompt expects a structured, expert analysis rather than a general conversation or a creative visual output.

Task 2*: Refinement Practice*

1: Writing Prompt

- Original: Write a Story
- Refined: Write a short, suspenseful horror story for young adults, set in an abandoned library. The main character should be a curious archivist who discovers a book that shouldn't exist. End the story with a chilling cliffhanger.

2: Business Prompt

- Original: Give me Marketing Ideas
- Refined: Act as a marketing consultant for a new local coffee shop called "The Daily Grind". Suggest three low budget digital marketing strategies to attract customers aged 25-40 in the first month of operation. Focus on community building.

3: Instructional Prompt

- Original: How do I fix my computer?
- Refined: My windows 11 PC fails to boot and shows a blue screen with error code "CRITICAL_PROCESS_DIED". I am a novice user with no technical background. Provide a step-by-step guide on the first three basic troubleshooting steps I should try.

4: Creative Prompt
- Original: Draw a Dog
- Refined: Generate a photorealistic image of an adult Australian Shepherd sitting majestically on a rocky cliff at sunset. The dog has

striking blue merle fur and intelligent, alert eyes. The style should be dramatic and warm, with a shallow depth of field.

Task 3: *Prompt Design Exercise*

1. For ChatGPT (Text-Based)

- Domain: Copywriting & Marketing
- Prompt:
  "Act as a senior copywriter for a sustainable activewear brand. Write three distinct email subject lines for a campaign launching a new line of yoga mats made from recycled ocean plastic. The tones should be: 1) Urgent and impactful, 2) Benefit-driven and aspirational, and 3) Curious and intriguing. Keep each subject line under 50 characters."

2. For DALL·E (Image-Based)

- Domain: Product Design & Concept Art
- Prompt:
  "Product photo of a 'Retro-Future Espresso Maker' on a polished brass countertop. The machine should blend 1920s Art Deco design (geometric patterns, polished wood handles) with futuristic elements (soft blue glow from internal components, a holographic pressure gauge). The lighting is dramatic studio lighting, highlighting the sleek, metallic texture. Style: hyper-realistic, 8K resolution."

3. For SORA (Video-Based)

- Domain: Narrative & Atmosphere
- Prompt:
  "A 10-second continuous tracking shot following a lone, weathered astronaut walking through a vast, abandoned library on Mars. Books float gently in the low gravity. Sunlight pierces through dust particles from a broken dome ceiling overhead. The scene is silent, somber, and awe-inspiring, captured on 35mm film with a cinematic aspect ratio."

4. For Coding or Logic

- Domain: Algorithm Optimization
- Prompt:
  "Write a Python function called `find_anagrams(input_string)` that takes a string and returns a list of lists, where each inner list is a group of words from the string that are anagrams of each other. Ignore case and punctuation.
  Example input: "The eyes they see! Yes, the eye."
  Example output: [['The', 'the'], ['eyes', 'see', 'Yes'], ['they']]
  Explain the time complexity of your solution."

5. For Education or Training

- Domain: Interactive Learning
- Prompt:
  "You are a friendly geology tutor for high school students. I will give you the name of a rock or mineral. First, quiz me by asking if I can identify its three key characteristics. Once I respond (whether correctly or not), provide the correct answer in a simple, bulleted list and share one fascinating real-world application of that material. Let's start with: Obsidian."