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Lab Manual

Working with Prompts

Disclaimer: The content is curated from online/offline resources and used for educational purpose only.

Working with Prompts

Lab 30: Use prompts for different actions

Objective:

The objective of this lab is to work with different types of prompts as:

1. Text Generation Prompts
2. Image Generation Prompts
3. Code Generation Prompts ()
4. Business and Marketing Prompts
5. Miscellaneous Prompts

Equipment Required:

1. Computer with internet access
2. Web Browser
3. Jupyter
4. Python

Prerequisites:

- Basic understanding of GenAI
- Prompts in GenAI

Problem Statement:

Use of different types of prompts to retrieve the information

- Text Generation Prompts
- Image Generation Prompts
- Code Generation Prompts ()
- Business and Marketing Prompts
- Miscellaneous Prompts

Procedure:

Objective 1: Understand text generation using AI models.

Tasks:

- Generate short paragraphs of text on given topics.
- Create dialogue between two characters.

- Write a product description.
- Generate a short story based on a given plot outline. (**DIY**)

Tools/Resources:

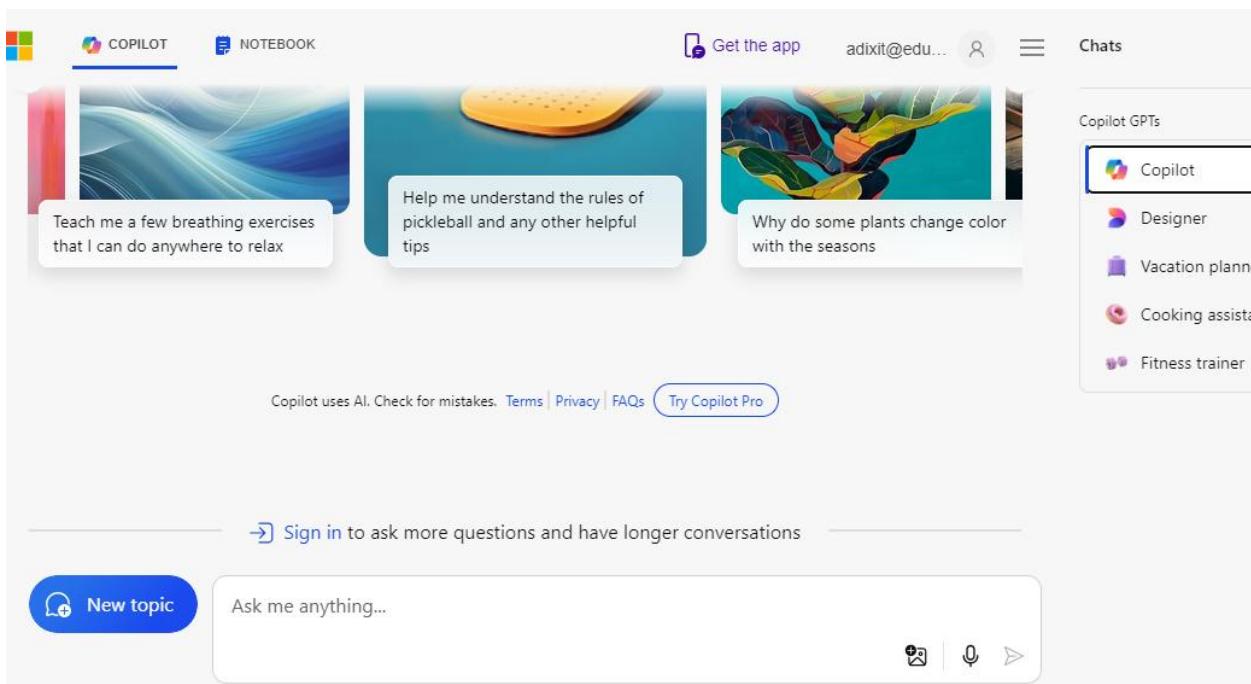
- OpenAI GPT models (e.g., GPT-3, GPT-4)
- Python or API interfaces for model interaction

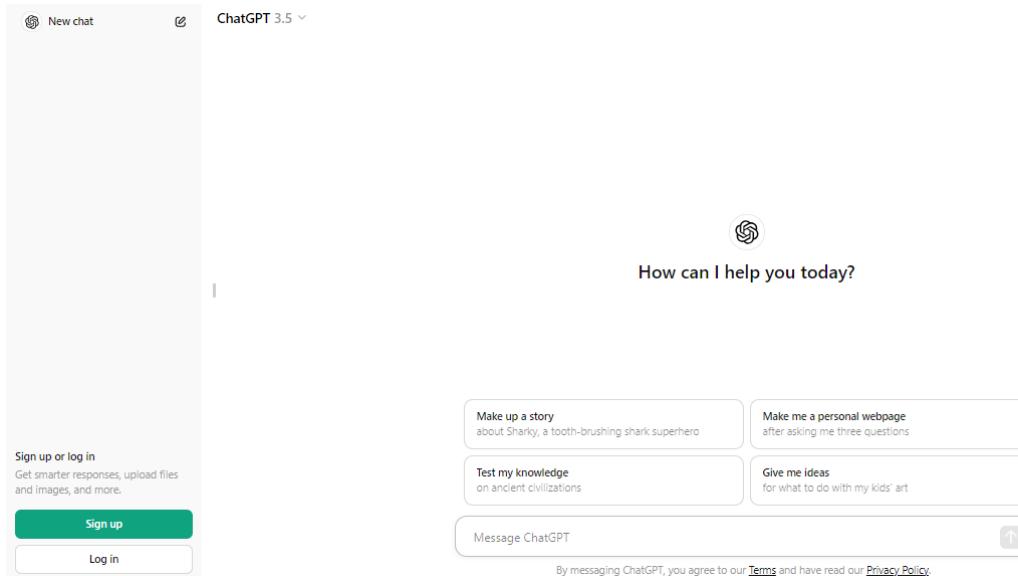
Steps:

Step1: Goto OpenAI/ Co-pilot or any other text generation platform,
<https://chatgpt.com/>

<https://copilot.microsoft.com/>

Step 2: Register if required





Step: 2: Input some text in text box as “write a paragraph on world yoga day”

See the output:



COPILOT

NOTEBOOK



You

write a paragraph on world yoga day



Copilot

The International Day of Yoga is celebrated globally on **21 June** each year. It was officially recognized by the United Nations in **2014**. This day aims to promote the practice of yoga, which originated in ancient India and offers significant benefits for physical and mental well-being. India's Prime Minister Narendra Modi proposed the idea of a dedicated Yoga Day during his UN address, and the resolution received unanimous support from 177 nations. Since then, people around the world participate in yoga sessions, emphasizing the union of body and so

Step 4: Now “Create dialogue between two characters named Harry and John Wick”

Harry: (*sitting at a dimly lit bar*) John, you've got that look in your eyes. What's eating at you?

John Wick: (*leaning against the counter*) Harry, you know me too well. It's the same old story—someone crossed the line. They took something from me, and now they're going to pay.

Harry: (*raises an eyebrow*) You mean like that time with the Russian mob?

John Wick: (*nods*) Yeah, something like that. But this time, it's personal. They hurt someone I care about. And you know what happens when they do that.

Harry: (*takes a sip of his whiskey*) John, revenge won't bring her back. You're a legend, a myth. But even legends have limits.

John Wick: (*clenching his fists*) Harry, you don't understand. This isn't about revenge. It's about justice. There's a difference.

Step 5: Write a product description- honey bottle.

Ingredients: 100% pure honey (no added sugars or syrups)

Net Weight: 12 oz (340 g)

Storage: Store in a cool, dry place. Crystallization is natural; gently warm the bottle to liquefy if needed.

Enjoy the golden goodness of nature—sip, drizzle, and savor! 🍯 🌸

Product Name: Pure Golden Blossom Honey

Description: Our Pure Golden Blossom Honey is a delightful blend of nature's sweetness and floral goodness. Sourced from sun-kissed meadows where bees dance among wildflowers, this honey captures the essence of summer in every golden drop.

- **100% Natural:** Our honey is free from additives, preservatives, and artificial flavors. It's as pure as the bees intended it to be.
- **Rich Flavor Profile:** With notes of wildflowers, clover, and a hint of warm sunshine, this honey is perfect for drizzling over toast, stirring into tea, or adding to your favorite recipes.
- **Health Benefits:** Packed with antioxidants, vitamins, and enzymes, honey is known for its immune-boosting properties. It's a natural energy booster and soothes sore throats.
- **Eco-Friendly Packaging:** Our honey comes in a recyclable glass bottle, preserving its freshness and minimizing environmental impact.

Objective 2: Generate images using AI models.

1. Tasks:

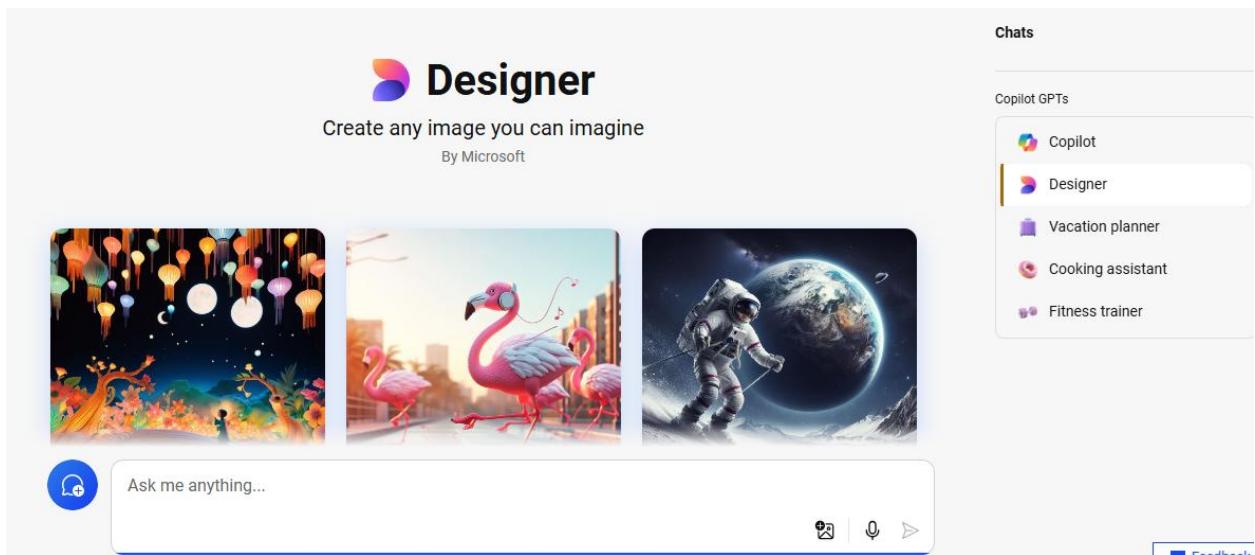
- Generate images of bees with honey.
- Create stylized artwork of filling honey in bottle in forest as background.
- Design a stocks of honey bottles. (**DIY**)

2. Tools/Resources:

- DALL-E for image generation
- Use of neural network-based tools for artistic rendering

Step 1:

Goto Co-pilot:



Step2:

- Write your imagination into prompt: Generate images of bees with honey.

 COPilot NOTEBOOK

bees with honey

- Step 3: Create stylized artwork of filling honey in bottle in forest as background.



filling honey in bottle in forest as background

Designer

Powered by DALL-E 2

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Objective 3: Automate code creation using AI models.

1. Tasks:

- Create functions or algorithms that create a user with name, email, and job-profile.
- Auto-complete code based on partial inputs.
- Generate snippets of code for python program that calculate sum of input numbers. (**DIY**)

2. Tools/Resources:

- GitHub Copilot or similar AI-driven IDE plugins
- Programming language-specific APIs for code generation

Step 1: goto <https://ollama.com/> download and install it



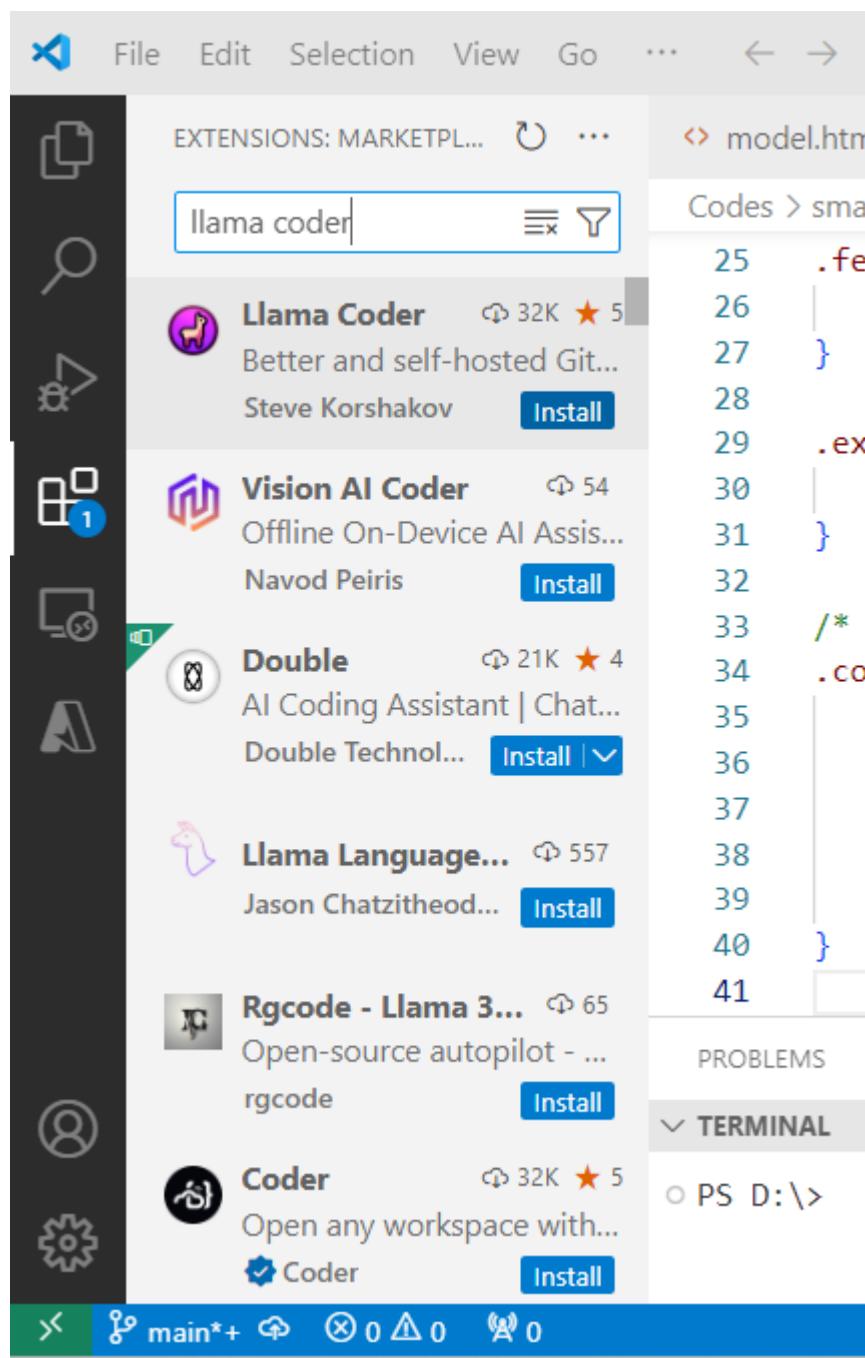
Get up and running with large language models.

Run [Llama 3](#), [Phi 3](#), [Mistral](#), [Gemma 2](#), and other models. Customize and create your own.

[Download ↓](#)

Available for macOS, Linux, and Windows (preview)

Step 2: Open VS Code and install Llama coder plugin



Step 2: In first time it will ask you to download model

7

8

PROBLEMS TERMINAL PORTS OUTPUT AZURE
o problems have been detected in the workspace.

Model stable-code:3b-code-q4_0 is not downloaded. Do you want to download it? Answering "No" would require you to manually download model.

Source: Llama Coder

Yes

No



Ln 2, Col 1

Spaces: 4

UTF-8

CRLF

Python

3.11.0 ('venv': venv)

Llama Coder

Go Live



After this it will look like

v) Llama Coder

Step 4:

Objective 4: Use AI for business and marketing applications.

1. Tasks:

- o Write promotional content for a new product launch (Himalayan honey).
- o Generate meeting link automatically
- o Create market research reports based on industry data.

2. Tools/Resources:

- o AI tools specialized in marketing copywriting
- o Data analytics platforms for market research

Step1: input “Write promotional content for a new product launch (Himalayan honey)” in prompt.

Introducing Himalayan Honey: Pure Nectar from the Rooftop of the World!

Are you ready to experience the golden essence of the Himalayas? Look no further! Our premium Himalayan Honey is a symphony of nature's finest flavors, crafted by bees that dance amidst pristine alpine meadows.

Why Choose Himalayan Honey?

1. **Unspoiled Ecosystem:** Our hives are nestled in the heart of the Himalayan range, where lush forests, crystal-clear streams, and rare flora thrive. The bees feast on wildflowers, creating a honey that's as pure as the mountain air.
2. **Rich in Nutrients:** Himalayan Honey is packed with antioxidants, vitamins, and minerals. It's nature's elixir for your well-being.
3. **Delicate Floral Notes:** Close your eyes and taste the sun-kissed blossoms—jasmine, rhododendron, and wild lavender—all captured in every spoonful.
4. **Sustainably Harvested:** We respect our buzzing partners. Our beekeepers follow ethical practices, ensuring the bees flourish while we collect their liquid gold.

How to Enjoy Himalayan Honey?

- Drizzle it over warm toast or fresh yogurt.
- Sweeten your herbal teas or morning coffee.
- Boost your immunity with a spoonful daily.

Limited Batch: Our first harvest is a celebration of nature's bounty. Don't miss out!

 **Unlock the Himalayan Secret:** Visit our website or your nearest store to savor this rare treasure.

Step 1 Register <https://otter.ai/> for creating auto meeting notes

Step 2 add people in workspace:



2 of 2

Invite teammates to your workspace

Try it with your coworkers for FREE and boost everyone's productivity.

Type or paste emails here, separated by comma, space, or semicolon.

Let teammates with an @gmail.com email join this Otter workspace



Next

Acme Workspace

Minutes transcribed	Meetings	Active	Meeting notes
12,014	3,300	80	2,248

Name	Role	Meetings	Last active
Madison Evans	Owner	240	24 hours
Charlie Tse	Admin	212	8 hours
Lisa Smith	Member	140	Now
Jane Edwards	Member	80	2 hours

Step 3: Set meeting

#sales-team ▾

Olli Otter.ai APP 9:30

Team Wins Meeting

May 2, 2023 • 30 minutes • Owner: Jane Edw

Summary

00:03 Welcome
02:40 Record Q1 sales
05:04 Customer feedback
10:42 Prioritize customer requests

[Open in Otter](#)

**Jane Edwards** 9:40

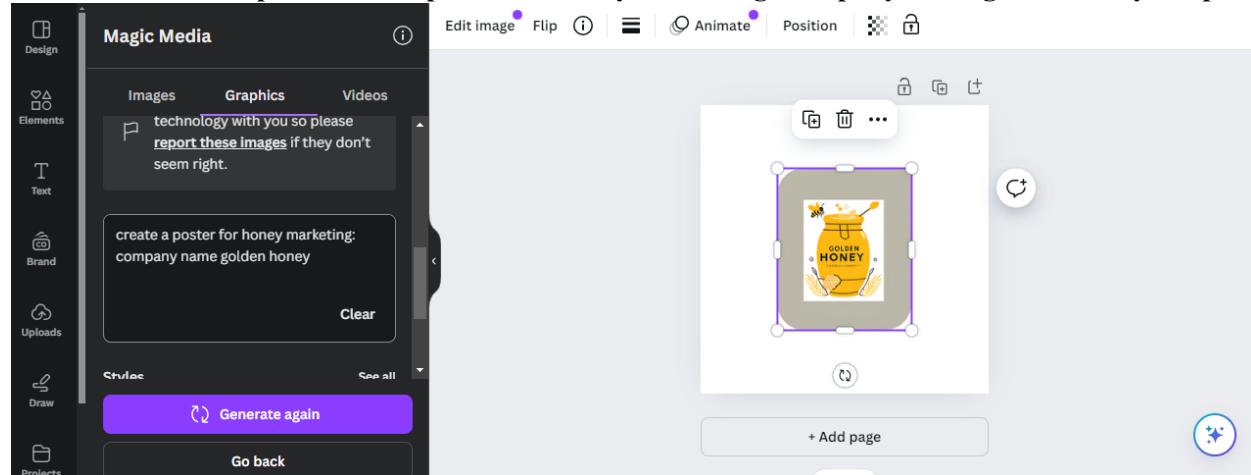
Saw the @ mention and just caught up with the ! Will prepare the forecast for the next meeting.

Objective 5: Explore other applications of AI-generated content. **Tasks:**

- Create a poster for honey marketing with company name Golden Honey.
- Generate poetry. (**DIY**)

Tools/Resources:

- Custom prompts using general-purpose AI models
- Niche-specific AI tools for creative writing and technical documentation

Step:**Use and signup at canva****Choose ai creation put “create a poster for honey marketing: company name golden honey” in prompt****Conclusion:**

In this example, learnings from working with different prompts has been done to generate new information.