

Exno.7-Develop a prompt-based application tailored to their personal needs, fostering creativity and practical problem-solving skills while leveraging the capabilities of large language models.

Date: 19.12.25

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Aim:

To develop a prompt-based application using ChatGPT - To demonstrate how to create a

prompt-based application to organize daily tasks, showing the progression from simple to more

advanced prompt designs and their corresponding outputs.

AI Tools Required:

- ChatGPT*
- Python (optional for simulation)*
- Command Line / Text Interface*

Explanation:

Prompt:

"Design a personal productivity assistant that can help manage daily tasks, schedule

reminders, suggest wellness tips, and answer general queries. The assistant should interact

using natural language and be adaptable to the user's changing preferences over time."

Procedure:

- Define the core requirements of a personal productivity assistant.
- Identify and construct appropriate prompts for each task using an LLM (e.g., ChatGPT).
- Simulate natural user interaction through a simple interface or command-line system.
- Collect feedback or inputs from users and adapt responses accordingly.
- (Optional) Integrate basic memory to simulate preference adaptation.

EXPECTED

OUTPUT: - (attached the drive link) Output (Example Response by LLM):
Personal

Productivity Assistant Features:

- Daily Task Manager: o Accept tasks via natural language (e.g., "Remind me to call mom at 6 PM"). o Organize tasks by priority and deadline. o Provide daily summaries and pending items.

- *Smart Scheduler: Schedule events and set reminders using contextual understanding.*

Notify user of overlapping appointments or free time slots.

- *Wellness Tips Generator:*
 - *Suggest daily wellness advice (hydration, exercise, screen time breaks).*
 - *Adapt suggestions based on past user preferences and responses.*

Prompt Used

Prompt:

“Design a personal productivity assistant that can help manage daily tasks, schedule reminders, suggest wellness tips, and answer general queries. The assistant should interact using natural language and be adaptable to the user’s changing preferences over time.”

Core Requirements Identified

- *Natural language interaction*
- *Task and reminder management*
- *Smart scheduling*
- *Wellness recommendations*
- *Adaptability to user preferences*

Prompt Progression and Outputs

Simple Prompt

Prompt:

Remind me to finish my assignment today.

Output:

Sure! I'll remind you to finish your assignment today.

Refined Prompt

Prompt:

Remind me to finish my assignment by 7 PM and notify me if I haven't started by 5 PM.

Output:

Got it! I'll remind you at 7 PM and check in at 5 PM if the task hasn't been started.

Advanced Prompt

Prompt:

Plan my day with my classes, assignment work, a short workout, and reminders, and suggest

wellness tips based on my busy schedule.

Output: Here's your personalized daily plan:

- Classes: Morning session
- Assignment work: 2 hours in the afternoon
- Workout: 20-minute evening session

Wellness Tip: Stay hydrated and take short breaks between tasks to avoid burnout.

EXPECTED OUTPUT

Personal Productivity Assistant – Example Response by LLM

Personal Productivity Assistant Features:

Daily Task Manager

- Accepts tasks using natural language (e.g., "Remind me to call mom at 6 PM")
- Organizes tasks by **priority and deadline**
- Provides **daily summaries** and pending task notifications

Smart Scheduler

- Schedules events and reminders contextually
- Detects **overlapping appointments**
- Suggests free time slots

Wellness Tips Generator

- Provides daily wellness advice (hydration, exercise, breaks)
- Adapts suggestions based on user preferences and feedback

Result:

The lab exercise resulted in the creation of a prototype concept for a personal assistant

powered by large language models. Students were able to: Understand how to tailor LLM

prompts to real-life applications. Foster creativity by designing features suited to their

personal or academic lives. Learn prompt engineering techniques for optimal interaction with

AI tools. Experience the versatility and utility of generative AI in solving everyday problems.