

AI-Driven Development - 30-Day Challenge Task-3



Task 3 — Official Submission (Updated Version)

Name: Khawaja Naqeeb Uddin

Class Slot: Friday — 6:00 PM to 9:00 PM

Instructor: Sir Hamzah Syed



PART A — Research Questions (Short Answers)

Note: Students must research Gemini 3.0 from official Google AI sources and developer documentation.

1. What new improvements were introduced in Gemini 3.0? (Research and write short answer)

Answer:

As highlighted on the official Google blog , new improvements are:

- Reasoning Capabilities with new Deep-Think mode
- Boost in Agentic Capabilities (plan and execute multi step task)
- Controllable reasoning depth
- Improved long-context understanding (1 million context window)

2. How does Gemini 3.0 improve coding & automation workflows? (Research and write short answer)

Answer:

- "Vibe Coding," allowing developers to build entire web applications from natural language prompts.
- Power full advanced “Autonomous agents” that can operate across editors, terminals, and browsers to execute complex workflows.
- It also introduces “stateful tool” via “Thought Signatures,” ensuring agents retain their chain of thought during multi-step automation tasks.

3. How does Gemini 3.0 improve multimodal understanding? (Research and write short answer)

Answer:

- It synthesizes information across text, images, audio, video, and code simultaneously.
- It allows developers to control **media resolution** (low, medium, high) to balance cost and detail.
- It has the ability to "read" and code directly from **UI screenshots**, analyze long video segments for specific actions, and interpret complex handwritten notes or diagrams with "unprecedented depth and nuance."

4. Name any two developer tools introduced with Gemini 3.0. (Research and write short answer)

Answer:

- **Google Antigravity:** A new agentic development platform where AI agents can operate autonomously across the code editor, terminal, and browser.
- **Gemini CLI:** A command-line interface tool to generate and execute complex shell commands (e.g., Git operations or system debugging).

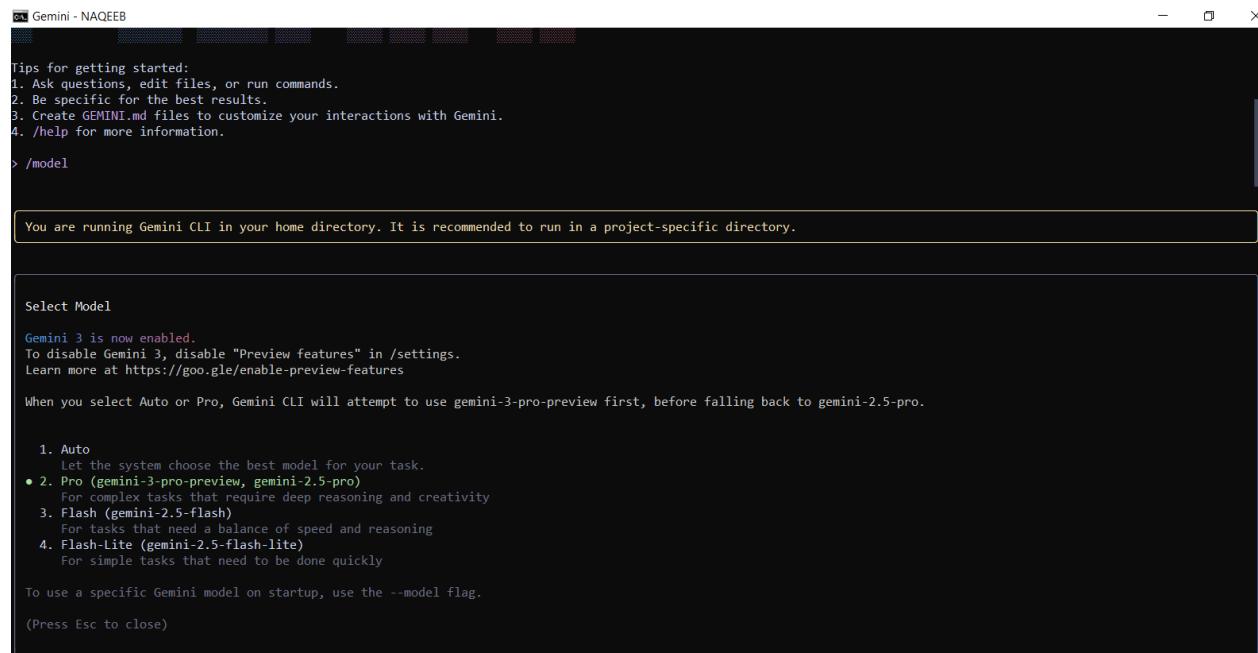
PART B — Practical Task (Screenshot Required)

Task: You must complete the following steps:

Update the Gemini 3.0 model Using the /model command in Gemini CLI,

update the Gemini model to the latest version (3.0).

Note: You do not need to update the CLI itself; only the model should be updated.



```

Gemini - NAQEEB

Tips for getting started:
1. Ask questions, edit files, or run commands.
2. Be specific for the best results.
3. Create GEMINI.md files to customize your interactions with Gemini.
4. ./help for more information.

> /model

You are running Gemini CLI in your home directory. It is recommended to run in a project-specific directory.

Select Model
Gemini 3 is now enabled.
To disable Gemini 3, disable "Preview features" in /settings.
Learn more at https://goo.gle/enable-preview-features

When you select Auto or Pro, Gemini CLI will attempt to use gemini-3-pro-preview first, before falling back to gemini-2.5-pro.

1. Auto
   Let the system choose the best model for your task.
• 2. Pro (gemini-3-pro-preview, gemini-2.5-pro)
   For complex tasks that require deep reasoning and creativity
3. Flash (gemini-2.5-flash)
   For tasks that need a balance of speed and reasoning
4. Flash-Lite (gemini-2.5-flash-lite)
   For simple tasks that need to be done quickly

To use a specific Gemini model on startup, use the --model flag.
(Press Esc to close)

```