

# AIDD 30-Day Challenge — Task 3

## Part A — Research Questions (Short Answers)

### 1. What new improvements were introduced in Gemini 3.0?

Gemini 3 is described by Google as their most intelligent model yet. The major improvements introduced in Gemini 3.0 include

- State-of-the-art reasoning capabilities
- Best model for complex multimodal understanding (across text, image, video, audio, and code) in the world
- Significant advances and support in agentic and vibe coding performance.
- Introduced new features in AI Mode for Search that are Generative UI Interfaces (like visual layout, dynamic view & interactive tools tailored to user queries.)
- Much stronger safety, more resistance to prompt injections, and better protections against misuse.

It also surpasses 2.5 Pro at coding, mastering both agentic workflows and complex zero-shot tasks.

### 2. How does Gemini 3.0 improve coding & automation workflows?

Gemini 3.0 improves coding and automation workflows by being the best model yet for vibe coding (you can describe what you want in natural language for generating apps and UIs) and agentic coding (it can plan and execute multi-step development tasks autonomously). This means it can better plan and follow complex, multi-step instructions, use tools reliably, manage terminal commands, and perform software development tasks with greater autonomy, boosting developer productivity.

There's a CLI tool in the Gemini API which lets the model propose shell commands, so it can automate system-level tasks, navigate file systems, run scripts, etc.

### 3. How does Gemini 3.0 improve multimodal understanding?

Gemini 3.0 is cited as the best model in the world for multimodal understanding. This improvement allows it to seamlessly and deeply analyze text, images, video, audio, and code simultaneously, meaning it handles not just text, but visual reasoning, spatial reasoning, and more complex cross-modal tasks more effectively.

#### 4. Name any two developer tools introduced with Gemini 3.0.

Two developer tools introduced with the Gemini 3.0 launch are:

1. **Google Antigravity:** A new agentic development IDE designed to enable developers to operate at a higher, task-oriented level by managing agents across workspaces.
2. **Gemini CLI (Command Line Interface) integration:** It has been upgraded to integrate the powerful Gemini 3 Pro model, unlocking a new level of performance and productivity in the terminal for executing better commands and agentic coding.

### Part B — Practical Task (With Screenshot)

#### Task:

- 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.

#### My CLI command ( screenshot):

```
> /model

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)
```

*Submitted By: Fatima Faisal*