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**Slot: Friday 06 to 09 PM**

## ***AI-Driven Development - 30-Day Challenge***

### ***Task-3***

#### ***PART A — Research Questions (Short Answers)***

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

**Gemini 3 Pro:** The new flagship model with PhD-level reasoning capabilities and a standard 1 million token context window.

**Deep Think:** A new reasoning mode that thinks and plans before answering, designed for complex math, science, and logic problems.

**Vibe Coding:** A coding capability that adapts to your specific style vibe and can generate interactive apps and UI layouts instantly Generative Interfaces instead of just text.

**Google Antigravity:** A new platform for developers where AI agents can autonomously code, debug, and use the browser/terminal to build software.

**Agentic Action:** The model can now execute multi-step tasks on its own, such as organize my inbox or find and fix a bug, with much higher reliability.

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

Gemini 3.0 changes coding by doing the work for you, not just helping. It introduces **Vibe Coding**, which lets you describe an idea and instantly get a fully working app or website design. It also uses a new tool called **Google Antigravity**,

which allows the AI to act like a real developer it can use your computer's tools to find bugs, run tests, and fix code on its own. Finally, its **Deep Think** mode plans out hard problems step by step before writing, so it handles complex logic much better than before.

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

Gemini 3.0 basically gives the AI human like eyes and ears, allowing it to understand the world much more like we do. Instead of just reading text, it can now watch long videos, listen to hours of audio, and look at messy handwritten notes all at once to figure out exactly what is happening. For example, you could show it a video of you playing a sport, and it can analyze your movement to give you coaching tips, or you can snap a photo of a rough sketch, and it will instantly turn it into a working app. It feels less like using a tool and more like working with a partner who can actually see and hear what you're showing them.

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

- 1. Google Antigravity:** This is a new platform that lets the AI control your computer tools like your code editor and terminal to **fix bugs**.
- 2. Gemini CLI:** This makes typing computer commands easier. You can use **simple, everyday English** instead of long, confusing computer code to get things done.

## ***PART B — Practical Task (Screenshot Required)***

### ***Task:***

Update the Gemini 3.0 model

Using the /model command in gemini CLI, update the gemini model to latest 3.0



```
ips for getting started:  
.. Ask questions, edit files, or run commands.  
.. Be specific for the best results.  
.. /help for more information.  
→ /model  
  
Select Model  
Gemini 3 is now enabled.  
To disable Gemini 3, disable "Preview features" in /settings.  
Learn more at https://google/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)
```

