

## **Task 3 — AI-Driven Development**

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

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

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

Gemini 3.0 introduces **faster response speed, better reasoning, stronger code generation, and much higher multimodal accuracy**. It also improves **tool use, memory, and control over outputs**, making it more reliable for real development work.

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

Gemini 3.0 gives **more accurate code**, understands **entire codebases**, supports **structured outputs**, and works better with **CLI agents**. It reduces bugs, automates repetitive tasks, and improves refactoring, debugging, and documentation generation.

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

Gemini 3.0 has **stronger image, audio, and video understanding**, better OCR, and improved step-by-step reasoning across multiple formats. It can analyze screenshots, diagrams, PDFs, equations, and mixed content more accurately and consistently.

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

- **Gemini Code Assist** (AI coding agent for IDEs and cloud workflows)
  - **Gemini API v2** with structured outputs + function calling  
(Also acceptable: “Gemini Live API”, “Gemini CLI Agents”, “Gemini Flash models”)
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### **PART B — Practical Task**

**Task:** Update the model in Gemini CLI using /model.

The screenshot shows the Gemini CLI interface. At the top, there is a large blue and purple pixelated logo with the word "GEMINI". Below it, a message box displays: "Gemini 3 is now available. Join the waitlist at <https://goo.gle/enable-preview-features>". A "Tips for getting started:" section lists three items: 1. Ask questions, edit files, or run commands. 2. Be specific for the best results. 3. `/help` for more information. Another message box below says: "You are running Gemini CLI in your home directory. It is recommended to run in a project-specific directory." In the terminal area, the command `> /model` is typed, followed by the options `no sandbox (see /docs)` and `auto`. A new message box appears: "You are running Gemini CLI in your home directory. It is recommended to run in a project-specific directory." At the bottom, a "Select Model" section shows the following content:

```
Gemini 3 is now available.  
To use Gemini 3, enable "Preview features" in /settings.  
Learn more at https://goo.gle/enable-preview-features  
  
1. Auto  
   Let the system choose the best model for your task.  
• 2. Pro (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)
```