

AI-Driven Development — 30-Day Challenge

(Task-2 “Theory + Practical”)

PART A – THEORY (SHORT QUESTIONS)

1. Improvements in Gemini 3.0:

Gemini 3.0 introduces deeper reasoning with its new *Deep Think* mode, a massive 1M-token context window, faster performance, stronger multimodal understanding (text, image, audio, video, spatial), and more “agentic” capabilities that let it plan, validate, and take actions more intelligently.

2. Coding & automation improvements:

Gemini 3.0 improves coding by enabling “vibe-coding” from simple natural-language prompts, offering stronger tool-use via terminal and browser, generating and testing code automatically, and performing high-accuracy debugging and workflow automation with far better agent performance.

3. Multimodal understanding improvements:

Gemini 3.0 handles images, videos, audio, and documents with higher accuracy, offers better spatial and visual reasoning, understands complex layouts like tables and diagrams, and allows configurable vision processing for clearer, more detailed multimodal analysis.

4. Two developer tools in Gemini 3.0:

Two new developer tools include:

- **Google Antigravity** (an agent-first development environment)
- **Gemini CLI** (a command-line tool for coding, automation, and testing with Gemini).

PART B – PRACTICAL TASK

Screenshot:

The screenshot shows a terminal window titled "Gemini - task". The window contains the following text:

```
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  
  
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)
```