

AI-Driven Development - 30-Day Challenge

Task-3

PART A – Research Questions (Short Answers)

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

Answer: Gemini 3.0 introduces major advancements in reasoning, agentic capabilities, and multimodal processing. Key improvements include:

- Enhanced Reasoning & "Thinking" Mode: It features a new, specialized "Thinking" mode (with settings like `thinking_level: "high"`) that allows the model to perform deeper, chain-of-thought reasoning for complex problems in math, science, and logic, similar to OpenAI's o1 models.
- Agentic Development Platform (Google Antigravity): A new IDE-style platform was launched, designed for "agent-first" development where AI agents can autonomously work across editors, terminals, and browsers.
- Improved Performance & Multimodality: It demonstrates significantly stronger reasoning and reliability (over 50% better on some benchmarks) and offers enhanced native understanding across text, images, video, audio, and code within a larger context window.

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

Answer: Gemini 3.0 transforms coding and automation by enabling the AI to act as an autonomous agent. It can manage multi-step, complex tasks by planning, executing code, using tools, and debugging errors. The integration with tools like the Gemini CLI and the Google Antigravity platform allows developers to offload setup and repetitive tasks, making the AI an active partner in the workflow rather than just a code-completion tool.

Question 3. How does Gemini 3.0 improve multimodal understanding?

Answer: Gemini 3.0 improves multimodal understanding by moving beyond simply processing different data types (text, images, video, audio, code) in isolation. It natively combines and reasons over all these modalities at once within a larger context window. This allows it to synthesize complex, multi-format information—like analyzing a

screenshot with annotations, charts, and text—to produce more insightful responses and drive agentic workflows.

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

Answer: Two key developer tools introduced with Gemini 3.0 are:

1. Google Antigravity: An agentic development platform (IDE) that allows AI agents to operate autonomously across the editor, terminal, and browser.
2. Gemini CLI: A command-line interface tool that integrates Gemini 3.0 directly into terminal-based workflows for tasks like shell commands, code generation, and automation.

PART B – Practical Task (Screenshot Required)



The screenshot shows the Gemini CLI interface. At the top, there is a colorful pixel-art logo consisting of a blue and purple abstract shape followed by the word "GEMINI" in a stylized font. Below the logo, the text "ips for getting started:" is displayed, followed by three bullet points: ". Ask questions, edit files, or run commands.", ". Be specific for the best results.", and ". /help for more information.". A command "/model" is shown below this text. A message "You are running Gemini CLI in your home directory. It is recommended to run in a project-specific directory." is displayed in a box. A "Select Model" section follows, containing the text "Gemini 3 is now available. To use Gemini 3, enable "Preview features" in /settings. Learn more at <https://goo.gle/enable-preview-features>". Below this, a list of models is provided with descriptions:

- 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

A note at the bottom says "To use a specific Gemini model on startup, use the --model flag." and "(Press Esc to close)".