

# 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 introduce new parameters that give developers control over cost, latency and multimodal.

1. **Thinking level:** This parameter controls the model internal reasoning process before it produces response.
2. **Media resolution:** Gemini 3.0 introduce control over multimodal vision processing via **media-resolution** parameter. If the resolution is set high then it improves the ability to read small text ad tiny details but increases cost and latency.
3. **Agentic Capabilities:** It is better at being an “agent” than previous model.
4. **Image generation:** Gemini 3 Pro Image uses reasoning to “think” through a prompt and retrieve real-time data before generating image.

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

Gemini 3.0 acts more like a human “Junior Developer”. You can give it a vague idea or goal like (“Build a website for my particular business”), and now it can plan the steps, write the code, and even fix its own mistake inside its coding workspace.

- **Google Antigravity:** It is the platform where the AI works alongside you in your code editor, capable of editing multiple files and running commands.
- **Autonomous Workflows:** Now, It can plan multi-step coding project, execute code and debug it without human help.
- **Visual Prototyping:** It can now create working user interface (UI) for developer from simple prompt.

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

Gemini 3.0 doesn't look at (text, images, hearing audio, watching video) separately, it understand them together and in much more detail. **Example:** “It can watch video and read PDF at the same time to answer user question,”

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

1. **Google Antigravity:** A new “agentic” development platform where ai agents works together to build software.
2. **Gemini CLI:** A command-line tool that let’s developer to use it from their computer terminal.