SOBIA RAO
CLASS SLOT: FRIDAY — 6:00 PM TO 9:00 PM

AI-DRIVEN DEVELOPMENT — 30-DAY CHALLENGE— TASK 3

PART A — Research Questions (ShortAnswers)

What new improvements were introduced in Gemini 3.0?

Better reasoning:

Gemini 3 Pro can handle complex, multi-step tasks more accurately.

Larger context window:

Can process more text, images, and other inputs simultaneously.

Enhanced safety: Stronger protections against misleading prompts or misuse.

Multimodal capabilities: Improved understanding of text, images, videos, and spatial reasoning.

Deep Think mode: Optimized for research-heavy or detailed problem-solving.

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

Agentic coding:

Gemini 3 agents can plan tasks, write code, and use tools autonomously.

Google Antigravity:

New development platform allowing agents access to code editors, terminal, and browser for automation.

Structured outputs:

Supports schema-based outputs to coordinate tasks and streamline automation.

Interactive app creation:

Users can provide natural language prompts, and Gemini 3 generates working code or UI automatically.

3)How does Gemini 3.0 improve multimodal understanding?

Visual reasoning:

Understands images not just as pixels but for their meaning and structure.

Spatial reasoning:

Can process object locations and movements—useful for robotics or screen-based agents.

Video reasoning:

Handles long video contexts and extracts important information

Large context window:

Combines text, images, and videos in a single coherent understanding.

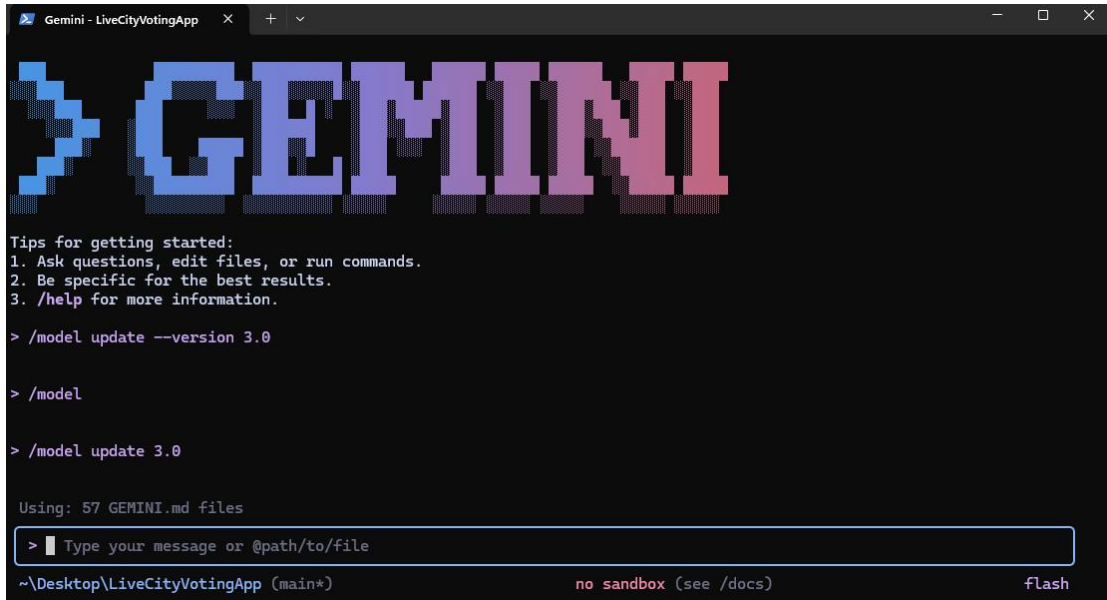# 4. Name any two developer tools introduced with Gemini 3.0.

Google Antigravity:

An agent-first development IDE where agents can autonomously interact with code editor, terminal, and browser.

Gemini API (new version):

Supports structured and schema-based outputs, usable with Google AI Studio or Vertex AI.