Name: Zeenat Somroo

Roll no: 00056651

Part A Theory (Short Questions)

Nine Pillars & AI Agents

AI tools like Gemini CLI handle repetitive setup tasks, freeing developers to focus on system design and architecture.

The Nine Pillars of AI-Driven Development (AIDD) guide developers toward becoming M-Shaped (deep expertise in coding/architecture + broad skills in planning, testing, collaboration).

Vibe Coding vs Specification-Driven Development

Vibe Coding: Fast at first but leads to messy, untested, hard-to-maintain code.
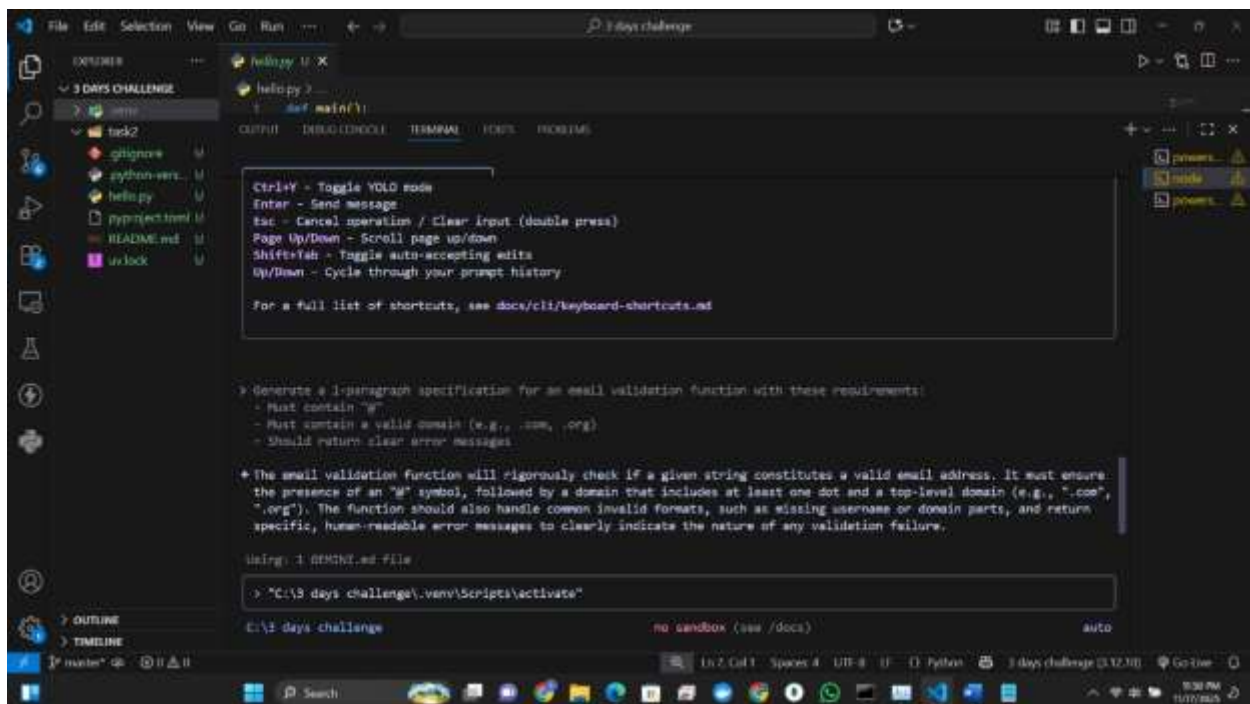
Specification-Driven Development (SDD): Starts with clear requirements and tests, ensuring maintainable, reliable, and extensible systems.

Architecture Thinking

Developers shift from writing raw code to designing systems and orchestrating AI agents.

Layered/system thinking ensures scalability, maintainability, and proper validation.

Part B — Practical Task

📌 Part C — Multiple Choice Questions (with correct answers)

Biggest mindset shift in AIDD → Thinking in systems and clear instructions.

Biggest failure of Vibe Coding → Architecture becomes hard to extend.

Advantage of AI CLI agents → Handle repetitive tasks so developers focus on design/problem-solving.

Definition of M-Shaped Developer → Deep skills in multiple related domains.