

# AIDD 30-DAYS CHALLENGE — TASK 2

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**Class Slot: Friday — 6 PM to 9 PM**

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## PART A — NINE PILLARS UNDERSTANDING

**Q1: Why is using AI Development Agents (like Gemini CLI) for repetitive setup tasks better for your growth as a system architect?**

AI Development Agents repetitive setup tasks ko automate kar dete hain, jisse developer ka time aur energy waste nahi hoti.

Is se developer boring manual work me phansne ke bajaye **system design, architecture planning aur strategic decision-making** par focus kar sakta hai.

Yeh wo skills hain jo kisi developer ko **system architect** banne me help karti hain — isliye AI agents growth ko accelerate karte hain.

**Q2: Explain how the Nine Pillars of AIDD help a developer grow into an M-Shaped Developer.**

Nine Pillars developer ko M-Shaped banane me is tarah help karte hain:

- Repetitive work AI ko dekar developer **higher-level thinking** par focus karta hai.
- Deep technical skills jaise **architecture, security, system integration** develop hoti hain.
- Broad skills jaise **AI tools, DevOps, cloud, automation** ka exposure milta hai.
- Developer ke paas **depth + breadth** dono aa jati hain, jo M-Shaped skillset hota hai.

## PART B — Vibe Coding vs Specification-Driven Development

### Q3: Why does Vibe Coding usually create problems after one week?

Vibe Coding me planning aur discipline nahi hota.

AI se jaldi banaya gaya code pehle chal jata hai, lekin:

- errors
- bugs
- inconsistency
- technical debt

1 week ke baad barhna start ho jata hai.

Is wajah se project ko maintain aur scale karna mushkil ho jata hai.

### Q4: How would Specification-Driven Development prevent those problems?

Specification-Driven Development clear planning deta hai.

Ismen:

- code structured hota hai
- errors kam hotay hain
- requirements pehle se defined hoti hain
- AI ko clear instructions milti hain

Is structure ki wajah se bugs, confusion aur rework dramatically reduce ho jata hai.

### Q5: Explain why developers must think in layers and systems instead of raw code.

Raw code sirf ek choti problem solve karta hai.

Lekin layered aur system-thinking developer ko poora architecture samjhati hai — jaise:

- UI Layer

- Logic Layer
- Data Layer
- Security Layer

Is tarah software **scalable, maintainable, and efficient** banta hai.

Ye approach ek **architect ki thinking** hoti hai — sirf coder ki nahi.

## PART C — MCQs (Solved)

1. What is the main purpose of Spec-Driven Development?  
✓ B. Clear requirements before coding begins
2. What is the biggest mindset shift in AI-Driven Development?  
✓ B. Thinking in systems and clear instructions
3. Biggest failure of Vibe Coding?  
✓ B. Architecture becomes hard to extend
4. Main advantage of using AI CLI agents (like Gemini CLI)?  
✓ B. Handle repetitive tasks so dev focuses on design & problem-solving
5. What defines an M-Shaped Developer?  
✓ C. Deep skills in multiple related domains