

AIDD 30 DAYS-CHALLENGE (TASK-02)

By FARIDA BANO

AI Tool Landscape (In My Own Words)

1. **Claude Code**

Claude Code ek AI-assisted coding tool hai jo programming aur collaboration mein help karta hai. Yeh developers ko code likhne, debug karne, aur explain karne mein support deta hai. Isse aap code snippets generate kar sakte hain, errors fix kar sakte hain, ya phir naye features design kar sakte hain — all through simple conversations.

2. **Gemini CLI**

Gemini CLI command-line interface hai jo AI-based interactions ko enable karta hai. Aap isse terminal ya command-line par use kar sakte hain, jaise Claude Code ki tarah, lekin ye specially command-line workflows ke liye optimized hai. Aap queries pooch sakte hain, scripts generate kar sakte hain, ya system tasks automate kar sakte hain.

3. **Bash (Command Line)**

Bash ek command-line shell hai jo aapko computer se directly commands dekar communicate karne ki ability deta hai. AI-integrated workflows mein, aap Bash use kar ke AI tools ko call kar sakte hain, files manage kar sakte hain, aur repetitive tasks automate kar sakte hain.

4. **Git & GitHub (Safety Net)**

Git ek version control system hai jo aapke code changes ko track karta hai. GitHub ek platform hai jahan aap apna code store aur share kar sakte hain. "Safety Net" ka matlab hai ke aap Git/GitHub ko aise use karen ke AI-generated code bhi safely manage ho — changes review ho, backups banke, aur collaboration easy ho.

Python — The Language of AI Agents

Python AI systems ki universal language hai. Is section mein hum Python ko AI-native way seekhenge — yaani syntax ratne ki bajaye, concepts deeply samjh kar AI ke saath collaborate karna. Aap Python use karke AI workflows bana sakte hain, tasks automate kar sakte hain, aur intelligent systems design kar sakte hain — AI ko apna coding partner bana kar.

Key Takeaway:

Aap Python ko creative language ki tarah use karna seekhenge — sirf code likhne ke liye nahi, balki AI ke saath milkar intelligent applications banane ke liye.

Task: Gemini CLI Setup & Execution

Example Command (Gemini CLI):

```
npm install -g @google/gemini-cli
```

```
npx @google/gemini-cli
```

Screenshot:

```
-- Gemini - sarosh -- node - gemini-cli TMPDIR=/var/folders/vj/zk1m8595r7ba516tab47nh0000qy/T/...CFBundleIdentifier=com.apple.Terminal

> GEMINI

Gemini 3 is now available.
Join the waitlist at https://goo.gle/enable-preview-features

Tips for getting started:
1. Ask questions, edit files, or run commands.
2. Be specific for the best results.
3. Create GEMINI.md files to customize your interactions with Gemini.
4. /help for more information.

You are running Gemini CLI in your home directory. It is recommended to run in a project-specific directory.

- | Type your message or @path/to/file
+
no sandbox (see /docs)
auto | * 1 error (F12 for details)

GEMINI

Gemini 3 is now available.
Join the waitlist at https://goo.gle/enable-preview-features

Tips for getting started:
1. Ask questions, edit files, or run commands.
2. Be specific for the best results.
3. Create GEMINI.md files to customize your interactions with Gemini.
4. /help for more information.

> hi
+ Hi there! How can I help you today?

> how are you
+ I'm functioning as expected. How can I assist you with your software engineering tasks today?

You are running Gemini CLI in your home directory. It is recommended to run in a project-specific directory.

shell mode enabled (esc to disable)

- | Type your message or @path/to/file
```

MCQs

MCQs (Answered by Selecting A, B, C, or D)

1. **Claude Code kya hai?**
c) Ek AI-assisted coding tool
2. **Gemini CLI kis type ka tool hai?**
c) Command-line interface tool
3. **Bash ke baare mein kya sahi hai?**
c) Yeh ek command-line shell hai jo computer se direct communicate karne mein madad karta hai.

4. **Git & GitHub ko "Safety Net" kyun kaha gaya hai?**
b) Kyonki yeh AI-generated code ko safely manage karne mein madad karte hain, changes ko track karte hain.
5. **Git ka mukhya upyog kya hai?**
b) Version control aur code changes ko track karna
6. **Python ko "The Language of AI Agents" kyun kaha jata hai?**
b) Kyonki yeh universal language hai AI systems ki.
7. **Python AI systems mein kyun popular hai?**
b) Kyonki iska simple syntax aur rich libraries/ecosystem hai
8. **Is challenge ke andar Python seekhne ka kya mukhya uddeshya hai?**
b) AI ke saath milkar intelligent applications banana seekhna
9. **Kis tool ko specifically command-line workflows ke liye optimized kaha gaya hai?**
b) Gemini CLI
10. **"AI-native way" se Python seekhne ka kya matlab hai?**
b) Concepts ko deeply samajh kar AI ke saath collaborate karna

GitHub Repository Link

<https://github.com/farida-bano/AIDD-30-Day-Challenge-fb.git>

Prepared by: Asma Yaseen

Supervised by: Sir Hamzah Syed