

# Lab Notebook

SHIVA  
for  
SUMMER INTERNSHIP

**May 5<sup>th</sup>, 2025- July 21<sup>st</sup>, 2025**

## June 5<sup>th</sup>

- Completed Reading Chapter 1 of “Learning the bash Shell”.
- Installing WSL for windows
- Creating Git Hub Repository for sharing my collaborative work

## June 6<sup>th</sup>

- Continued Reading Chapter & Practiced file handling, navigation, wildcards, redirection, pipes, and background jobs using WSL.
- Tested pwd, cd, ls, mkdir, touch, cp, mv, rm, echo, cat, sort, jobs, etc.
- Ran command pipelines and I/O redirection examples in WSL.

## June 7<sup>th</sup>

- Completed the compilation and recording of the Chapter 1 explanation video, including both theoretical concepts and practical Bash command demonstrations.

## June 8<sup>th</sup>

- Began **Chapter 2: Command-Line Editing**.
- Learned how to **enable command-line editing** in Bash.
- Understood the role and usage of the **command history list**.
- Practiced recalling and reviewing previously executed commands.
- Started using **keyboard navigation** to move through command lines efficiently.

## June 9<sup>th</sup>

- Studied and practiced **emacs editing mode** including:
- Cursor movement within lines and words.
- Deleting, copying, and pasting portions of the command line.
- Switched to **vi editing mode** and practiced basic commands:
- Entering insert mode, editing text, and navigating the command line.
- Learned about the **fc command**, which allows viewing and editing previous commands using a text editor.

## June 10<sup>th</sup>

- Completed the remaining sections of Chapter 2, including:
  - History expansion, allowing reuse of earlier commands.
  - Readline library features and basic keybinding concepts.
  - Developing efficient keyboard habits for improved Bash usage.
- Prepared PowerPoint slides summarizing Chapter 2 topics.
- Recorded the explanation video covering theory and command-line editing demonstrations.



