

# 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>**

- Uploaded the video of chapter 1 in classroom.
- 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.

## June 11

- Started reading **Chapter 3: Customizing Your Environment** from *Learning the bash Shell*.
- Learned about the different Bash startup files like `.bash_profile`, `.bashrc`, and `.bash_logout`.
- Understood when each file runs and what it's used for.
- Tried a few basic customizations in `.bashrc`, like changing the prompt and setting environment variables.

