

Lab Notebook

SHIVA

for

SUMMER INTERNSHIP

May 5th, 2025- July 21st, 2025

Table of Contents

June 5th

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

June 6th

- 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 7th

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

June 8th

- 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 9th

- 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 10th

- 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.

