

# **LAB RECORD**

**Summer Internship-2025**

**TOPIC: Learning Bash Script Basics**

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26<sup>th</sup> May 2025-21<sup>st</sup> July 2025

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## WEEK-1

Monday-26<sup>th</sup> May 2025

**a. Setting up a GitHub account**

Created a GitHub account to maintain a Lab record throughout the internship period. Created a repository [GayathriSP24/Summer-Internship-2025: Summer Internship-2025 May 26- July 21](#) to enter daily records.

**b. Setting up the Linux Platform**

Tried setting up MobaXterm, which seemed to have trouble functioning on the PC. Later, with a friend's help, I was able to set up WSL and Ubuntu, saving the day. Did run some random commands to see if it is working. So, at the end of the day, I have learnt that WSL is already in our Windows 10 and 11 PC, but by turning it on and installing Ubuntu you can run a Linux terminal on a Windows PC.

Tuesday-27<sup>th</sup> May 2025

**a. Working on PPT**

After reaching the lab at 9:30, I started working on the presentation for the chapter Bash basics, while trying out every command I came across. Since I needed to brush up on the first 2 chapters before moving to the 3<sup>rd</sup> Chapter, I decided to revise while making the PPT. Got to know a lot regarding the format of each command to run on a terminal, which I started to record in a Word document. Also, after talking with a friend in the lab, I have decided to try working in VS Code and Notepad to take down. At the end of the day, I have completed the presentation.

**b. Updating the Repository**

After uploading yesterday's lab record in a Word document last night, it was today that I realised that you can't update the Word document on the platform. So, I converted it to a PDF and uploaded it.

Wednesday-28<sup>th</sup> May 2025

**a. Working on PPT**

After reaching the lab at 9:30, I started working on the presentation for the chapter Command-line editing, the second chapter of the book, while brushing up on the topics. I was able to complete up to 2.4. I learnt that my default is vi mode and how

to shift to emacs editing mode. I am currently working on the command keys of Emacs one by one while making the presentation.

### **b. Setting up and working on VS Code**

I have installed VS Code in between and shifted to its terminal while using Notepad to copy commands. While working on VS code, I realised that although better to save the commands, VS code at times intercepts certain control keys, like Ctrl+E, etc.

## **Thursday-29<sup>th</sup> May 2025**

### **a. Working on PPT**

Today's target was to complete Chapter 2 in terms of reviewing and presentation, and to finish the video for Chapter 1 for submission. After arriving at the lab at 9:45, I began working on the presentation using Ubuntu. By 4:15 pm, I had completed the presentation and revised it.

### **b. Video recording- Chapter 1**

By evening, I worked on recording the video using the presentation for chapter 1, which I submitted via Google Classroom. In the end, I submitted this lab record for the day.

## **Friday-30<sup>th</sup> May 2025**

### **a. Learning Chapter 3**

After arriving at 9:30, I started studying chapter 3, which is about customising our working environment. I was able to complete topics such as special files, Options, and the alias command. Currently, I have reached the shell variables. Throughout the day, I was able to work more efficiently in VS Code compared to how I was at the beginning of the week.

## **Saturday-31<sup>th</sup> May 2025**

### **a. Video recording - Emacs editing mode.**

Today I decided to work from my room instead of the lab. I have been working on the video part of chapter 2. I recorded the Emacs editing mode in the terminal for the PPT.

## WEEK- 2

Monday-2<sup>nd</sup> June 2025

a. Working on chapter 3

I clocked in at 9:45 am and started working on studying chapter 3 about customising The environment while working on VS Code. By 5 pm, I was left with 12 pages of the chapter, which will be completed by tomorrow.

Tuesday-3<sup>rd</sup> June 2025

a. Completed chapter 3

I clocked in at 9:45 am and started working on completing chapter 3. I was able to finish it by 12. Then, I started reading chapter 4.

Wednesday-4<sup>th</sup> June 2025

a. Working on chapter 4

I clocked in at 9:45 am and started working on chapter 4. Today's target is to complete 1/3<sup>rd</sup> of the chapter.

Thursday-5<sup>th</sup> June 2025

a. Working on chapter 4

I clocked in at 10:00 am and started working on chapter 4. Today's target is to complete the next 1/3<sup>rd</sup> of the chapter, which is up to page 285. I did my first program script for sorting a list of musicians with their number of albums. Since I haven't reached conditional statements, I couldn't do it with them. Hopefully, I will be able to start working on it by next week.

```
gayat@GSP-HP:~$ count=5
sort -nr musician.sh | head -n "${count:-10}"

5      Depeche Mode
3      Simple Minds
2      Split Enz
1      Vivaldi, Antonio
```

b. Recording PPT for chapters 2 and 3

I started working on recording the video for the week, based on chapter 2. Then I started working on the PPT for chapter 3. At the end of the day, I submitted my video, and the lab record was uploaded to the repository.

Friday-6<sup>th</sup> June 2025

a. Working on chapter 4

Today, due to some personal reasons, I decided to work from my room where I worked on chapter 4.