File Viewing and Editing

- grep

 What: Searches for patterns in a file or output.
 Example: grep "error" log.txt (Find lines containing "error").

 pipe (I)

 What: Passes the output of one command as input to another.
 Example: ls | grep ".txt" (Lists .txt files).
- 3. ls
- What: Lists files and directories.
- o **Examples**:
 - ls (basic list),
 - 1s -1 (detailed list),
 - 1s -a (includes hidden files).
- 4. cat
 - o What: Displays, creates, or concatenates files.
 - o Examples:
 - cat file.txt (View file content),
 - cat > file.txt (Create and write to a file),
 - cat file1.txt file2.txt > file3.txt (Merge files into file3.txt).

Copying and Moving Files

- 1. cp
- What: Copies files and directories.
- Options:
 - -i: Interactive (prompt before overwriting),
 - -v: Verbose (show progress),
 - -u: Update only if source is newer.
- o **Examples**:
 - cp file1.txt file2.txt (Copy file1.txt to file2.txt),
 - cp -r dir1 dir2 (Copy directory dir1 to dir2).
- 2. mv
- What: Moves or renames files and directories.
- o **Example**: mv file1.txt newname.txt (Rename file).

Finding Files

- 1. find
 - o What: Searches for files and directories.
 - o Options:
 - -name: Case-sensitive search,
 - -iname: Case-insensitive search,
 - -type f: Search only for files.

- Examples:
 - find . -name "file1.txt" (Find file1.txt in the current directory),
 - find . -name "*.txt" -exec grep "ERROR" {} \; (Find .txt
 files with "ERROR").

Sorting

- 1. sort
 - What: Sorts the content of a file.
 - Options:
 - -u: Remove duplicates,
 - -r: Reverse order,
 - -k: Sort by specific column.
 - o Examples:
 - sort file.txt,
 - sort -k 2 file.txt (Sort by the second column).

Disk and Directory Commands

- 1. **df** -h
 - What: Shows disk space usage in human-readable format.
 - o Example: df -h | sort -k 4 (Sort by size).
- 2. mkdir
 - o **What**: Creates a new directory.
 - **Example:** mkdir newfolder.
- 3. rm
- What: Deletes files or directories.
- Options:
 - -i: Interactive prompt before deleting,
 - -d: Delete an empty directory.
- o **Example**:
 - rm file.txt,
 - rm -r folder/ (Delete directory).

Vi Editor Commands

- 1. Navigation:
 - o \$: Move to the end of the line,
 - o :1: Go to line 1,
 - o /word: Search for a word, press n for next, N for previous.
- 2. **Settings**:
 - o :set number: Show line numbers,

- o :set nonumber: Remove line numbers,
- o :set paste: Avoid formatting issues when pasting text.

3. **Split Windows**:

- o :split filename (Horizontal split),
- o :vsplit filename (Vertical split),
- o Use Ctrl + w to switch between splits.

4. Find and Replace:

o :%s/oldword/newword/g (Replace globally in the file).