


Day-6

1. Listing & Managing Files

- `ls -lrt`
 - Lists files in **long format**, sorted by **modification time (oldest first)**.
 - `rm -rf *`
 - Removes **all files and directories** in the current folder **forcefully** (`-f`) and **recursively** (`-r`).
 -  **Irreversible, use with caution!**
 - `touch {a..z}.txt`
 - Creates **26 empty files** named `a.txt` to `z.txt`.
 - `cp -rf b.txt /mnt/c/`
 - Copies `b.txt` to `/mnt/c/`, overwriting if necessary (`-f`).
 - `cp -rf b.txt /mnt/c/Users/srs33/`
 - Copies `b.txt` to the specified **Windows path** in WSL.
 - `cp -rf a /mnt/c/Users/srs33/`
 - Copies the **directory a** and its contents to `/mnt/c/Users/srs33/`.
 - `rm -rf /mnt/c/Users/srs33/a`
 - Removes the **directory a** from `/mnt/c/Users/srs33/`.
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2. Permissions Management

- `chmod -R 777 a`
 - Grants **read (r)**, **write (w)**, and **execute (x)** permissions to **everyone (777)** for the **directory a** **recursively** (`-R`).
 - `chmod -R 700 b`
 - Grants **full permissions (rwx)** only to the **owner**, **no access** to others.
 - `chmod 720 b`
 - **Owner:** Read & write (7 = rwx)
 - **Group:** Write only (2 = w)
 - **Others:** No access (0)
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3. File & Directory Navigation

- `cd a`
 - Moves into the **directory a**.
 - `cd ..`
 - Moves **one directory up**.
 - `cd /mnt/c/Users/srs33/`
 - Navigates to the Windows user directory in **WSL (Windows Subsystem for Linux)**.
 - `cd`
 - Moves to the **home directory** (`~`).
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4. Searching for Text in Files

- `grep -Ril "jinesh"`
 - **Searches recursively** (`-R`) for the text `"jinesh"` in all files.
 - **Displays only filenames** (`-l`) that contain the match.
 - **Ignores case sensitivity** (`-i`).
 - `grep -Ril "jinesh" /mnt/c/Users/srs33/`
 - Searches for `"jinesh"` in files inside `/mnt/c/Users/srs33/`.
 - `man grep`
 - Displays the manual for the `grep` command.
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5. Viewing & Editing History

- `history`
 - Displays a **list of previously executed commands**.
 - `vi .bash_history`
 - Opens **command history** in `vi` editor for viewing/editing.
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6. Disk Space & File System Information

- `df -h`
 - Displays **disk usage** in **human-readable format** (`-h` = GB, MB, KB).
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7. Manual Pages (Help)

- `man ls`
 - Displays the **manual (help)** for the `ls` command.
 - `man grep`
 - Displays the **manual (help)** for the `grep` command.
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Key Takeaways

- ✓ **File Management:** `ls`, `rm`, `touch`, `cp`
- ✓ **Permissions:** `chmod 777`, `chmod 720`
- ✓ **Navigation:** `cd`, `cd ..`
- ✓ **Searching Files:** `grep -Ril`
- ✓ **History Management:** `history`, `vi .bash_history`
- ✓ **Disk Space Check:** `df -h`
- ✓ **Manual Pages:** `man <command>`