### **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/.

## **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)

## **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** (~).

## **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.

## **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).

## **7. Manual Pages (Help)**

* man ls
  + Displays the **manual (help)** for the ls command.
* man grep
  + Displays the **manual (help)** for the grep command.

### **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>