**Title: Linux Command List Assessment**

**Assignment 1**

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**Instructions:-**

The following assessment aims to test your understanding and practical knowledge of various Linux commands. Perform the tasks given below using the appropriate commands. Write down the command(s) used to complete each task. You can use any Linux distribution or command-line interface of your choice. Ensure that you provide the correct output or results for each task.

**File and Directory Operations:**

ls: List files and directories



cd: Change directory



pwd: Print working directory



mkdir: Make directory



touch: Create an empty file

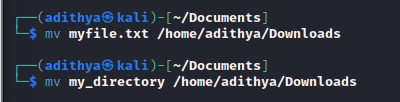


cp: Copy files and directories

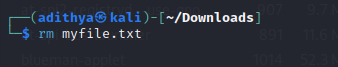


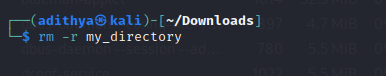


mv: Move or rename files and directories

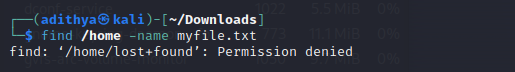


rm: Remove files and directories



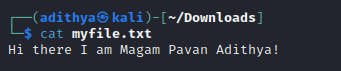


find: Search for files and directories



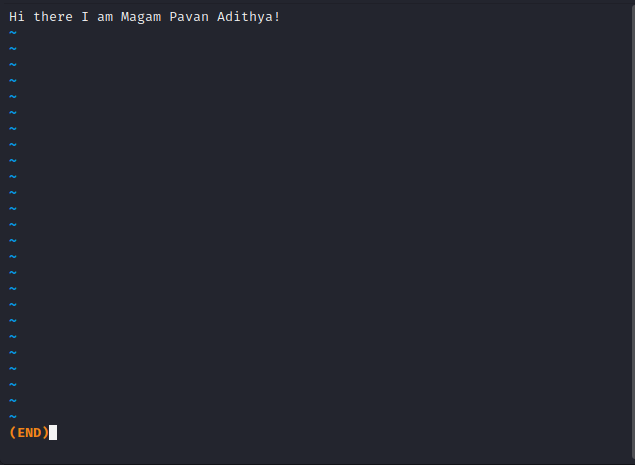
**File Viewing and Editing:**

cat: Concatenate and display file content

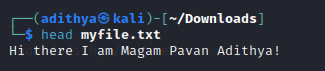


less: View file content with pagination

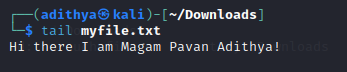




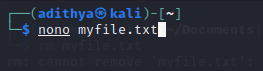
head: Display the beginning of a file

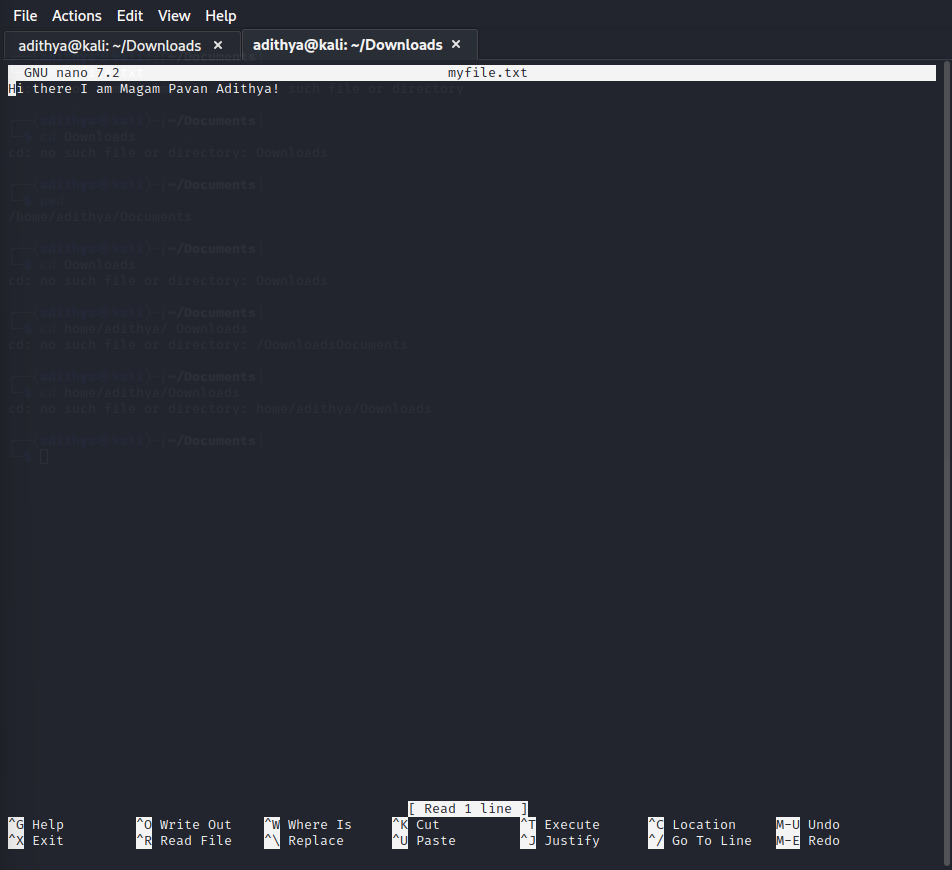


tail: Display the end of a file

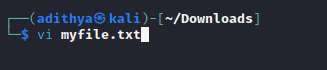


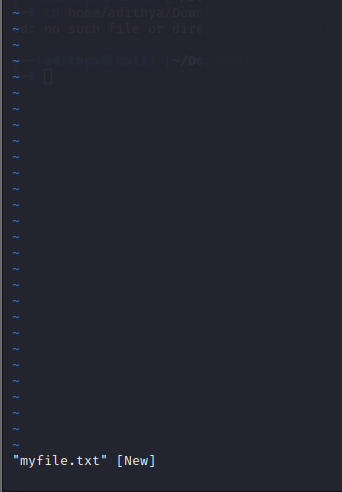
nano: Text editor for creating and editing files





vi/vim: Powerful text editor for experienced users





**File Permissions:**

chmod: Change file permissions



chown: Change file owner

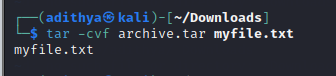


chgrp: Change file group



**File Compression and Archiving:**

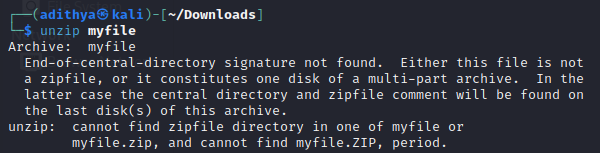
tar: Archive files



gzip: Compress files

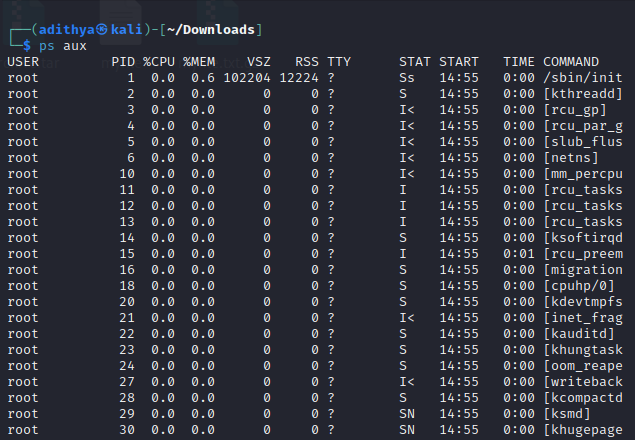


unzip: Extract files from a ZIP archive

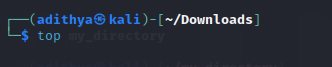


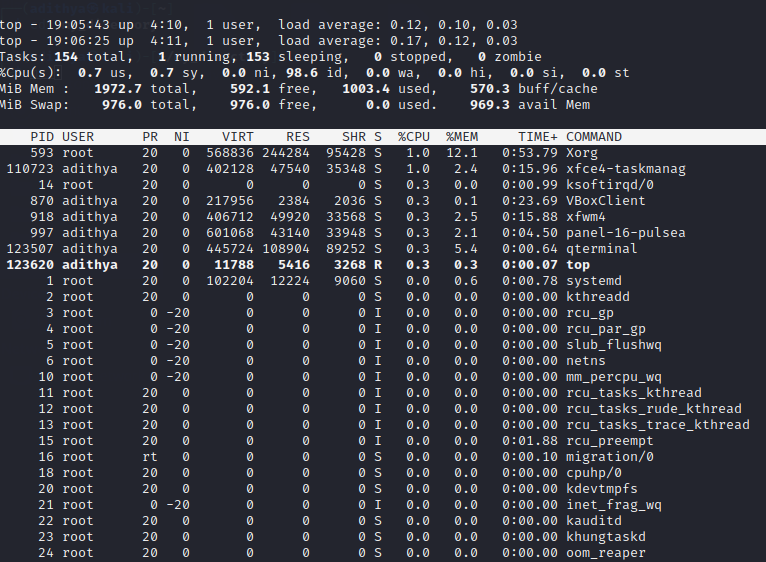
**Process Management:**

ps: List running processes

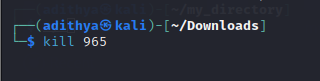


top: Display real-time system information and processes

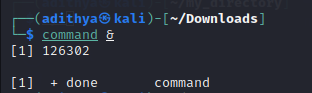




kill: Terminate processes



bg: Run processes in the background

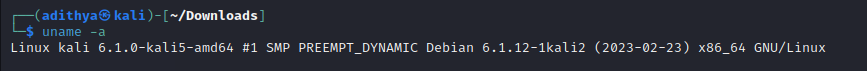


fg: Bring background processes to the foreground

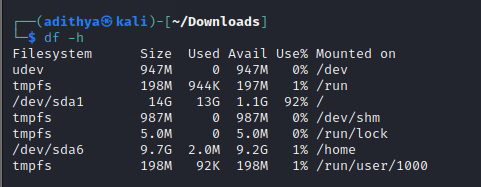


**System Information:**

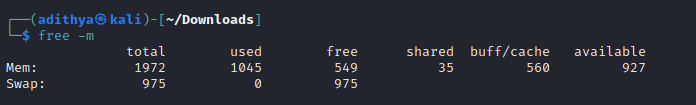
uname: Print system information



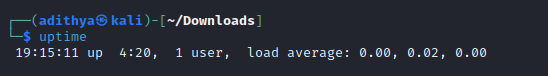
df: Display disk space usage



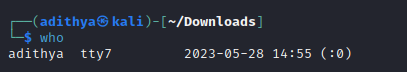
free: Display memory usage



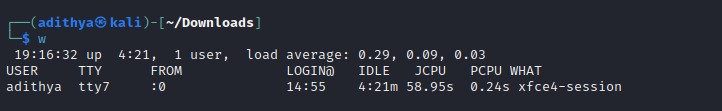
uptime: Show system uptime



who: Display logged-in users

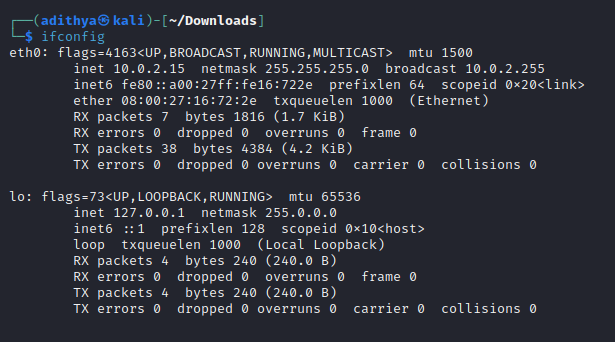


w: Display logged-in users and their activities

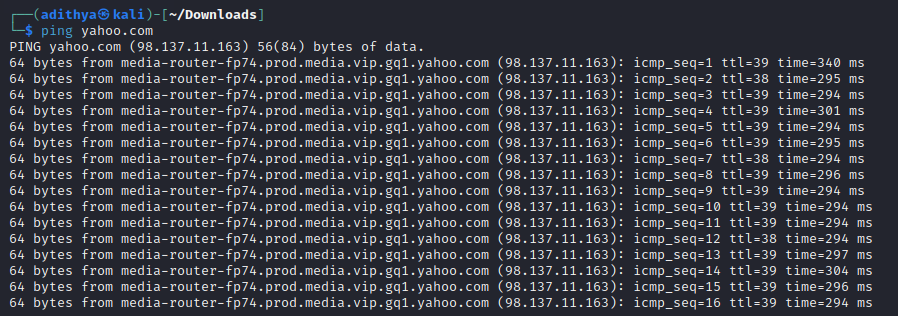


**Networking:**

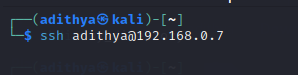
ifconfig: Configure network interfaces



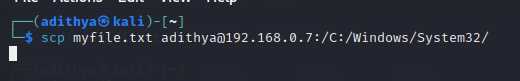
ping: Send ICMP echo requests to a network host



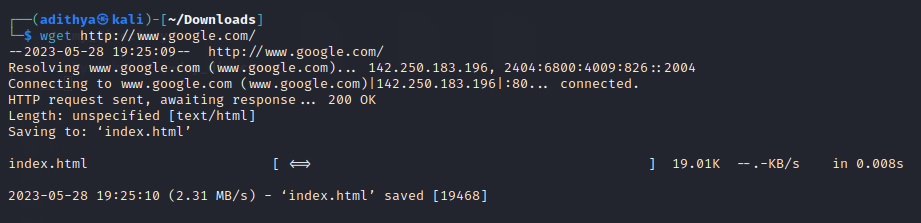
ssh: Securely connect to a remote system



scp: Securely copy files between systems

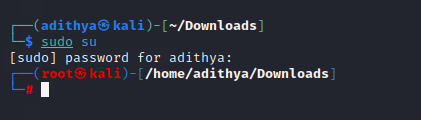


wget: Download files from the web

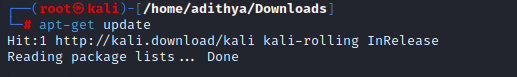


**System Administration:**

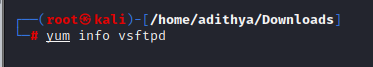
sudo: Execute commands with superuser privileges



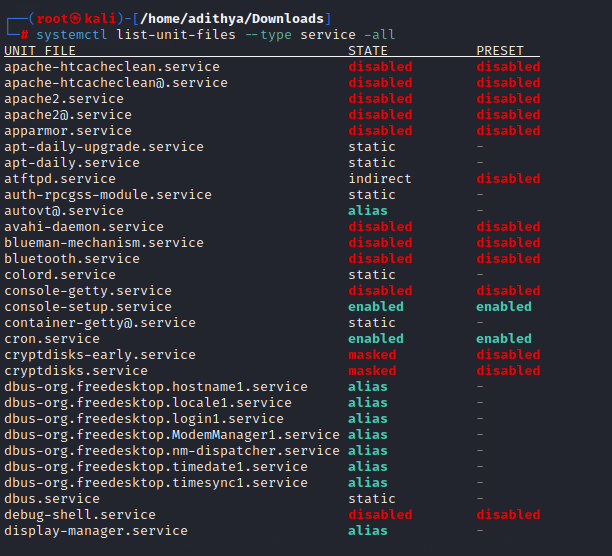
apt-get: Package management for Debian-based distributions



yum: Package management for Red Hat-based distributions

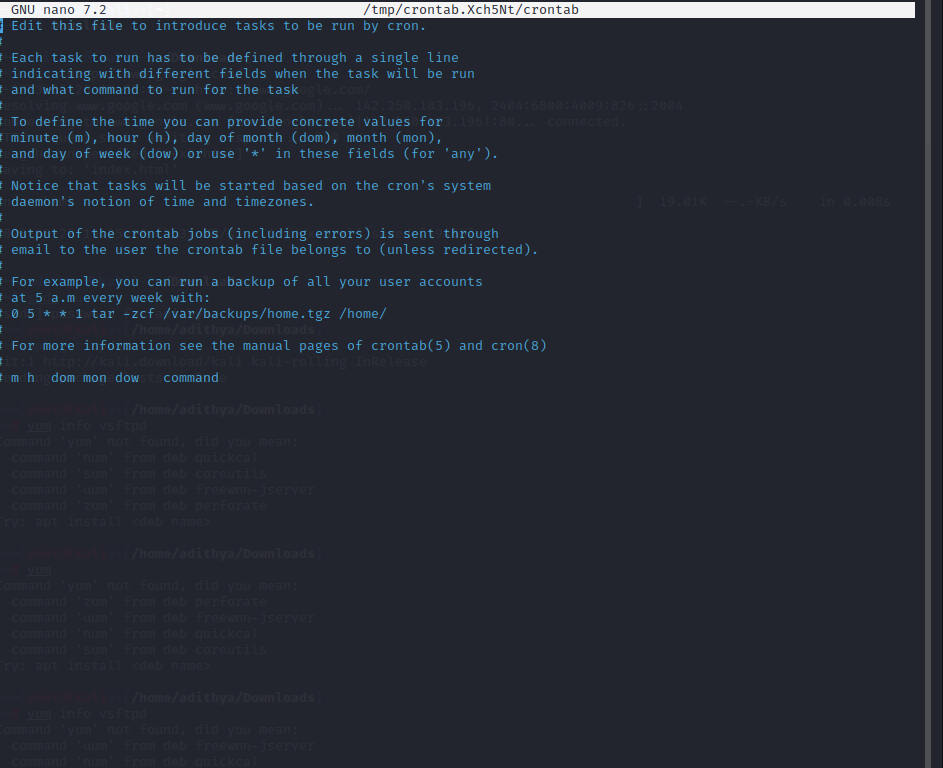


systemctl: Manage system services



crontab: Schedule recurring tasks





useradd: Add a new user



passwd: Change user password

