

*Linux Command :*

*ls:*

*Lists directory contents.*

*Example: ls /home lists files and directories in /home.*

*cd:*

*Changes the current directory.*

*Example: cd /var/log changes to the /var/log directory.*

*pwd:*

*Prints the current working directory.*

*Example: pwd outputs the current directory path.*

*mkdir:*

*Creates a new directory.*

*Example: mkdir new\_folder creates a directory named new\_folder.*

*rmdir:*

*Removes an empty directory.*

*Example: rmdir old\_folder removes the directory old\_folder.*

*rm:*

*Removes files or directories.*

*Example: rm file.txt deletes file.txt; rm -r dir deletes directory dir and its contents.*

*cp:*

*Copies files or directories.*

*Example: cp source.txt destination.txt copies source.txt to destination.txt.*

*mv:*

*Moves or renames files or directories.*

*Example: mv oldname.txt newname.txt renames oldname.txt to newname.txt.*

*touch:*

*Creates an empty file or updates the timestamp of an existing file.*

*Example: touch newfile.txt creates an empty file newfile.txt.*

*cat:*

*Concatenates and displays file content.*

*Example: cat file.txt displays the contents of file.txt.*

*less:*

*Views file content one screen at a time.*

*Example: less largefile.txt allows scrolling through largefile.txt.*

*head:*

*Displays the first few lines of a file.*

*Example: head -n 10 file.txt shows the first 10 lines of file.txt.*

*tail:*

*Displays the last few lines of a file.*

*Example: tail -n 10 file.txt shows the last 10 lines of file.txt.*

*grep:*

*Searches for text within files.*

*Example: grep "pattern" file.txt searches for "pattern" in file.txt.*

*find:*

*Searches for files and directories.*

*Example: find / -name filename searches for filename starting from the root directory.*

*chmod:*

*Changes file permissions.*

*Example: chmod 755 script.sh sets script.sh permissions to rwxr-xr-x.*

*chown:*

*Changes file owner and group.*

*Example: chown user:group file.txt changes the owner and group of file.txt.*

*ps:*

*Displays currently running processes.*

*Example: ps aux shows detailed information about all running processes.*

*kill:*

*Terminates a process by PID.*

*Example: kill 1234 terminates the process with PID 1234.*

*top:*

*Displays real-time system resource usage.*

*Example: top shows an interactive view of system processes and resource usage.*

*df:*

*Reports file system disk space usage.*

*Example: df -h displays disk usage in a human-readable format.*

*du:*

*Estimates file and directory space usage.*

*Example: du -sh /home/user shows the total space used by /home/user.*

*ifconfig (or ip addr):*

*Configures network interfaces.*

*Example: ifconfig shows network interface configurations; ip addr shows detailed IP address info.*

*ping:*

*Tests network connectivity.*

*Example: ping google.com sends ICMP echo requests to google.com.*

*wget:*

*Downloads files from the web.*

*Example: wget http://example.com/file.zip downloads file.zip from the specified URL.*

*curl:*

*Transfers data from or to a server.*

*Example: curl http://example.com fetches the content from example.com.*

*tar:*

*Archives files.*

*Example: tar -czvf archive.tar.gz /path/to/directory creates a compressed archive of the directory.*

*sudo:*

*Executes a command with superuser privileges.*

*Example: sudo apt-get update runs the apt-get update command as the superuser.*

*apt-get (or yum for RHEL/CentOS):*

*Manages packages (Debian-based systems).*

*Example: sudo apt-get install package installs a package; yum is used similarly on RPM-based systems.*

*ssh:*

*Connects to a remote machine via SSH.*

*Example: ssh user@hostname connects to hostname as user.*