System Information	
uname -a	Displays kernel version and system information.
hostname	Displays the system's hostname.
uptime	Shows how long the system has been running.
whoami	Displays the current user.
id	Shows user ID and group ID.
lsb_release -a	Shows Linux distribution details.
df -h	Displays disk space usage in a human-readable format.
du -sh [directory]	Shows the size of a directory.
free -h	Displays memory usage.
top or htop	Monitors system processes in real-time.
File and Directory Management	
ls	Lists files in the current directory.
ls -l	Lists files with detailed information.
pwd	Prints the current working directory.
cd [directory]	Changes to the specified directory.
mkdir [directory]	Creates a new directory.
rm [file]	Deletes a file.
rm -r [directory]	Deletes a directory and its contents.
cp [source] [destination]	Copies files or directories.
mv [source] [destination]	Moves or renames files or directories.
find [path] -name [filename]	Searches for a file by name.
wc -l [file]	Counts the number of lines in a file.
grep [pattern] [file]	Searches for a pattern in a file
diff [file1] [file2]	Compares two files line by line
File Viewing and Editing	
cat [file]	Displays file contents.
less [file]	Views file contents one screen at a time.
head -n [number] [file]	Shows the first n lines of a file.
tail -n [number] [file]	Shows the last n lines of a file.
nano [file]	Open a file in the Nano text editor.
vim [file]	Open a file in the Vim text editor.
touch [file]	Creates an empty file or updates its timestamp.
stat [file]	Displays detailed information about a file (size, permissions, timestamps).
ln -s [target] [link]	Creates a symbolic link to a target file or directory.
vi [file]	Open a file in the vi editor.

File Permissions and Ownership	
chmod [permissions] [file]	Changes file permissions.
chown [user:group] [file]	Changes file ownership.
ls -l	Displays file permissions.
umask [value]	Sets default permissions for new files.

Process Management	
ps	Lists running processes.
ps aux	Displays detailed information about all processes.
kill [PID]	Kills a process by its PID.
killall [name]	Kills all processes by name.
bg	Resumes a job in the background.
fg	Brings a job to the foreground.
jobs	Lists active jobs.

User Management	
who	Shows who is logged in.
w	Displays who is logged in and their activity.
adduser [username]	Creates a new user.
passwd [username]	Changes a user's password.
deluser [username]	Deletes a user.
groups [username]	Shows groups a user belongs to.

Networking	
ifconfig	Displays network interfaces.
ip addr	Shows IP addresses of interfaces.
ping [host]	Sends ICMP packets to check connectivity.
netstat -tuln	Displays open ports and services.
curl [url]	Sends HTTP requests to a URL.
wget [url]	Downloads files from a URL.
scp [source] [destination]	Securely copies files between systems.
ssh [user@host]	Connects to a remote system via SSH.

Disk and Storage	
mount [device] [mount_point]	Mounts a device.
umount [device]	Unmounts a device.
lsblk	Lists information about block devices.
blkid	Displays block device attributes.
fdisk -l	Lists partition tables.
df -i	Displays inode usage of file systems.

Archiving and Compression	
tar -cvf [archive.tar] [file/dir]	Creates a tar archive.
tar -xvf [archive.tar]	Extracts a tar archive.
gzip [file]	Compresses a file with gzip.
gunzip [file.gz]	Decompresses a gzip file.
zip [archive.zip] [file/dir]	Creates a zip archive.
unzip [archive.zip]	Extracts a zip archive.
System Monitoring and Logs	
apt update	Updates package lists (Debian-based).
apt upgrade	Installs updates for all packages (Debian-based).
apt install [package]	Installs a package (Debian-based).
apt remove [package]	Removes a package (Debian-based).
yum update	Updates all packages (Red Hat-based).
yum install [package]	Installs a package (Red Hat-based).
yum remove [package]	Removes a package (Red Hat-based).
System Monitoring and Logs	
dmesg	Displays kernel messages.
journalctl	View system logs.
tail -f /var/log/syslog	Monitors system logs in real-time.
vmstat	Displays system performance statistics.
Miscellaneous	
alias [name]='[command]'	Creates a shortcut for a command.
history	Lists previously executed commands.
clear	Clears the terminal screen.
echo [text]	Displays text on the screen.
date	Displays the current date and time.
cal	Shows a calendar.
man [command]	Displays the manual for a command.
sleep [seconds]	Pauses execution for a specified number of seconds.
env	Displays environment variables.
export [variable]=[value]	Sets an environment variable.
uptime	Shows how long the system has been running and average load.
who	Shows who is logged in.
dirname [path]	Extracts the directory path from a full file path.