# **Assign 1 : Basic Linux Commands**

Command to change hostname : sudo hostnamectl set-hostname D3-Ejkta-93147

- 1. man: Command to get help about commands
- 2. Uname: Print System information

```
sunbeam@D3-Ekta-93147:~/Desktop$ uname
Linux
```

3. Pwd: Print current directory

```
sunbeam@D3-Ekta-93147:~/Desktop$ pwd
/home/sunbeam/Desktop
```

4. Hostname

```
sunbeam@D3-Ekta-93147:~/Desktop$ hostname
D3-Ekta-93147
```

5.date: Find today's date

```
sunbeam@D3-Ekta-93147:~/Desktop$ date
Monday 27 October 2025 04:09:42 PM IST
```

6.cal: Print calendar for current year

7.ls, dir

```
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System$ dir
assignment practice sdm
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ ls
data.txt new.txt user.txt
```

#### 8. Cat: read file

```
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ cat new.txt
hello world
how are you?
Good morning, I am fine.
```

### 9.cat >> : Append some text into existing file

```
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ cat >> new.txt
hello world
how are you?
Good morning, I am fine.
```

### 10.cp : Copy a file, Copy a directory

```
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ cp new.txt data.txt
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ cat data.txt
hello world
how are you?
Good morning, I am fine.
```

#### 11.mv: Rename the files

```
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ mv new.txt newYear.tx
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ ls
data.txt newYear.txt user.txt
```

#### 12 mv: moving the file

```
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ mkdir backup
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ mv data.txt backup/
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ ls
backup newYear.txt user.txt
```

#### 13.tac, rev: Print the file in reverse order, Reverse each line in the file

```
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ rev newYear.txt
dlrow olleh
?uoy era woh
.enif ma I ,gninrom dooG
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ tac newYear.txt
Good morning, I am fine.
how are you?
hello world
```

#### 14.wc: Count the words, characters and lines in a file

```
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ wc new.txt
5 10 52 new.txt
```

### 15.mkdir: Create directory

```
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ ls
backup lab new.txt user.txt
```

# 16.cd: Change current directory

```
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ cd lab
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice/lab$ cd ...
```

# 17.rm: Remove a file, remove a directory (with -R)

```
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ rm user.txt
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ ls
backup lab new.txt
```

### 18.rmdir: remove empty directory

```
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ rmdir lab
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ ls
backup new.txt
```

### 19 touch: change the modification time, Create Multiple empty files at once

### 20.sort : Sort file.

```
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ sort new.txt

Good morning, I am fine.
hello world
how are you?
```

#### 21.unig: Avoid repetition in a file.

```
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ cat new.txt
hello world
how are you?
Good morning, I am fine.

welcome to this file
good evening
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ uniq new.txt
hello world
how are you?
Good morning, I am fine.

welcome to this file
good evening
```

## 22.head: Print the specified number of lines from top in the file.

```
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ head -n 3 new.txt
hello world
how are you?
Good morning, I am fine.
```

### 23.tail: Print the specified number of lines from bottom in the file.

```
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ tail -n 3 new.txt
welcome to this file
good evening
```

#### 24.factor: Find the factors of a number

```
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ factor 100
100: 2 2 5 5
```

#### 25.alias: Create command shortcut

```
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ alias list="ls"
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ list
backup new.txt notes.txt
```

#### 26.unalias: remove the command shortcut

```
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ alias list="ls"
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ list
backup new.txt notes.txt
```

### 27.echo: Print environment variables individually

```
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ echo "hello, World!"
hello, World!
```

#### 28.ps: Print current processes

#### 29.kill: Kill the process

```
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ kill
kill: usage: kill [-s sigspec | -n signum | -sigspec] pid | jobspec ... or kill -l [sigspec]
```

#### 30.env: Print environment variables

```
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ env
SHELL=/bin/bash
SESSION_MANAGER=local/D3-Ekta-93147:@/tmp/.ICE-unix/1523,unix/D3-Ekta-93147:/tmp/.ICE-unix/1523
QT_ACCESSIBILITY=1
COLORTERM=truecolor
XDG_CONFIG_DIRS=/etc/xdg/xdg-ubuntu:/etc/xdg
SSH_AGENT_LAUNCHER=gnome-keyring
XDG_MENU_PREFIX=gnome-
GNOME_DESKTOP_SESSION_ID=this-is-deprecated
LANGUAGE=en_IN:en
GNOME_SHELL_SESSION_MODE=ubuntu
SSH_AUTH_SOCK=/run/user/1000/keyring/ssh
```