

## Assign 1 : Basic Linux Commands

Command to change hostname :

```
sudo hostnamectl set-hostname D3-Dhananjay-92969
```

1. man : Command to get help about commands

2. Uname : Print System information

```
kedar@kedar-HP-Pavilion-Laptop-14-ec0xxx:~/Desktop$ uname  
Linux
```

3. Pwd : Print current directory

```
kedar@kedar-HP-Pavilion-Laptop-14-ec0xxx:~/Desktop$ pwd  
/home/kedar/Desktop
```

4. Hostname

```
kedar@kedar-HP-Pavilion-Laptop-14-ec0xxx:~/Desktop$ hostname  
kedar-HP-Pavilion-Laptop-14-ec0xxx
```

5.date : Find today's date

```
kedar@kedar-HP-Pavilion-Laptop-14-ec0xxx:~/Desktop$ date  
Fri Oct 24 04:08:51 PM IST 2025
```

6.cal : Print calendar for current year

```
kedar@kedar-HP-Pavilion-Laptop-14-ec0xxx:~/Desktop$ cal  
    October 2025  
Su Mo Tu We Th Fr Sa  
      1  2  3  4  
 5  6  7  8  9 10 11  
12 13 14 15 16 17 18  
19 20 21 22 23 24 25  
26 27 28 29 30 31
```

7.ls, dir

```
kedar@kedar-HP-Pavilion-Laptop-14-ec0xxx:/media/kedar/New Volume/11_CDAC/07_05$ dir  
Assignments Day-1
```

```
kedar@kedar-HP-Pavilion-Laptop-14-ec0xxx:/media/kedar/New Volume/11_CDAC/07_05$ ls
Assigments Day-1
```

## 8. Cat : read file

```
kedar@kedar-HP-Pavilion-Laptop-14-ec0xxx:/media/kedar/New Volume/11_CDAC/07_05$ cat history.txt
1.Checking Present Working Directory
$ pwd
/home/sunbeam

2. Listing Directory Contents
$ ls
Desktop Documents Downloads Pictures Music

3. Creating a New Directory
$ mkdir Dac_Day_1
$ ls
Desktop Documents Downloads Pictures Music Dac_Day_1

4. Changing Directory
$ cd Dac_Day_1
$ pwd
/home/student/Dac_Day_1
```

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

```
kedar@kedar-HP-Pavilion-Laptop-14-ec0xxx:/media/kedar/New Volume/11_CDAC/07_05$ cat history.txt
1.Checking Present Working Directory
$ pwd
/home/sunbeam

2. Listing Directory Contents
$ ls
Desktop Documents Downloads Pictures Music

3. Creating a New Directory
$ mkdir Dac_Day_1
$ ls
Desktop Documents Downloads Pictures Music Dac_Day_1

4. Changing Directory
$ cd Dac_Day_1
$ pwd
/home/student/Dac_Day_1

new line to insert
```

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

```
kedar@kedar-HP-Pavilion-Laptop-14-ec0xxx:/media/kedar/New Volume/11_CDAC/07_05$ cp history.txt copy.txt
kedar@kedar-HP-Pavilion-Laptop-14-ec0xxx:/media/kedar/New Volume/11_CDAC/07_05$ ls
Assigments copy.txt Day-1 history.txt
kedar@kedar-HP-Pavilion-Laptop-14-ec0xxx:/media/kedar/New Volume/11_CDAC/07_05$ cat copy.txt
data int this file was added for reading the file

new line to insert
```

## 11.mv : Move the files

```

kedar@kedar-HP-Pavilion-Laptop-14-ec0xxx:/media/kedar/New Volume/11_CDAC/07_05$ mkdir backup
kedar@kedar-HP-Pavilion-Laptop-14-ec0xxx:/media/kedar/New Volume/11_CDAC/07_05$ mv copy.txt mynotes.txt
kedar@kedar-HP-Pavilion-Laptop-14-ec0xxx:/media/kedar/New Volume/11_CDAC/07_05$ ls
Assignments  backup  Day-1  history.txt  mynotes.txt

```

## 12.mv : Rename a file

```

kedar@kedar-HP-Pavilion-Laptop-14-ec0xxx:/media/kedar/New Volume/11_CDAC/07_05$ mv history.txt notes.txt
kedar@kedar-HP-Pavilion-Laptop-14-ec0xxx:/media/kedar/New Volume/11_CDAC/07_05$ ls
Assignments  backup  Day-1  mynotes.txt  notes.txt

```

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

```

kedar@kedar-HP-Pavilion-Laptop-14-ec0xxx:/media/kedar/New Volume/11_CDAC/07_05$ rev notes.txt
elif eht gnidaer rof dedda saw elif siht tni atad

tresni ot enil wen

```

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

```

kedar@kedar-HP-Pavilion-Laptop-14-ec0xxx:/media/kedar/New Volume/11_CDAC/07_05$ wc notes.txt
 4 14 75 notes.txt

```

## 15.mkdir : Create directory

```

kedar@kedar-HP-Pavilion-Laptop-14-ec0xxx:/media/kedar/New Volume/11_CDAC/07_05$ mkdir book
kedar@kedar-HP-Pavilion-Laptop-14-ec0xxx:/media/kedar/New Volume/11_CDAC/07_05$ ls
Assignments  backup  book  Day-1  mynotes.txt  notes.txt

```

## 16.cd : Change current directory

```

kedar@kedar-HP-Pavilion-Laptop-14-ec0xxx:/media/kedar/New Volume/11_CDAC/07_05$ cd book
kedar@kedar-HP-Pavilion-Laptop-14-ec0xxx:/media/kedar/New Volume/11_CDAC/07_05/book$

```

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

```

kedar@D2-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_05$ rm notes.txt
kedar@D2-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_05$ ls
Assignments  backup  Day-1  mynotes.txt

```

## 18.rmdir : remove empty directory

```

kedar@kedar-HP-Pavilion-Laptop-14-ec0xxx:/media/kedar/New Volume/11_CDAC/07_05$ rmdir book
kedar@kedar-HP-Pavilion-Laptop-14-ec0xxx:/media/kedar/New Volume/11_CDAC/07_05$ ls
Assignments  backup  Day-1  mynotes.txt  notes.txt

```

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

```
kedar@D2-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_05$ ls
Assignments backup Day-1 mynotes.txt
kedar@D2-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_05$ touch mynotes.txt
kedar@D2-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_05$ stat mynotes.txt
  File: mynotes.txt
  Size: 75          Blocks: 0          IO Block: 4096   regular file
Device: 259,5      Inode: 489418       Links: 1
Access: (0755/-rwxr-xr-x)  Uid: ( 1000/   kedar)   Gid: ( 1000/   kedar)
Access: 2025-10-24 17:29:23.374998100 +0530
Modify: 2025-10-24 17:29:23.374998100 +0530
Change: 2025-10-24 17:29:23.374998100 +0530
Birth: 2025-10-24 16:25:40.616361600 +0530
```

20.sort : Sort file.

```
kedar@D2-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_05$ ls
Assignments backup Day-1 mynotes.txt notes.txt
kedar@D2-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_05$ sort notes.txt

data int this file was added for reading the file
new line to insert
```

21.uniq : Avoid repetition in a file.

```
QT_IM_MODULE=ibus
DBUS_STARTER_ADDRESS=unix:path=/run/user/1000/bus,guid=2a3950b6f71cda6a6c60858968ff8c53
XDG_RUNTIME_DIR=/run/user/1000
DEBUGINFOD_URLS=https://debuginfod.ubuntu.com
XDG_DATA_DIRS=/usr/share/ubuntu:/usr/share/gnome:/usr/local/share:/usr/share:/var/lib/snapd/desktop
PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/snap/bin:/snapd/bin
GDMSESSION=ubuntu
DBUS_SESSION_BUS_ADDRESS=unix:path=/run/user/1000/bus,guid=2a3950b6f71cda6a6c60858968ff8c53
_=usr/bin/env
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_05/assignment$ cat > names.txt
Alice
Alice
Bob
Charlie
Charlie
Charlie
Dave
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_05/assignment$ uniq names.txt
Alice
Bob
Charlie
Dave
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_05/assignment$
```

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

```
kedar@D2-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_05$ head notes.txt
data int this file was added for reading the file
2nd line in this file
new line to insert
data int this file was added for reading the file
2nd line in this file
new line to insert
data int this file was added for reading the file
2nd line in this file
new line to insert
data int this file was added for reading the file
```

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

```
kedar@D2-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_05$ tail notes.txt
data int this file was added for reading the file
2nd line in this file
new line to insert
data int this file was added for reading the file
2nd line in this file
new line to insert
data int this file was added for reading the file
2nd line in this file
new line to insert
```

24.factor : Find the factors of a number

```
kedar@D2-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_05/labwork$ factor 100
100: 2 2 5 5
```

25.alias : Create command shortcut

```
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_05/assignment$ alias ll='ls -la'
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_05/assignment$ la
data.txt myfile.txt my.txt one user1.txt user2.txt users
```

26.unalias : remove the command shortcut

```
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_05/assignment$ unalias ll
```

27.echo : Print environment variables individually

```
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_05/assignment$ echo $USER
echo $SHELL
echo $PATH
kedar
/bin/bash
/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/snap/bin:/snap/bin
```

28.ps : Print current processes

```

kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment$ ps
  PID TTY          TIME CMD
  7788 pts/0    00:00:00 bash
  7894 pts/0    00:00:00 ps

```

## 29.kill : Kill the process

```

kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment$ kill -9 7894

```

## 30.env : Print environment variables

```

kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment$ env
SHELL=/bin/bash
SESSION_MANAGER=local/D2-Dhananjay-92969:@/tmp/.ICE-unix/2367,unix/D2-Dhananjay-92969:/tmp/.ICE-unix/2367
QT_ACCESSIBILITY=1
COLORTERM=truecolor
XDG_CONFIG_DIRS=/etc/xdg/xdg-ubuntu:/etc/xdg
XDG_MENU_PREFIX=gnome-
GNOME_DESKTOP_SESSION_ID=this-is-deprecated
GNOME_SHELL_SESSION_MODE=ubuntu
SSH_AUTH_SOCK=/run/user/1000/keyring/ssh
MEMORY_PRESSURE_WRITE=c29tZSAyMDAwMDAgMjAwMDAwMAA=
XMODIFIERS=@im=ibus
DESKTOP_SESSION=ubuntu
GTK_MODULES=gail:atk-bridge
DBUS_STARTER_BUS_TYPE=session
PWD=/media/kedar/New Volume/11_CDAC/07_OS/assignment
LOGNAME=kedar
XDG_SESSION_DESKTOP=ubuntu
XDG_SESSION_TYPE=wayland
SYSTEMD_EXEC_PID=2367
XAUTHORITY=/run/user/1000/.mutter-Xwaylandauth.B8W0E3
HOME=/home/kedar
USERNAME=kedar

```