# **Experiment No :3**

# **Aim: Familiarisation of Linux Commands**

# **Procedure:**

Pwd - Displays the absolute path name of the current directory.
 \$ pwd

# **Output:**

```
sobin@sobin-Virtual-Machine:~/Desktop$ pwd
/home/sobin/Desktop
```

**2. Ls** – To View the content of the Directory \$ 1s

# **Output:**

```
sobin@sobin-Virtual-Machine:~$ ls
Desktop Documents Downloads Music Pictures Public shared-drives snap Templates Videos
sobin@sobin-Virtual-Machine:~$ |
```

3. Ls -R To list all the files in Subdirectory

\$1s -R

```
student@t2:~$ ls -R
.:
Desktop Downloads Pictures PycharmProjects sobin Videos
Documents Music Public snap Templates

./Desktop:
./Documents:
./Downloads:
./Music:
./Pictures:
./Public:
```

4. Ls-l Summarizes The Most Important Information About The File On A Single Line

\$1s -1

## **Output:**

```
student@t2:~$ ls -l
total 44
drwxr-xr-x 2 student student 4096 Mar 7 15:28 Desktop
drwxr-xr-x 2 student student 4096 Jun 17 2022 Documents
drwxr-xr-x 2 student student 4096 Jun 17 2022 Downloads
drwxr-xr-x 2 student student 4096 Jun 17 2022 Music
```

5. Ls -a To list all Hidden Files

\$ 1s -a

## **Output:**

```
student@t2:~$ ls -a
. .bash_history .bashrc .config Documents .gnupg .local Music .pki Public snap .ssh Videos
.. .bash_logout .cache Desktop Downloads .java .mozilla Pictures .profile PycharmProjects sobin Templates
```

**6.** Ls -al - To List the Files and directory with detailed Information such as size ,permission , date ,name.

\$ ls -al

#### **Output:**

```
student@t2:~$ ls -al
total 112
drwxr-xr-x 21 student student 4096 Mar
                                           2023
                             4096 Jun 17
drwxr-xr-x 6 root root
                                           2022 .
           1 student student 15034 Mar
                                      7 15:23 .bash_history
           1 student student 220 Jun 17
                                           2022 .bash_logout
          1 student student 3771 Jun 17
                                           2022 .bashrc
                                       7 14:09 .cache
drwxrwxr-x 19 student student 4096 Mar
drwxr-xr-x 18 student student 4096 Mar
                                        7 14:12 .config
          2 student student 4096 Mar
                                       7 15:28 Desktop
          2 student student 4096 Jun 17
drwxr-xr-x
                                          2022 Documents
drwxr-xr-x 2 student student 4096 Jun 17
                                           2022 Downloads
```

7. Ls -t List the files in sorted Order of last modified

\$1s -t

**8.** Ls-r -To List the files in Reverse Natural Order.

\$1s -r

## **Output:**

```
student@t2:~$ ls -r
Videos Templates sobin snap PycharmProjects Public Pictures Music Downloads Documents Desktop
student@t2:~$
```

- **9. History** To Review the Command that have been previously executed for certain period of time.
  - \$ history

#### **Output:**

```
student@t2:~$ history

1 ./studio.sh
2 ./studio.sh
3 su mca
4 ls
5 pwd
6 mkdir sobin
7 rmdir sobin
8 pwd
9 ls
10 cd desktop
11 cd Desktop
```

**10.Man** – To learn and understand the different Command right from the shell.

\$ man

```
LS(1)
                                                                        User Commands
NAME
       ls - list directory contents
SYNOPSIS

Ls [OPTION]... [FILE]...
DESCRIPTION

List information about the FILEs (the current directory by default). Sort entries alphabetically if none of -cftuvSUX nor --sort is
       Mandatory arguments to long options are mandatory for short options too.
               do not ignore entries starting with .
       -A, --almost-all do not list implied . and ..
       --author
with -l, print the author of each file
        -b, --escape
               print C-style escapes for nongraphic characters
       --block-size=<u>SIZE</u>
with -l, scale sizes by SIZE when printing them; e.g., '--block-size=M'; see SIZE format below
       -B, --ignore-backups $\operatorname{do} not list implied entries ending with \sim
              with -lt: sort by, and show, ctime (time of last modification of file status information); with -l: show ctime and sort by name; otherwise: sort by ctime, newest first
               list entries by columns
```

# 11.Mkdir – To create new Directory

\$ mkdir sample

## **Output:**

```
student@t2:~/demo$ mkdir sample
student@t2:~/demo$ ls
sample
student@t2:~/demo$ cd sample
student@t2:~/demo/sample$ pwd
/home/student/demo/sample
student@t2:~/demo/sample
```

**12.Cd** – cd command is used to change the directory

\$ cd sample

## **Output:**

13.Cd .. - Used to change the directory to previous directory

\$cd ..

#### **Output:**

```
student@t2:~/demo/sample$ pwd
/home/student/demo/sample
student@t2:~/demo/sample$ cd ..
student@t2:~/demo$ pwd
/home/student/demo_
```

**14.Rmdir** -To remove the Directory.

\$ rmdir sample

```
student@t2:~/demo$ rmdir demo
student@t2:~/demo$ cd demo
bash: cd: demo: No such file or directory
student@t2:~/demo$
```

# **15.Touch** – used to create New file

\$touch myfile.txt

\$1s

# **Output:**

```
student@t2:~/demo$ touch myfile
student@t2:~/demo$ ls
myfile
student@t2:~/demo$
```

**16.** Cat -Used to Display the content of the file.

\$cat file1.txt

## **Output:**

```
student@t2:~/demo$ cat file1.txt
hello
WELCOME
student@t2:~/demo$
```

17. cat > - Used to create a new file and Enter the contents to it's.

cat > file 1.txt

## **Output:**

```
student@t2:~/demo$ cat > file1.txt
hello
WELCOME
student@t2:~/demo$ cat file1.txt
hello
WELCOME
student@t2:~/demo$
```

**18.** cat >> -Used to append the existing file content

\$cat >> file1.txt

**19.** Cat – To copy the content of the files to another file

\$ cat file1.txt file2.txt >out.txt

## **Output:**

```
obin@sobin-Virtual-Machine:~/Desktop$ cat >file1.txt
Sunday
Monday
Tuesday
sobin@sobin-Virtual-Machine:~/Desktop$ cat> file2.txt
january
february
march
sobin@sobin-Virtual-Machine:~/Desktop$ cat file1.txt file2.txt >file.txt
sobin@sobin-Virtual-Machine:~/Desktop$ cat file.txt
Sunday
Monday
Tuesday
january
february
march
sobin@sobin-Virtual-Machine:~/Desktop$
```

20. Cat -n -Used to display the content of file with Line number

\$cat -n file1.txt

## **Output:**

```
sobin@sobin-Virtual-Machine:~/Desktop$ cat -n file1.txt

1    Sunday
2    Monday
3    Tuesday
4    5    wednesday
6    thursday
7    8    friday
```

**21.Cat -b** -Used to display the content of file with Line number by removing number from empty line

\$cat -b file2.txt

# 22. Cat -for changing small letters to capital letters

cat file.txt | tr a-z A-Z > outfile.txt

```
sobin@sobin-Virtual-Machine:~/Desktop$ cat file.txt | tr a-z A-Z > out.txt
sobin@sobin-Virtual-Machine:~/Desktop$ cat out.txt
SUNDAY
MONDAY
TUESDAY
JANUARY
FEBRUARY
MARCH
```