Experiment no:3 Date:09-03-2023

Aim: Familiarization with Linux command.

**CO2:** Perform system administration tasks.

## **Procedure:**

1. pwd: to print the working directory.

• print the path of the working directory.

\$pwd

Output:

```
student@t2:~$ pwd
/home/student
```

2. ls: Used to list the files and contents

\$1s

Output:

```
student@t2:~$ ls
demo Desktop Destimona Documents Downloads file1 Music pic Pictures Public PycharmProjects snap sree sub Templates Videos
```

i. ls -R: This will list all the subdirectories

\$ls -R

Output:

```
student@t2: ~
                                                                                                                                                 Q = - m
 tudent@t2:~$ ls -R
 .
emo Desktop Destimona Documents Downloads filei Music pic Pictures Public PycharmProjects snap sree sub Templates Videos
./demo:
<mark>demo2</mark> file1 file3 myfile myfile2
./demo/demo2:
./Desktop:
Ls.png pwd.png
 /Destimona:
./Documents:
 /Downloads:
 /Music:
 ati.png cat3.png history.png lsa.png ls.png lst.png mkdir.png rmdir.png
at2.png cd.png lsal.png lsl.png lsR.png man.png pwd.png
 /Pictures:
./Public:
./PycharmProjects:
./PycharmProjects/pythonProject:
main.py venv
/PycharmProjects/pythonProject/venv:
oin lib pyvenv.cfg
./PycharmProjects/pythonProject/venv/bin:
```

ii. ls -l: long listing,

\$1s -1

```
student@t2:~$ ls -l

total 64

drwxrwxr-x 3 student student 4096 Mar 7 16:51 demo

drwxr-xr-x 2 student student 4096 Mar 9 15:24 Desktop

drwxrwxr-x 2 student student 4096 Mar 9 14:37 Destimona

drwxr-xr-x 2 student student 4096 Jun 17 2022 Documents

drwxr-xr-x 2 student student 4096 Jun 17 2022 Downloads

-rw-rw-r-- 1 student student 89 Mar 9 14:59 file1

drwxr-xr-x 2 student student 4096 Jun 17 2022 Music

drwxrwxr-x 2 student student 4096 Mar 7 16:59 pic
```

iii. ls -a: To view the hidden files.

\$ls -a
Output:

```
student@t2:~$ ls -a
. .bash_logout .config Destimona file1 .java Music .pki PycharmProjects .ssh Videos
.. .bashrc demo Documents .gnome .local pic .profile snap sub
.bash history .cache Desktop Downloads .gnung .mozilla Pictures Public sree Templates
```

iv. ls -al: list the files and directories with detailed information including hidden files.

\$1s -a1
Output:

v. ls -t: list the files in sorted in the order of last modified.

\$ 1s -t

Output:

```
student@t2:~$ ls -t
Desktop file1 Destimona pic Pictures demo sub sree PycharmProjects snap Documents Downloads Music Public Templates Videos
student@t2:~$
```

vi. ls -r: reverse the actual sorting order.

\$ls -r

Output:

3. mkdir: to make the directory

\$mkdir [filename]

Output:

```
student@t2:~$ mkdir Desti
student@t2:~$
```

4. cd: to navigate through the directory.

\$cd [filename]

```
student@t2:~$ cd Desti
student@t2:~/Desti$
```

5. cd -- / cd ..: to go to the previous directory. \$cd ...

Output:

```
student@t2:~/Desti$ cd --
student@t2:~$
```

6. history:

To view the history and the commands which you have been executed for certain period of ime

\$history

Output:

```
t@t2:~$ history
./studio.sh
    ./studio.sh
    su mca
   pwd
    ls
    ls-R
   ls -R
    ls -a
    ls -al
10
11
    ls -t
    ls -r
   history
13
14
   man
   mkdir sree
16
17
   pwd
    cd sree
18
   pwd
   cd ..
cd sree
20
    touch file1.txt
23
   cat > file1.txt
   cat file1.txt
24
25
   cat > file2.txt
   cat file2.txt
26
   cat file2.txt
27
28
   ls
29
   pwd
   cat > file3.txt
30
   cat file3.txt
31
    cat >> file3.txt
32
    cat file3.txt
33
34
    cat > ajce.txt
35
    cat ajce.txt
    cat > sreehari.txt
```

7. man: we can learn and understand about the shell using man command.

\$man ls

- 8. cat: to create file.
  - i. \$cat > [filename]

Output:

ii. cat [filename]: to display the file contents.

\$ cat file

Output:

```
student@t2:~$ cat file
sona
dilna
diya
appu
gayu
```

iii. cat >> [filename]: to append the file.

\$cat >> file

Output:

```
student@t2:~$ cat >>file
akhila
surya
^Z
[4]+ Stopped _ cat >> file
```

iv. cat -n [filename]: to display the line number.

\$cat -n file

Output:

```
student@t2:~$ cat -n file
1 sona
2 dilna
3 diya
4 appu
5 gayu
6 akhila
7 surya
```

v. cat -b [filename]: to remove numbering from empty line.

\$cat -b dinla1

```
student@t2:~$ cat -n file
    1    sona
    2    dilna
    3    diya
    4    appu
    5    gayu
    6    akhila
    7    surya
    8
    9
    10
    11    irine
    12    ardra _
```

Experiment no:4 Date:10-03-2023

Aim: Familiarization with Linux command.

**CO2:** Perform system administration tasks.

1. i. cut -c[filename]: To cut by character, for cutting out sections from each line of file and writting the result to standard output.

```
$ cut -c 1,3,5 newfile
```

## Output:

```
student@t2:~/Destimona$ cut -c 1,3,5 newfile
Egi
Mts
Mly
```

ii. cut -b :To cut by byte position

\$ cut -b 1,2 newfile

Output:

```
student@t2:~/Destimona$ cut -b 1,2 newfile
En
Ma
Ma
```

iii. cut -d: To cut by delimiter

\$ cut -d - -f1 newfile

\$ cut -d - -f2 newfile

Output:

```
student@t2:~/Destimona$ cut -d - -f1 newfile
English
Maths
Malayalam
student@t2:~/Destimona$ cut -d - -f2 newfile
90
80
100
```

iv.. cut - complement : Cut by complement pattern

\$ cut - - complement -c 1 newfile

```
student@t2:~/Destimona$ cut --complement -c 1 newfile
nglish-90
aths-80
alayalam-100
```

2. paste: Paste command is used to join files consist of lines from each file horizontally outputing lines. i. \$ paste myfile1

Output:

```
student@t2:~/Destimona$ paste myfile2 myfile1
biology english
chemistry maths
physics malayalam
```

ii.\$ paste -d '%' mark1 mark2 >mark3

\$ cat mark3

```
student@t2:~/Destimona$ paste -d '%' mark1 mark2 > mark3
student@t2:~/Destimona$ cat mark3
A-90%C-80
B-80%D-60
```