Experiment No.: 3

Aim

Familirization of linux commands

CO₂

Perform system administration tasks

Procedure

1.pwd-To print working directory

\$pwd

Output Screenshot

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

2.ls-Used to list the files and contents

\$1s

Output Screenshot

```
student@t2:~$ ls
anagha Documents marvel2 Music nandanars Pictures PycharmProjects Templates 'Untitled 1.odt'
Desktop Downloads marvels nandana nrs Public snap trial Videos
```

(a).ls-R-Detailed view of sub directory

\$ls-R

Output Screenshot

(b).ls-l-long listing of contents

\$1s

Output Screenshot

```
student@t2:~$ ls -l
total 320
drwxrwxr-x 2 student student
                                4096 Mar 10 12:51
drwxr-xr-x 2 student student
                                4096 Mar 13 11:18
drwxr-xr-x 2 student student
                                4096 Jun 17
                                             2022
drwxr-xr-x 2 student student
                                4096 Mar
                                          7 16:37
-rw-rw-r-- 1 student student
                                  67 Mar
                                          9 14:59
                                                   marvel2
drwxrwxr-x 2 student student
                                4096 Mar
                                          7 17:01
                                                   marvels
drwxr-xr-x 2 student student
                                4096 Jun 17
                                             2022
drwxrwxr-x 2 student student
                                4096 Mar
                                          6 12:57
drwxrwxr-x 2 student student
                                         13 12:29
                                4096 Mar
                                                   nandanars
drwxrwxr-x 2 student student
                                          7
                                4096 Mar
                                            15:25
                                                   NES
drwxr-xr-x 3 student student
                                            12:28
                                                   Pictures
                                4096 Mar
                                         13
drwxr-xr-x 2 student student
                                         17
                                4096
                                     Jun
                                             2022
                                                   Public
drwxrwxr-x 3 student student
                                         17
                                4096
                                     Jun
                                             2022
                                                   PycharmProjects
drwx----- 3 student student
                                4096
                                     Jun
                                         17
                                             2022
drwxr-xr-x 2 student student
                                4096
                                     Jun
                                         17
                                             2022
                                                   Templates
drwxrwxr-x 2 student student
                                4096
                                    Mar
                                         10 13:03
                                                   trial
-rw-rw-r-- 1 student student 257831 Mar
                                         7
                                            16:33
                                                   'Untitled 1.odt'
drwxr-xr-x 2 student student
                                4096
                                     Jun 17
                                             2022
```

(c).ls-a-used to view hidden files

\$1s-a

Output Screenshot

(d).ls-al-Detailed information can view along with hidden files.

\$ls-al

Output Screenshot

```
tudent@t2:~$ ls -al
total 388
drwxr-xr-x 28 student student
                                 4096 Mar 10 12:54
drwxr-xr-x 6 root
                                 4096 Jun 17
                                              2022
                      root
            2 student student
                                 4096 Mar 10 12:51
drwxrwxr-x
            1 student student
                                 6812 Mar 13 12:58
                                                     .bash_history
FW-F--F--
            1 student student
                                 220 Jun 17
                                              2022
                                                     .bash_logout
- FW- F-- F--
            1 student student
                                 3771 Jun 17
                                              2022
                                                     .bashrc
drwxrwxr-x 22 student student
                                 4096 Mar
                                          13 12:27
rwxr-xr-x 18
             student student
                                 4096 Mar
                                          13
                                             12:27
drwxr-xr-x 2 student student
                                 4096 Mar
                                          13 11:18
```

(e).ls-t-To list the files sorted in order of last modified.

\$1s-t

student@t2:~\$ ls -t								
nandanars	Desktop	anagha	marvels	'Untitled 1.odt'		snap		Templates
Pictures	trial	marvel2	Downloads	nrs	PycharmProjects	Documents	Public	Videos

3.mkdir-To make a new directory

\$ mkdir anagha

Output Screenshot

```
student@t2:~$ mkdir anagha

student@t2:~$ ls
anagha Documents marvel2 Music nandanars Pictures PycharmProjects Templates 'Untitled 1.odt'
Desktop Downloads marvels nandana nrs Public snap trial Videos
```

4.cd-To navigate through directory we used cd

\$cd anagha

Output Screenshot

```
student@t2:/home$ cd --
student@t2:~$ cd anagha
student@t2:~/anagha$ cd ..
student@t2:~$ cd anagha
```

5.cd.. or cd-- -To move one directory up

\$cd-- \$cd..

Output Screenshot

```
student@t2:/home$ cd --
student@t2:~$ cd anagha
student@t2:~/anagha$ cd ..
student@t2:~$ cd anagha
```

6.history-To view the history and commands which we have been executed for a long time.

\$history

```
student@t2:~/anagha$ history
   1 ./studio.sh
      ./studio.sh
   2
     su mca
      pwd
      ls
      ls-R
      ls -R
     ls -l
     ls -a
  10
     ls -al
  11
     ls -t
     ls -r
     history
  13
  14
      man ls
  15
      mkdir nrs
  16
      pwd
  17
      cd nrs
  18
      pwd
```

7.man-We can learn &understand with different commands write from the shell using man commands.

\$manls

Output Screenshot

```
student@t2:~/anagha$ man ls
student@t2:~/anagha$ cat > arunu
read
write
dance
sing
^Z
[1]+ Stopped cat > arunu
```

8.cat-To create a new file.

\$cat > file name

Output Screenshot

```
student@t2:~/anagha$ cat > arunu
read
write
dance
sing
^Z
[1]+ Stopped cat > arunu
```

(a).cat filename-To display contents

\$cat filename

Output Screenshot

```
student@t2:~/anagha$ cat arunu
read
write
dance
sing
```

(b).cat>>-To append content to the file

\$cat >> filename

```
eat
drink
^Z
[3]+ Stopped cat >> arunu
```

(c).cat-n-To display the the line number

\$cat-n filename

Output Screenshot

```
student@t2:~/anagha$ cat -n arunu
1 read
2 write
3 dance
4 sing
5 walk
6 run
7 smile
8
9
10 eat
11 drink
```

(d).cat-b-Removing the empty line numbering

\$cat-b