#### **NETWORKING & SYSTEM ADMINISTRATION LAB**

## **Experiment No.: 3**

### <u>Aim</u>

Familiarization of basic commands.

## **Procedure**

## 1. <u>Pwd</u>

Pwd stands for print working directory .it print the path of working directory from starting to the root

\$pwd

Output:

```
student@S4:~$ pwd
/home/student
```

## 2. Mkdir

It allows the users to create directories.

Syntax: mkdir [options]....[directores]

\$mkdir athira

Output

```
student@S4:~$ mkdir athira
student@S4:~$ pwd
/home/student
```

# 3. <u>Ls</u>

It will show the full list or content of your directory

Syntax: \$ls

## Options:

Ls -l:it will show the list in longest format

Syntax: \$ls -1

Ls -r: list all files and directories with their corresponding subdirectories

Syntax: ls –r

```
student@S4:~$ ls -R
                                                                                      Templates
       DataScienceLab Documents examples.desktop Pictures PycharmProjects snap
1. py
athira Desktop
                      Downloads Music
                                                   Public
                                                             sample.py
                                                                            sum.py test
./athira:
aa ath a.txt b.txt create
./athira/aa:
./athira/ath:
./athira/create:
./DataScienceLab:
04-Julia George
```

Ls –a: list all files including hidden files starting with ..

```
student@S4:~$ ls -a
Desktop
                                                                     sum.py
Templates
test
test.cpp
                                            .oracle_jre_usage
Pictures
                    Documents
                    examples.desktop
.bash_history
                                            .profile
Public
                    .gnupg
.ICEauthority
                                                                      .thunderbird
bash logout
.bashrc
                                            PycharmProjects
cache
                     .java
.local
                                            sample.pv
                     .mozilla
```

## Ls -al: permission to the file or directory

Ls -al

```
student@S4:~$ ls -al
total 172
drwxr-xr-x 25 student student 4096 Mar 24 14:28
drwxr-xr-x 6 root root 4096 Jan 13 14:05 ..
-rw-rw-r-- 1 student student 16 Nov 1 11:38 1.py
drwxr-xr-x 2 student student 4096 Mar 24 14:28 athira
 rw------ 1 student student 116 Nov 19 08:57 .bash_htstory
  rw-r--r- 1 student student 3771 Oct 4 16:16 .bashrc
drwx----- 18 student student 4096 Dec 20 10:03 .cache
drwx----- 20 student student 4096 Dec 13 12:52 .config
drwxr-xr-x 3 student student 4096 Nov 18 11:59 DataScienceLab
drwxr-xr-x 5 student student 4096 Feb 25 11:35 Desktop
drwxr-xr-x 3 student student 4096 Oct 5 09:55 Documents
drwxr-xr-x 5 student student 4096 Feb 21 10:48 Downloads
-rw-r--r-- 1 student student 8980 Oct 4 16:16 examples.desktop
 drwx----- 3 student student 4096 Nov 1 11:21 .gnupg
-rw----- 1 student student 9664 Mar 24 14:01 .ICEauthority
drwxrwxr-x 2 student student 4096 Nov 1 11:41 .idlerc
drwxrwxr-x 4 student student 4096 Nov
                                                            1 11:44 .java
drwx----- 5 student student 4096 Nov 18 09:41 .local
drwx-----
                 5 student student 4096 Oct
                                                           5 11:38 .mozilla
drwxr-xr-x 2 student student 4096 Oct 5 09:50 Music
drwxrwxr-x 2 student student 4096 Nov 18 12:35 .oracle_jre_usage
drwxr-xr-x 2 student student 4096 Dec 20 10:22 Pictures
drwx----- 3 student student 4096 Oct 29 15:19 .pki
-rw-r--r-- 1 student student 807 Oct 4 16:16 .profile
drwxr-xr-x 2 student student 4096 Oct 5 09:50 Public
drwxrwxr-x 16 student student 4096 Jan 3 12:34 PycharmProjects
-rw-rw-r-- 1 student student 6 Nov 1 12:03 sample.py
drwx----- 3 student student 4096 Nov 1 11:44 snap
drwx----- 2 student student 4096 Nov 1 11:21 .ssh
```

<u>Ls -t:</u> command to list files or directory are sorted b last modified date in ascending order.

```
drwxr-xr-x 2 student student 4096 Oct 5 09:50 Videos
student@S4:~$ ls -t
athira Downloads Pictures test.o DataScienceLab snap 1.py Music
Desktop PycharmProjects test test.cpp sample.py sum.py Documents Public
student@S4:~$ cd athira
```

## 4. Cd

It is used to change the current working directory.

Syntax: cd dirrctory

```
student@S4:~$ cd athira
```

**Options:** 

cd...it is used to move to the parent directory of current directory.

cd-:

```
student@S4:~$ cd -
```

#### 5. Cat

It can be used to display the content of a file ,copy content from one file to another, Concantenate content of multiple files ,display lines.

## Options:

Cat > filename: To create a file.

```
student@S4:~$ cat > c.txt
familiarization of cat command
cat having different options
adding content
new file
append content
updating
adding
deleting
^Z
[1]+ Stopped
                              cat > c.txt
student@S4:~$ cat > d.txt
familiarization of diferent options
cat having differnt options
adding content
updating
deleteing
inserting
appending
^Z
[2]+ Stopped
                              cat > d.txt
```

Cat filename: Display the content of the file.

```
student@S4:~/athira$ cat a.txt
athira
```

**Cat oldfilename >newfilename:** copy content from old file to new file.

```
student@S4:~/athira$ cat a.txt > b.txt
student@S4:~/athira$ cat b.txt
athira
```

Cat -n: view content of a file preceding from the file number.

Cat -n filename

### Output:

Cat –b: remove empty lines.

#### Cat -b filename

```
student@54:-$ cat -b c.txt
1    familiarization of cat command
2    cat having different options
3    adding content
4    new file
5    append content
6    updating
7    adding
8 deleting
```