

**NETWORKING & SYSTEM ADMINISTRATION LAB****Name: Swetha Prakash****Roll No: 46****Batch: B****Date: 24/03/2022****Experiment No.: 3****Aim**

Familiarization of the linux commands.

**Procedure****1. pwd**

This command is used to display the location of the current working directory.

Syntax :-     \$ pwd

Output :-

```
student@S46:~$ pwd
/home/student
```

**2. mkdir**

This command is used to create a new directory under any directory.

Syntax :-     \$ mkdir <directory name>

Output :-

```
student@S46:~$ mkdir stardust
student@S46:~$ pwd
/home/student
```

**3. ls**

This command is used to display a list of content of directory.

Syntax :-     \$ ls

Output :-

```
student@S46:~$ ls
46.Navya  b.txt      Downloads  Music      PycharmProjects  text.txt
a         c.txt      examples.desktop  Pictures    snap              Videos
a.pdf    Desktop   h.txt      popo       stardust          y.txt
b        Documents leapyear.py  Public     Templates
```

#### 4. man

This command is used to display the user manual of any command that we can run on the terminal.

Syntax :- \$ man <command name>

Output :-

```
student@S46:~$ man pwd
```

#### 5. ls -l

This command is used to shows file or directory, size, modified date and time, file or folder name and owner of the file, and its permission.

Syntax :- \$ ls -l

Output:-

```
student@S46:~$ ls -l
total 92
drwxrwxr-x  2 student student 4096 Feb 25 13:00 46.Navya
-rw-r--r--  1 student student   0 Jan 18  2020 a
-rw-r--r--  1 student student   0 Jan 18  2020 a.pdf
drwxr-xr-x  2 student student 4096 Jan 14  2020 b
-rw-r--r--  1 student student   6 Jan 14  2020 b.txt
-rw-r--r--  1 student student  25 Jan 14  2020 c.txt
drwxr-xr-x  7 student student 4096 Nov 19 11:55 Desktop
drwxr-xr-x  2 student student 4096 Dec 20 10:50 Documents
drwxr-xr-x  2 student student 4096 Dec 20 11:23 Downloads
-rw-r--r--  1 student student 8980 Jan  3  2020 examples.desktop
-rw-r--r--  1 student student  13 Jan 14  2020 h.txt
drwxrwxr-x  4 student student 4096 Nov 24 10:27 leapyear.py
drwxr-xr-x  2 student student 4096 Jan  3  2020 Music
drwxr-xr-x  2 student student 4096 Feb 21 09:44 Pictures
drwxr-xr-x  4 student student 4096 Jan 13  2020 popo
drwxr-xr-x  2 student student 4096 Jan  3  2020 Public
drwxrwxr-x 10 student student 4096 Nov 26 10:06 PycharmProjects
drwx----- 4 student student 4096 Feb 10  2020 snap
drwxr-xr-x  2 student student 4096 Mar 24 14:29 stardust
drwxr-xr-x  2 student student 4096 Jan  3  2020 Templates
```

#### 6. ls -r

This command is used to display files and directories in reverse order.

Syntax :- `$ls -r`

Output :-

```
student@S46:~$ ls -r
y.txt      stardust    popo        h.txt      Desktop    a.pdf
Videos     snap        Pictures     examples.desktop  c.txt      a
text.txt   PycharmProjects Music       Downloads   b.txt      46.Navya
Templates  Public      leapyear.py Documents    b
```

## 7. ls -a

This command is used to list all files including hidden files.

Syntax :- `$ls -a`

Output :-

```
student@S46:~$ ls -a
.          .config      leapyear.py  snap
..         c.txt        .local       .ssh
46.Navya   Desktop     .mozilla     stardust
a          Documents   Music        Templates
a.pdf     Downloads  .oracle_jre_usage text.txt
b         examples.desktop Pictures      .thunderbird
.bash_history .gitconfig  popo         Videos
.bash_logout .gnupg      .profile     y.txt
.bashrc      h.txt       Public
b.txt        .ICEauthority .PyCharmCE2019.3
.cache       .java       PycharmProjects
```

## 8. ls -al

This command is used to

Syntax :- `$ ls -al`

Output :-

```
student@S46:~$ ls -al
total 188
drwxr-xr-x 27 student student 4096 Mar 24 14:29 .
drwxr-xr-x  7 root    root    4096 Jan 13 14:42 ..
drwxrwxr-x  2 student student 4096 Feb 25 13:00 46.Navya
-rw-r--r--  1 student student   0 Jan 18  2020 a
-rw-r--r--  1 student student   0 Jan 18  2020 a.pdf
drwxr-xr-x  2 student student 4096 Jan 14  2020 b
-rw-----  1 student student 11952 Nov 24 10:07 .bash_history
-rw-r--r--  1 student student  220 Jan  3  2020 .bash_logout
-rw-r--r--  1 student student 3771 Jan  3  2020 .bashrc
-rw-r--r--  1 student student   6 Jan 14  2020 b.txt
drwx----- 20 student student 4096 Nov 18 09:38 .cache
drwx----- 19 student student 4096 Nov 22 08:55 .config
-rw-r--r--  1 student student  25 Jan 14  2020 c.txt
drwxr-xr-x  7 student student 4096 Nov 19 11:55 Desktop
drwxr-xr-x  2 student student 4096 Dec 20 10:50 Documents
```

## 9. ls -t

This command is used to display files in the last modified order.

Syntax :- `$ ls -t`

Output :-

```
student@S46:~$ ls -t
stardust  Downloads      Desktop  b      b.txt  Templates
46.Navya  Documents      snap     y.txt  popo   Videos
Pictures  PycharmProjects a.pdf    h.txt  Music  examples.desktop
text.txt  leapyear.py    a        c.txt  Public
```

## 10. cd

This command is used to change the current directory.

Syntax :- `$ cd <directory name>`

Output :-

```
student@S46:~$ cd stardust
student@S46:~/stardust$ cd ..
```

## 11. cd ..

This command is used to move to the parent directory of current directory, or the directory one level up from the current directory.

Syntax :- `$ cd ..`

Output :-

```
student@S46:~/stardust$ cd ..
student@S46:~$ cd -
```

## 12. cd -

This command is used to switch back to previous directory we were working earlier.

Syntax :- `$ cd -`

Output :-

```
student@S46:~$ cd -
/home/student/stardust
```

### 13. cat > filename

This command is used to create a file and add contents to that file.

Syntax :- `$ cat > filename.txt`

Output :-

```
student@S46:~/stardust$ cat >a.txt
Nertwork is good
^Z
[1]+  Stopped                  cat > a.txt
```

### 14. cat>>filename

This command is used to add contents to an existing file.

Syntax :- `$ cat >> filename.txt`

Output :-

```
student@S46:~/stardust$ cat>>a.txt
r1mca136
^Z
[2]+  Stopped                  cat >> a.txt
```

### 15. cat filename

This command is used to view the contents in the file.

Syntax :- `$ cat filename.txt`

Output :-

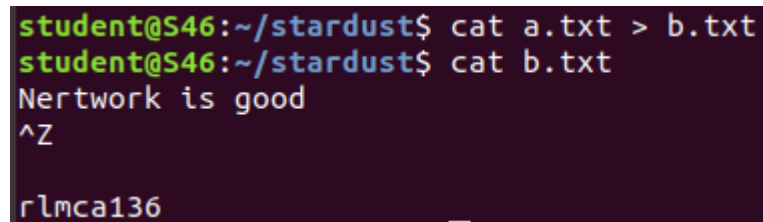
```
student@S46:~/stardust$ cat a.txt
Nertwork is good
^Z
r1mca136
```

**16. cat filename1 > filename2**

This command is used to copy the content from one file to another file.

Syntax :-     \$ cat filename1 > filename2

Output :-



```
student@S46:~/stardust$ cat a.txt > b.txt
student@S46:~/stardust$ cat b.txt
Nertwork is good
^Z
rlmca136
```