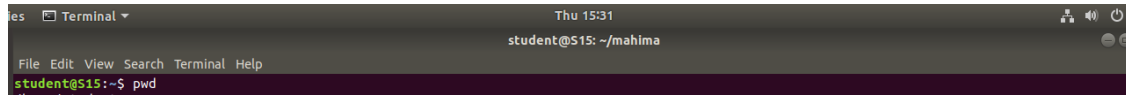AIM: Familiarization of Linux Commands

PROCEDURE
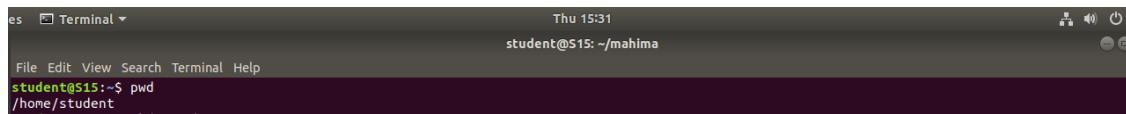
1. pwd

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

Syntax:
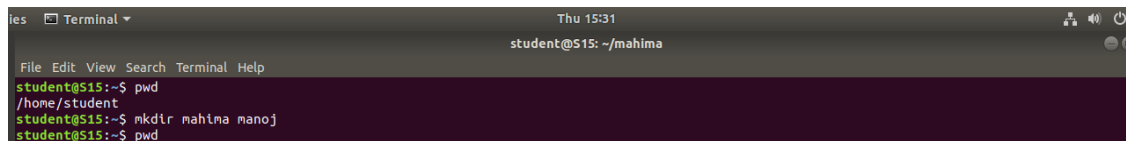
Output:
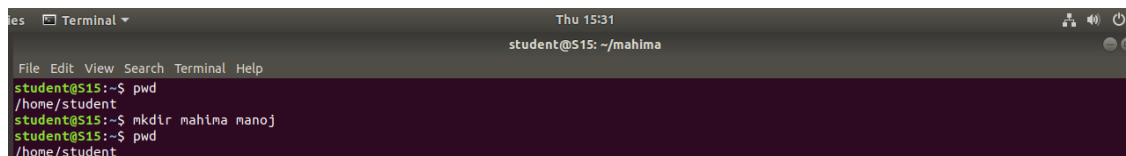
2. mkdir

The mkdir command is used to create a new directory under any directory.

Syntax:

Output:

3. ls

The ls command is used to display a list of content of a directory.

Syntax:

Output:

- ls –l

Syntax:

```
student@S16:~$ ls -l
```

Output:

```
student@S15:~$ ls -l
total 64
drwxr-xr-x  2 student student 4096 Dec 10 11:13 Desktop
drwxr-xr-x  6 student student 4096 Feb 21 09:00 Documents
drwxr-xr-x  3 student student 4096 Jan  7 12:56 Downloads
-rw-r--r--  1 student student 8980 Nov 19 10:02 examples.desktop
-rw-r--r--  1 student student 1746 Mar 24 14:33 ls-l
drwxr-xr-x  2 student student 4096 Mar 24 14:30 mahima
drwxr-xr-x  2 student student 4096 Mar 24 14:30 manoj
drwxr-xr-x  2 student student 4096 Nov 19 10:03 Music
drwxr-xr-x  3 student student 4096 Jan  7 10:41 Pictures
drwxr-xr-x  2 student student 4096 Nov 19 10:03 Public
drwxrwxr-x 11 student student 4096 Dec 13 11:08 PycharmProjects
drwx------  5 student student 4096 Nov 22 08:57 snap
drwxr-xr-x  2 student student 4096 Nov 19 10:03 Templates
drwxr-xr-x  2 student student 4096 Nov 19 10:03 Videos
```

- ls –a

Syntax:

```
student@S16:~$ ls -a
```

Output:

```
student@S16:~$ ls -a
.                   F1                  .profile
..                  fact.py             ptrn.py
12.py               file1.txt           Public
15.py               file.txt            .PyCharmCE2018.3
ajce                functio.py          .PyCharmCE2019.2
'Anooja s3'         .gimp-2.8           PycharmProjects
aravind             .gitconfig          rin-gitrepos
ashi                .gnupg              s2
ashishel            .ICEauthority       s2inmca
.bash_history       .idlerc             S.class
.bash_logout        inmca               S.java
.bashrc             inmcas2             snap
.cache              '<invalid path>'    ss
'CD LAB'            '<invalid path>.layout'  .ssh
.config             .java               Templates
```

- ls –r

Syntax:

```
student@S16:~$ ls -r
```

Output:

```
student@S15:~$ ls -R
.:
Desktop      examples.desktop  manoj    Public          Templates
Documents    ls-l              Music    PycharmProjects Videos
Downloads    mahima            Pictures snap

./Desktop:
1078_1639101069_Program_list_Dec10.pdf

./Documents:
'AleenaMol Roy'  'ANNA POPS'   james   temp
```

- ls –al

Syntax:

```
student@S16:~$ ls -al
```

Output:

```
student@S15:~$ ls -al
total 136
drwxr-xr-x 23 student student 4096 Mar 24 14:33 .
drwxr-xr-x  6 root    root    4096 Jan 13 14:15 ..
-rw-------  1 student student   21 Mar 24 14:29 .bash_history
-rw-r--r--  1 student student  220 Nov 19 10:02 .bash_logout
-rw-r--r--  1 student student 3771 Nov 19 10:02 .bashrc
drwx------ 16 student student 4096 Dec 13 09:59 .cache
drwx------ 17 student student 4096 Dec 17 11:59 .config
drwxr-xr-x  2 student student 4096 Dec 10 11:13 Desktop
drwxr-xr-x  6 student student 4096 Feb 21 09:00 Documents
drwxr-xr-x  3 student student 4096 Jan  7 12:56 Downloads
-rw-r--r--  1 student student 8980 Nov 19 10:02 examples.desktop
drwx------  3 student student 4096 Nov 19 10:04 .gnupg
-rw-------  1 student student 8868 Mar 24  2022 .ICEauthority
drwxrwxr-x  4 student student 4096 Nov 19 10:04 .java
drwx------  3 student student 4096 Nov 19 10:03 .local
-rw-r--r--  1 student student 1746 Mar 24 14:33 ls-l
drwxr-xr-x  2 student student 4096 Mar 24 14:30 mahima
drwxr-xr-x  2 student student 4096 Mar 24 14:30 manoj
drwx------  5 student student 4096 Nov 26 10:09 .mozilla
drwxr-xr-x  2 student student 4096 Nov 19 10:03 Music
drwxrwxr-x  2 student student 4096 Nov 22 08:59 .oracle_jre_usage
drwxr-xr-x  3 student student 4096 Jan  7 10:41 Pictures
-rw-r--r--  1 student student  807 Nov 19 10:02 .profile
drwxr-xr-x  2 student student 4096 Nov 19 10:03 Public
drwxrwxr-x 11 student student 4096 Dec 13 11:08 PycharmProjects
drwx------  5 student student 4096 Nov 22 08:57 snap
drwx------  2 student student 4096 Nov 19 10:04 .ssh
drwxr-xr-x  2 student student 4096 Nov 19 10:03 Templates
drwx------  4 student student 4096 Nov 19 10:20 .thunderbird
drwxr-xr-x  2 student student 4096 Nov 19 10:03 Videos
```

- ls –t

Syntax:

```
student@S16:~$ ls -t
```

Output:

```
student@S15:~$ ls -t
ls-l      Documents  PycharmProjects  Music     Videos
mahima    Downloads  Desktop          Public    examples.desktop
manoj     Pictures   snap             Templates
```

4. cd

The cd command is used to change the current directory.

Syntax:

```
student@S15:~$ cd mahima
student@S15:~/mahima$ cd ..
student@S15:~$ cd -
```

Output:

```
student@S15:~$ cd mahima
student@S15:~/mahima$ cd ..
student@S15:~$ cd -
/home/student/mahima
```

5. cat

The cat command is a multi-purpose utility in the Linux system. It can be used to create a file, display content of the file, copy the content of one file to another file, and more.

Syntax:

```
student@S15:~/mahima$ cat a.txt
cat: a.txt: No such file or directory
student@S15:~/mahima$ cat > a.txt
```

Output:

```
student@S15:~/mahima$ cat a.txt
cat: a.txt: No such file or directory
student@S15:~/mahima$ cat > a.txt
Network and system administration
^Z
[1]+  Stopped                 cat > a.txt
```

Syntax:

```
student@S15:~/mahima$ cat >> a.txt
Hai Hello
^Z
[2]+  Stopped                 cat >> a.txt
```

Output:

```
student@S15:~/mahima$ cat a.txt
Network and system administration
Hai Hello
```

Syntax:

```
student@S15:~/mahima$ cat a.txt > cat b.txt
cat: b.txt: No such file or directory
student@S15:~/mahima$ cat a.txt > b.txt
student@S15:~/mahima$ cat b.txt
```

Output:

```
student@S15:~/mahima$ cat a.txt > b.txt
student@S15:~/mahima$ cat b.txt
Network and system administration
Hai Hello
```