

AIM: Familiarization of Linux Commands

PROCEDURE

1. pwd

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

Syntax:

```
student@S28:~$ pwd
```

Output:

```
student@S28:~$ pwd
/home/student
```

2. mkdir

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

Syntax:

```
student@S28:~$ mkdir ritty
```

Output:

```
student@S28:~$ mkdir ritty
```

3. ls

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

Syntax:

```
student@S28:~$ ls
```

Output:

```
student@S28:~$ ls
Desktop  Documents  Downloads  examples.desktop  Music  Pictures  Public  ritty  snap  Templates  Videos
```

- ls -l

Syntax:

```
student@S28:~$ ls -l
```

Output:

```
student@S28:~$ ls -l
total 52
drwxr-xr-x 2 student student 4096 Feb 25 12:55 Desktop
drwxr-xr-x 2 student student 4096 May 30 2018 Documents
drwxr-xr-x 2 student student 4096 May 30 2018 Downloads
-rw-r--r-- 1 student student 8980 May 30 2018 examples.desktop
drwxr-xr-x 2 student student 4096 May 30 2018 Music
drwxr-xr-x 2 student student 4096 May 30 2018 Pictures
drwxr-xr-x 2 student student 4096 May 30 2018 Public
drwxr-xr-x 2 student student 4096 Mar 24 14:29 ritty
drwx----- 3 student student 4096 Feb 25 12:59 snap
drwxr-xr-x 2 student student 4096 May 30 2018 Templates
drwxr-xr-x 2 student student 4096 May 30 2018 Videos
```

- `ls -a`

Syntax:

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

Output:

```
student@S28:~$ ls -a
.          .bash_logout  .config  Downloads  .ICEauthority  Music  .profile  snap  Videos
..         .bashrc      Desktop  examples.desktop  .local         .oracle_jre_usage  Public  .ssh
.bash_history  .cache      Documents  .gnupg      .mozilla       Pictures  ritty  Templates
```

- `ls -r`

Syntax:

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

Output:

```
student@S28:~$ ls -r
Videos Templates snap ritty Public Pictures Music examples.desktop Downloads Documents Desktop
```

- `ls -al`

Syntax:

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

Output:

```
student@S16:~$ ls -al
total 2400
drwxr-xr-x 55 student student 4096 Mar 24 14:29 .
drwxr-xr-x 6 root root 4096 Jan 13 14:14 ..
-rw-rw-r-- 1 student student 115 Mar 8 2019 12.py
-rw-rw-r-- 1 student student 183 Mar 8 2019 15.py
drwxr-xr-x 3 student student 4096 Feb 7 2019 ajce
drwxrwxr-x 2 student student 4096 Jan 17 2020 'Anooja s3'
drwxr-xr-x 2 student student 4096 Mar 28 2019 aravind
drwxr-xr-x 3 student student 4096 Feb 3 2020 ash1
drwxr-xr-x 2 student student 4096 Mar 5 2020 ashishel
-rw-r----- 1 student student 8762 Dec 6 11:43 .bash_history
-rw-r--r-- 1 student student 220 Nov 22 2018 .bash_logout
-rw-r--r-- 1 student student 3771 Nov 22 2018 .bashrc
drwx----- 28 student student 4096 Jan 7 12:47 .cache
drwxr-xr-x 2 student student 4096 Feb 13 2019 'CD LAB'
drwx----- 24 student student 4096 Feb 21 09:20 .config
drwxr-xr-x 2 student student 4096 Feb 10 2020 D1
drwxr-xr-x 2 student student 4096 Feb 10 2020 D2
drwxr-xr-x 2 student student 4096 Feb 10 2020 D3
drwxr-xr-x 7 student student 4096 Nov 26 10:06 Desktop
drwxr-xr-x 7 student student 4096 Feb 25 11:27 Documents
drwxr-xr-x 6 student student 12288 Mar 2 14:15 Downloads
drwxr-xr-x 4 student student 4096 Feb 10 2020 E1
```

```
File Edit View Search Terminal Help
drwxr-xr-x 6 student student 12288 Mar 2 14:15 Downloads
drwxr-xr-x 4 student student 4096 Feb 10 2020 E1
drwxr-xr-x 2 student student 4096 Feb 10 2020 E2
drwxr-xr-x 2 student student 4096 Feb 10 2020 E3
drwxr-xr-x 2 student student 4096 Apr 4 2019 echo
drwxrwxr-x 4 student student 4096 Oct 19 2019 eventcal
-rw-r--r-- 1 student student 8980 Nov 22 2018 examples.desktop
drwxr-xr-x 2 student student 4096 Feb 10 2020 F1
-rw-rw-r-- 1 student student 129 Mar 1 2019 fact.py
-rwxr--r-- 1 student student 113 Sep 30 12:27 file1.txt
-rw-r--r-- 1 student student 22 Apr 4 2019 file.txt
-rw-rw-r-- 1 student student 162 Mar 8 2019 functio.py
drwxr-xr-x 24 student student 4096 Apr 6 2019 .gimp-2.8
-rw-r--r-- 1 student student 26 Apr 30 2019 .gitconfig
drwx----- 3 student student 4096 Nov 23 2018 .gnupg
-rw-r----- 1 student student 33966 Mar 24 2022 .ICEauthority
drwxrwxr-x 2 student student 4096 Feb 1 2019 .idlcrc
drwxr-xr-x 2 student student 4096 Apr 4 2019 innmca
drwxr-xr-x 2 student student 4096 Apr 4 2019 innmcas2
-rw-rw-r-- 1 student student 1285 Feb 13 2019 '<invalid path>'
-rw-rw-r-- 1 student student 360 Feb 13 2019 '<invalid path>.layout'
drwxrwxr-x 4 student student 4096 Feb 1 2019 .java
-rw-r--r-- 1 student student 2048582 Apr 4 2019 'java.net.*'
drwx----- 5 student student 4096 Dec 6 11:30 .local
drwxr-xr-x 2 student student 4096 Mar 24 14:29 malabika
-rw-rw-r-- 1 student student 163 Mar 1 2019 max1.py
drwx----- 5 student student 4096 Nov 23 2018 .mozilla
drwxr-xr-x 2 student student 4096 Nov 22 2018 Music
-rw-r----- 1 student student 12288 Feb 24 2020 .numeric.sh.swo
-rw-r----- 1 student student 12288 Feb 24 2020 .numeric.sh.swp
drwxrwxr-x 2 student student 4096 Feb 1 2019 .oracle_jre_usage
-rwxr-xr-x 1 student student 129 Feb 24 2020 pass.sh
drwxr-xr-x 2 student student 4096 Nov 26 12:46 Pictures
drwx----- 3 student student 4096 Nov 29 11:22 .pkl
-rw-r--r-- 1 student student 807 Nov 22 2018 .profile
-rw-rw-r-- 1 student student 106 Mar 1 2019 ptrn.py
drwxr-xr-x 2 student student 4096 Nov 22 2018 Public
drwxrwxr-x 3 student student 4096 Dec 17 10:18 .PyCharmCE2018.3
```

```
File Edit View Search Terminal Help
drwxr-xr-x 2 student student 4096 Nov 22 2018 Public
drwxrwxr-x 3 student student 4096 Dec 17 10:18 .PyCharmCE2018.3
drwxrwxr-x 3 student student 4096 Dec 17 10:18 .PyCharmCE2019.2
drwxrwxr-x 11 student student 4096 Nov 19 08:57 PycharmProjects
drwxr-xr-x 4 student student 4096 Apr 30 2019 rln-gitrepos
drwxr-xr-x 2 student student 4096 Apr 4 2019 s2
drwxr-xr-x 2 student student 4096 Apr 4 2019 s2lnmca
-rw-r--r-- 1 student student 1305 Apr 4 2019 S.class
-rw-r--r-- 1 student student 1310 Apr 4 2019 S.java
drwx----- 4 student student 4096 Aug 27 2019 snap
drwxr-xr-x 4 student student 4096 Dec 10 11:19 ss
drwx----- 2 student student 4096 Nov 23 2018 .ssh
drwxr-xr-x 2 student student 4096 Nov 22 2018 Templates
drwx----- 3 student student 4096 Apr 5 2019 .thumbnails
drwx----- 4 student student 4096 Nov 23 2018 .thunderbird
drwxr-xr-x 2 student student 4096 Apr 4 2019 twoway
drwxr-xr-x 2 student student 4096 Apr 4 2019 twoway.java
drwxr-xr-x 2 student student 4096 Apr 4 2019 udp
drwxr-xr-x 2 student student 4096 Apr 4 2019 udp1
-rw-r--r-- 1 student student 1034 Apr 4 2019 udpBaseClient_2.class
-rw-r--r-- 1 student student 1019 Apr 4 2019 udpBaseClient_2.java
drwxrwxr-x 5 student student 4096 Feb 24 2020 untitled1
drwxr-xr-x 2 student student 4096 Nov 22 2018 Videos
drwxr-xr-x 5 student student 4096 Mar 13 2019 wordpress
-rw-rw-r-- 1 student student 131 Jan 14 11:40 .xinputrc
student@S16:~$ ls -lt
malabika 'Anooja s3' aravind
Downloads eventcal wordpress
Documents snap 15.py
ss rln-gitrepos 12.py
Pictures s2lnmca functio.py
Desktop lnmcas2 ptrn.py
PycharmProjects s2 max1.py
file1.txt file.txt 'fact.py'
ashishel 'invalid path' '<invalid path>.layout'
pass.sh udpBaseClient_2.class 'CD LAB'
untitled1 udpBaseClient_2.java
```

- ls -t

Syntax:

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

Output:

```
student@S28:~$ ls -t
ritty snap Desktop Documents Downloads Music Pictures Public Templates Videos examples.desktop
```

4. cd

The cd command is used to change the current directory.

Syntax:

```
student@S28:~$ cd ritty
```

```
student@S28:~$ cd -
/home/student/ritty
```

```
student@S28:~/ritty$ cd ..
```

```
student@S28:~/ritty$ cat > a.txt
network and system administration lab
```

Output:

```
student@S28:~$ cd ritty
```

```
student@S28:~$ cd -
/home/student/ritty
```

```
student@S28:~/ritty$ cd ..
```

```
student@S28:~/ritty$ cat > a.txt
network and system administration lab
```

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@S28:~/ritty$ cat >> a.txt
Rittxcgfbhjh
```

```
student@S28:~/ritty$ cat a.txt
network and system administration lab
```

```
student@S28:~/ritty$ cat a.txt . b.txt
network and system administration lab
Rittxcgfbhjh
cat: .: Is a directory
student@S28:~/ritty$ cat a.txt > b.txt
student@S28:~/ritty$ cat a.txt
network and system administration lab
Rittxcgfbhjh
student@S28:~/ritty$ cat a > b.txt
cat: a: No such file or directory
student@S28:~/ritty$ cat b.txt
network and system administration lab
Rittxcgfbhjh
```

Output:

```
student@S28:~/ritty$ cat >> a.txt
Rittxcgfbhjh
student@S28:~/ritty$ cat a.txt
network and system administration lab
student@S28:~/ritty$ cat a.txt . b.txt
network and system administration lab
Rittxcgfbhjh
cat: .: Is a directory
student@S28:~/ritty$ cat a.txt > b.txt
student@S28:~/ritty$ cat a.txt
network and system administration lab
Rittxcgfbhjh
student@S28:~/ritty$ cat a > b.txt
cat: a: No such file or directory
student@S28:~/ritty$ cat b.txt
network and system administration lab
Rittxcgfbhjh
```