

NETWORKING & SYSTEM ADMINISTRATION LAB

Experiment No.: 3

Aim

Familiarization of linux commands.

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Roll No: 18

Batch: B

Date: 25-03-22

Procedure

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

Output:

```
student@T70:~$ pwd
/home/student
```

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

Output:

```
student@T70:~$ mkdir mathew1
student@T70:~$ pwd
/home/student
```

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

Output:

```
/home/student
student@T70:~$ ls
area.py      file1.txt      Music        Public
arithmetic.py hlo.ads        Pictures     PycharmProjects
Aron         insertion sort prgm2        q22.py
athul_jose   '<invalid path>.layout' prgm2.o     sample
d1           j.txt          prgm3.c     sample.cpp
```

4. ls -l: It is used to list informations about files and directories within the file system.

Output:

```
student@T70:~$ ls -l
total 192
-rw-rw-r-- 1 student student 101 Nov 1 12:54 area.py
-rw-rw-r-- 1 student student 661 Nov 29 13:01 arithmetic.py
drwxrwxr-x 2 student student 4096 Feb 25 13:00 Aron
drwxr-xr-x 3 student student 4096 Feb 15 14:11 athul_jose
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 3 student student 4096 Dec 10 12:50 Desktop
drwxr-xr-x 5 student student 4096 Dec 20 10:31 Documents
drwxr-xr-x 4 student student 4096 Feb 21 10:32 Downloads
drwxr-xr-x 3 student student 4096 Feb 10 2020 E2
```

5. ls -r: display files and directories in reverse order.

Output:

```
student@T70:~$ ls -r
Videos          prgm6.o        math.py         Downloads
Templates       prgm6          mathew1         Documents
snap            prgm4.o        mathew          Desktop
sample.o        prgm4.c        leapyear.py     d2
sample.cpp      prgm3.c        j.txt           d1
sample          prgm2.o        '<invalid path>.layout' athul_jose
q22.py          prgm2          insertion sort  Aron
PycharmProjects Pictures        hlo.ads         arithmetic.py
Public          Music          file1.txt       2503.py
```

6. ls -a: List all files including hidden files starting with ‘.’.

Output:

```
student@T70:~$ ls -a
.          E2          mathew       prgm6
..         file1.txt   mathew1      prgm6.o
area.py    .gnome     math.py      project.c
arithmetic.py .gnupg     .mozilla     Public
Aron       hlo.ads    m.txt        PycharmProjects
athul_jose .ICEauthority Music        q22.py
.bash_history .idea      .oracle_jre_usage sample
.cache       .idlerc    Pictures     sample.cpp
.config      insertion sort .pki        sample.o
```

7. ls -al: List all files and directories along with detailed information.

Output:

```
student@T70:~$ ls -al
total 268
drwxr-xr-x 32 student student 4096 Mar 25 13:34 .
drwxr-xr-x 6 root root 4096 Jan 13 14:36 ..
-rw-rw-r-- 1 student student 101 Nov 1 12:54 area.py
-rw-rw-r-- 1 student student 661 Nov 29 13:01 arithmetic.py
drwxrwxr-x 2 student student 4096 Feb 25 13:00 Aron
drwxr-xr-x 3 student student 4096 Feb 15 14:11 athul_jose
-rw----- 1 student student 6151 Mar 25 13:34 .bash_history
drwxrwxr-x 18 student student 4096 Mar 15 10:17 .cache
```

8. ls -t: It will show all list of files in last modified order.

Output:

```
student@T70:~$ ls -t
mathew1      sample.cpp      q22.py          prgm4.c
mathew       Music          d1              prgm3.c
Aron         Pictures        d2              prgm2
Downloads    Public          E2              prgm2.o
athul_jose   Templates      j.txt           file1.txt
Documents    arithmetic.py   m.txt           '<invalid path>.layout'
PycharmProjects leapyear.py     insertionSort   hlo.ads
Desktop      math.py         prgm6           project.c
sample      sample.c        sample.c        Videos
```

9. cd: The cd command is used to change the current directory.

Output:

```
student@T70:~$ cd
student@T70:~$ cd ..
student@T70:/home$ cd mathew1
bash: cd: mathew1: No such file or directory
student@T70:/home$ cd mathew2
bash: cd: mathew2: No such file or directory
student@T70:/home$ cd
```

10. cd .. : To change the directory to parent directory of the current working directory

Output:

```
student@T70:/home$ cd
student@T70:~$ cd ..
student@T70:/home$ cd -
```

11. cd - : To change to the previous directory from the current working directory

Output:

```
student@T70:/home$ cd -
/home/student
student@T70:~$ cat n.txt
```

12. cat > filename: To create new file.

Output:

```
student@T70:~$ cat >n.txt
hello mathew1
hi
^Z
[1]+  Stopped                  cat > n.txt
```

13. Cat filename: For viewing the file.

Output:

```
student@T70:~$ cat n.txt  
hello mathew1  
hi
```

14. Cat >> filename: For adding additional information to that file.

Output:

```
student@T70:~$ cat >>n.txt  
good morning  
^Z  
[2]+  Stopped                  cat >> n.txt
```

15. Cat filename: For viewing the file with additional information.

Output:

```
[2]+  Stopped                  cat >> n.txt  
student@T70:~$ cat n.txt  
hello mathew1  
hi  
good morning
```

16. Cat filename1 > filename2 :To copy the contents of one file to another file.

Output:

```
student@T70:~$ cat n.txt>b.txt
```

17. Cat filename2: Display the contents in the newly created file.

Output:

```
student@T70:~$ cat b.txt  
hello mathew1  
hi  
good morning
```