

NETWORKING & SYSTEM ADMINISTRATION LAB**Name: ATHUL VINAYAKUMAR****Roll No:5****Batch: MCA B****Date:25/03/2021****Experiment No: 3****Aim**

Familiarization of Linux commands.

Procedure

1. **\$pwd:** This command is used to print working directory starting from the root.

Output:

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

2. **\$mkdir:** This command is used to make new directory.

Output:

```
student@SS:~$ mkdir athul
```

3. **\$man:** This command is used to display the user manual of any command that we can run on the terminal.

Output:

```
student@SS:~$ man ls
```

4. **\$ls :** It is used to list the contents of current working directory.

Output:

```
student@SS:~$ ls
a          file1.txt
a1         file.tht
achu.txt  good
ajce      gopu.txt
al        '<invalid path>'
albert    '<invalid path>.layout'
```

5. \$ls -l: This command is used to list the contents of directory in table format with columns.

Output:

```
student@SS:~$ ls -l
total 308
drwxr-xr-x 2 student student 4096 Jan 18 2020 a
drwxr-xr-x 3 student student 4096 Jan 18 2020 a1
-rw-r--r-- 1 student student 15 Jan 16 2020 achu.txt
drwxr-xr-x 3 student student 4096 Feb 7 2019 ajce
drwxr-xr-x 2 student student 4096 Apr 4 2019 al
drwxr-xr-x 2 student student 4096 Jan 22 2020 albert
drwxr-xr-x 2 student student 4096 Mar 28 2019 albin
drwxr-xr-x 2 student student 4096 Feb 3 2020 am
-rw-r--r-- 1 student student 15 Jan 23 2020 ama
drwxr-xr-x 2 student student 4096 Feb 3 2020 amal
-rw-r--r-- 1 student student 12 Jan 16 2020 amal.txt
drwxr-xr-x 2 student student 4096 Jan 23 2020 amm
-rw-r--r-- 1 student student 12 Jan 16 2020 appu.txt
-rw-rw-r-- 1 student student 60 Nov 1 11:43 a.py
drwxr-xr-x 1 student student 75 Jan 18 2020 a.sh
drwxr-xr-x 2 student student 4096 Mar 31 14:09 athul
drwxr-xr-x 2 student student 4096 Jan 18 2020 b
-rw-rw-r-- 1 student student 177 Nov 1 13:07 b.py
drwxr-xr-x 1 student student 76 Jan 18 2020 b.sh
-rw-r--r-- 1 student student 1628 Apr 4 2019 clientecho.class
-rw-r--r-- 1 student student 897 Apr 4 2019 clientecho.java
-rw-r--r-- 1 student student 1016 Apr 4 2019 client.class
-rw-r--r-- 1 student student 1595 Apr 4 2019 clientcomm.class
-rw-r--r-- 1 student student 1733 Apr 4 2019 clientcomm.java
-rw-r--r-- 1 student student 969 Apr 4 2019 client.java
-rw-rw-r-- 1 student student 10 Nov 22 2018 Concatenation.c
drwxrwxr-x 2 student student 4096 Jan 3 11:34 'Data science & Machine Learning lab'
```

6. \$ls -al: This command is used to list files or directories in a table format with extra information with including hidden files or directories.

Output:

```
student@SS:~$ ls -al
total 480
drwxr-xr-x 46 student student 4096 Mar 31 14:09 .
drwxr-xr-x 6 root root 4096 Jan 13 14:07 ..
drwxr-xr-x 2 student student 4096 Jan 18 2020 a
drwxr-xr-x 3 student student 4096 Jan 18 2020 a1
-rw-r--r-- 1 student student 15 Jan 16 2020 achu.txt
drwxr-xr-x 3 student student 4096 Feb 7 2019 ajce
drwxr-xr-x 2 student student 4096 Apr 4 2019 al
drwxr-xr-x 2 student student 4096 Jan 22 2020 albert
drwxr-xr-x 2 student student 4096 Mar 28 2019 albin
drwxr-xr-x 2 student student 4096 Feb 3 2020 am
-rw-r--r-- 1 student student 15 Jan 23 2020 ama
drwxr-xr-x 2 student student 4096 Feb 3 2020 amal
-rw-r--r-- 1 student student 12 Jan 16 2020 amal.txt
drwxr-xr-x 2 student student 4096 Jan 23 2020 amm
-rw-r--r-- 1 student student 12 Jan 16 2020 appu.txt
-rw-rw-r-- 1 student student 60 Nov 1 11:43 a.py
-rwxr-xr-x 1 student student 75 Jan 18 2020 a.sh
drwxr-xr-x 2 student student 4096 Mar 31 14:09 athul
```

7. **\$ls -a:** This command is used to list files or directories including hidden files or directories.

Output:

```
student@S5:~$ ls -a
.          gopu.txt
..         .ICEauthority
a          .idlerc
a1         '<invalid path>'
achu.txt  '<invalid path>.layou
ajce      .java
al        jesna
albert    leap.sh
albin     .local
am        loop
ama       mcas2
amal      min.sh
amal.txt  mkdir
amm       mod.sh
appu.txt  .mozilla
a.py      .m.sh.swp
a.sh      mul.sh
athul     multy.sh
```

8. **\$ls -r:** This command is used to display the contents of subdirectories.

Output:

```
student@S5:~$ ls -r
w          f123.tar.gz
Videos     f1
Untitled1.ads  examples.desktop
Templates   'er Commands
s.sh       e
snap       d.sh
sh.sh      Downloads
sethu      Documents
server.java div.sh
serverecho.java Desktop
serverecho.class 'Data science & Machine
servercomm.java Concatenation.c
servercomm.class client.java
server.class  clientcomm.java
s2mca        clientcomm.class
PycharmProjects client.class
Public       clentecho.java
prime.sh    clentecho.class
Pictures    b.sh
pass.sh     b.py
new         b
Music       athul
```

9. **\$ls-t:** It is used to list files or directories and sort by last modified date in descending order(biggest to smallest).

Output:

```
student@S5:~$ ls -t
athul          leap.sh      albert      achu.txt    serverecho.class
Downloads     pass.sh     d.sh        gopu.txt    serverecho.java
```

10. **\$cd:** This command is used to change current working directory in linux.

Output:

```
student@S5:~$ cd
```

11. **\$cd ..:** This command is used to move to parent directory of current directory.

Output:

```
student@S5:~$ cd ..
```

12. **\$cd -:** This command is used to change to previous directory.

Output:

```
student@S5:/home$ cd -
/home/student
```

13. **\$cat filename.type:** It is used to display contents on the file.

Output:

```
student@S5:~$ cat
```

14. \$cat >filename.type: Its is used to create filename and contents can be added on the terminal itself.

Output:

```
student@S5:~$ cat > a.txt
hello
^Z
[3]+  Stopped                  cat > a.tx
```

15. \$cat >>filename.type: It is used to append content to existing file.

Output:

```
student@S5:~$ cat >> a.txt
hello world
^Z
[4]+  Stopped                  cat >> a.t
```

16. \$cat filename.type > filename2.type: This command is used to copy contents of one file to another file.

Output:

```
student@S5:~$ cat a.txt > b.txt
student@S5:~$ cat b.txt
hello
hello world
```