

NETWORKING & SYSTEM ADMINISTRATION LAB**Name: KEERTHANA DINESH A****Roll No: 11****Batch: S2BRMCA****Date:26-03-2022****Experiment No.: 1****Aim**

Familiarization of Linux commands.

Procedure

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

Output:

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

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

Output:

```
student@T70:~$ mkdir Keerthana
```

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

Output:

```
student@T70:~$ man
```

4. **\$ls :** The **ls** command is used to display a list of content of a directory.

Output:

```
student@T70:~$ ls
aljo          Client2.class  demo          exam          keerthana     mathew         remove-duplicates.py  udpserver.class
aljo          Client2.java   Desktop       examples.desktop  Keerthana     Music          Server2.class         udpserver.java
arya          commands       directory     f1.txt        linux         mycalender.py  Server2.java         vasu
c1.py         command.txt    Documents    flfth.sh      list.py       newdirectory   simplecalculator.py   Videos of India
c2.py         d             Downloads    file1.txt     mark1         pattern6.py    snap                 Github Channels
c3.py         d1            e1           '<invalid path>'  marvel1       Pictures       Templates            The Film List Project
c4.py         d2            e2           '<invalid path>.layout'  marvel2       Public         udpclient.class
calnder.py    d3            e3
```

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

Output:

```
student@T70:~$ ls -l
total 280
drwxrwxr-x  2 student student 4096 Aug 22  2019 aljo
drwxrwxrwx 14 student student 4096 Mar  5  2020 anurag
drwxr-xr-x  2 student student 4096 Oct 19  2019 arya
-rw-rw-r--  1 student student 8663 Oct 19  2019 c1.py
-rw-rw-r--  1 student student 1945 Oct 19  2019 c2.py
-rw-rw-r--  1 student student 1376 Oct 19  2019 c3.py
-rw-rw-r--  1 student student 8423 Oct 19  2019 c4.py
-rw-rw-r--  1 student student 10011 Oct 19  2019 calnder.py
-rw-r--r--  1 student student 1624 Apr  3  2019 Client2.class
-rw-r--r--  1 student student  979 Apr  3  2019 Client2.java
```

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

Output:

```
student@T70:~$ ls -a
.          calnder.py    Documents      .ICEauthority  marvel1       Public          udpclient.class
..         Client2.class  Downloads     .idlerc        marvel2       .PyCharmCE2019.2  udpclient.java
aljo       Client2.java  e1            'invalid path>' marvel3       .PyCharmCE2019.3  udpserver.class
anurag     commands     e2            'invalid path>.layout' mathew        PycharmProjects  udpserver.java
arya       command.txt  e3            .java          .mozilla      remove-duplicates.py  vasu
.bash_history .config      exam          keerthana     Music          Server2.class      Videos
.bash_logout d            examples.desktop Keerthana     mycalender.py  Server2.java       .vscode
```

7. **\$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@T70:~$ ls -al
total 436
drwxr-xr-x 47 student student 4096 Mar 31 15:13 .
drwxr-xr-x  6 root    root    4096 Jan 13 13:58 ..
drwxrwxr-x  2 student student 4096 Aug 22  2019 aljo
drwxrwxrwx 14 student student 4096 Mar  5  2020 anurag
drwxr-xr-x  2 student student 4096 Oct 19  2019 arya
-rw-----  1 student student 28369 Mar 31 14:12 .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
-rw-rw-r--  1 student student 8663 Oct 19  2019 c1.py
-rw-rw-r--  1 student student 1945 Oct 19  2019 c2.py
```

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

Output:

```
student@T70:~$ ls -r
Videos      simplecalculator.py  newdirectory  list.py      f1.txt      Documents  command.txt  c1.py
vasu        Server2.java        mycalender.py linux        F1          directory  commands     aljo
udpserver.java  Server2.class      Music        Keerthana   examples.desktop  Desktop    Client2.java
udpserver.class  remove-duplicates.py  mathew      'invalid path>.layout'  exam        demo        Client2.class
udpclient.java  PycharmProjects    marvel3     '<invalid path>'  e3          d3          calnder.py
udpclient.class  Public             marvel2     file1.txt    e2          d2          c4.py
Templates      Pictures            marvel1     fifth.sh     e1          d1          c3.py
snap          pattern6.py        mark1      Downloads   d           c2.py
```

9. **\$ls -t:** It sorts the file by modification time, showing the last edited file first

Output:

```
student@T70:~$ ls -t
Pictures    keerthana    exam        d2          c2.py        udpserver.java  pattern6.py  Public
Keerthana  mathew       file1.txt   f1.txt      c1.py        udpclient.class  '<invalid path>.layout'  Templates
d           Downloads   F1          vasu        calnder.py   udpclient.java  '<invalid path>'      Videos
demo       PycharmProjects  e2         directory  Client2.class  remove-duplicates.py  examples.desktop
marvel3    Desktop       e1         newdirectory  Server2.class  commands
marvel2    Documents    e3         mycalender.py  Server2.java  command.txt
marvel1    simplecalc    d1         c4.py       list.py      Client2.java    linux
mark1      fifth.sh     d3         c3.py       udpserver.class  simplecalculator.py  Music
```

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

Output:

```
student@T70:~$ cd Keerthana
```

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

Output:

```
student@T70:~/Keerthana$ cd ..
```

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

Output:

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

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

Output:

```
student@T70:~/Keerthana$ cat hello1.txt
Keerthana
S2MCA
Rollno11
```

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

Output:

```
student@T70:~/Keerthana$ cat > hello1.txt
Keerthana
S2MCA
Rollno11
^Z
[4]+  Stopped                  cat > hello1.txt
```

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

Output:

```
student@T70:~/Keerthana$ cat >> hello1.txt
Amal jyothi college
^Z
[5]+  Stopped                  cat >> hello1.txt
```

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

Output:

```
student@T70:~/Keerthana$ cat hello1.txt
Keerthana
S2MCA
Rollno11
Amal jyothi college
```