

NETWORKING & SYSTEM ADMINISTRATION LAB

Name: Arun Babu

Roll No: 38

Batch: S2 MCA A

Date: 25-03-2022

Experiment No.: 1

Aim

Execute the basic Linux commands

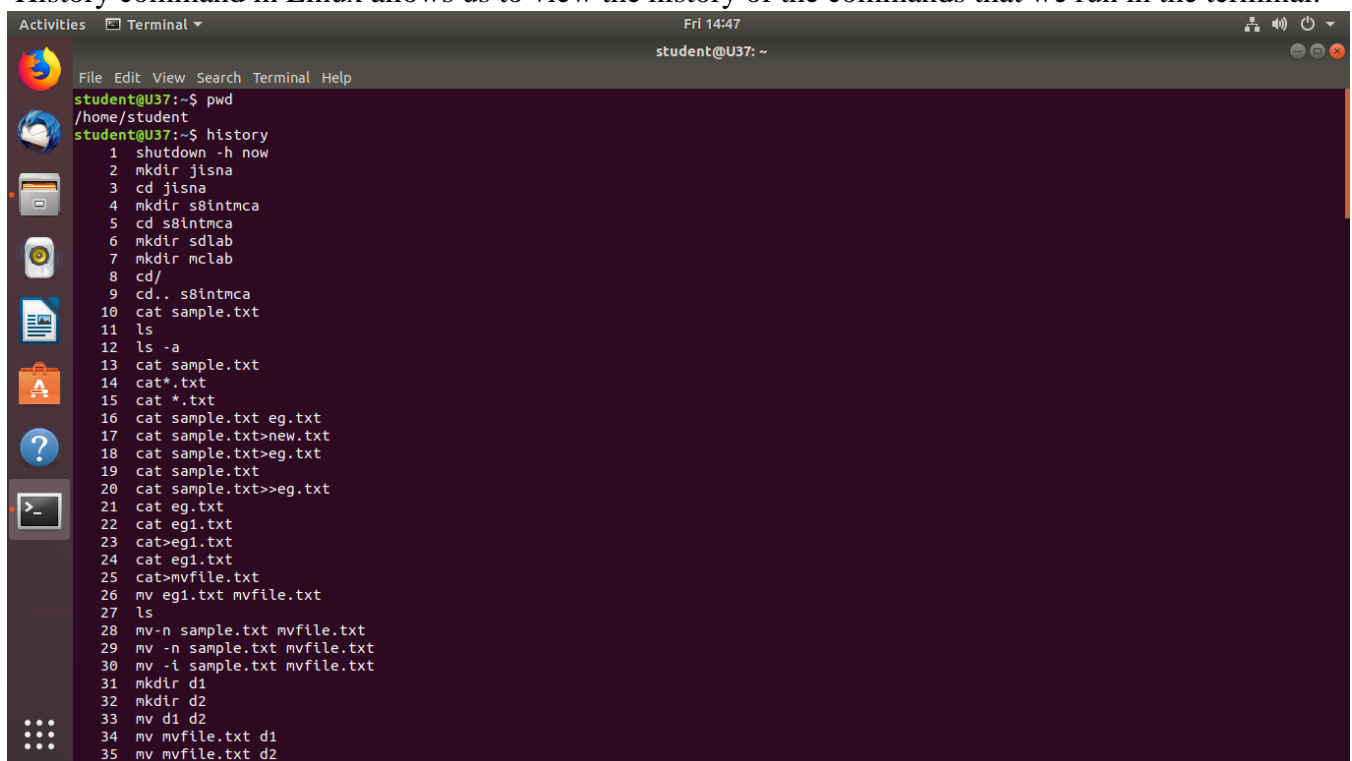
Procedure

1.pwd

The pwd command stands for print working directory. It is one of the most basic and frequently used commands in Linux.

2.History

History command in Linux allows us to view the history of the commands that we run in the terminal.



```
student@U37:~$ pwd
/home/student
student@U37:~$ history
 1 shutdown -h now
 2 mkdir jisna
 3 cd jisna
 4 mkdir s8intmca
 5 cd s8intmca
 6 mkdir sdlab
 7 mkdir mclab
 8 cd/
 9 cd.. s8intmca
10 cat sample.txt
11 ls
12 ls -a
13 cat sample.txt
14 cat *.txt
15 cat *.txt
16 cat sample.txt eg.txt
17 cat sample.txt>new.txt
18 cat sample.txt>eg.txt
19 cat sample.txt
20 cat sample.txt>>eg.txt
21 cat eg.txt
22 cat eg1.txt
23 cat>eg1.txt
24 cat eg1.txt
25 cat>mvfile.txt
26 mv eg1.txt mvfile.txt
27 ls
28 mv -n sample.txt mvfile.txt
29 mv -n sample.txt mvfile.txt
30 mv -i sample.txt mvfile.txt
31 mkdir d1
32 mkdir d2
33 mv d1 d2
34 mv mvfile.txt d1
35 mv mvfile.txt d2
```

3.ls commands

The ls command is used to list files in Linux.

- ls -l

Command to list the contents of the directory in a table format with columns including .

- ls -a

Command will enlist the whole list of the current directory including the hidden files.

- `ls -al`

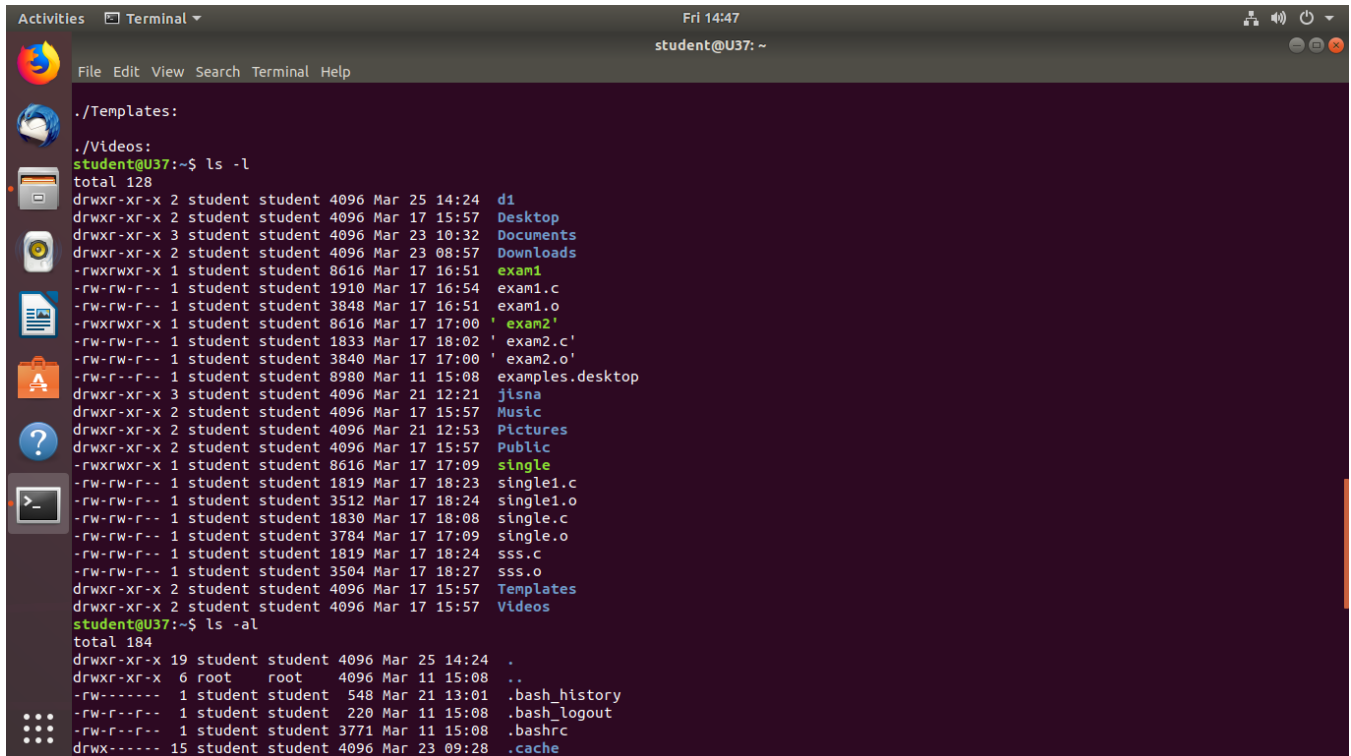
List the files and directories with related information like permission,size..etc.

- `ls -t`

This command sorts the file by modification time, showing the last edited file first.

- `ls -r`

Command used to print the list in reverse order.



```
Activities Terminal
Fri 14:47
student@U37: ~
File Edit View Search Terminal Help

./Templates:
./Videos:
student@U37:~$ ls -l
total 128
drwxr-xr-x 2 student student 4096 Mar 25 14:24 d1
drwxr-xr-x 2 student student 4096 Mar 17 15:57 Desktop
drwxr-xr-x 3 student student 4096 Mar 23 10:32 Documents
drwxr-xr-x 2 student student 4096 Mar 23 08:57 Downloads
-rwxrwxr-x 1 student student 8616 Mar 17 16:51 exam1
-rw-rw-r-- 1 student student 1910 Mar 17 16:54 exam1.c
-rw-rw-r-- 1 student student 3848 Mar 17 16:51 exam1.o
-rwxrwxr-x 1 student student 8616 Mar 17 17:00 'exam2'
-rw-rw-r-- 1 student student 1833 Mar 17 18:02 'exam2.c'
-rw-rw-r-- 1 student student 3840 Mar 17 17:00 'exam2.o'
-rw-rw-r-- 1 student student 8980 Mar 11 15:08 examples.desktop
drwxr-xr-x 3 student student 4096 Mar 21 12:21 jisna
drwxr-xr-x 2 student student 4096 Mar 17 15:57 Music
drwxr-xr-x 2 student student 4096 Mar 21 12:53 Pictures
drwxr-xr-x 2 student student 4096 Mar 17 15:57 Public
-rwxrwxr-x 1 student student 8616 Mar 17 17:09 single
-rw-rw-r-- 1 student student 1819 Mar 17 18:23 single1.c
-rw-rw-r-- 1 student student 3512 Mar 17 18:24 single1.o
-rw-rw-r-- 1 student student 1830 Mar 17 18:08 single.c
-rw-rw-r-- 1 student student 3784 Mar 17 17:09 single.o
-rw-rw-r-- 1 student student 1819 Mar 17 18:24 sss.c
-rw-rw-r-- 1 student student 3504 Mar 17 18:27 sss.o
drwxr-xr-x 2 student student 4096 Mar 17 15:57 Templates
drwxr-xr-x 2 student student 4096 Mar 17 15:57 Videos
student@U37:~$ ls -al
total 184
drwxr-xr-x 19 student student 4096 Mar 25 14:24 .
drwxr-xr-x 6 root root 4096 Mar 11 15:08 ..
-rw-r--r-- 1 student student 548 Mar 21 13:01 .bash_history
-rw-r--r-- 1 student student 220 Mar 11 15:08 .bash_logout
-rw-r--r-- 1 student student 3771 Mar 11 15:08 .bashrc
-rwxr-xr-x 15 student student 4096 Mar 23 09:28 .cache
```

4.man

man command in linux is used to display the user manual of any command that we can run on the terminal.

```

Fri 14:47
student@U37: ~

File Edit View Search Terminal Help

student@U37:~$ !40
pwd
/home/student
student@U37:~$ !31
mkdir d1
student@U37:~$ man mkdir
student@U37:~$ ls
d1      Documents  exam1      exam1.o    'exam2.c'  examples.desktop  Music  Public  single1.c  single.c  sss.c  Templates
Desktop Downloads  exam1.c    'exam2'    'exam2.o'  jisna             Pictures  single1.o  single.o  sss.o  Videos
student@U37:~$ ls -R
.:
d1      Documents  exam1      exam1.o    'exam2.c'  examples.desktop  Music  Public  single1.c  single.c  sss.c  Templates
Desktop Downloads  exam1.c    'exam2'    'exam2.o'  jisna             Pictures  single1.o  single.o  sss.o  Videos
./d1:
./Desktop:
./Documents:
1 1.c 1.o Jeevan REPORT_card REPORT_card.c REPORT_card.o voting_eligibility.c
./Documents/Jeevan:
3digitprecision.c arith_operations.c entering_rollno.c odd_even.c REPORT_card.c Untitled2.c weight_kg.c
areaof_circle.c ASCII.c inc_dec.c printrollno.c sumofWN.c variable.c
areaofrectangle.c cubeofWN.c memory_address.c program1.c temp_conversion.c voting_eligibility.c
./Downloads:
drive-download-20220323T032726Z-001.zip
./jisna:
eg s8intmca
./jisna/s8intmca:
mclab sdlab
./jisna/s8intmca/mclab:
./jisna/s8intmca/sdlab:

```

5.mkdir

Creates a directory in the current location.

Syntax:

`mkdir directory_name`

Example

```
mkdir arun
```

```
student@U37:~$ mkdir hi
student@U37:~$ mkdir hi/ho
student@U37:~$ mkdir -p hi/h/ho
student@U37:~$ man touch
student@U37:~$ touch abc.txt
student@U37:~$ rm abc.txt
student@U37:~$ mkdir arun
student@U37:~$ cd arun
```

Directory created and a text file created using 'touch' command