

## EXPERIMENT N0:.3

### AIM

Familirazation of linux commands.

### CO2

Perform system administration task.

### PROCEDURE

1.Pwd: print working directory.

Command:\$pwd

Output:/home/student

2.ls: list directories

Command:\$ls -l

Output: Desktop Document Download  
Music Picture Public Videos

- ls -R: to see all files in the subdirectory

command:\$ls -R

output:..

Desktop Document Download Music Picture  
Public Videos

./Desktop

./ Document

./Download

./Music.....

```
student@t2: ~/isdk
student@t2:~/isdk$ cd ..
student@t2:~$ pwd
/home/student
student@t2:~$ ls
demo Desktop Documents Downloads isdk Music Pictures Public PycharmProjects sahid snap Templates Videos
student@t2:~$ ls -R
.:
demo Desktop Documents Downloads isdk Music Pictures Public PycharmProjects sahid snap Templates Videos
./Desktop:
./Documents:
./Downloads:
./isdk:
demo sahid
./isdk/sahid:
abcefg.txt abc.txt efg.txt friutnew fruits mark new.txt output.txt sahu.txt sdk.txt
./Music:
./Pictures:
'Screenshot from 2023-03-07 15-29-59.png' 'Screenshot from 2023-03-07 15-32-48.png'
./Public:
./PycharmProjects:
pythonProject
./PycharmProjects/pythonProject:
main.py venv
./PycharmProjects/pythonProject/venv:
bin lib pyvenv.cfg
```

- ls -l: long listing of contents  
command: \$ls -l  
output: total 52  
drwxr-xr-x 1 student student 4096 jun 17  
2022 desktop
- ls -a: to list all the hidden files  
command: \$ls -a  
output: .bash-history .bash rc.....

- `ls -al`: to read/write permission  
 command: `$ls -al`  
 output:  
 total 104  
 drwxr-xr-x 21 student student 4096 mar  
 7 15:26.....

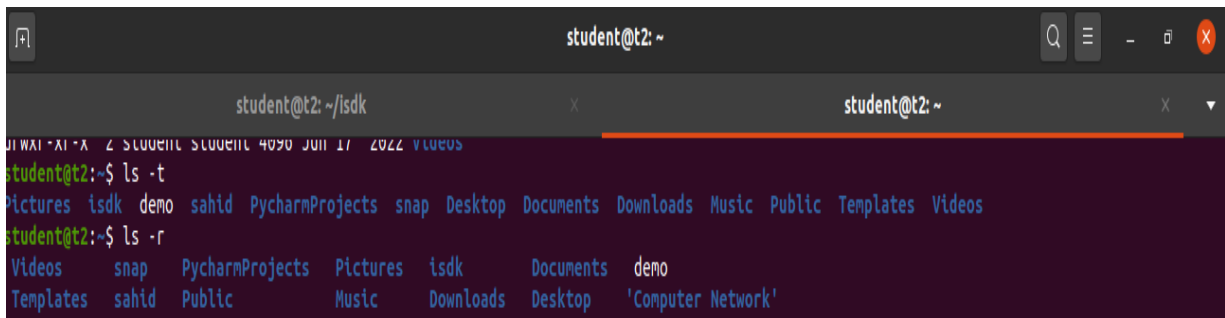
```

student@t2:~/isdk
student@t2:~$ ls -l
total 52
-rw-rw-r-- 1 student student 20 Mar 7 15:26 demo
drwxr-xr-x 2 student student 4096 Jun 17 2022 Desktop
drwxr-xr-x 2 student student 4096 Jun 17 2022 Documents
drwxr-xr-x 2 student student 4096 Jun 17 2022 Downloads
drwxrwxr-x 3 student student 4096 Mar 7 15:26 isdk
drwxr-xr-x 2 student student 4096 Jun 17 2022 Music
drwxr-xr-x 2 student student 4096 Mar 7 15:33 Pictures
drwxr-xr-x 2 student student 4096 Jun 17 2022 Public
drwxrwxr-x 3 student student 4096 Jun 17 2022 PycharmProjects
drwxrwxr-x 2 student student 4096 Mar 7 14:57 sahid
drwx----- 3 student student 4096 Jun 17 2022 snap
drwxr-xr-x 2 student student 4096 Jun 17 2022 Templates
drwxr-xr-x 2 student student 4096 Jun 17 2022 Videos
student@t2:~$ ls -a
. .bash_history .bashrc .config Desktop Downloads isdk .local Music .profile PycharmProjects snap Templates
.. .bash_logout .cache demo Documents .gnupg .java .mozilla Pictures Public sahid .ssh Videos
student@t2:~$ ls -al
total 104
drwxr-xr-x 21 student student 4096 Mar 7 15:26 .
drwxr-xr-x 6 root root 4096 Jun 17 2022 ..
-rw----- 1 student student 719 Mar 7 15:38 .bash_history
-rw-r--r-- 1 student student 220 Jun 17 2022 .bash_logout
-rw-r--r-- 1 student student 3771 Jun 17 2022 .bashrc
drwxrwxr-x 18 student student 4096 Mar 6 13:01 .cache
drwxr-xr-x 17 student student 4096 Mar 7 15:33 .config
-rw-rw-r-- 1 student student 20 Mar 7 15:26 demo
drwxr-xr-x 2 student student 4096 Jun 17 2022 Desktop
drwxr-xr-x 2 student student 4096 Jun 17 2022 Documents
drwxr-xr-x 2 student student 4096 Jun 17 2022 Downloads
drwx----- 3 student student 4096 Mar 7 15:29 .gnupg
drwxrwxr-x 3 student student 4096 Mar 7 15:26 isdk
drwxrwxr-x 4 student student 4096 Jun 17 2022 .java
drwxr-xr-x 3 student student 4096 Jun 17 2022 .local
drwx----- 5 student student 4096 Mar 6 12:37 .mozilla
drwxr-xr-x 2 student student 4096 Jun 17 2022 Music

```

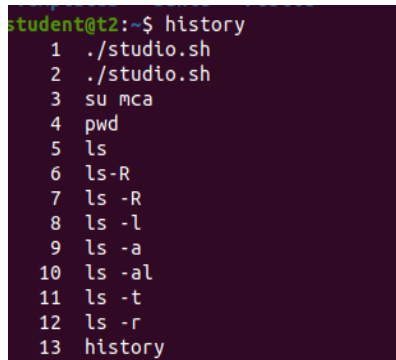
- `ls -t`: list the content that last modified  
 command: `$ls -t`  
 output: Download Music Picture Public  
 Videos Desktop Document
- `ls -r`: to reverse the natural sorting order  
 command: `$ls -r`  
 output: picture desktop document

## downloads music public

A terminal window titled 'student@t2: ~' with two tabs. The active tab is 'student@t2: ~/lsdk'. The terminal shows the output of 'ls -t' and 'ls -r' commands. The first command lists directories: Pictures, isdk, demo, sahid, PycharmProjects, snap, Desktop, Documents, Downloads, Music, Public, Templates, Videos. The second command lists files: Videos, snap, PycharmProjects, Pictures, isdk, Documents, demo, Templates, sahid, Public, Music, Downloads, Desktop, and 'Computer Network'.

```
student@t2: ~  
student@t2: ~/lsdk  
student@t2:~$ ls -t  
Pictures isdk demo sahid PycharmProjects snap Desktop Documents Downloads Music Public Templates Videos  
student@t2:~$ ls -r  
Videos snap PycharmProjects Pictures isdk Documents demo  
Templates sahid Public Music Downloads Desktop 'Computer Network'
```

- history: to review the command that have been previously executed for the certain period of time

A terminal window showing the output of the 'history' command. It lists 13 commands executed in the shell, starting from './studio.sh' and ending with 'history'.

```
student@t2:~$ history  
1 ./studio.sh  
2 ./studio.sh  
3 su mca  
4 pwd  
5 ls  
6 ls-R  
7 ls -R  
8 ls -l  
9 ls -a  
10 ls -al  
11 ls -t  
12 ls -r  
13 history
```

- man: we can learn and understand different commands write from the shell using man command

command: \$man cat

output:

```
CAT(1) User Commands
NAME
  cat - concatenate files and print on the standard output
SYNOPSIS
  cat [OPTION]... [FILE]...
DESCRIPTION
  Concatenate FILE(s) to standard output.

  With no FILE, or when FILE is -, read standard input.

  -A, --show-all
      equivalent to -vET

  -b, --number-nonblank
      number nonempty output lines, overrides -n

  -e
      equivalent to -vE

  -E, --show-ends
      display $ at end of each line

  -n, --number
      number all output lines

  -s, --squeeze-blank
      suppress repeated empty output lines

  -t
      equivalent to -vT

  -T, --show-tabs
      display TAB characters as ^I

Manual page cat(1) line 1/69 45% (press h for help or q to quit)
```