



UG Program in Electronics and Computer Science

Experiment No. – 2				
Date of Performance:	17/7/25			
Date of Submission:	18/7/25			
Program Execution/formation/correction/ethical practices (06)	Timely Submission (01)	Viva (03)	Experiment Total (10)	Sign with Date

2.1 **Aim:** To Learn and execute Linux commands for File and directory management.

2.2 Course Outcome: Implement various Linux Command Line administration tasks and perform file, user, group, process management, storage and network management tasks.

2.3 Learning Objectives: To execute Linux commands for File and directory management

2.4. Requirement: Virtual box, Red Hat Linux.

2.5. Related Theory:

Linux commands for File and directory management:

\$df -h -> same as my computer in windows

\$fdisk -l -> list partition

\$man <cmd> -> manual

\$clear -> clear the screen

\$^l -> clear the screen

\$ls -> list content

\$ls -l -> list content in long listing format

\$ls -al -> list all sub content in long listing format

\$ll -> an alias for the above

\$ls -R -> list content recursively



UG Program in Electronics and Computer Science

- \$l. -> list hidden files
- \$ls -F -> list content and classify them
- \$alias -> display all aliases for current user
- \$exit -> log out from the system
- \$logout -> log out from the system
- \$^d -> log out from the system
- \$tree -> list content in a tree (hierarchical) diagram

Vi editors:

- Esc:w -to write/save the file
- Esc:w! - to write/save the file forcefully
- Esc:wq - to write/save and quit/exit
- Esc:wq! - to write/save and quit/exit forcefully
- Esc:q - to quit from the file without saving the changes we made in the file
- Esc:q! - to quit forcefully from the file

2.7 Program and Output:

```
rajnish [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

CentOS Linux 7 (Core)
Kernel 3.10.0-693.el7.x86_64 on an x86_64

localhost login: rajnish
Password:
[rajnish@localhost ~]$ df
Filesystem            1K-blocks    Used Available Use% Mounted on
/dev/mapper/centos-root 52403200 917064   51486136 2% /
devtmpfs                930528      0     930528 0% /dev
tmpfs                   941580      0     941580 0% /dev/shm
tmpfs                   941580    8580     933000 1% /run
tmpfs                   941580      0     941580 0% /sys/fs/cgroup
/dev/mapper/centos-home 2090879492 32956 2090846536 1% /home
/dev/sda1               1038336 145720    892616 15% /boot
tmpfs                   188320      0     188320 0% /run/user/1000
[rajnish@localhost ~]$ _
```

```
localhost login: root
Password:
[root@localhost ~]# touch f1
[root@localhost ~]# touch f2
[root@localhost ~]# li
-bash: li: command not found
[root@localhost ~]# ls
anaconda-ks.cfg f1 f2
[root@localhost ~]# _
```



UG Program in Electronics and Computer Science

```
rajnish [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
[rajnish@localhost ~]$ alias
alias egrep='egrep --color=auto'
alias fgrep='fgrep --color=auto'
alias grep='grep --color=auto'
alias ll='ls -d .* --color=auto'
alias ll='ls -l --color=auto'
alias ls='ls --color=auto'
alias which='alias ; /usr/bin/which --tty-only --read-alias --show-dot --show-tilde'
[rajnish@localhost ~]$ _
```

```
localhost login: root
Password:
Last login: Fri Jul 18 15:34:23 on tty1
[root@localhost ~]# mkdir d1
[root@localhost ~]# mkdir d2
[root@localhost ~]# mkdir d3
[root@localhost ~]# ls
anaconda-ks.cfg d1 d2 d3 f1 f2
[root@localhost ~]# _
```

```
[root@localhost ~]# ls
anaconda-ks.cfg d1 d2 d3 f1 f2
[root@localhost ~]# touch f1
[root@localhost ~]# touch f5
[root@localhost ~]# touch f3
[root@localhost ~]# ls
anaconda-ks.cfg d1 d2 d3 f1 f2 f3 f5
[root@localhost ~]#
```



UG Program in Electronics and Computer Science

2.8. Conclusion:

Hence linux commands for file and directory management are executed.

2.9 Questions:

1. What is the option to create hard link for a directory?

- a. -s
- b. -l
- c. -f

d. None of the above.

2. Which command can be used to delete a file?

- a. del
- b. remove
- c. rm**
- d. delete

3. Which command is used to change default permissions for files & directories at the time of creation?

- a. chmod
- b. chown
- c. useradd

d.unmask

4. Identify the command to remove a directory from directory stack.

- a. pushd
- b.popd**
- c. eject
- d. enqueue