Working with a Vi Editor:

1: Create a file using vi. Enter the following text:

A network is a group of computers that can communicate with each other, share resources, and access remote hosts or other networks. Netware is a computer network operating system designed to connect, manage, and maintain a network and its services. Some of the network services are Netware Directory Services (NDS), file system, printing and security.

a. Change the word "Netware" in the second line to



"Novell Netware".

b. Insert the text "(such as hard disks and printers)" after "share resources" in the first line.



c. Append the following text to the file:

"Managing NDS is a fundamental administrator role because NDS provides a single

point for accessing and managing most network resources."

```
A network is a group of computers that can communicate with each other , share resourced such as hard disk and printers and access remote host or other networks. Novell Networe is a computer network operating system design to connect manage and maintain a network and its services .Some of the netork services are netware directories services (NDS) file system , printing and security

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Working shell

1. Type some text on the shell separated by space

1: Move cursor one word back: Alt + B

2: Move cursor one word forward: Alt + F

3: Move cursor to the first character: Ctrl + A

4: Move cursor to the end: Ctrl + E

5: Delete test from second word to last character: Alt + F then Ctrl +K

6: Delete the current line: Ctrl +U

2: In lab 4 we have created a file errorlog.txt. Display it using cat command using command completion.

```
[admin@hostnameQl -]$ is

Lunix a.unix chapl chap2 chapb Demits friends Busic newfriend Public users

Lunix a.unix chap1 chap2 chapb Decement errorlog.txt lsdoc network.txt Pictures Templates videos

[admin@hostnameQl -]$ cat err<rable

Ladmin@hostnameQl -]$ cat cata.txt | admin@hostnameQl -]$ cat data.txt | admin@hostnameQl -]$ cat data.txt | arrorlog.txt

This is a sample file

[admin@hostnameQl -]$ cat errorlog.txt

[admin@hostnameQl -]$ [

Ladmin@hostnameQl -]$ [
```

3: Display history of command used so far.

```
first line.

c. Append the following text to the file:

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specially system designed to connect, manage, and services in the second time to "Novell Netware".

See Services. Some of the network services are Netware Directory Services (NDS), file

special services. Some of the network services (NDS), file

special services. Some of the network services are Netware provides a single

first line.

Append the following text to the file:

"Hanaging NDS is a fundamental administrator role because NDS provides a single

point for accessing and managing most network resourcesuu

size clear

size clear
```

4: Search Is command in history file

```
318 ls -/temp
320 ls -/temp
331 ls -a -/temp
331 ls -a -/temp
331 ls -a -/temp
332 ls -/temp/sacol
335 ls -/temp/sacol
337 ls -
360 ls
362 ls -/temp
364 ls -/temp
372 ls
373 ls -
374 ls
376 ls
376 ls
377 ls
378 ls
378 ls
424 ls friends users
424 ls friends users
424 ls friends users
424 ls friends users
425 ls
426 ls -/temp
427 ls
428 ls friends users
429 ls friends users
420 and ls > ls doc
431 cat ls doc
441 cat ls doc
442 le friends users
443 less ladoc
444 cat ls doc | less
455 ls | grep datal.txt
468 ls
470 ls | grep datal.txt
471 ls
519 ls
525 history | grep ls
[admin@hostname01 ~] $ |
```

5: Repeat the last command rd (!!)

```
321
321
326
339
331
343
359
357
369
372
374
449
441
443
444
455
465
468
470
519
525
                        history | grep ls
@hostnameθ1 ~]$
```

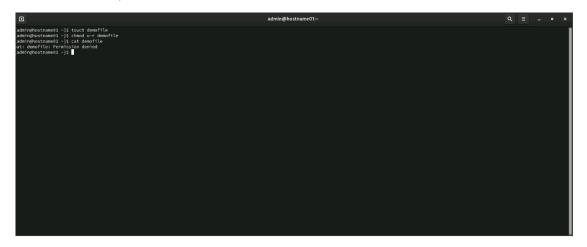
6: Execute 3 command from history file.

```
330 to
331 to
343 to
349 to
349 to
359 to
359 to
359 to
360 to
360 to
361 to
362 to
364 to
37 to
369 to
372 to
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449 to
441 to
445 to
445 to
445 to
455 to
468 to
478 to
478 to
479 to
479 to
525 history | grep to
526 history | grep to
527 to
528 history | grep to
638 history | grep to
648 history | grep to
648
```

7: What are the different shells available.

Understanding access permissions

- 7.1: Create an empty file "demofile" and perform following instruction
 - 1. Revoke read permission from owner and use cat command.



2. Revoke write permission from owner and open using vi editor and add some contain in it.



3.Add read and write permission to owner.

4. Revoke write and execute from other and group

5. Add write permission to group only

```
admin@hostnameOl-] $ touch devofile

dedinghostnameOl | $ touch file or directory

bash: demofile: command not found...

[adminghostnameOl | $ touch file or directory

bash: demofile | $ touch file or directory

[adminghostnameOl | $ touch file o
```

6. Assign read permission to all

chmod o-r demofile

7. Revoke read permission from others

8. Give the execute permission for the user for a file chap1

chmod + chap1

9. Give the execute permission for user, group and others for a file add.c

touch add.c

chmod a+x add.c

chmod u+x chap1

10. Remove the execute permission from user, give read permission to group and others for a file aa.c

[admin@hostname01 ~]\$ chmod u-x aa.c

[admin@hostname01 ~]\$ chmod og+r aa.c

[admin@hostname01 ~]\$ Is -I aa.c

-rw-r--r-. 1 admin admin 0 Jan 12 11:03 aa.c

11. Give execute permission for users for a.c, kk.c, nato and myfile using single command

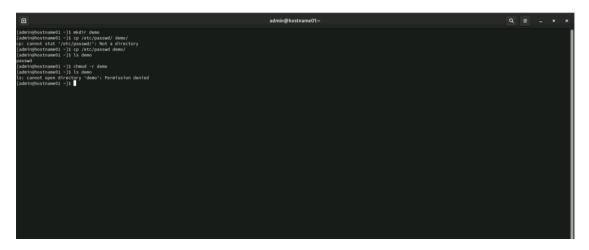
chmod u+x a.c kk.c nato myfile

7.2: Create an directory "demo" and copy /etc/passwd file in it

[admin@hostname01 ~]\$ mkdir demo
[admin@hostname01 ~]\$ cp /etc/passwd demo/

- 1. Display contents of demo **Is demo**
- Revoke read permission from demo directory and use Is command on it

[admin@hostname01 ~]\$ chmod -r demo [admin@hostname01 ~]\$ Is demo



Revoke write permission from demo directory and try to copy /etc/profile file in it

[admin@hostname01 ~]\$ chmod -w demo

[admin@hostname01 ~]\$ cp /etc/profile demo/

cp: cannot create regular file 'demo/profile': Permission denied

4. Delete passwd file from demo directory

[admin@hostname01 ~]\$ rm demo/passwd

rm: cannot remove 'demo/passwd': Permission denied

Revoke execute permission from demo directory and try cd command on demo.

[admin@hostname01 ~]\$ chmod -x demo

[admin@hostname01 ~]\$ cd demo

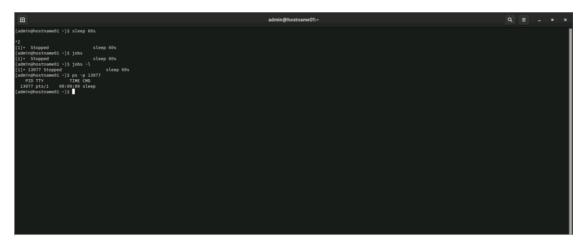
```
| Zadming@hostname() - 15 mbd/r demo
| Cadming@hostname() - 15 mbd/r demo
| Cadming@h
```

Using Process-Related Commands

1. Find out the PID of the processes that are activated by you

2. Find out the information about all the processes that are currently active

3. Start a different process in the background. Find out the status of the background process using the PID of the same.



4. Run a job in background

5. Bring a last background job in fore ground

6. Run 3 jobs in background and bring first job in foreground

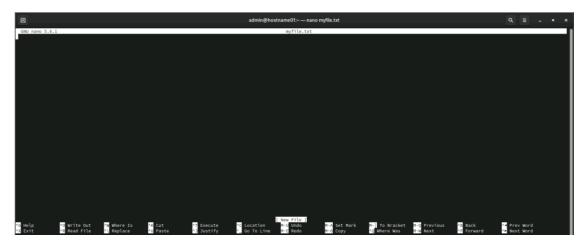
7. Stop current job

```
| Stopped | Steep 60s | Steep
```

8. Start stopped job

```
| 1 | Stopped | Steep 605 | St
```

9. Run a job

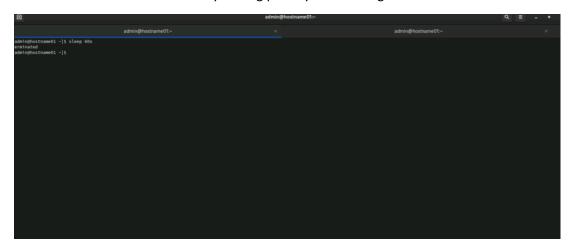


10. Kill last job

11. Kill your shell using process id



12. Execute a ls command by setting priority as -10 using nice command



13. Display a date on every hour using cron tab

```
admin@hostnameO1 - 15 crontab -e rontab -e rontab -e rontab - state - 15 crontab -e rontab - e ro
```