Semester 4

Practical-1 Application of Shell Commands

1. cd

```
bharat_patel@DESKTOP-9M8H42R:~$ cd /mnt/e/Tanvi
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ ls
Assignment Certificate Dev-Cpp OS.txt T-sem4
```

2. Is

```
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$_ls
            Certificate Dev-Cpp OS.txt T-se
                                                  example.txt gmon.out lpass.txt pp1.csv
bharat patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ ls -1
total 20
drwxrwxrwx 1 bharat_patel bharat_patel 4096 Jan 25 10:30
drwxrwxrwx 1 bharat_patel bharat_patel 4096 Jan 25 23:14
drwxrwxrwx 1 bharat_patel bharat_patel 4096 Dec 21 2022
-rwxrwxrwx 1 bharat_patel bharat_patel 79 Feb 2 20:34 drwxrwxrwx 1 bharat_patel bharat_patel 4096 Jan 20 17:15
                                         79 Feb 2 20:34 OS.txt
-rwxrwxrwx 1 bharat_patel bharat_patel 81 Feb 3 09:01 example.txt
-rwxrwxrwx 1 bharat_patel bharat_patel 4364 Sep 29 00:25 gmon.out
-rwxrwxrwx 1 bharat_patel bharat_patel 160 May 10 2023 lpass.txt
-rwxrwxrwx 1 bharat_patel bharat_patel 10436 Jun 4 2023 pp1.csv
drwxrwxrwx 1 bharat_patel bharat_patel 4096 Dec 22 17:53
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ ls -a
                        ficate Dev-Cpp OS.txt
                                                   -sem4 example.txt gmon.out lpass.txt pp1.csv
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$
```

3. echo

```
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ echo Tanvi
Tanvi
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ echo -n Tanvi
Tanvibharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$
```

4. cat

```
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ cat example.txt
This is an example file for OS Shel Comands
To run that commands in the Linux
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ cat -b example.txt
    1 This is an example file for OS Shel Comands
    2 To run that commands in the Linux
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ cat -E example.txt
$his is an example file for OS Shel Comands
$0 run that commands in the Linux
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$
```

5. pwd

```
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ pwd
/mnt/e/Tanvi
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$
```

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6. mkdir

```
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ mkdir NEW-DOCUMENT

bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ ls -1

total 20

drwxrwxrwx 1 bharat_patel bharat_patel 4096 Jan 25 10:30 Asiignment
drwxrwxrwx 1 bharat_patel bharat_patel 4096 Dec 21 2022 Dev-Gpg

drwxrwxrwx 1 bharat_patel bharat_patel 4096 Dec 21 2022 Dev-Gpg

drwxrwxrwx 1 bharat_patel bharat_patel 4096 Feb 3 22:55 NEW-DOCUMENT

-rwxrwxrwx 1 bharat_patel bharat_patel 79 Feb 2 20:34 OS.txt

-rwxrwxrwx 1 bharat_patel bharat_patel 81 Feb 3 10:10 OS.txt.txt

-rwxrwxrwx 1 bharat_patel bharat_patel 79 Feb 3 10:14 OS1.txt

drwxrwxrwx 1 bharat_patel bharat_patel 4096 Jan 20 17:15 Tesem4

-rwxrwxrwx 1 bharat_patel bharat_patel 34 Feb 3 12:52 eg.txt

-rwxrwxrwx 1 bharat_patel bharat_patel 4364 Sep 29 00:25 gmon.out

-rwxrwxrwx 1 bharat_patel bharat_patel 160 May 10 2023 lpass.txt

-rwxrwxrwx 1 bharat_patel bharat_patel 10436 Jun 4 2023 pp1.csv

drwxrwxrwx 1 bharat_patel bharat_patel 4096 Dec 22 17:53 Z-documents

bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$
```

7. who

```
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ who
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ who -b
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ who -q
# users=0
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ who -a
```

8. rmdir

```
bharat patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ rmdir NEW-DOCUMENT
bharat patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ ls -1
total 20
drwxrwxrwx 1 bharat_patel bharat_patel 4096 Jan 25 10:30
drwxrwxrwx 1 bharat patel bharat patel 4096 Jan 25 23:14
drwxrwxrwx 1 bharat_patel bharat_patel 4096 Dec 21 2022 Dev-Gom
-rwxrwxrwx 1 bharat_patel bharat_patel
                                        79 Feb 2 20:34 OS.txt
-rwxrwxrwx 1 bharat patel bharat patel
                                        81 Feb 3 10:10 05.txt.txt
-rwxrwxrwx 1 bharat_patel bharat_patel
                                        79 Feb 3 10:14 OS1.txt
drwxrwxrwx 1 bharat patel bharat patel 4096 Jan 20 17:15
-rwxrwxrwx 1 bharat patel bharat patel 34 Feb 3 12:52 eg.txt
-rwxrwxrwx 1 bharat patel bharat patel 4364 Sep 29 00:25 gmon.out
-rwxrwxrwx 1 bharat patel bharat patel 160 May 10 2023 lpass.txt
-rwxrwxrwx 1 bharat patel bharat patel 10436 Jun 4 2023 pp1.csv
drwxrwxrwx 1 bharat_patel bharat_patel 4096 Dec 22 17:53
bharat patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$
```

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9. cp

```
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ cat OS.txt
This is an example file for OS Shel Comands
To run that commands in the Linux bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ cp OS.txt OS1.txt
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ cat OS1.txt
This is an example file for OS Shel Comands
To run that commands in the Linux bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ cp -i OS.txt file.txt
cp: overwrite 'file.txt'? y
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ cp -v OS.txt file1.txt
'OS.txt' -> 'file1.txt'
```

10. mv

```
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ sudo su
[sudo] password for bharat_patel:
root@DESKTOP-9M8H42R:/mnt/e/Tanvi# mv eg1.txt /Assignment
root@DESKTOP-9M8H42R:/mnt/e/Tanvi# mv file.txt /Asiignment
root@DESKTOP-9M8H42R:/mnt/e/Tanvi#

bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ mv eg.txt /Asiignment
mv: inter-device move failed: 'eg.txt' to '/Asiignment'; unable to remove target: Permission denied
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ mv OS1.txt file4.txt
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ cat file4.txt
This is an example file for OS Shel Comands
To run that commands in the Linux bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$
```

11. rm

```
bharat patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ rm example.txt
bharat patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ rm -i eg1.txt
rm: remove regular empty file 'eg1.txt'? n
bharat patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$
bharat patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ 1s -1
total 20
drwxrwxrwx 1 bharat_patel bharat_patel 4096 Jan 25 10:30
drwxrwxrwx 1 bharat patel bharat patel 4096 Jan 25 23:14
drwxrwxrwx 1 bharat_patel bharat_patel 4096 Dec 21 2022
-rwxrwxrwx 1 bharat_patel bharat_patel 79 Feb 2 20:34 OS.txt
-rwxrwxrwx 1 bharat_patel bharat_patel
                                         81 Feb
                                                3 10:10 OS.txt.txt
-rwxrwxrwx 1 bharat_patel bharat_patel
                                         79 Feb 3 10:14 OS1.txt
drwxrwxrwx 1 bharat_patel bharat_patel 4096 Jan 20 17:15 -sem4
-rwxrwxrwx 1 bharat patel bharat patel 34 Feb 3 12:52 eg.txt
-rwxrwxrwx 1 bharat patel bharat patel 4364 Sep 29 00:25 gmon.out
-rwxrwxrwx 1 bharat_patel bharat_patel 160 May 10 2023 lpass.txt
-rwxrwxrwx 1 bharat_patel bharat_patel 10436 Jun 4 2023 pp1.csv
drwxrwxrwx 1 bharat patel bharat patel 4096 Dec 22 17:53
bharat patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$
```

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12. cmp

```
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ cmp OS.txt OS1.txt
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ cmp OS.txt eg.txt
OS.txt eg.txt differ: byte 1, line 1
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ cmp -b OS.txt eg.txt
OS.txt eg.txt differ: byte 1, line 1 is 124 T 110 H
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ cat OS.txt
This is an example file for OS Shel Comands
To run that commands in the Linux bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ cat eg.txt
Hello
HOw are you
Are you okay
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ cat OS1.txt
This is an example file for OS Shel Comands
To run that commands in the Linux bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$
```

13. chmod

```
root@DESKTOP-9M8H42R:/mnt/e/Tanvi# chmod u=rwx,g=rw,o=r eg.txt
root@DESKTOP-9M8H42R:/mnt/e/Tanvi# ls -1
total 20
drwxrwxrwx 1 bharat patel bharat patel 4096 Jan 25 10:30 Asilignment
drwxrwxrwx 1 bharat patel bharat patel 4096 Jan 25 23:14 Certific
drwxrwxrwx 1 bharat patel bharat patel 4096 Dec 21 2022 Dev-Cpp
-rwxrwxrwx 1 bharat_patel bharat_patel 81 Feb 3 10:10 OS.txt.txt
-rwxrwxrwx 1 bharat_patel bharat_patel 79 Feb 3 10:14 OS1.txt
drwxrwxrwx 1 bharat_patel bharat_patel 4096 Jan 20 17:15 T-sem4
-rwxrwxrwx 1 bharat_patel bharat_patel 34 Feb 3 12:52 eg.txt
-rwxrwxrwx 1 bharat patel bharat patel 79 Feb 2 20:34 file1.txt
lrwxrwxrwx 1 bharat_patel bharat_patel 6 Feb 3 23:03 file2.txt -> 05.txt
-rwxrwxrwx 1 bharat_patel bharat_patel 134 Feb 3 23:11 fruits.txt
-rwxrwxrwx 1 bharat_patel bharat_patel 68 Feb 3 23:28 fruits1.txt
-rwxrwxrwx 1 bharat_patel bharat_patel 4364 Sep 29 00:25 gmon.out
-rwxrwxrwx 1 bharat_patel bharat_patel 160 May 10 2023 lpass.txt
-rwxrwxrwx 1 bharat patel bharat patel
                                         67 Feb 3 23:14 numbers.txt
-rwxrwxrwx 1 bharat patel bharat patel 10436 Jun 4 2023 pp1.csv
-rwxrwxrwx 1 bharat_patel bharat_patel 91 Feb 3 23:00 wcapp.txt
drwxrwxrwx 1 bharat_patel bharat_patel 4096 Dec 22 17:53
root@DESKTOP-9M8H42R:/mnt/e/Tanvi#
```

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14. chown

```
root@DESKTOP-9M8H42R:/mnt/e/Tanvi# ls -1
drwxrwxrwx 1 bharat patel bharat patel 4096 Jan 25 10:30
drwxrwxrwx 1 bharat patel bharat patel 4096 Jan 25 23:14
drwxrwxrwx 1 bharat_patel bharat_patel 81 Feb 3 10:10 US.LAC.
drwxrwxrwx 1 bharat_patel bharat_patel 4096 Dec 21 2022
                                        81 Feb 3 10:10 OS.txt.txt
drwxrwxrwx 1 bharat_patel bharat_patel 4096 Jan 20 17:15 T-sem
-rwxrwxrwx 1 bharat_patel bharat_patel 34 Feb 3 12:52 eg.txt
-rwxrwxrwx 1 bharat_patel bharat_patel
                                       79 Feb 2 20:34 file1.txt
lrwxrwxrwx 1 bharat_patel bharat_patel
                                        6 Feb 3 23:03 file2.txt -> OS.txt
-rwxrwxrwx 1 bharat_patel bharat_patel 134 Feb 3 23:11 fruits.txt
-rwxrwxrwx 1 bharat_patel bharat_patel
                                       68 Feb 3 23:28 fruits1.txt
-rwxrwxrwx 1 bharat_patel bharat_patel 4364 Sep 29 00:25 gmon.out
-rwxrwxrwx 1 bharat_patel bharat_patel 160 May 10 2023 lpass.txt
-rwxrwxrwx 1 bharat patel bharat patel
                                       67 Feb 3 23:14 numbers.txt
-rwxrwxrwx 1 bharat_patel bharat_patel 10436 Jun 4 2023 pp1.csv
                                       91 Feb 3 23:00 wcapp.txt
-rwxrwxrwx 1 bharat_patel bharat_patel
drwxrwxrwx 1 bharat_patel bharat_patel 4096 Dec 22 17:53
root@DESKTOP-9M8H42R:/mnt/e/Tanvi# chown root eg.txt
root@DESKTOP-9M8H42R:/mnt/e/Tanvi# ls -1
total 20
drwxrwxrwx 1 bharat patel bharat patel 4096 Jan 25 10:30
drwxrwxrwx 1 bharat patel bharat patel 4096 Jan 25 23:14
drwxrwxrwx 1 bharat_patel bharat_patel 4096 Dec 21 2022 Dev-Gop
                                         81 Feb 3 10:10 OS.txt.txt
-rwxrwxrwx 1 bharat_patel bharat_patel
                                         79 Feb 3 10:14 OS1.txt
-rwxrwxrwx 1 bharat_patel bharat_patel
drwxrwxrwx 1 bharat_patel bharat_patel 4096 Jan 20 17:15 T-sem
-rwxrwxrwx 1 bharat_patel bharat_patel 34 Feb 3 12:52 eg.txt
                                        79 Feb 2 20:34 file1.txt
-rwxrwxrwx 1 bharat_patel bharat_patel
lrwxrwxrwx 1 bharat_patel bharat_patel
                                        6 Feb 3 23:03 file2.txt -> OS.txt
-rwxrwxrwx 1 bharat_patel bharat_patel 134 Feb 3 23:11 fruits.txt
-rwxrwxrwx 1 bharat patel bharat patel
                                       68 Feb 3 23:28 fruits1.txt
-rwxrwxrwx 1 bharat_patel bharat_patel 4364 Sep 29 00:25 gmon.out
-rwxrwxrwx 1 bharat_patel bharat_patel
                                        160 May 10 2023 lpass.txt
-rwxrwxrwx 1 bharat_patel bharat_patel
                                         67 Feb 3 23:14 numbers.txt
-rwxrwxrwx 1 bharat_patel bharat_patel 10436 Jun 4 2023 pp1.csv
-rwxrwxrwx 1 bharat_patel bharat_patel 91 Feb 3 23:00 wcapp.txt
drwxrwxrwx 1 bharat_patel bharat_patel 4096 Dec 22 17:53 z-documen
root@DESKTOP-9M8H42R:/mnt/e/Tanvi#
```

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15. ps

```
root@DESKTOP-9M8H42R:/mnt/e/Tanvi# ps
             TIME CMD
  PID TTY
   53 pts/0
              00:00:00 sudo
   54 pts/0 00:00:00 su
   55 pts/0 00:00:00 ba
63 pts/0 00:00:00 ps
               00:00:00 bash
root@DESKTOP-9M8H42R:/mnt/e/Tanvi# ps -e
  PID TTY
                    TIME CMD
   1 ?
              00:00:00 init
   16 tty1 00:00:00 init
   17 tty1 00:00:00 bash
52 tty1 00:00:00 sudo
   53 pts/0
               00:00:00 sudo
   54 pts/0
               00:00:00 su
   55 pts/0 00:00:00 ba
64 pts/0 00:00:00 ps
               00:00:00 bash
root@DESKTOP-9M8H42R:/mnt/e/Tanvi# ps -x
  PID TTY STAT TIME COMMAND
   1 ?
              Ssl
                     0:00 /init
  16 tty1 Ss
52 tty1 S
53 pts/0 Ss
54 pts/0 S
                      0:00 /init
                       0:00 sudo su
                     0:00 sudo su
                       0:00 su
   55 pts/0 S
                       0:00 bash
   65 pts/0 R
                       0:00 ps -x
root@DESKTOP-9M8H42R:/mnt/e/Tanvi#
```

16. kill

```
root@DESKTOP-9M8H42R:/mnt/e/Tanvi# ps
  PID TTY TIME CMD
                   00:00:00 sudo
    53 pts/0
    54 pts/0 00:00:00 su
    55 pts/0 00:00:00 bash
    66 pts/0 00:00:00 ps
root@DESKTOP-9M8H42R:/mnt/e/Tanvi# kill 53
root@DESKTOP-9M8H42R:/mnt/e/Tanvi#
Session terminated, killing shell.....killed.
Terminated
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ kill -1
 1) SIGHUP 2) SIGINT 3) SIGQUIT 4) SIGILL
                                                                                 SIGTRAP
                                        9) SIGKILL
13) SIGPIPE 14) SIGALRM
18) SIGCONT 19) SIGSTOP
23) SIGURG 24) SIGXCPU
28) SIGWINCH 29) SIGTO
 6) SIGABRT
                    7) SIGBUS
                                                                                 10) SIGUSR1
6) SIGABRT /) SIGBUS 8) SIGFFE

11) SIGSEGV 12) SIGUSR2 13) SIGFIPE

16) SIGSTKFLT 17) SIGCHLD 18) SIGCONT

21) SIGTTIN 22) SIGTTOU 23) SIGURG

26) SIGVTALRM 27) SIGPROF 28) SIGWINCH

31) SIGSYS 34) SIGRTMIN 35) SIGRTMIN
                                                                                 15) SIGTERM
                                                                                 20) SIGTSTP
                                                                                 25) SIGXFSZ
                                                                                 30) SIGPWR
31) SIGSYS 34) SIGRTMIN 35) SIGRTMIN+1 36) SIGRTMIN+2 37) SIGRTMIN+3
38) SIGRTMIN+4 39) SIGRTMIN+5 40) SIGRTMIN+6 41) SIGRTMIN+7 42) SIGRTMIN+8
43) SIGRTMIN+9 44) SIGRTMIN+10 45) SIGRTMIN+11 46) SIGRTMIN+12 47) SIGRTMIN+13
48) SIGRTMIN+14 49) SIGRTMIN+15 50) SIGRTMAX-14 51) SIGRTMAX-13 52) SIGRTMAX-12
53) SIGRTMAX-11 54) SIGRTMAX-10 55) SIGRTMAX-9 56) SIGRTMAX-8 57) SIGRTMAX-7
58) SIGRTMAX-6 59) SIGRTMAX-5 60) SIGRTMAX-4 61) SIGRTMAX-3 62) SIGRTMAX-2
63) SIGRTMAX-1 64) SIGRTMAX
bharat patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$
```

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17. wc

```
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ wc wcapp.txt
4 16 91 wcapp.txt
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ wc -l wcapp.txt
4 wcapp.txt
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ wc -L wcapp.txt
50 wcapp.txt
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ wc -w wcapp.txt
16 wcapp.txt
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ wc -c wcapp.txt
91 wcapp.txt
```

18. In

```
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ ln OS.txt file1.txt
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ ln -s OS.txt file2.txt
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ cat OS.txt
This is an example file for OS Shel Comands
To run that commands in the Linux bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ cat file1.txt
This is an example file for OS Shel Comands
To run that commands in the Linux bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ cat file2.txt
This is an example file for OS Shel Comands
To run that commands in the Linux bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ rm OS.txt
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ cat file1.txt
This is an example file for OS Shel Comands
To run that commands in the Linux bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ cat file2.txt
cat: file2.txt: No such file or directory
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$
```

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19. head/tail

```
bharat patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ cat fruits.txt
Apple
Banana
Guava
Promganete
Kiwi
Cherry
Orange
Pineapple
Dragon fruit
Cherry
Plum
Grapes
Jack Fruit
Cucumber
Pear
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ head fruits.txt
Apple
Banana
Guava
Promganete
Kiwi
Cherry
Orange
Pineapple
Dragon fruit
Cherry
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ tail fruits.txt
Orange
Pineapple
Dragon fruit
Cherry
Plum
Grapes
Jack Fruit
Cucumber
Pear
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ head -n5 fruits.txt
Apple
Banana
Guava
```

bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi\$

Promganete

Kiwi

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20. sort

```
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ sort fruits.txt
Apple
Banana
Cherry
Cherry
Cucumber
Dragon fruit
Grapes
Guava
Jack Fruit
Kiwi
Orange
Pear
Pineapple
Plum
Promganete
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ sort -n numbers.txt
1
2
2
2
3
4
4
5
7
7
8
8
14
16
54
54
65
87
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$
bharat patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ sort -r fruits.txt
Promganete
Plum
Pineapple
Pear
Orange
Kiwi
Jack Fruit
Guava
Grapes
Dragon fruit
Cucumber
Cherry
Cherry
Banana
Apple
bharat patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$
```

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21. find

```
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ find fruits.txt
fruits.txt
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ find f*
file1.txt
file2.txt
fruits.txt
bharat_patel@DESKTOP-9M8H42R:~$ cd /mnt/e/Tanvi/T-sem4
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi/T-sem4$ find -user bharat_patel
. ./AWD
./CN
./DSA-2
./OS
./OS/SHELL COMMANDS.ppt
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi/T-sem4$
```

22. uniq

```
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ cat fruits1.txt
Apple
Banana
Guava
Guava
Guava
Promganete
Kiwi
Kiwi
Cherry
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ uniq fruits1.txt
Apple
Banana
Guava
Promganete
Kiwi
Cherry
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ uniq -d fruits1.txt
Guava
Kiwi
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ uniq -u fruits1.txt
Apple
Banana
Promganete
Cherry
bharat patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$
```

Semester 4

23. grep

```
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ grep P fruits.txt
Promganete
Pineapple
Plum
Pear
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ grep -c P fruits.txt
4
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$ grep -n P fruits.txt
4:Promganete
8:Pineapple
11:Plum
15:Pear
bharat_patel@DESKTOP-9M8H42R:/mnt/e/Tanvi$
```

24. write /wc

