MAINAK CHATTOPADHYAY
21BAI1217
OPERATING SYSTEMS LAB 1

1.pwd

```
ex2@ilab-HP-Desktop-Pro-G2:~$ pwd
/home/ex2
```

2. ls

```
ex2@ilab-HP-Desktop-Pro-G2:~$ ls
21bce1916_q1   Documents   inssort.cpp              LabFat.Rmd   pranav
21bce1916_q2   Downloads   kim                      main.c       Public
boot.asm       g           kol                      main.o       R
boot.bin       hello.txt   Lab_Fat20BCE1419.pdf     Music        Templates
Desktop        hi.txt      LabFat.html              Pictures     Videos
```

3. cd
   cd  Downloads

```
ex2@ilab-HP-Desktop-Pro-G2:~$ cd Downloads
ex2@ilab-HP-Desktop-Pro-G2:~/Downloads$
```

4. cd ..

```
ex2@ilab-HP-Desktop-Pro-G2:~$ cd
ex2@ilab-HP-Desktop-Pro-G2:~$ cd Downloads
ex2@ilab-HP-Desktop-Pro-G2:~/Downloads$ cd ..
ex2@ilab-HP-Desktop-Pro-G2:~$
```

5. mkdir

```
ex2@ilab-HP-Desktop-Pro-G2:~$ mkdir 21bai1217_folder
ex2@ilab-HP-Desktop-Pro-G2:~$ ls
21bai1217_folder   Documents   kim                      main.o      Templates
21bce1916_q1       Downloads   kol                      Music       Videos
21bce1916_q2       g           Lab_Fat20BCE1419.pdf     Pictures
boot.asm           hello.txt   LabFat.html              pranav
boot.bin           hi.txt      LabFat.Rmd               Public
Desktop            inssort.cpp main.c                   R
```

6.rmdir

```
ex2@ilab-HP-Desktop-Pro-G2:~$ rmdir 21bai1217_folder
ex2@ilab-HP-Desktop-Pro-G2:~$ ls
21bce1916_q1   Documents   inssort.cpp              LabFat.Rmd   pranav
21bce1916_q2   Downloads   kim                      main.c       Public
boot.asm       g           kol                      main.o       R
boot.bin       hello.txt   Lab_Fat20BCE1419.pdf     Music        Templates
Desktop        hi.txt      LabFat.html              Pictures     Videos
```

7. cat filename.txt

```
ex2@ilab-HP-Desktop-Pro-G2:~$ cat hello.txt
This is OPerating systems lab
I am Mainak
21BAI1217
```

8. cp filename.txt filename2.txt

```
ex2@ilab-HP-Desktop-Pro-G2:~$ cp hello.txt copy.txt
ex2@ilab-HP-Desktop-Pro-G2:~$ ls
21bce1916_q1  boot.asm  copy.txt  Documents  g           hi.txt        kim   Lab_Fa
t20BCE1419.pdf  LabFat.Rmd  main.o  Pictures  Public  Templates
21bce1916_q2  boot.bin  Desktop   Downloads  hello.txt  inssort.cpp  kol   LabFat
.html         main.c      Music    pranav     R          Videos
ex2@ilab-HP-Desktop-Pro-G2:~$ cat copy.txt
This is OPerating systems lab
I am Mainak
21BAI1217
ex2@ilab-HP-Desktop-Pro-G2:~$
```

9. mv filename destination_folder

```
ex2@ilab-HP-Desktop-Pro-G2:~$ mv copy.txt Desktop
ex2@ilab-HP-Desktop-Pro-G2:~$ cd Desktop
ex2@ilab-HP-Desktop-Pro-G2:~/Desktop$ ls
21bce1897lab1.c++  copy.txt  Don1                   one.c    two.c
a.out              don       Insertion_sorting.xlsx  rand.py
ex2@ilab-HP-Desktop-Pro-G2:~/Desktop$
```

10. ln -s file.txt file_link.txt

```
ex2@ilab-HP-Desktop-Pro-G2:~$ ln -s hello.txt hello_link.txt
ex2@ilab-HP-Desktop-Pro-G2:~$ ls
21bce1916_q1  Downloads       kim                   main.o     Templates
21bce1916_q2  g               kol                   Music      Videos
boot.asm      hello_link.txt  Lab_Fat20BCE1419.pdf  Pictures
boot.bin      hello.txt       LabFat.html           pranav
Desktop       hi.txt          LabFat.Rmd            Public
Documents     inssort.cpp     main.c                R
```

11. rm filename

```
ex2@ilab-HP-Desktop-Pro-G2:~$ rm hi.txt
ex2@ilab-HP-Desktop-Pro-G2:~$ ls
21bce1916_q1  boot.asm  Desktop    Downloads  hello_link.txt  inssort.cpp  kol                      LabFat.html  main.c  Music     pranav  R          Videos
21bce1916_q2  boot.bin  Documents  g          hello.txt       kim          Lab_Fat20BCE1419.pdf  LabFat.Rmd   main.o  Pictures  Public  Templates
```

12. who

```
ex2@ilab-HP-Desktop-Pro-G2:~$ who
ex2      tty7         2023-04-28 09:54 (:0)
```

13. whoami

```
ex2@ilab-HP-Desktop-Pro-G2:~$ whoami
ex2
```

14. date

```
ex2@ilab-HP-Desktop-Pro-G2:~$ date
Friday 28 April 2023 10:23:48 AM IST
```

15. echo

```
ex2@ilab-HP-Desktop-Pro-G2:~$ date
Friday 28 April 2023 10:23:48 AM IST
```

16. head filename.txt

```
ex2@ilab-HP-Desktop-Pro-G2:~$ head hello.txt
This is OPerating systems lab
I am Mainak
21BAI1217
```

17.tail filename.txt

```
ex2@ilab-HP-Desktop-Pro-G2:~$ tail hello.txt
This is OPerating systems lab
I am Mainak
21BAI1217
```

18. wc

```
ex2@ilab-HP-Desktop-Pro-G2:~$ wc hello.txt
 3  9 52 hello.txt
```

19.  find

```
ex2@ilab-HP-Desktop-Pro-G2:~$ find ./Desktop -name copy.txt
./Desktop/copy.txt
```

20. chmod

```
ex2@ilab-HP-Desktop-Pro-G2:~$ chmod u=rwx,g=rx,o=r hello.txt
ex2@ilab-HP-Desktop-Pro-G2:~$ ls -l hello.txt
-rwxr-xr-- 1 ex2 ex2 52 Apr 28 10:10 hello.txt
```

21. exit

 Terminal Closed

22. clear

```
ex2@ilab-HP-Desktop-Pro-G2:~$ echo "hello"      ex2@ilab-HP-Desktop-Pro-G2:~$
hello
ex2@ilab-HP-Desktop-Pro-G2:~$ clear
```

23. Ctrl + Z

```
ex2@ilab-HP-Desktop-Pro-G2:~$ head
^Z
[1]+  Stopped                 head
ex2@ilab-HP-Desktop-Pro-G2:~$
```

24. man command



```
                              ex2@ilab-HP-Desktop-Pro-G2: ~              _  □  ⊗

File   Edit   View   Search   Terminal   Help
CHMOD(1)                          User Commands                          CHMOD(1)

NAME
       chmod - change file mode bits

SYNOPSIS
       chmod [OPTION]... MODE[,MODE]... FILE...
       chmod [OPTION]... OCTAL-MODE FILE...
       chmod [OPTION]... --reference=RFILE FILE...

DESCRIPTION
       This manual page documents the GNU version of chmod.  chmod changes the
       file mode bits of each given file according to mode, which can  be  ei-
       ther  a  symbolic representation of changes to make, or an octal number
       representing the bit pattern for the new mode bits.

       The format of a symbolic mode is  [ugoa...][[-+=][perms...]...],  where
       perms  is  either zero or more letters from the set rwxXst, or a single
       letter from the set ugo.  Multiple symbolic modes can be  given,  sepa-
       rated by commas.

       A   combination  of the letters ugoa controls which users' access to the
       file will be changed: the user who owns it  (u),  other  users  in  the
 Manual page chmod(1) line 1 (press h for help or q to quit)
```

25 . Ctrl + C

```
ex2@ilab-HP-Desktop-Pro-G2:~$ head
^C
ex2@ilab-HP-Desktop-Pro-G2:~$ █
```

26. history

```
ex2@ilab-HP-Desktop-Pro-G2:~$ history
    1  ls
    2  cd Do
    3  cd Documents/
    4  l
    5  ls
    6  mkdir 21brs1141_fat
    7  cd 21brs1141_fat/
    8  ls
    9  clear
   10  gedit q1.sh
   11  bash q1.sh
   12  gedit q1.sh
   13  bash q1.sh
   14  gedit q1.sh
   15  code q1.sh
   16  code q2.c
   17  bash --help
   18  clear
   19  bash q1.sh
   20  clear
   21  bash q1.sh
   22  bash q1.sh 32
   23  bash q1.sh 32 3 2 5 2 57 34 64 43 46
   24  clear
   25  bash q1.sh 32 3 2 5 2 57 34 64 43 46
   26  g++ pthread.h q2.c
   27  g++ pthread q2.c
   28  g++ q2.c
   29  bash q1.sh 32 3 2 5 2 57 34 64 43 46
   30  gpp q2.c
   31  g++ pthread q2.c
   32  g++ -o pthread q2.c
   33  bash q1.sh 32 3 2 5 2 57 34 64 43 46
   34  clear
```

## 27. more FILE.txt

```
ex2@ilab-HP-Desktop-Pro-G2:~$ more hello.txt
This is OPerating systems lab
I am Mainak
21BAI1217
```

## 28. less FILE.txt

```
ex2@ilab-HP-Desktop-Pro-G2: ~
File  Edit  View  Search  Terminal  Help




This is OPerating systems lab
I am Mainak
21BAI1217
hello.txt (END)
```