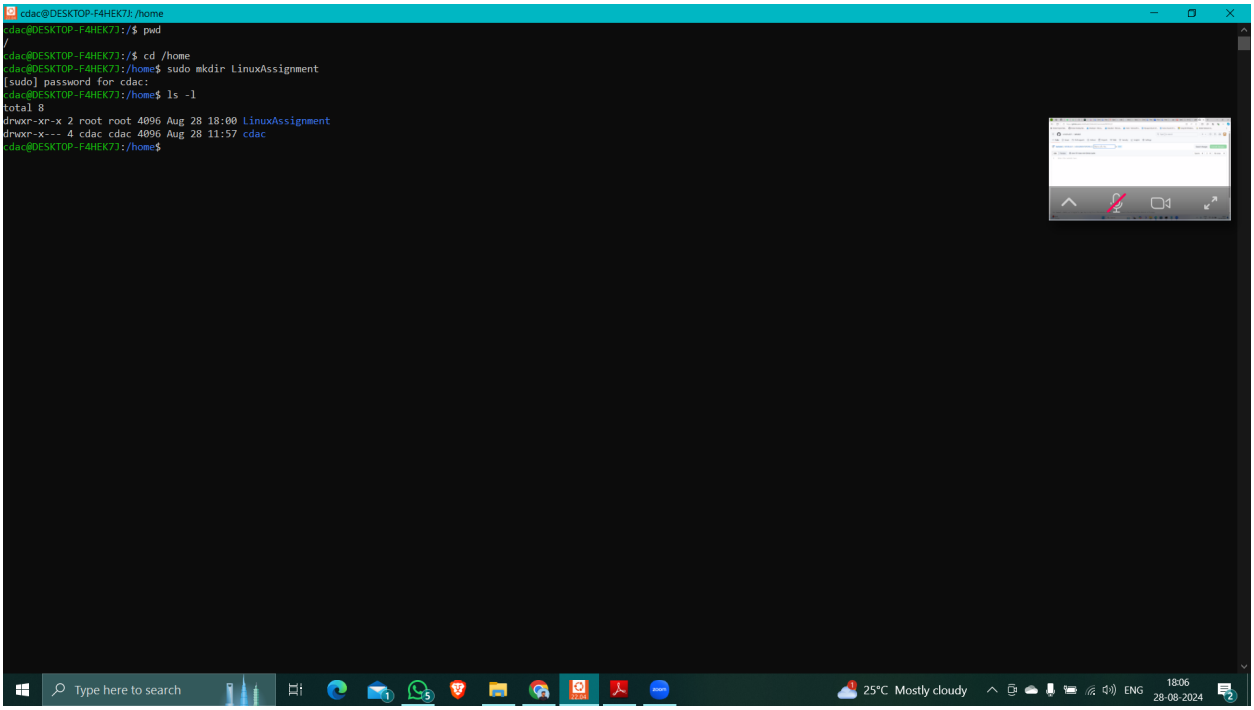
LinuxAssignment-1(problem1)

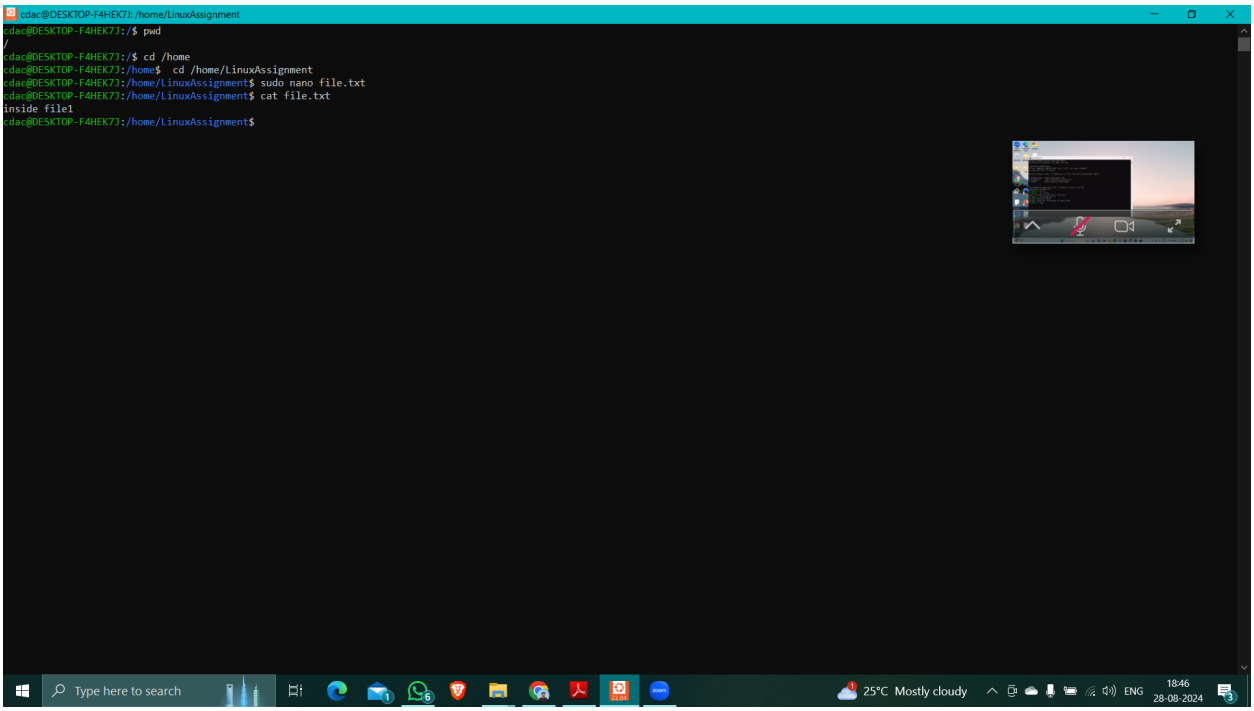
Q1

1. for navigating to the home directory we have to use cd command
2. in home directory if LinuxAssignment is present again use cd to go inside LinuxAssignment if not we can create it using mkdir command
3.



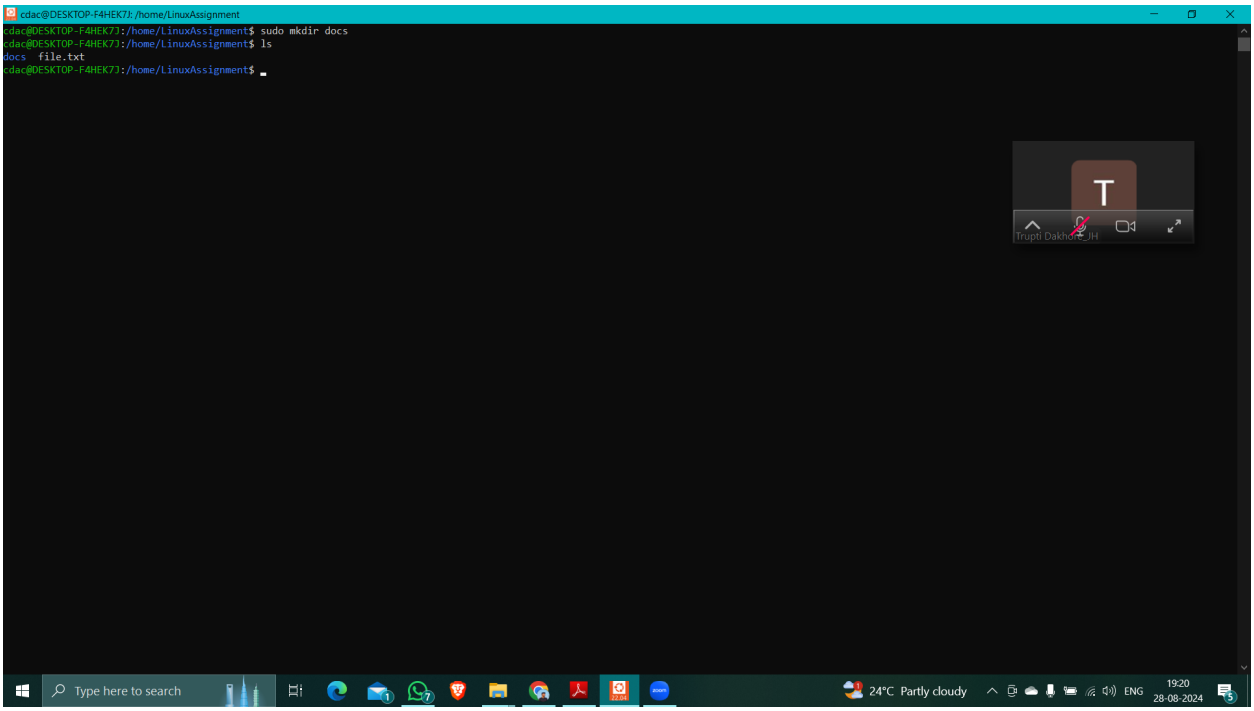
Q2

1. use cd for LinuxAssignment
2. inside LinuxAssignement use sudo nano file.txt to create new file
3. use cat file.txt to see the content from the file
4.



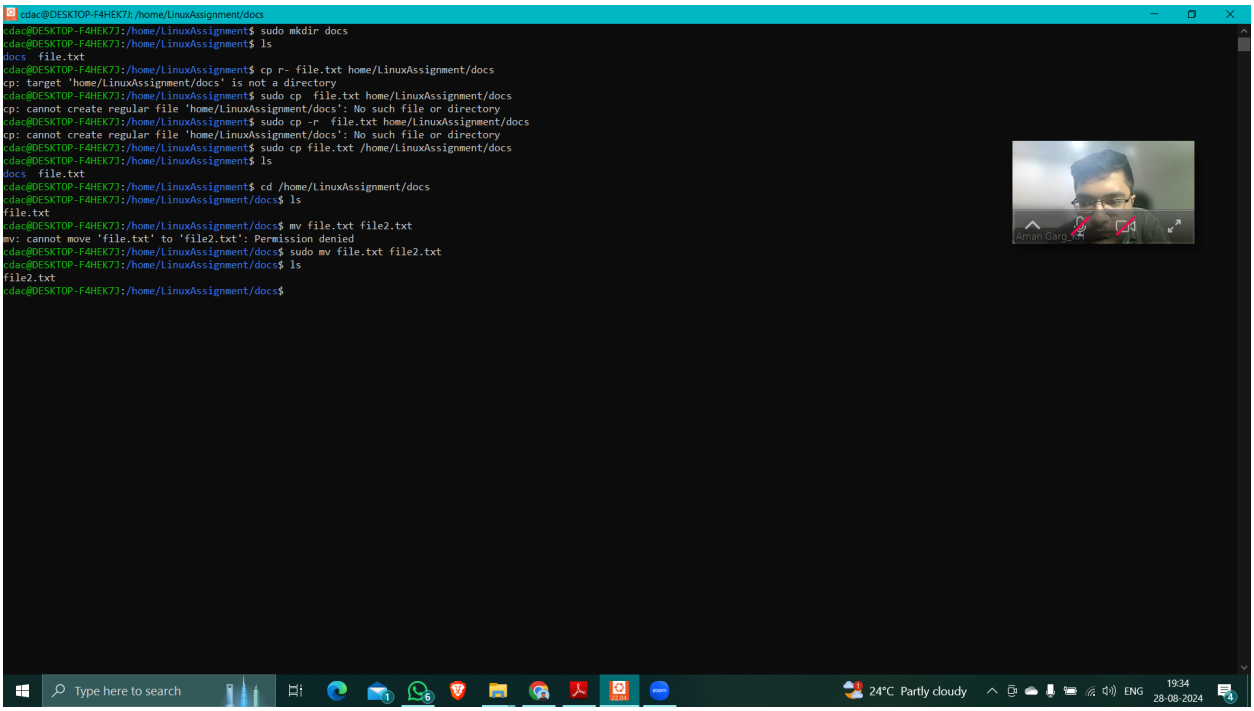
Q3

1. to create new directory we have to use sudo mkdir docs
2.



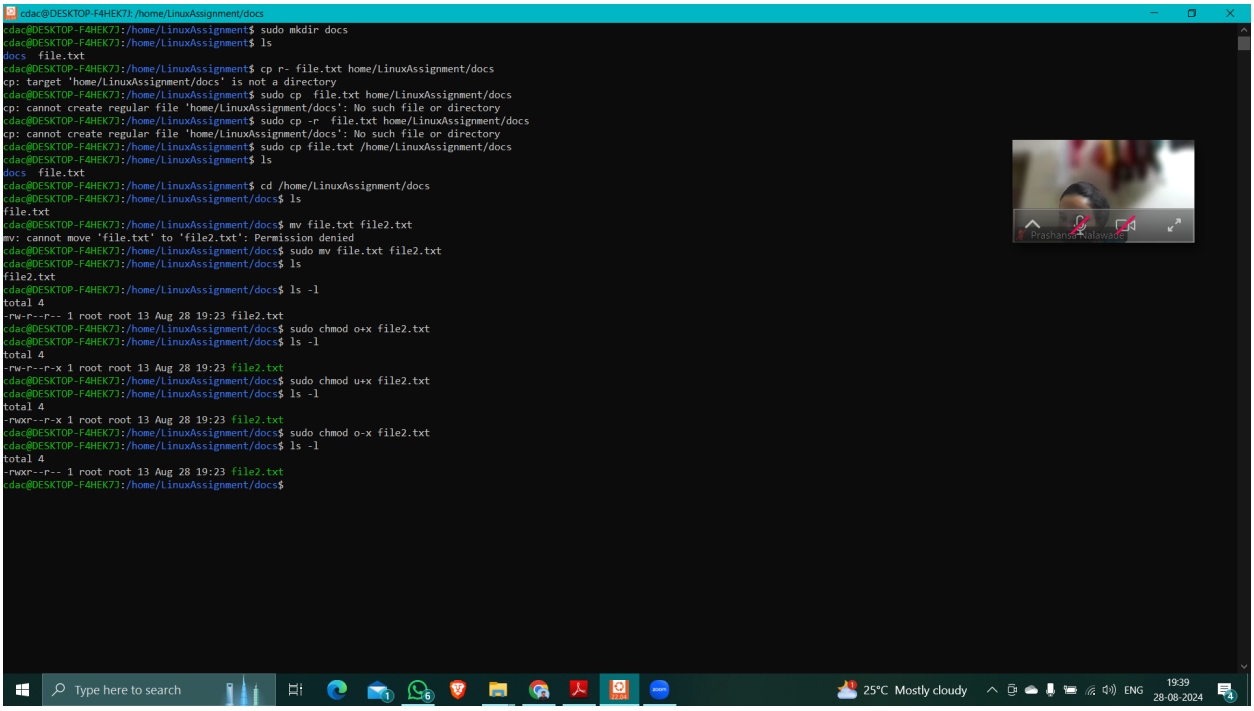
Q4

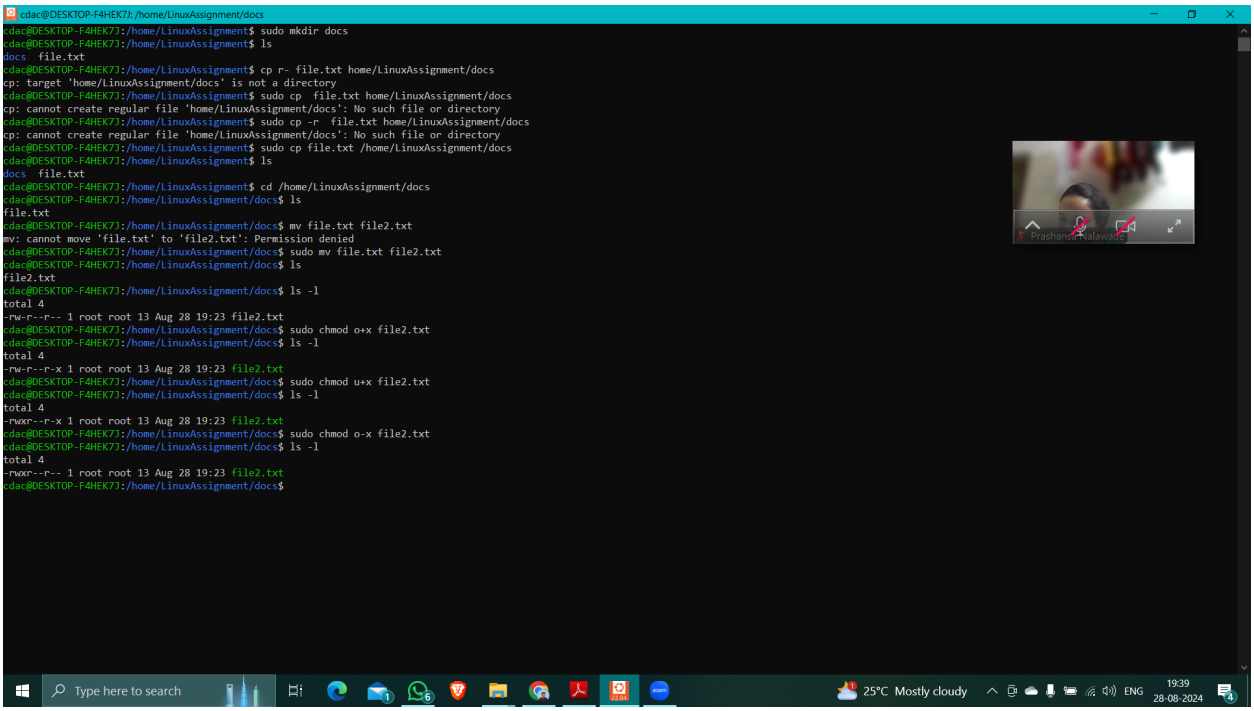
1. to rename the file we can use mv command to rename
2. mv file.txt file2.txt



Q5

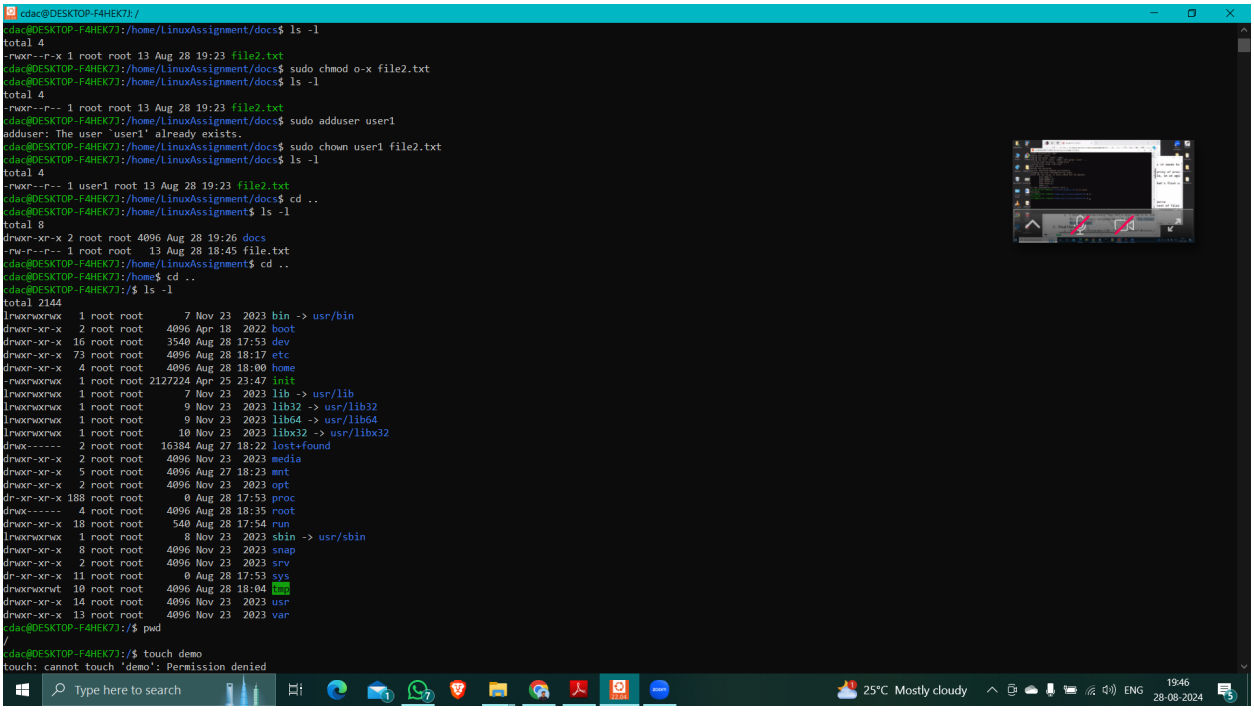
1. to change the permission we use chmod command
2. chmod u+rwx
3. chmod o-wx
4.




cdac@DESKTOP-F4HEK7J: /home/LinuxAssignment/docs
cdac@DESKTOP-F4HEK7J:/home/LinuxAssignment$ sudo mkdir docs
cdac@DESKTOP-F4HEK7J:/home/LinuxAssignment$ ls
docs file.txt
cdac@DESKTOP-F4HEK7J:/home/LinuxAssignment$ cp r- file.txt home/LinuxAssignment/docs
cp: target 'home/LinuxAssignment/docs' is not a directory
cdac@DESKTOP-F4HEK7J:/home/LinuxAssignment$ sudo cp file.txt home/LinuxAssignment/docs
cp: cannot create regular file 'home/LinuxAssignment/docs': No such file or directory
cdac@DESKTOP-F4HEK7J:/home/LinuxAssignment$ sudo cp -r file.txt home/LinuxAssignment/docs
cp: cannot create regular file 'home/LinuxAssignment/docs': No such file or directory
cdac@DESKTOP-F4HEK7J:/home/LinuxAssignment$ sudo cp file.txt /home/LinuxAssignment/docs
cdac@DESKTOP-F4HEK7J:/home/LinuxAssignment$ ls
docs file.txt
cdac@DESKTOP-F4HEK7J:/home/LinuxAssignment$ cd /home/LinuxAssignment/docs
cdac@DESKTOP-F4HEK7J:/home/LinuxAssignment/docs$ ls
file.txt
cdac@DESKTOP-F4HEK7J:/home/LinuxAssignment/docs$ mv file.txt file2.txt
mv: cannot move 'file.txt' to 'file2.txt': Permission denied
cdac@DESKTOP-F4HEK7J:/home/LinuxAssignment/docs$ sudo mv file.txt file2.txt
cdac@DESKTOP-F4HEK7J:/home/LinuxAssignment/docs$ ls
file2.txt
cdac@DESKTOP-F4HEK7J:/home/LinuxAssignment/docs$ ls -l
total 4
-rw-r--r-- 1 root root 13 Aug 28 19:23 file2.txt
cdac@DESKTOP-F4HEK7J:/home/LinuxAssignment/docs$ sudo chmod o+x file2.txt
cdac@DESKTOP-F4HEK7J:/home/LinuxAssignment/docs$ ls -l
total 4
-rw-r--r-x 1 root root 13 Aug 28 19:23 file2.txt
cdac@DESKTOP-F4HEK7J:/home/LinuxAssignment/docs$ sudo chmod u+x file2.txt
cdac@DESKTOP-F4HEK7J:/home/LinuxAssignment/docs$ ls -l
total 4
-rwxr--r-x 1 root root 13 Aug 28 19:23 file2.txt
cdac@DESKTOP-F4HEK7J:/home/LinuxAssignment/docs$ sudo chmod o-x file2.txt
cdac@DESKTOP-F4HEK7J:/home/LinuxAssignment/docs$ ls -l
total 4
-rwxr--r-- 1 root root 13 Aug 28 19:23 file2.txt
cdac@DESKTOP-F4HEK7J:/home/LinuxAssignment/docs$
Prashansa Nalawade
Type here to search
25°C Mostly cloudy
ENG
19:39
28-08-2024

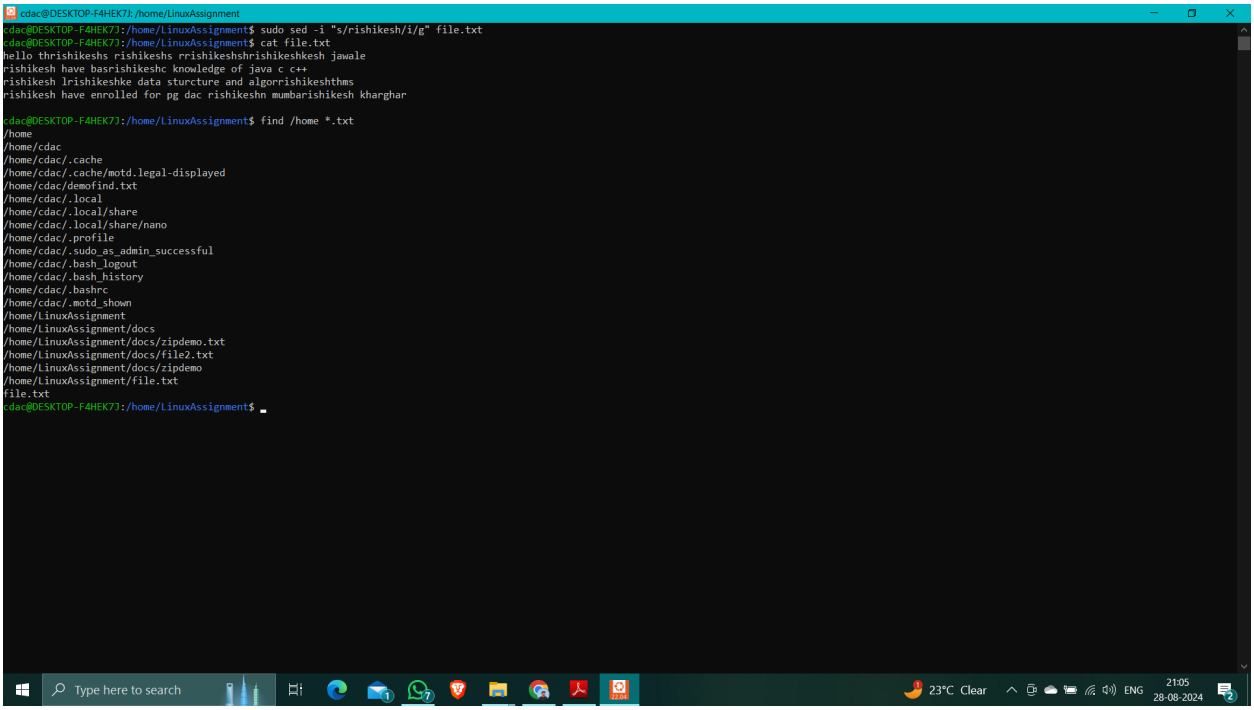
Q6

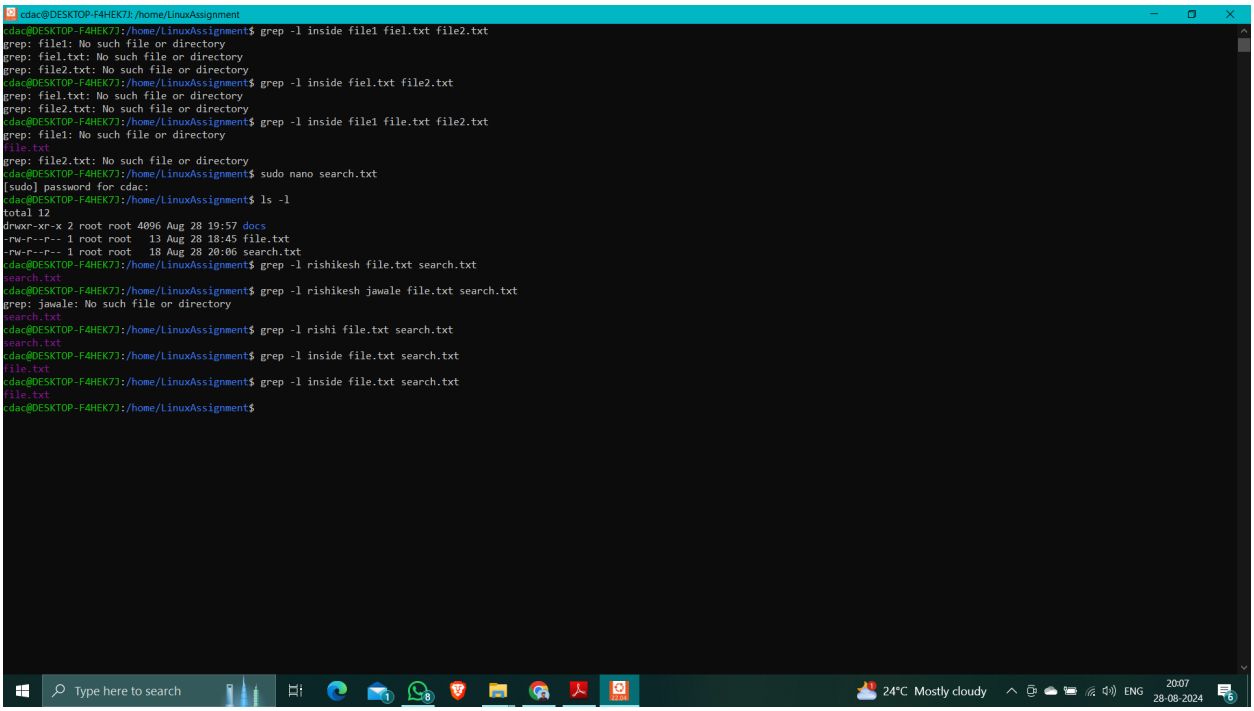
1.


cdac@DESKTOP-F4HEK7J: /
cdac@DESKTOP-F4HEK7J:/home/LinuxAssignment/docs$ ls -l
total 4
-rwxr--r-x 1 root root 13 Aug 28 19:23 file2.txt
cdac@DESKTOP-F4HEK7J:/home/LinuxAssignment/docs$ sudo chmod o-x file2.txt
cdac@DESKTOP-F4HEK7J:/home/LinuxAssignment/docs$ ls -l
total 4
-rwxr--r-- 1 root root 13 Aug 28 19:23 file2.txt
cdac@DESKTOP-F4HEK7J:/home/LinuxAssignment/docs$ sudo adduser user1
adduser: The user `user1' already exists.
cdac@DESKTOP-F4HEK7J:/home/LinuxAssignment/docs$ sudo chown user1 file2.txt
cdac@DESKTOP-F4HEK7J:/home/LinuxAssignment/docs$ ls -l
total 4
-rwxr--r-- 1 user1 root 13 Aug 28 19:23 file2.txt
cdac@DESKTOP-F4HEK7J:/home/LinuxAssignment/docs$ cd ..
cdac@DESKTOP-F4HEK7J:/home/LinuxAssignment$ ls -l
total 8
drwxr-xr-x 2 root root 4096 Aug 28 19:26 docs
-rw-r--r-- 1 root root   13 Aug 28 18:45 file.txt
cdac@DESKTOP-F4HEK7J:/home/LinuxAssignment$ cd ..
cdac@DESKTOP-F4HEK7J:/home$ cd ..
cdac@DESKTOP-F4HEK7J:/$ ls -l
total 2144
lrwxrwxrwx   1 root root   7 Nov 23 2023 bin -> usr/bin
drwxr-xr-x   2 root root   4096 Apr 18 2022 boot
drwxr-xr-x 16 root root   3540 Aug 28 17:53 dev
drwxr-xr-x 73 root root   4096 Aug 28 18:17 etc
drwxr-xr-x   4 root root   4096 Aug 28 18:00 home
-rwxrwxrwx   1 root root 2127224 Apr 25 23:47 init
lrwxrwxrwx   1 root root   7 Nov 23 2023 lib -> usr/lib
lrwxrwxrwx   1 root root   9 Nov 23 2023 lib32 -> usr/lib32
lrwxrwxrwx   1 root root   9 Nov 23 2023 lib64 -> usr/lib64
lrwxrwxrwx   1 root root   10 Nov 23 2023 libx32 -> usr/libx32
drwx------   2 root root   16384 Aug 27 18:22 lost+found
drwxr-xr-x   2 root root   4096 Nov 23 2023 media
drwxr-xr-x   5 root root   4096 Aug 27 18:23 mnt
drwxr-xr-x   2 root root   4096 Nov 23 2023 opt
dr-xr-xr-x 188 root root   0 Aug 28 17:53 proc
drwx------   4 root root   4096 Aug 28 18:35 root
drwxr-xr-x 18 root root   540 Aug 28 17:54 run
lrwxrwxrwx   1 root root   8 Nov 23 2023 sbin -> usr/sbin
drwxr-xr-x   8 root root   4096 Nov 23 2023 snap
drwxr-xr-x   2 root root   4096 Nov 23 2023 srv
dr-xr-xr-x 11 root root   0 Aug 28 17:53 sys
drwxrwxrwt 10 root root   4096 Aug 28 18:04 tmp
drwxr-xr-x 14 root root   4096 Nov 23 2023 usr
drwxr-xr-x 13 root root   4096 Nov 23 2023 var
cdac@DESKTOP-F4HEK7J:/$ pwd
/
cdac@DESKTOP-F4HEK7J:/$ touch demo
touch: cannot touch 'demo': Permission denied
Type here to search
25°C Mostly cloudy
ENG
19:46
28-08-2024

Q7

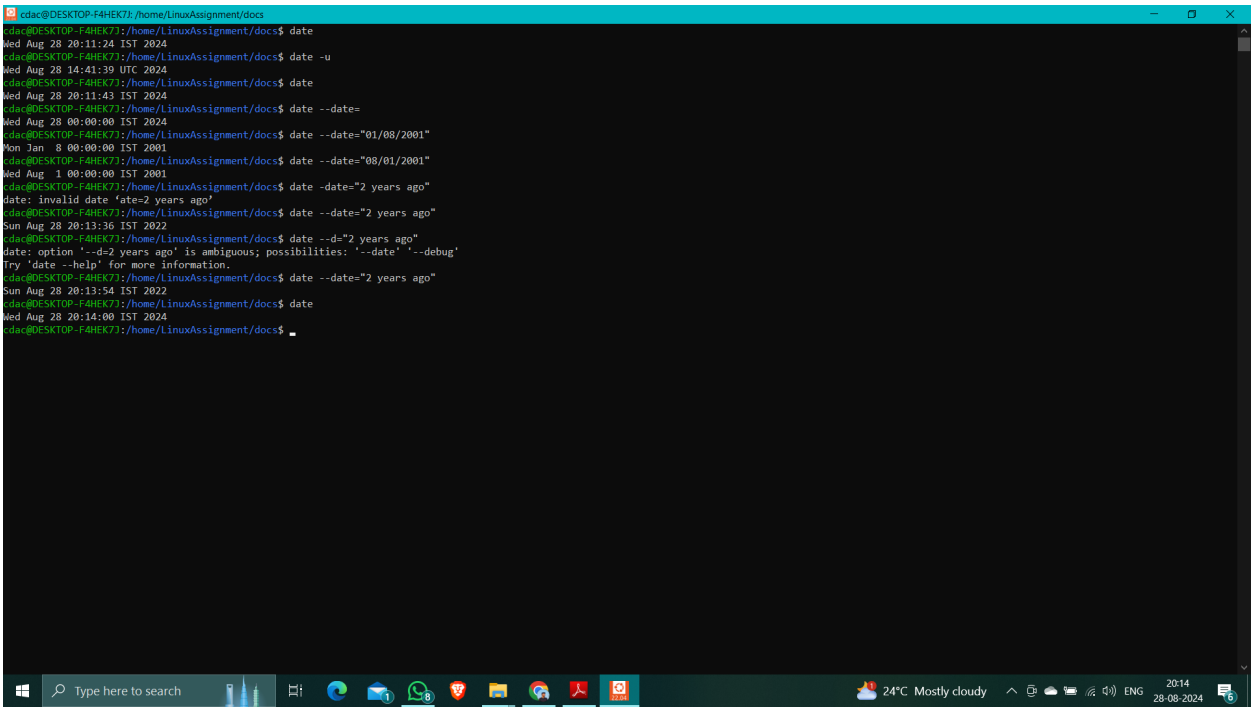
1. to check the if the file present with particular extension we use find /home/LinuxAssignment *.txt
2. to check particular string in file we grep -I string file.txt
3.





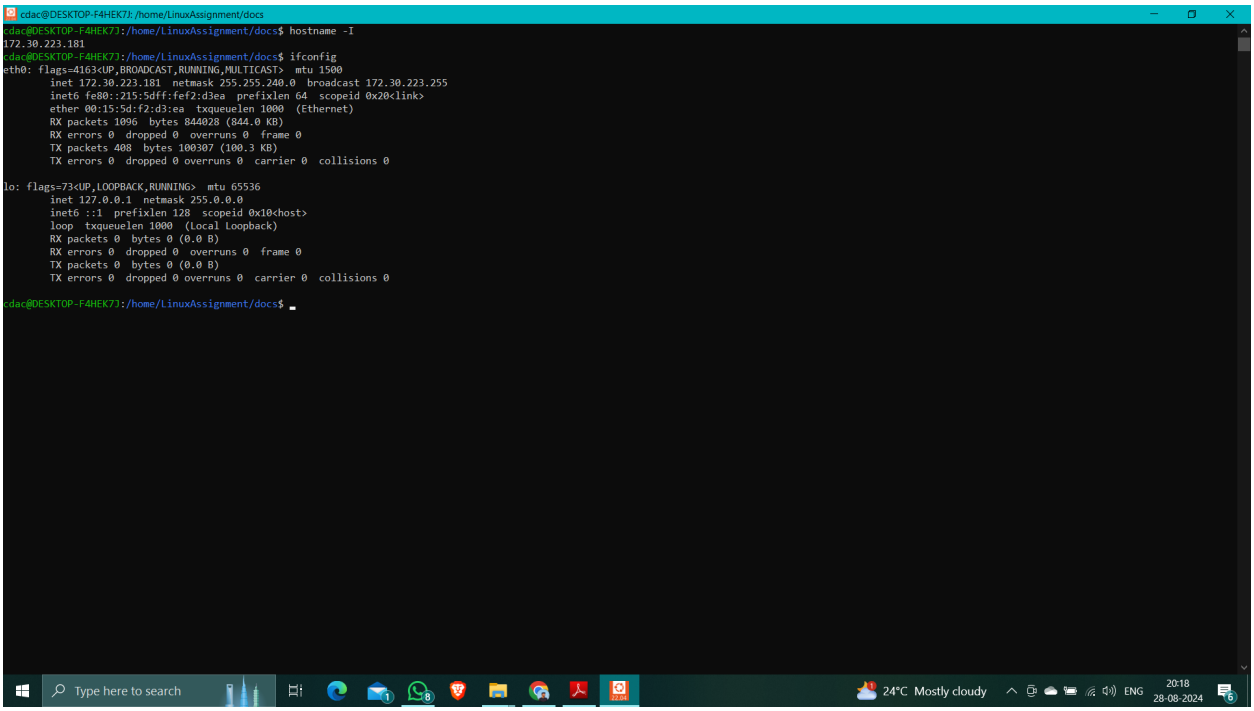
Q8

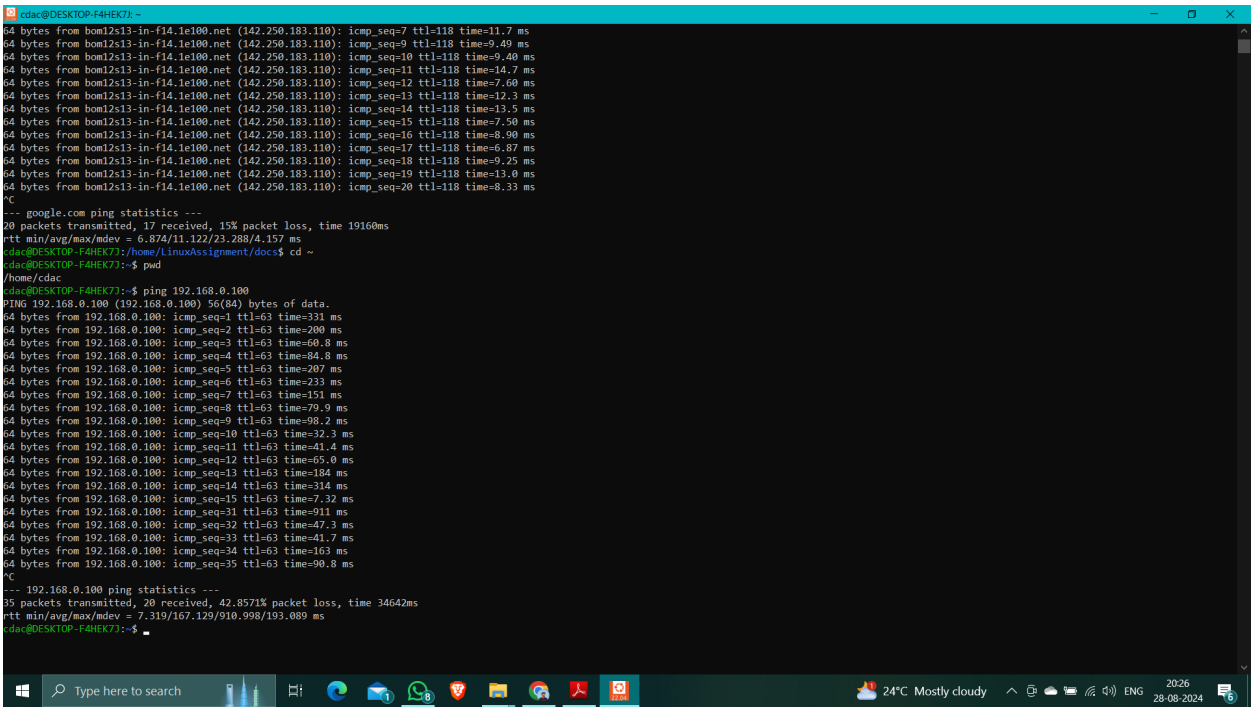
1. to see current time we simply use date command
2. date —date=”date 2 years ago”
3. date —date=”01/08/2001”
4.



Q9

1. to see the ip adress we can use hoastname -I
2. or ifcongfig
3. to ping we use ping command ping ipaddress
4.

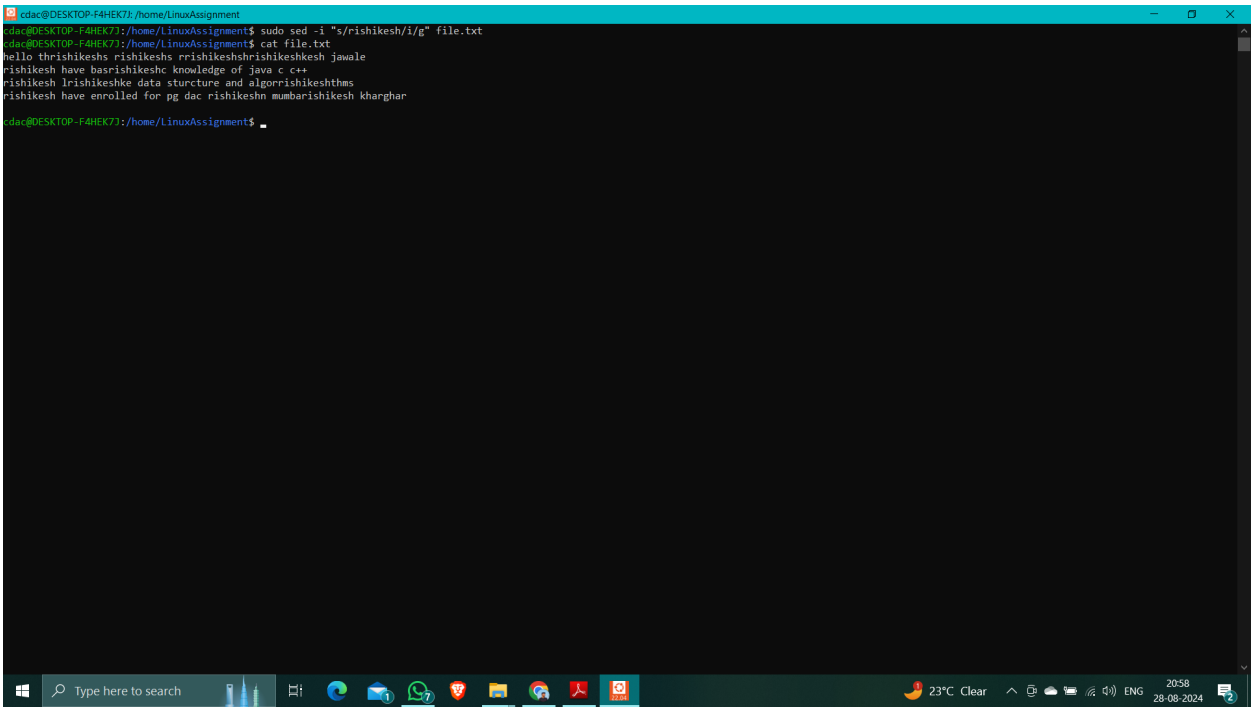




Q11

1. to read the content of the file we can use cat
2. to chane particular word we use sed “s/new/old/g” filename

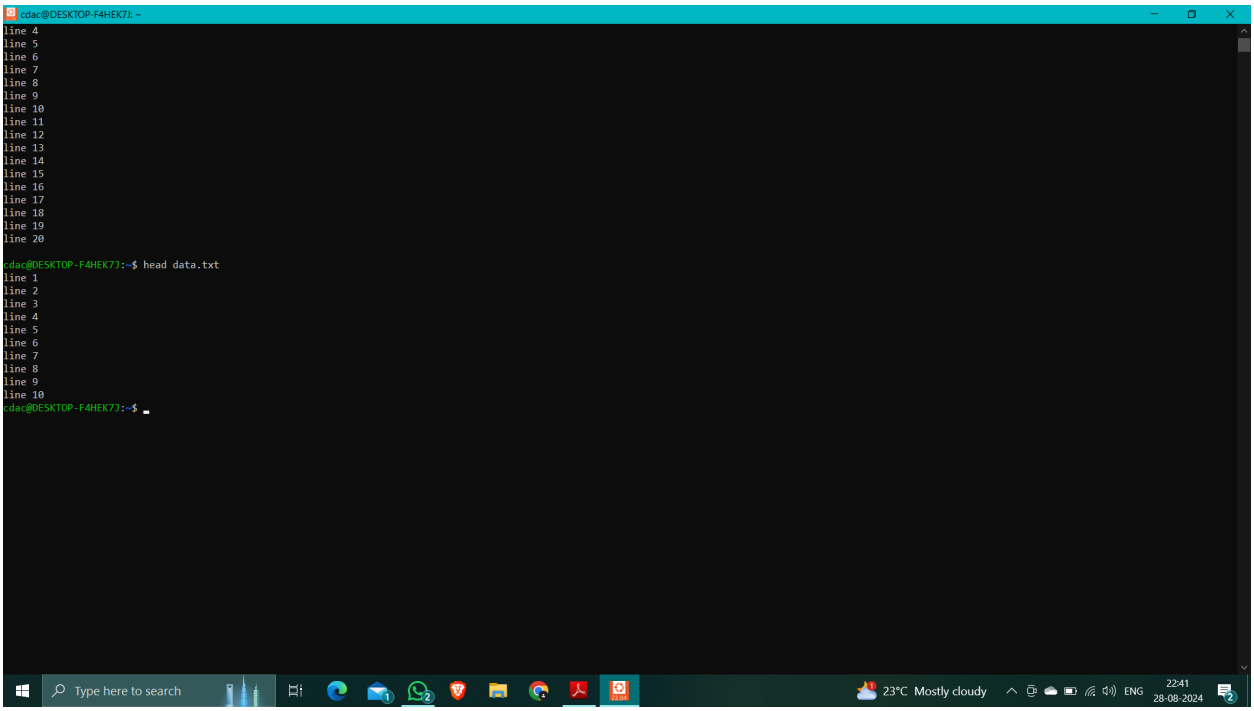
3.



Problem 2

Q1

1. head command by default prints first 10 lines
2.

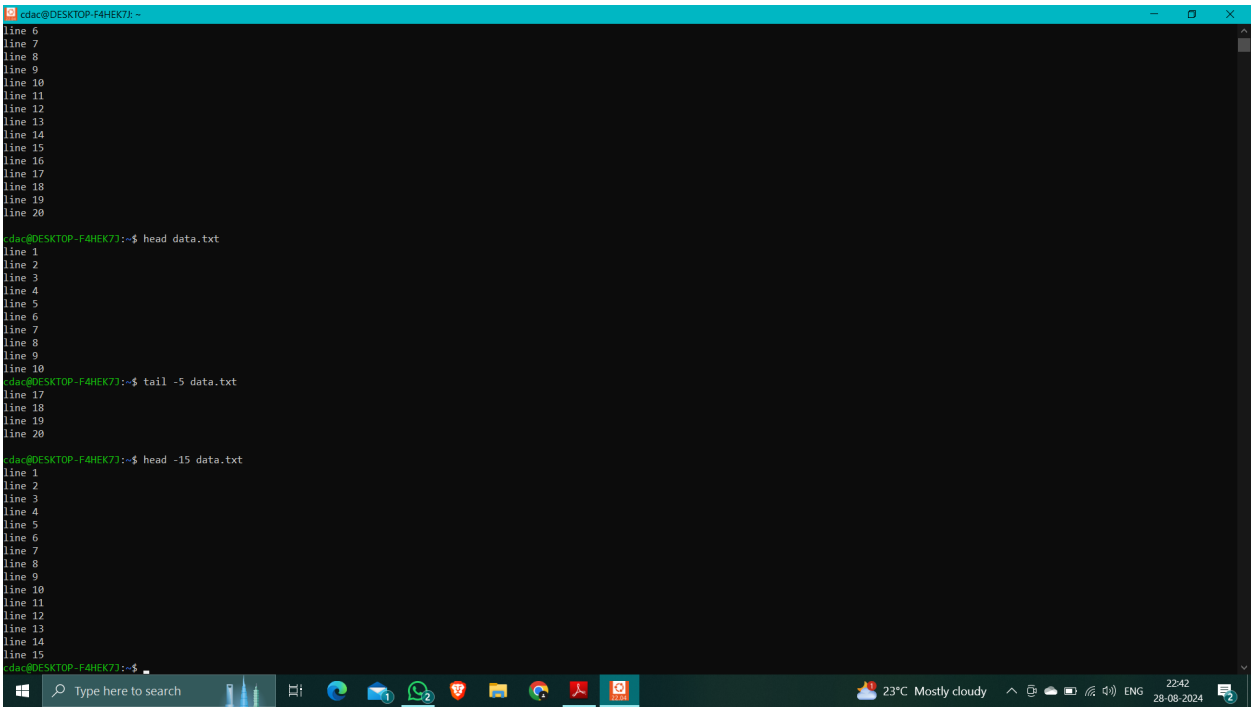


Q2

1. tail -5 will print last line of the file
2. tail -5 file.txt

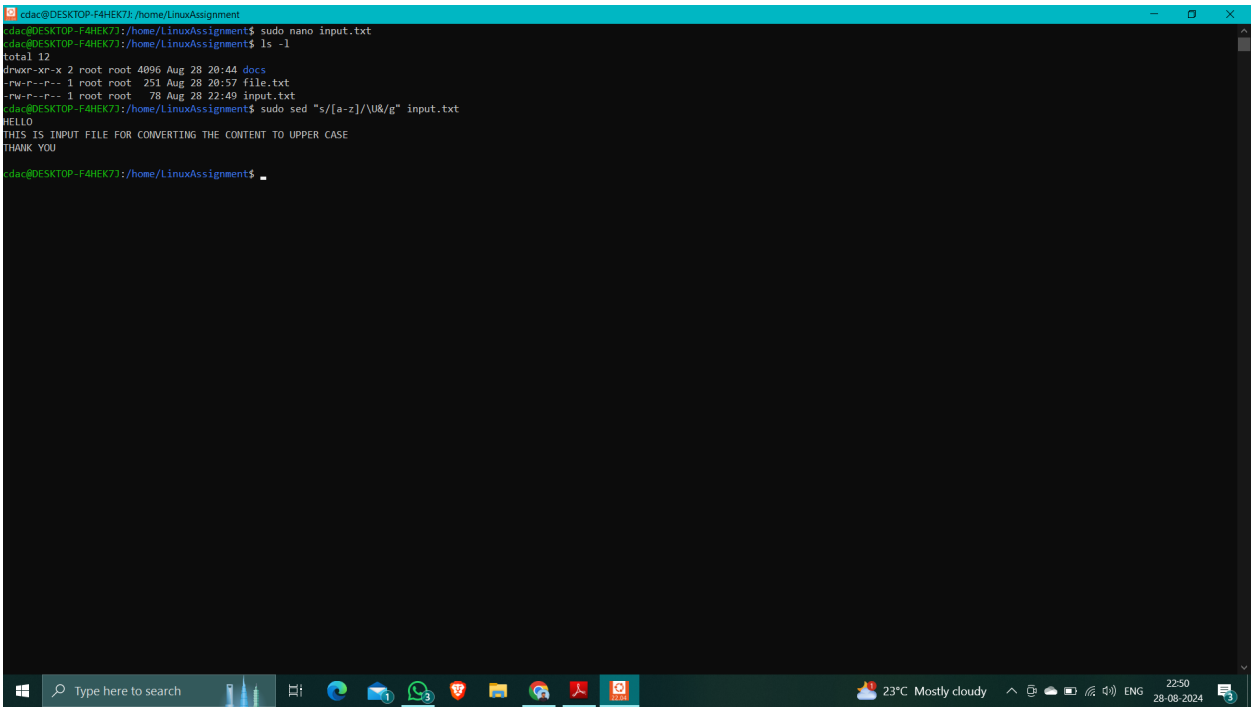
Q3

1. to display first 15 line we use head -15 filename
2.



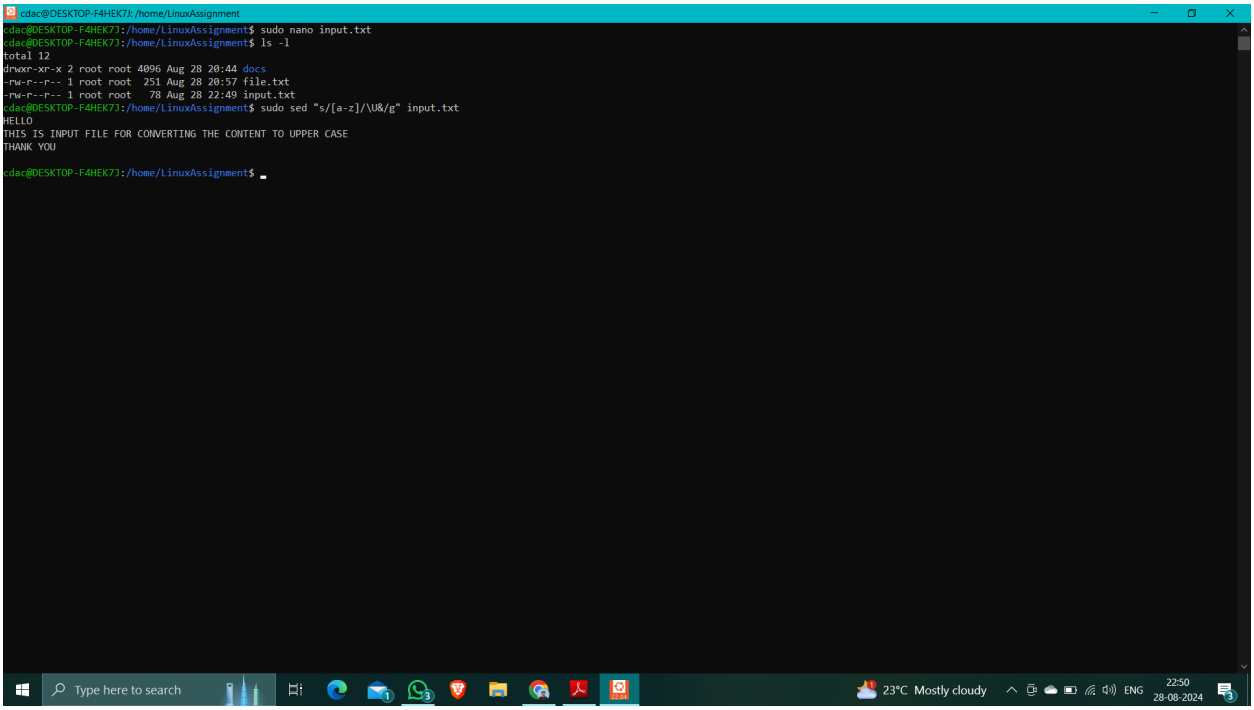
Q4

1. tail -3 filename
2.



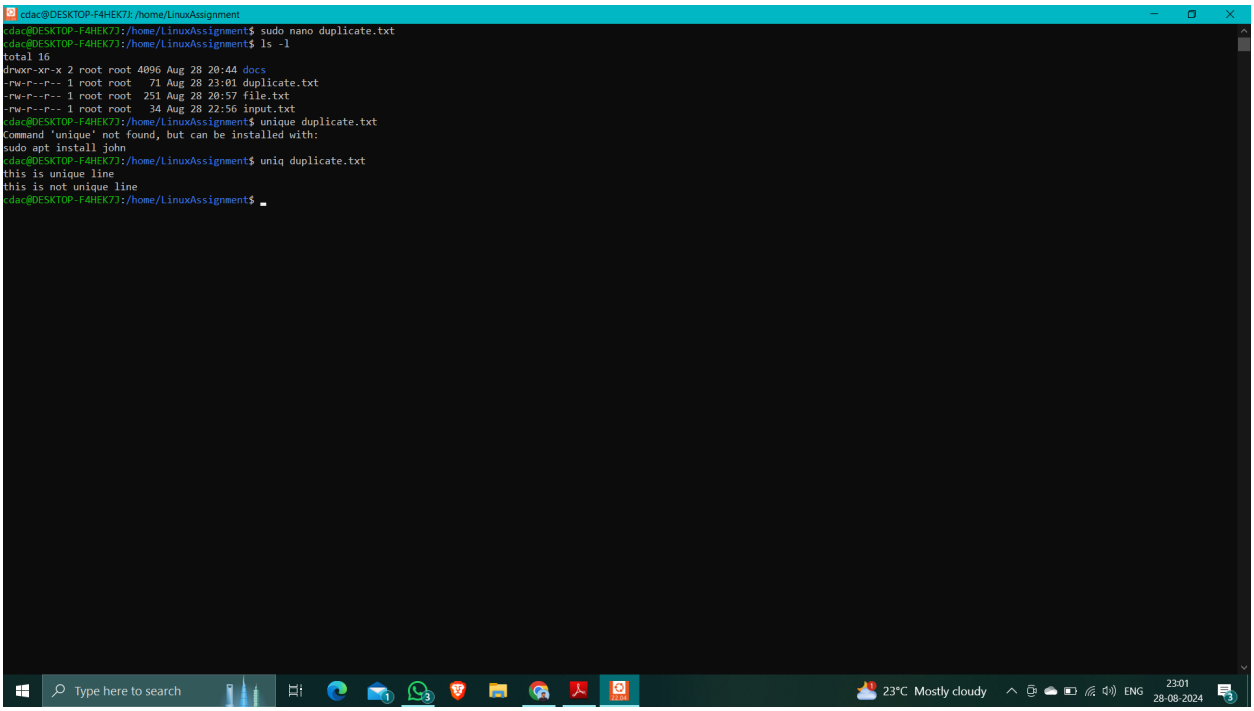
Q 5

1. for lower case we can use sed “s/[a-z]/\U&/g” filename
2.



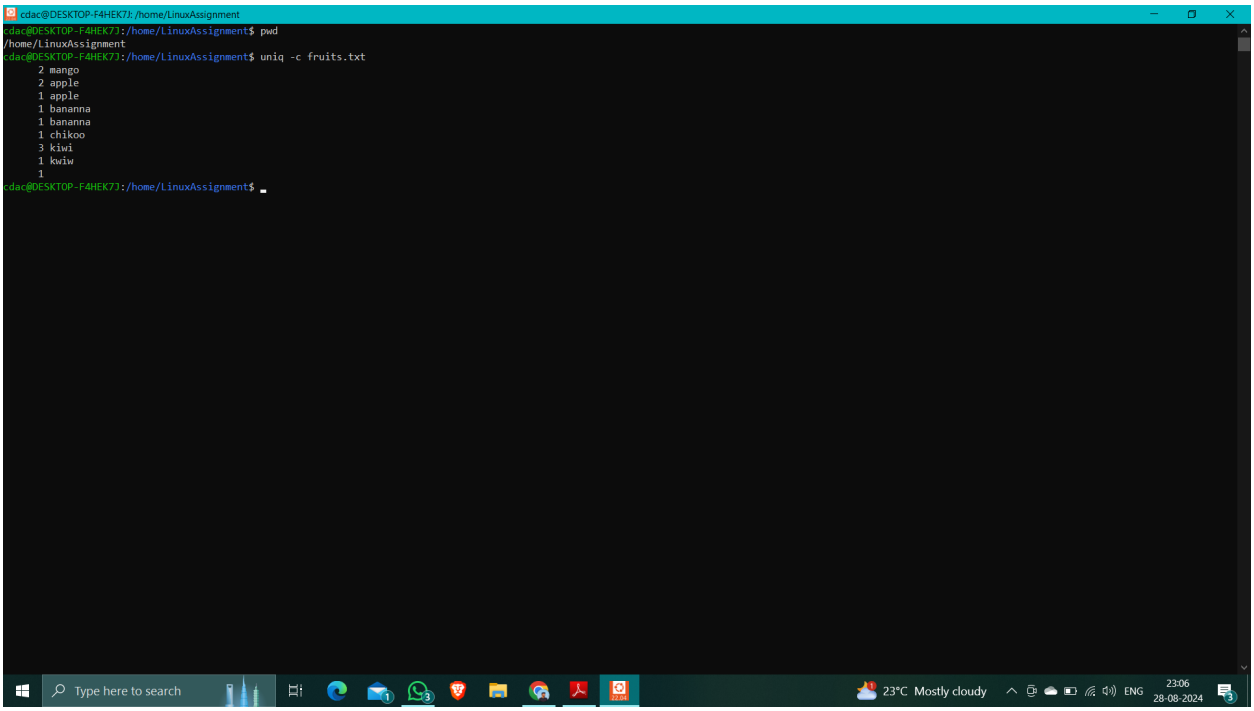
Q6

1. uniq filename can be used to only select uniq lines from the file it will not select the same selected line once again
2.



Q7

1. to print only uniq fruits from the files we will use uniq -c fille name
2. -c is for the count
3.


cdac@DESKTOP-F4HEK7J: /home/LinuxAssignment
cdac@DESKTOP-F4HEK7J:/home/LinuxAssignment$ pwd
/home/LinuxAssignment
cdac@DESKTOP-F4HEK7J:/home/LinuxAssignment$ uniq -c fruits.txt
2 mango
2 apple
1 apple
1 bananna
1 bananna
1 chikoo
3 kiwi
1 kwiw
1
cdac@DESKTOP-F4HEK7J:/home/LinuxAssignment$
Type here to search
23°C Mostly cloudy
ENG
23:06
28-08-2024