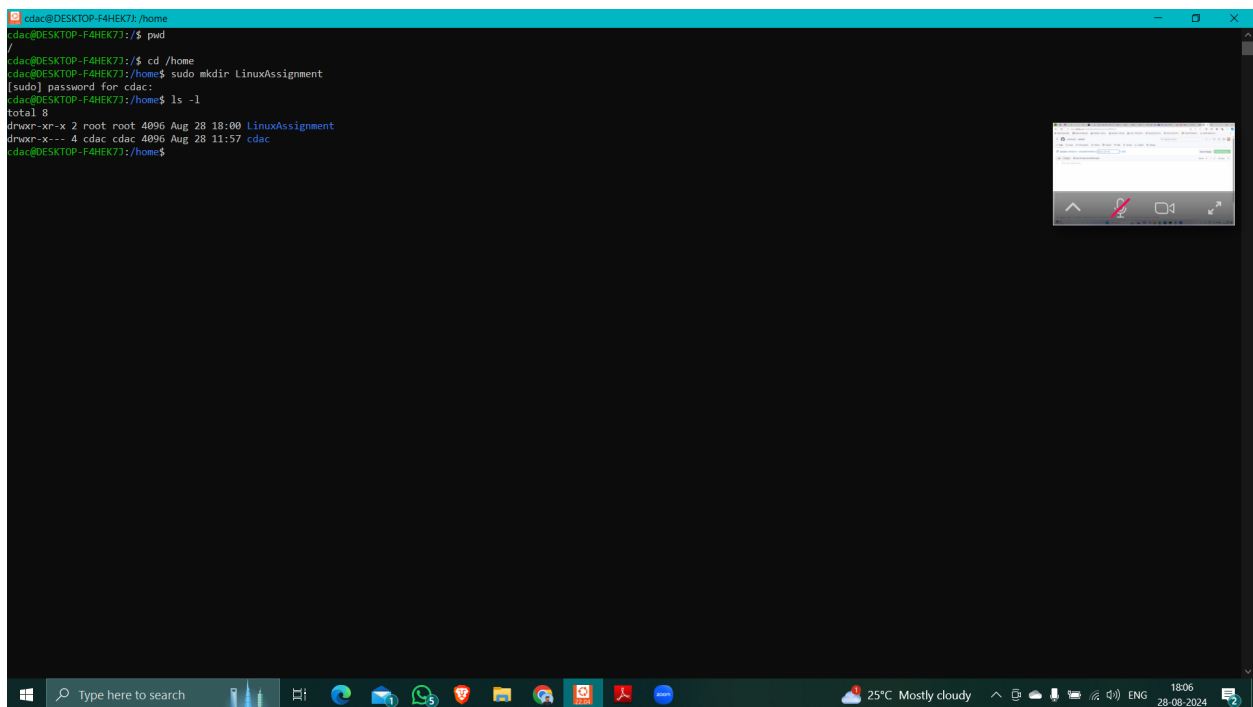


# LinuxAssignment-1(problem1)

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.

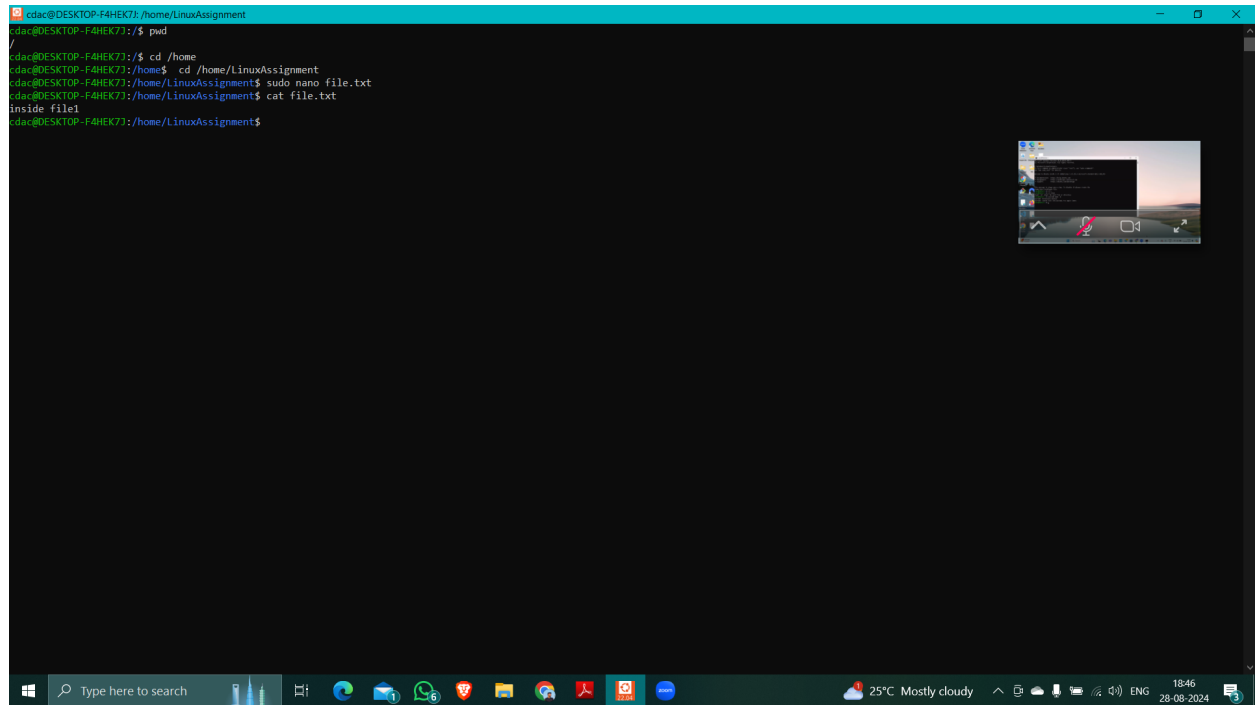


```
cdac@DESKTOP-F4HEK7J:/home
cdac@DESKTOP-F4HEK7J:/$ pwd
/
cdac@DESKTOP-F4HEK7J:/$ cd /home
cdac@DESKTOP-F4HEK7J:/home$ sudo mkdir LinuxAssignment
[sudo] password for cdac:
cdac@DESKTOP-F4HEK7J:/home$ ls -l
total 8
drwxr-xr-x 2 root root 4096 Aug 28 18:00 LinuxAssignment
drwxr-xr-x 4 cdac cdac 4096 Aug 28 11:57 cdac
cdac@DESKTOP-F4HEK7J:/home$
```

Q2

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

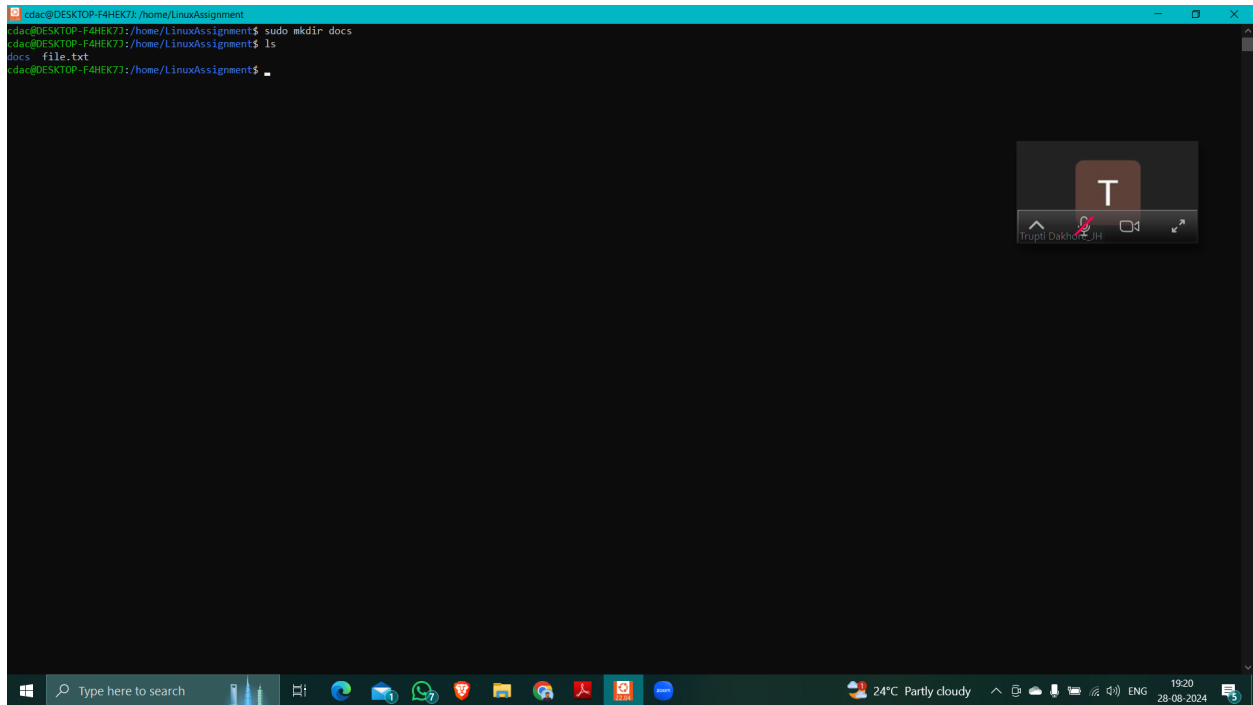
```
cdac@DESKTOP-F4HEK73: /home/LinuxAssignment
cdac@DESKTOP-F4HEK73:/$ pwd
/
cdac@DESKTOP-F4HEK73:/$ cd /home
cdac@DESKTOP-F4HEK73:/home$ cd /home/LinuxAssignment
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment$ sudo nano file.txt
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment$ cat file.txt
inside file1
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment$
```



Q3

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

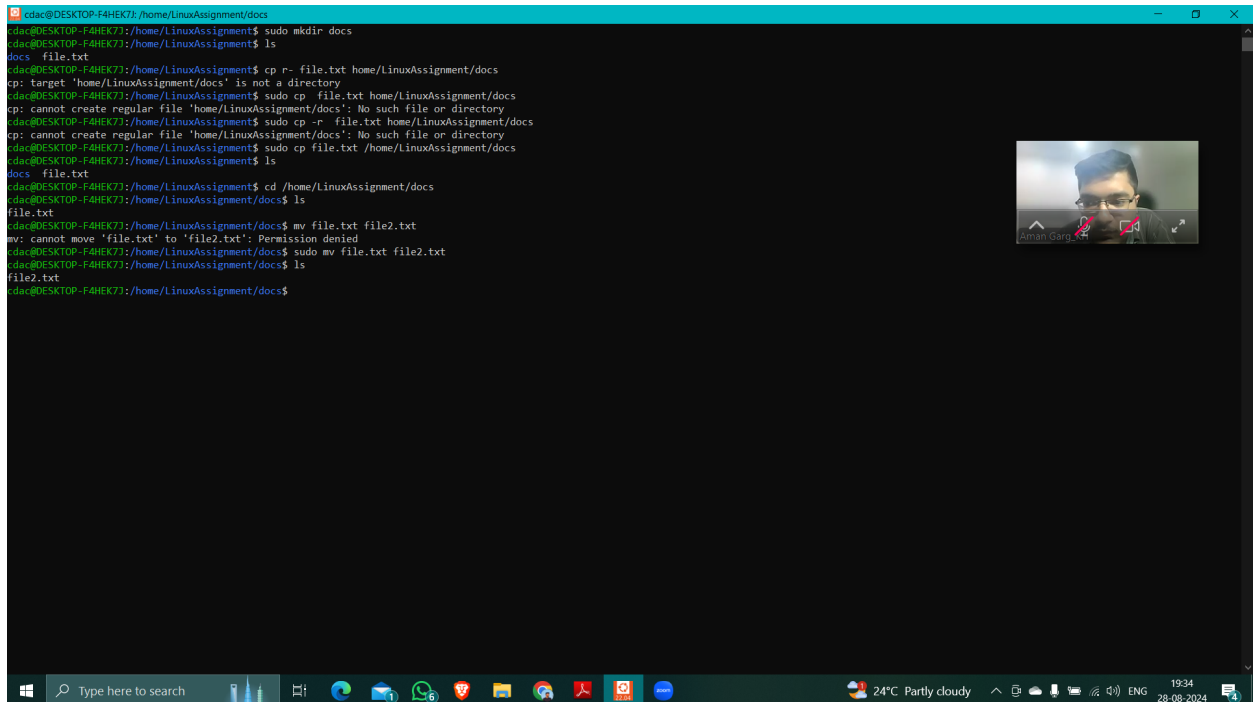
```
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment$ sudo mkdir docs
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment$ ls
docs  file.txt
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment$
```



Q4

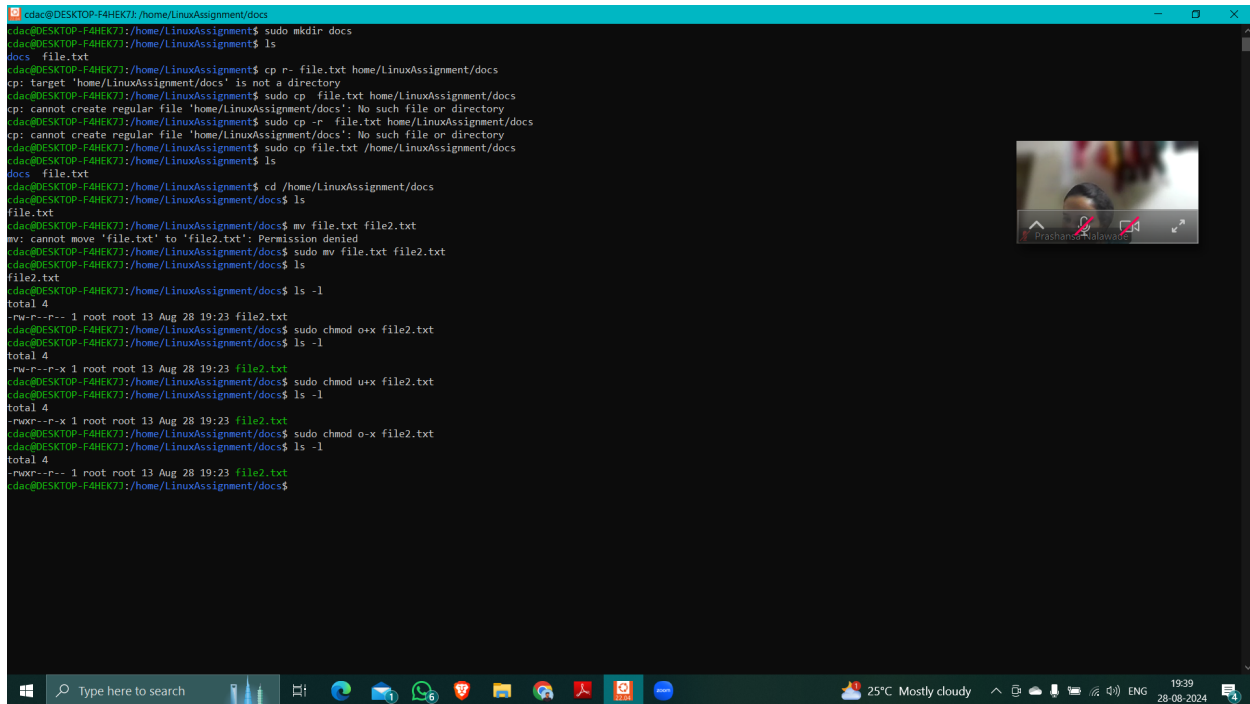
1. to rename the file we can use mv command to rename
2. mv file.txt file2.txt

```
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment/docs$
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment$ sudo mkdir docs
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment$ ls
docs  file.txt
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment$ cp -r file.txt home/LinuxAssignment/docs
cp: target 'home/LinuxAssignment/docs' is not a directory
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment$ sudo cp file.txt home/LinuxAssignment/docs
cp: cannot create regular file 'home/LinuxAssignment/docs': No such file or directory
cdac@DESKTOP-F4HEK73:/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-F4HEK73:/home/LinuxAssignment$ sudo cp file.txt /home/LinuxAssignment/docs
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment$ ls
docs  file.txt
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment$ cd /home/LinuxAssignment/docs
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment/docs$ ls
file.txt
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment/docs$ mv file.txt file2.txt
mv: cannot move 'file.txt' to 'file2.txt': Permission denied
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment/docs$ sudo mv file.txt file2.txt
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment/docs$ ls
file2.txt
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment/docs$
```



Q5

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



```
cdac@DESKTOP-F4HEK73: /home/LinuxAssignment/docs
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment$ sudo mkdir docs
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment$ ls
docs  file.txt
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment$ cp -r file.txt /home/LinuxAssignment/docs
cp: target '/home/LinuxAssignment/docs' is not a directory
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment$ sudo cp file.txt /home/LinuxAssignment/docs
cp: cannot create regular file '/home/LinuxAssignment/docs': No such file or directory
cdac@DESKTOP-F4HEK73:/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-F4HEK73:/home/LinuxAssignment$ sudo cp file.txt /home/LinuxAssignment/docs
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment$ ls
docs  file.txt
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment$ cd /home/LinuxAssignment/docs
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment/docs$ ls
file.txt
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment/docs$ mv file.txt file2.txt
mv: cannot move 'file.txt' to 'file2.txt': Permission denied
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment/docs$ sudo mv file.txt file2.txt
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment/docs$ ls
file2.txt
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment/docs$ ls -l
total 4
-rw-r--r-- 1 root root 13 Aug 28 19:23 file2.txt
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment/docs$ sudo chmod o+x file2.txt
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment/docs$ ls -l
total 4
-rw-r--r-x 1 root root 13 Aug 28 19:23 file2.txt
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment/docs$ sudo chmod u+x file2.txt
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment/docs$ ls -l
total 4
-rwxr--r-x 1 root root 13 Aug 28 19:23 file2.txt
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment/docs$ sudo chmod o-x file2.txt
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment/docs$ ls -l
total 4
-rwxr--r-- 1 root root 13 Aug 28 19:23 file2.txt
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment/docs$
```

```
cdac@DESKTOP-F4HEK7J: /home/LinuxAssignment/docs
cdac@DESKTOP-F4HEK7J: /home/LinuxAssignment/docs$ sudo mkdir docs
cdac@DESKTOP-F4HEK7J: /home/LinuxAssignment/docs$ ls
docs  file.txt
cdac@DESKTOP-F4HEK7J: /home/LinuxAssignment/docs$ cp -r file.txt home/LinuxAssignment/docs
cp: target 'home/LinuxAssignment/docs' is not a directory
cdac@DESKTOP-F4HEK7J: /home/LinuxAssignment/docs$ 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/docs$ 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/docs$ sudo cp file.txt /home/LinuxAssignment/docs
cdac@DESKTOP-F4HEK7J: /home/LinuxAssignment/docs$ ls
docs  file.txt
cdac@DESKTOP-F4HEK7J: /home/LinuxAssignment/docs$ 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$
```

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: /$ 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
```

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 -l string file.txt
- 3.

```
cdac@DESKTOP-F4HEK7J:/home/LinuxAssignment$ sudo sed -i "s/rishikesh/i/g" file.txt
cdac@DESKTOP-F4HEK7J:/home/LinuxAssignment$ cat file.txt
hello thrishikeshs rishikeshs rrishikeshshrishikeshesh jawale
rishikesh have basrishikeshc knowledge of java c c++
rishikesh lrishikeshke data sturcture and algorrishikeshthms
rishikesh have enrolled for pg dac rishikeshn mumarishikesh kharghar

cdac@DESKTOP-F4HEK7J:/home/LinuxAssignment$ find /home *.txt
/home
/home/cdac
/home/cdac/.cache
/home/cdac/.cache/motd.legal-displayed
/home/cdac/demoind.txt
/home/cdac/.local
/home/cdac/.local/share
/home/cdac/.local/share/nano
/home/cdac/.profile
/home/cdac/.sudo_as_admin_successful
/home/cdac/.bash_logout
/home/cdac/.bash_history
/home/cdac/.bashrc
/home/cdac/.motd.shown
/home/LinuxAssignment
/home/LinuxAssignment/docs
/home/LinuxAssignment/docs/zipdemo.txt
/home/LinuxAssignment/docs/file2.txt
/home/LinuxAssignment/docs/zipdemo
/home/LinuxAssignment/file.txt
file.txt
cdac@DESKTOP-F4HEK7J:/home/LinuxAssignment$
```

```
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment$ grep -l inside file1 fiel.txt file2.txt
grep: file1: No such file or directory
grep: fiel.txt: No such file or directory
grep: file2.txt: No such file or directory
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment$ grep -l inside fiel.txt file2.txt
grep: fiel.txt: No such file or directory
grep: file2.txt: No such file or directory
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment$ grep -l inside file1 file.txt file2.txt
grep: file1: No such file or directory
file.txt
grep: file2.txt: No such file or directory
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment$ sudo nano search.txt
[sudo] password for cdac:
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment$ ls -l
total 12
drwxr-xr-x 2 root root 4096 Aug 28 19:57 docs
-rw-r--r-- 1 root root 13 Aug 28 18:45 file.txt
-rw-r--r-- 1 root root 18 Aug 28 20:06 search.txt
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment$ grep -l rishikesh file.txt search.txt
search.txt
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment$ grep -l rishikesh jawale file.txt search.txt
grep: jawale: No such file or directory
search.txt
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment$ grep -l rishi file.txt search.txt
search.txt
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment$ grep -l inside file.txt search.txt
file.txt
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment$ grep -l inside file.txt search.txt
file.txt
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment$
```

## 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.

```
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment/docs$ date
Wed Aug 28 20:11:24 IST 2024
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment/docs$ date -u
Wed Aug 28 14:41:39 UTC 2024
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment/docs$ date
Wed Aug 28 20:11:43 IST 2024
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment/docs$ date --date=
Wed Aug 28 00:00:00 IST 2024
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment/docs$ date --date="01/08/2001"
Mon Jan  8 00:00:00 IST 2001
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment/docs$ date --date="08/01/2001"
Wed Aug  1 00:00:00 IST 2001
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment/docs$ date -date="2 years ago"
date: invalid date 'ate=2 years ago'
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment/docs$ date --date="2 years ago"
Sun Aug 28 20:13:36 IST 2022
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment/docs$ date --d="2 years ago"
date: option '--d=2 years ago' is ambiguous; possibilities: '--date' '--debug'
Try 'date --help' for more information.
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment/docs$ date --date="2 years ago"
Sun Aug 28 20:13:54 IST 2022
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment/docs$ date
Wed Aug 28 20:14:00 IST 2024
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment/docs$
```

Q9

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



```
cdac@DESKTOP-F4HEK7J: /home/LinuxAssignment/docs$ hostname -I
172.30.223.181
cdac@DESKTOP-F4HEK7J: /home/LinuxAssignment/docs$ ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 172.30.223.181 netmask 255.255.240.0 broadcast 172.30.223.255
    inet6 fe80::215:5dff:fe2:d3ea prefixlen 64 scopeid 0x20<link>
    ether 00:15:5d:f2:d3:ea txqueuelen 1000 (Ethernet)
    RX packets 1096 bytes 844028 (844.0 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 408 bytes 100307 (100.3 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

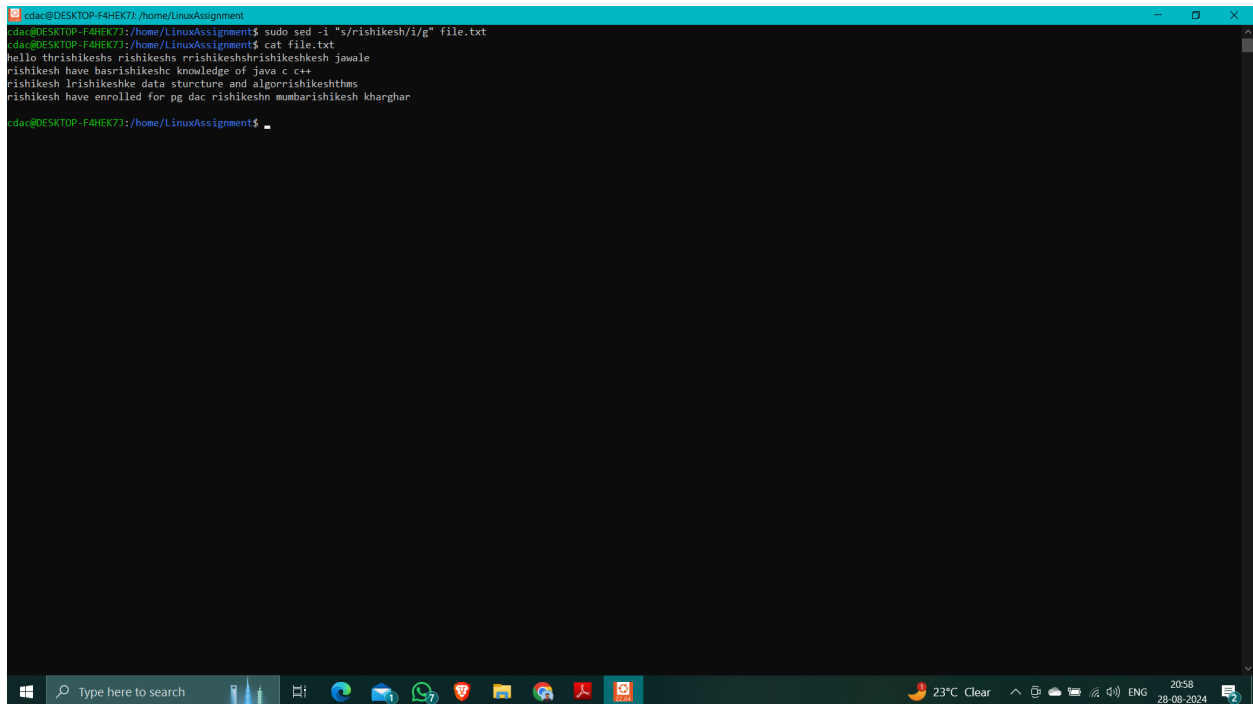
cdac@DESKTOP-F4HEK7J: /home/LinuxAssignment/docs$
```

```
cdac@DESKTOP-F4HEK7J: ~$ ping -c 20 192.168.0.100
64 bytes from bom12s13-in-f14.1e100.net (142.250.183.110): icmp_seq=7 ttl=118 time=11.7 ms
64 bytes from bom12s13-in-f14.1e100.net (142.250.183.110): icmp_seq=9 ttl=118 time=9.49 ms
64 bytes from bom12s13-in-f14.1e100.net (142.250.183.110): icmp_seq=10 ttl=118 time=9.40 ms
64 bytes from bom12s13-in-f14.1e100.net (142.250.183.110): icmp_seq=11 ttl=118 time=14.7 ms
64 bytes from bom12s13-in-f14.1e100.net (142.250.183.110): icmp_seq=12 ttl=118 time=7.60 ms
64 bytes from bom12s13-in-f14.1e100.net (142.250.183.110): icmp_seq=13 ttl=118 time=12.3 ms
64 bytes from bom12s13-in-f14.1e100.net (142.250.183.110): icmp_seq=14 ttl=118 time=13.5 ms
64 bytes from bom12s13-in-f14.1e100.net (142.250.183.110): icmp_seq=15 ttl=118 time=7.50 ms
64 bytes from bom12s13-in-f14.1e100.net (142.250.183.110): icmp_seq=16 ttl=118 time=8.90 ms
64 bytes from bom12s13-in-f14.1e100.net (142.250.183.110): icmp_seq=17 ttl=118 time=6.87 ms
64 bytes from bom12s13-in-f14.1e100.net (142.250.183.110): icmp_seq=18 ttl=118 time=9.25 ms
64 bytes from bom12s13-in-f14.1e100.net (142.250.183.110): icmp_seq=19 ttl=118 time=13.0 ms
64 bytes from bom12s13-in-f14.1e100.net (142.250.183.110): icmp_seq=20 ttl=118 time=8.33 ms
^C
--- google.com ping statistics ---
20 packets transmitted, 17 received, 15% packet loss, time 19160ms
rtt min/avg/max/mdev = 6.874/11.122/23.288/4.157 ms
cdac@DESKTOP-F4HEK7J: /home/LinuxAssignment/docs$ cd ~
cdac@DESKTOP-F4HEK7J: ~$ pwd
/home/cdac
cdac@DESKTOP-F4HEK7J: ~$ ping 192.168.0.100
PING 192.168.0.100 (192.168.0.100) 56(84) bytes of data:
64 bytes from 192.168.0.100: icmp_seq=1 ttl=63 time=331 ms
64 bytes from 192.168.0.100: icmp_seq=2 ttl=63 time=200 ms
64 bytes from 192.168.0.100: icmp_seq=3 ttl=63 time=60.8 ms
64 bytes from 192.168.0.100: icmp_seq=4 ttl=63 time=84.8 ms
64 bytes from 192.168.0.100: icmp_seq=5 ttl=63 time=207 ms
64 bytes from 192.168.0.100: icmp_seq=6 ttl=63 time=233 ms
64 bytes from 192.168.0.100: icmp_seq=7 ttl=63 time=151 ms
64 bytes from 192.168.0.100: icmp_seq=8 ttl=63 time=79.9 ms
64 bytes from 192.168.0.100: icmp_seq=9 ttl=63 time=98.2 ms
64 bytes from 192.168.0.100: icmp_seq=10 ttl=63 time=32.3 ms
64 bytes from 192.168.0.100: icmp_seq=11 ttl=63 time=41.4 ms
64 bytes from 192.168.0.100: icmp_seq=12 ttl=63 time=65.0 ms
64 bytes from 192.168.0.100: icmp_seq=13 ttl=63 time=184 ms
64 bytes from 192.168.0.100: icmp_seq=14 ttl=63 time=314 ms
64 bytes from 192.168.0.100: icmp_seq=15 ttl=63 time=7.32 ms
64 bytes from 192.168.0.100: icmp_seq=31 ttl=63 time=911 ms
64 bytes from 192.168.0.100: icmp_seq=32 ttl=63 time=47.3 ms
64 bytes from 192.168.0.100: icmp_seq=33 ttl=63 time=41.7 ms
64 bytes from 192.168.0.100: icmp_seq=34 ttl=63 time=163 ms
64 bytes from 192.168.0.100: icmp_seq=35 ttl=63 time=90.8 ms
^C
--- 192.168.0.100 ping statistics ---
35 packets transmitted, 20 received, 42.8571% packet loss, time 34642ms
rtt min/avg/max/mdev = 7.319/167.129/910.998/193.009 ms
cdac@DESKTOP-F4HEK7J: ~$
```

## 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.



```
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment$ sudo sed -i "s/rishikesh/3/g" file.txt
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment$ cat file.txt
hello thrishikeshs rishikeshs rrishikeshshrishikeshesh jawale
rishikesh have besrishikesh knowledge of java c c++
rishikesh lrishikeshke data sturcture and algorrishikeshthms
rishikesh have enrolled for pg dac rishikeshn mumarishikesh kharghar
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment$
```

## Problem 2

Q1

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

```
cdac@DESKTOP-F4HEK73: ~  
line 4  
line 5  
line 6  
line 7  
line 8  
line 9  
line 10  
line 11  
line 12  
line 13  
line 14  
line 15  
line 16  
line 17  
line 18  
line 19  
line 20  
cdac@DESKTOP-F4HEK73:~$ head data.txt  
line 1  
line 2  
line 3  
line 4  
line 5  
line 6  
line 7  
line 8  
line 9  
line 10  
cdac@DESKTOP-F4HEK73:~$
```

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.

```
cdac@DESKTOP-F4HEK7J:~$ head data.txt
line 6
line 7
line 8
line 9
line 10
line 11
line 12
line 13
line 14
line 15
line 16
line 17
line 18
line 19
line 20

cdac@DESKTOP-F4HEK7J:~$ head data.txt
line 1
line 2
line 3
line 4
line 5
line 6
line 7
line 8
line 9
line 10

cdac@DESKTOP-F4HEK7J:~$ tail -5 data.txt
line 17
line 18
line 19
line 20

cdac@DESKTOP-F4HEK7J:~$ head -15 data.txt
line 1
line 2
line 3
line 4
line 5
line 6
line 7
line 8
line 9
line 10
line 11
line 12
line 13
line 14
line 15

cdac@DESKTOP-F4HEK7J:~$
```

Q4

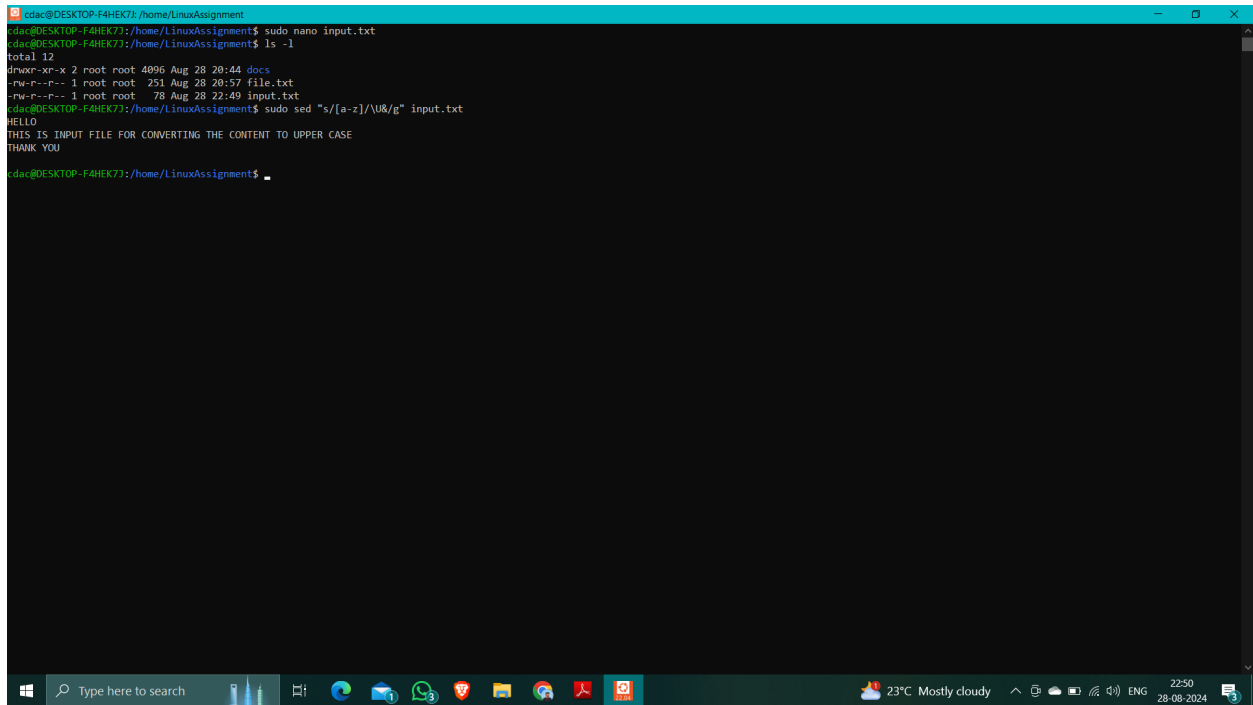
1. tail -3 filename
- 2.

```
cdac@DESKTOP-F4HEK7J:/home/LinuxAssignment$ sudo nano input.txt
cdac@DESKTOP-F4HEK7J:/home/LinuxAssignment$ ls -l
total 12
drwxr-xr-x 2 root root 4096 Aug 28 20:44 docs
-rw-r--r-- 1 root root 251 Aug 28 20:57 file.txt
-rw-r--r-- 1 root root 78 Aug 28 22:49 input.txt
cdac@DESKTOP-F4HEK7J:/home/LinuxAssignment$ sudo sed "s/[a-z]/U&/g" input.txt
HELLO
THIS IS INPUT FILE FOR CONVERTING THE CONTENT TO UPPER CASE
THANK YOU

cdac@DESKTOP-F4HEK7J:/home/LinuxAssignment$
```

Q 5

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



```
cdac@DESKTOP-F4HEK77: /home/LinuxAssignment$ sudo nano input.txt
cdac@DESKTOP-F4HEK77: /home/LinuxAssignment$ ls -l
total 12
drwxr-xr-x 2 root root 4096 Aug 28 20:44 docs
-rw-r--r-- 1 root root 251 Aug 28 20:57 file.txt
-rw-r--r-- 1 root root 78 Aug 28 22:49 input.txt
cdac@DESKTOP-F4HEK77: /home/LinuxAssignment$ sudo sed "s/[a-z]/\U&/g" input.txt
HELLO
THIS IS INPUT FILE FOR CONVERTING THE CONTENT TO UPPER CASE
THANK YOU
cdac@DESKTOP-F4HEK77: /home/LinuxAssignment$
```

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.

```
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment$ sudo nano duplicate.txt
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment$ ls -l
total 16
drwxr-xr-x 2 root root 4096 Aug 28 20:44 docs
-rw-r--r-- 1 root root  71 Aug 28 23:01 duplicate.txt
-rw-r--r-- 1 root root 251 Aug 28 20:57 file.txt
-rw-r--r-- 1 root root  34 Aug 28 22:56 input.txt
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment$ unique duplicate.txt
Command 'unique' not found, but can be installed with:
sudo apt install john
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment$ uniq duplicate.txt
this is unique line
this is not unique line
cdac@DESKTOP-F4HEK73:/home/LinuxAssignment$
```

Q7

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

```
cdac@DESKTOP-F4HEK73: /home/LinuxAssignment$ pwd
/home/LinuxAssignment
cdac@DESKTOP-F4HEK73: /home/LinuxAssignment$ uniq -c fruits.txt
 2 mango
 2 apple
 1 apple
 1 banana
 1 banana
 1 chikoo
 3 kisi
 1 kisi
 1
cdac@DESKTOP-F4HEK73: /home/LinuxAssignment$
```