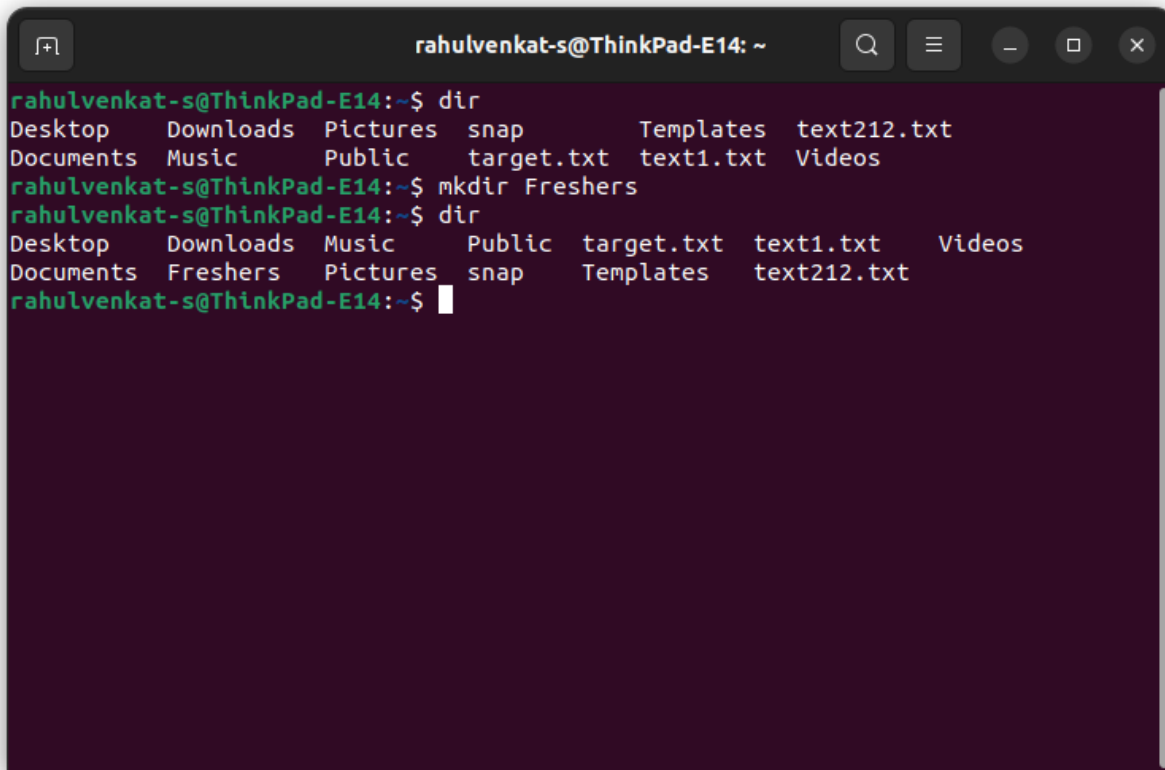


1) Create a directory "Freshers"

A terminal window titled 'rahulvenkat-s@ThinkPad-E14: ~' with standard window controls. It shows the execution of 'dir', 'mkdir Freshers', and 'dir' again to confirm the new directory's presence.

```
rahulvenkat-s@ThinkPad-E14:~$ dir
Desktop  Downloads  Pictures  snap      Templates  text212.txt
Documents Music      Public    target.txt text1.txt   Videos
rahulvenkat-s@ThinkPad-E14:~$ mkdir Freshers
rahulvenkat-s@ThinkPad-E14:~$ dir
Desktop  Downloads  Music     Public    target.txt text1.txt   Videos
Documents Freshers   Pictures  snap      Templates  text212.txt
rahulvenkat-s@ThinkPad-E14:~$
```

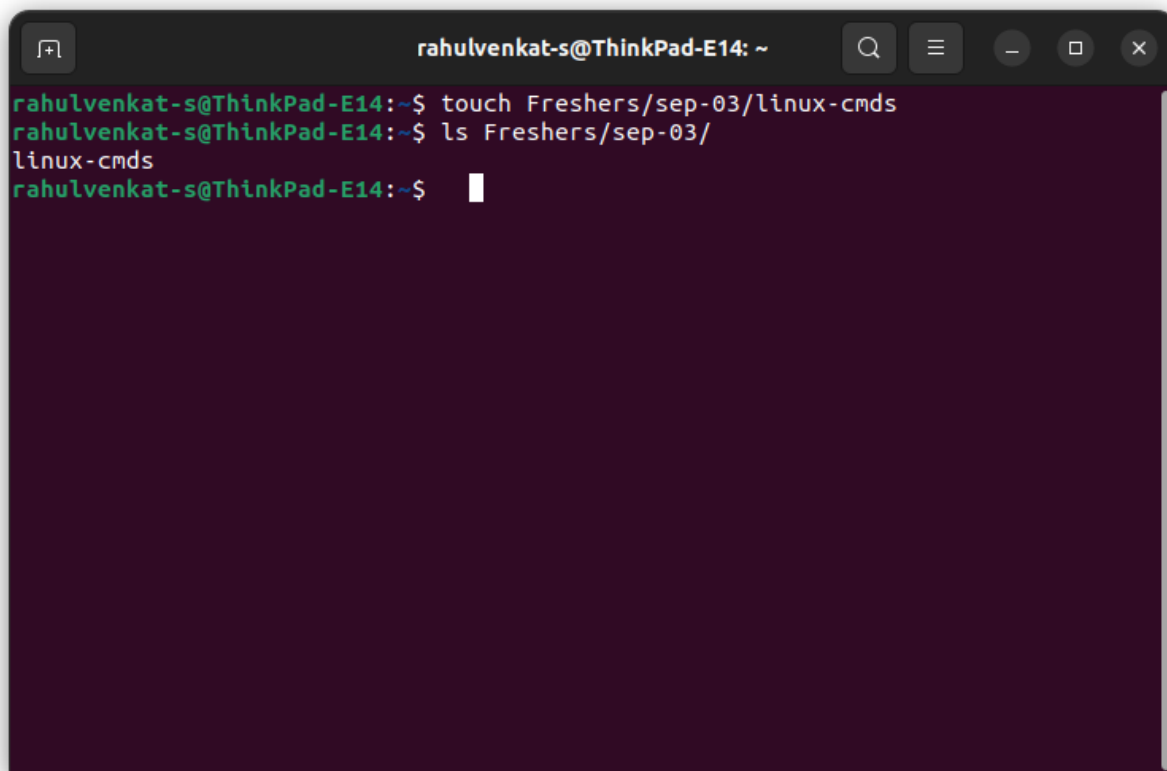
2) Create two sub folders in the "Freshers" folder

i) Sep-03

ii) Sep-04

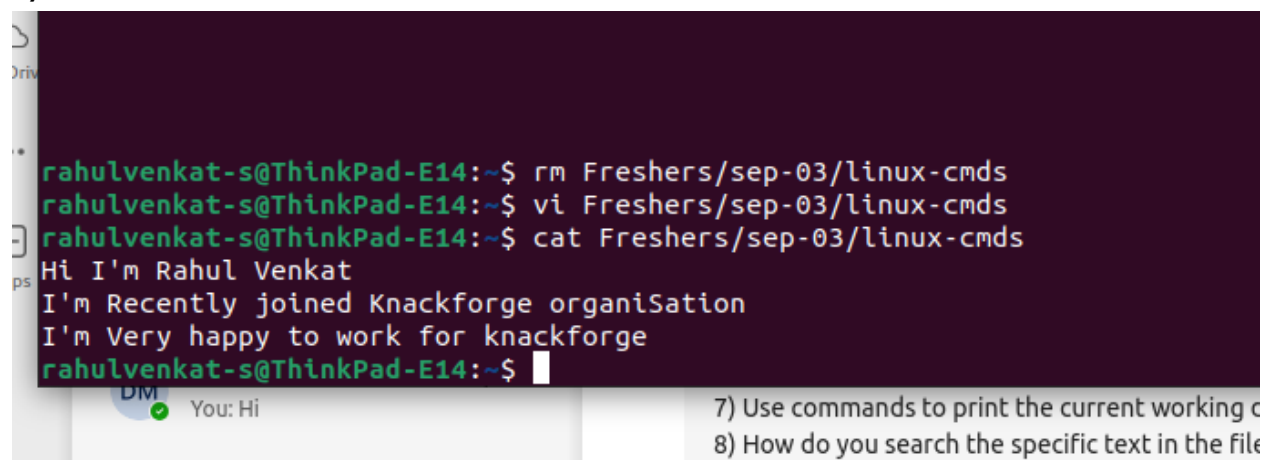
```
rahulvenkat-s@ThinkPad-E14: ~  
rahulvenkat-s@ThinkPad-E14:~$ mkdir Freshers/sep-03 Freshers/sep-04  
rahulvenkat-s@ThinkPad-E14:~$ ls Freshers/  
sep-03  sep-04  
rahulvenkat-s@ThinkPad-E14:~$
```

3) Create a text file "linux-cmds" in the folder "Sep-03"



```
rahulvenkat-s@ThinkPad-E14: ~  
rahulvenkat-s@ThinkPad-E14:~$ touch Freshers/sep-03/linux-cmds  
rahulvenkat-s@ThinkPad-E14:~$ ls Freshers/sep-03/  
linux-cmds  
rahulvenkat-s@ThinkPad-E14:~$
```

4) Write few lines of text in the text file "linux-cmds"

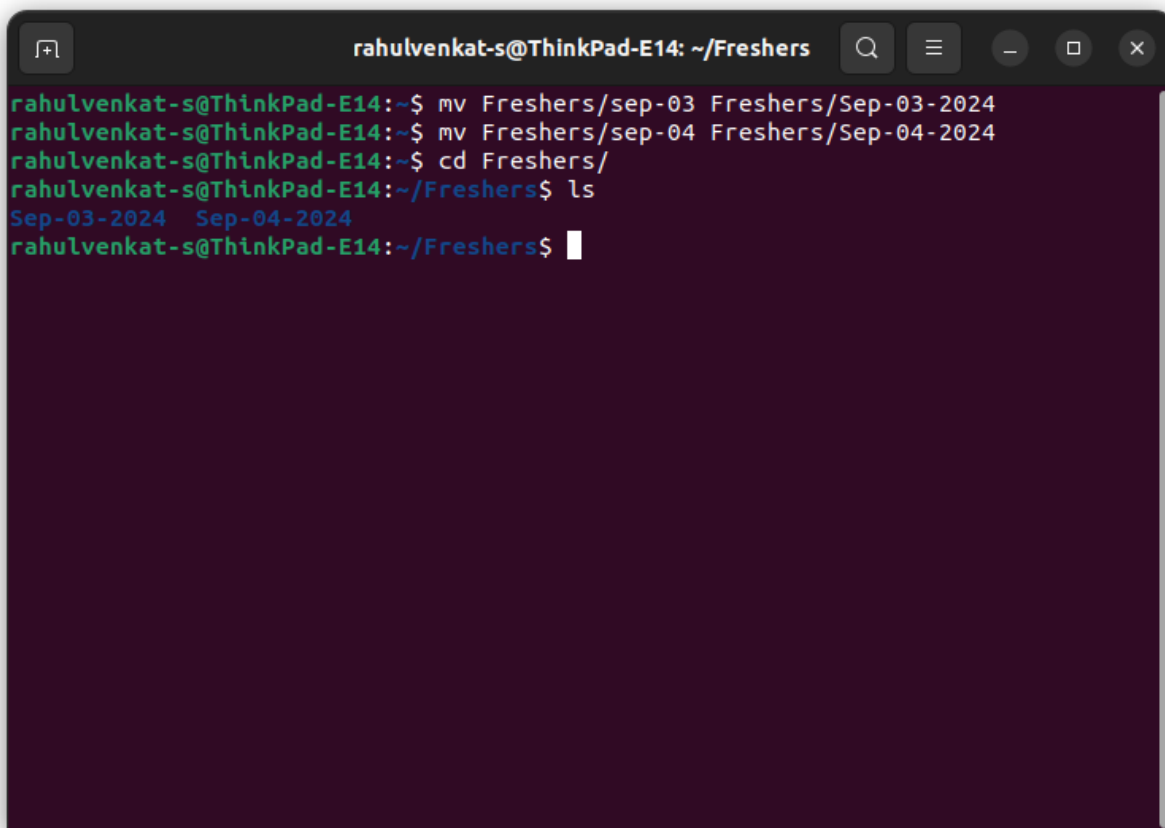


```
rahulvenkat-s@ThinkPad-E14:~$ rm Freshers/sep-03/linux-cmds  
rahulvenkat-s@ThinkPad-E14:~$ vi Freshers/sep-03/linux-cmds  
rahulvenkat-s@ThinkPad-E14:~$ cat Freshers/sep-03/linux-cmds  
Hi I'm Rahul Venkat  
I'm Recently joined Knackforge organisation  
I'm Very happy to work for knackforge  
rahulvenkat-s@ThinkPad-E14:~$
```

7) Use commands to print the current working c
8) How do you search the specific text in the file

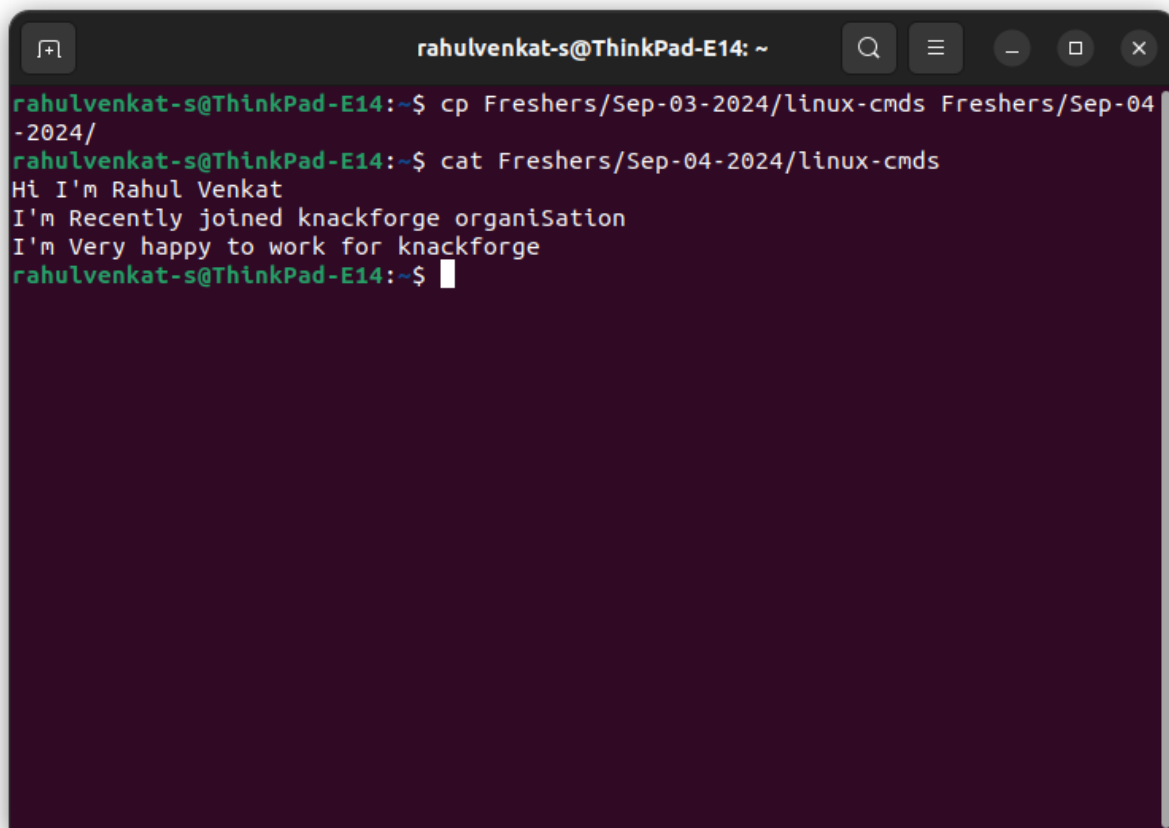
5) Rename the folders

- i) Sep-03 to Sep-03-2024
- ii) Sep-04 to Sep-04-2024

A terminal window with a dark purple background and a title bar that reads "rahulvenkat-s@ThinkPad-E14: ~/Freshers". The terminal shows a series of commands and their outputs. The first two commands are "mv Freshers/sep-03 Freshers/Sep-03-2024" and "mv Freshers/sep-04 Freshers/Sep-04-2024", both of which execute successfully. The third command is "cd Freshers/", which changes the current directory to ~/Freshers. The fourth command is "ls", which lists the contents of the current directory, showing "Sep-03-2024" and "Sep-04-2024". The prompt "rahulvenkat-s@ThinkPad-E14:~/Freshers\$" is visible at the end of the output line.

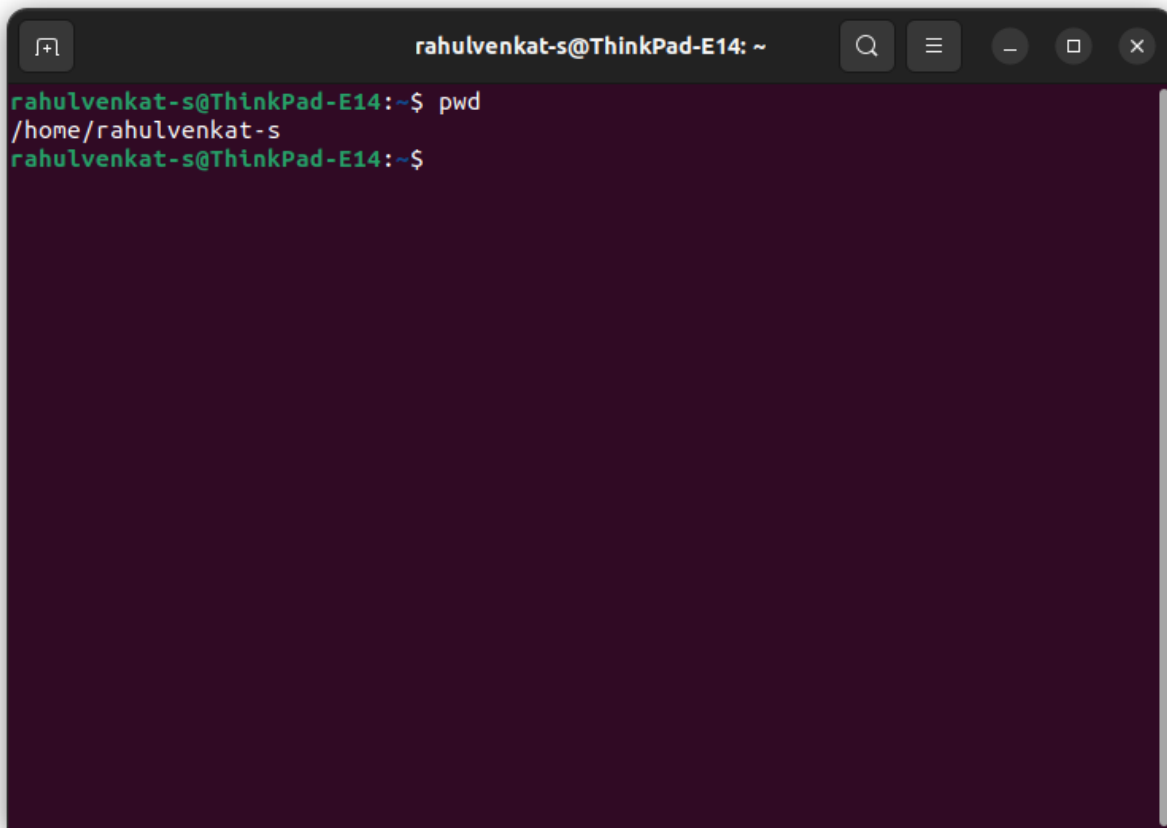
```
rahulvenkat-s@ThinkPad-E14: ~/Freshers
rahulvenkat-s@ThinkPad-E14:~$ mv Freshers/sep-03 Freshers/Sep-03-2024
rahulvenkat-s@ThinkPad-E14:~$ mv Freshers/sep-04 Freshers/Sep-04-2024
rahulvenkat-s@ThinkPad-E14:~$ cd Freshers/
rahulvenkat-s@ThinkPad-E14:~/Freshers$ ls
Sep-03-2024  Sep-04-2024
rahulvenkat-s@ThinkPad-E14:~/Freshers$
```

6) Copy the linux-cmds file to "Sep-04-2024" folder

A terminal window with a dark background and light green text. The window title is 'rahulvenkat-s@ThinkPad-E14: ~'. The terminal shows two commands being executed. The first command is 'cp Freshers/Sep-03-2024/linux-cmds Freshers/Sep-04-2024/' and the second is 'cat Freshers/Sep-04-2024/linux-cmds'. The output of the second command is displayed as three lines of text: 'Hi I'm Rahul Venkat', 'I'm Recently joined knackforge organisation', and 'I'm Very happy to work for knackforge'. The prompt 'rahulvenkat-s@ThinkPad-E14:~\$' is shown at the end of the output.

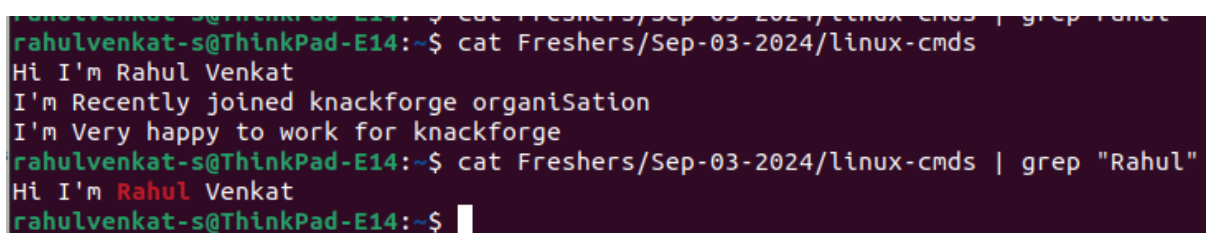
```
rahulvenkat-s@ThinkPad-E14: ~  
rahulvenkat-s@ThinkPad-E14:~$ cp Freshers/Sep-03-2024/linux-cmds Freshers/Sep-04-2024/  
rahulvenkat-s@ThinkPad-E14:~$ cat Freshers/Sep-04-2024/linux-cmds  
Hi I'm Rahul Venkat  
I'm Recently joined knackforge organisation  
I'm Very happy to work for knackforge  
rahulvenkat-s@ThinkPad-E14:~$
```

7) Use commands to print the current working directory

A terminal window titled 'rahulvenkat-s@ThinkPad-E14: ~' with search, menu, and window control icons. The terminal shows the command 'pwd' being executed, returning the path '/home/rahulvenkat-s'.

```
rahulvenkat-s@ThinkPad-E14: ~$ pwd
/home/rahulvenkat-s
rahulvenkat-s@ThinkPad-E14: ~$
```

8) How do you search the specific text in the file.

A terminal window showing a file search. The user runs 'cat Freshers/Sep-03-2024/linux-cmds' which displays three lines of text. Then, the user runs 'cat Freshers/Sep-03-2024/linux-cmds | grep "Rahul"', which filters the output to only the line containing 'Rahul'.

```
rahulvenkat-s@ThinkPad-E14: ~$ cat Freshers/Sep-03-2024/linux-cmds
Hi I'm Rahul Venkat
I'm Recently joined knackforge organisation
I'm Very happy to work for knackforge
rahulvenkat-s@ThinkPad-E14: ~$ cat Freshers/Sep-03-2024/linux-cmds | grep "Rahul"
Hi I'm Rahul Venkat
rahulvenkat-s@ThinkPad-E14: ~$
```

9) Display all running process in your system.

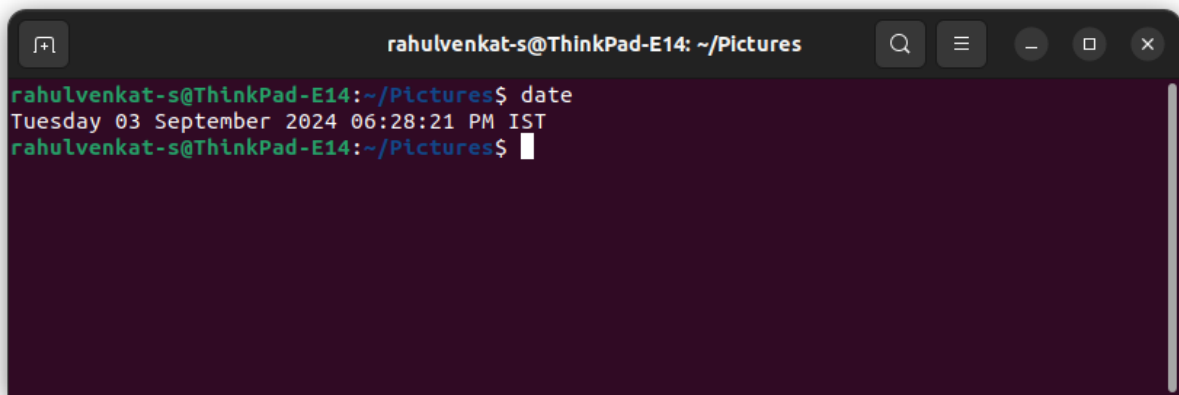
```
rahulvenkat-s@ThinkPad-E14: ~  
5 root      0 -20      0      0      0 I  0.0  0.0  0:00.00 kworker/R-rcu_p  
6 root      0 -20      0      0      0 I  0.0  0.0  0:00.00 kworker/R-slub_  
7 root      0 -20      0      0      0 I  0.0  0.0  0:00.00 kworker/R-netns  
9 root      0 -20      0      0      0 I  0.0  0.0  0:00.00 kworker/0:0H-events_highpri  
12 root     0 -20      0      0      0 I  0.0  0.0  0:00.00 kworker/R-mm_pe  
13 root     20      0      0      0      0 I  0.0  0.0  0:00.00 rcu_tasks_kthread  
14 root     20      0      0      0      0 I  0.0  0.0  0:00.00 rcu_tasks_rude_kthread  
15 root     20      0      0      0      0 I  0.0  0.0  0:00.00 rcu_tasks_trace_kthread  
16 root     20      0      0      0      0 S  0.0  0.0  0:00.06 ksoftirqd/0  
17 root     20      0      0      0      0 I  0.0  0.0  0:01.69 rcu_preempt  
18 root     rt      0      0      0      0 S  0.0  0.0  0:00.03 migration/0  
19 root    -51      0      0      0      0 S  0.0  0.0  0:00.00 idle_inject/0  
20 root     20      0      0      0      0 S  0.0  0.0  0:00.00 cpuhp/0  
21 root     20      0      0      0      0 S  0.0  0.0  0:00.00 cpuhp/1  
22 root    -51      0      0      0      0 S  0.0  0.0  0:00.00 idle_inject/1  
23 root     rt      0      0      0      0 S  0.0  0.0  0:00.28 migration/1  
24 root     20      0      0      0      0 S  0.0  0.0  0:00.02 ksoftirqd/1  
26 root     0 -20      0      0      0 I  0.0  0.0  0:00.00 kworker/1:0H-events_highpri  
27 root     20      0      0      0      0 S  0.0  0.0  0:00.00 cpuhp/2  
28 root    -51      0      0      0      0 S  0.0  0.0  0:00.00 idle_inject/2  
29 root     rt      0      0      0      0 S  0.0  0.0  0:00.28 migration/2  
30 root     20      0      0      0      0 S  0.0  0.0  0:00.01 ksoftirqd/2  
32 root     0 -20      0      0      0 I  0.0  0.0  0:00.00 kworker/2:0H-events_highpri  
33 root     20      0      0      0      0 S  0.0  0.0  0:00.00 cpuhp/3  
34 root    -51      0      0      0      0 S  0.0  0.0  0:00.00 idle_inject/3
```

10) How do you find a file in Linux?

If know the name of the file I will use the **grep** command

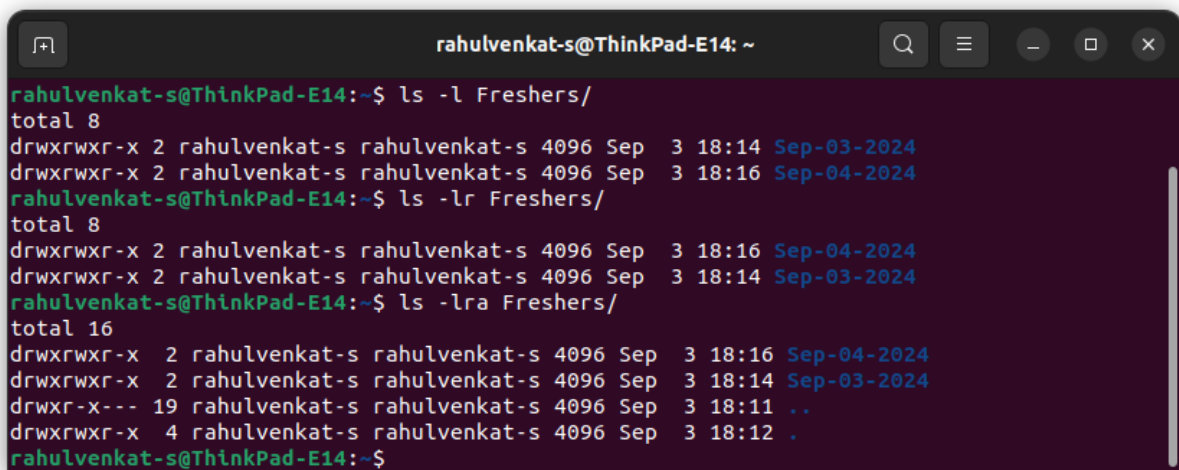
```
rahulvenkat-s@ThinkPad-E14: ~/Pictures  
rahulvenkat-s@ThinkPad-E14:~$ cd Pictures  
rahulvenkat-s@ThinkPad-E14:~/Pictures$ ls | grep "Webcam"  
Webcam  
rahulvenkat-s@ThinkPad-E14:~/Pictures$
```

11) Print the current date time.



```
rahulvenkat-s@ThinkPad-E14: ~/Pictures
rahulvenkat-s@ThinkPad-E14:~/Pictures$ date
Tuesday 03 September 2024 06:28:21 PM IST
rahulvenkat-s@ThinkPad-E14:~/Pictures$
```

12) List all files and folders in the "Freshers" folder



```
rahulvenkat-s@ThinkPad-E14: ~
rahulvenkat-s@ThinkPad-E14:~$ ls -l Freshers/
total 8
drwxrwxr-x 2 rahulvenkat-s rahulvenkat-s 4096 Sep  3 18:14 Sep-03-2024
drwxrwxr-x 2 rahulvenkat-s rahulvenkat-s 4096 Sep  3 18:16 Sep-04-2024
rahulvenkat-s@ThinkPad-E14:~$ ls -lr Freshers/
total 8
drwxrwxr-x 2 rahulvenkat-s rahulvenkat-s 4096 Sep  3 18:16 Sep-04-2024
drwxrwxr-x 2 rahulvenkat-s rahulvenkat-s 4096 Sep  3 18:14 Sep-03-2024
rahulvenkat-s@ThinkPad-E14:~$ ls -lra Freshers/
total 16
drwxrwxr-x  2 rahulvenkat-s rahulvenkat-s 4096 Sep  3 18:16 Sep-04-2024
drwxrwxr-x  2 rahulvenkat-s rahulvenkat-s 4096 Sep  3 18:14 Sep-03-2024
drwxr-x--- 19 rahulvenkat-s rahulvenkat-s 4096 Sep  3 18:11 ..
drwxrwxr-x  4 rahulvenkat-s rahulvenkat-s 4096 Sep  3 18:12 .
rahulvenkat-s@ThinkPad-E14:~$
```

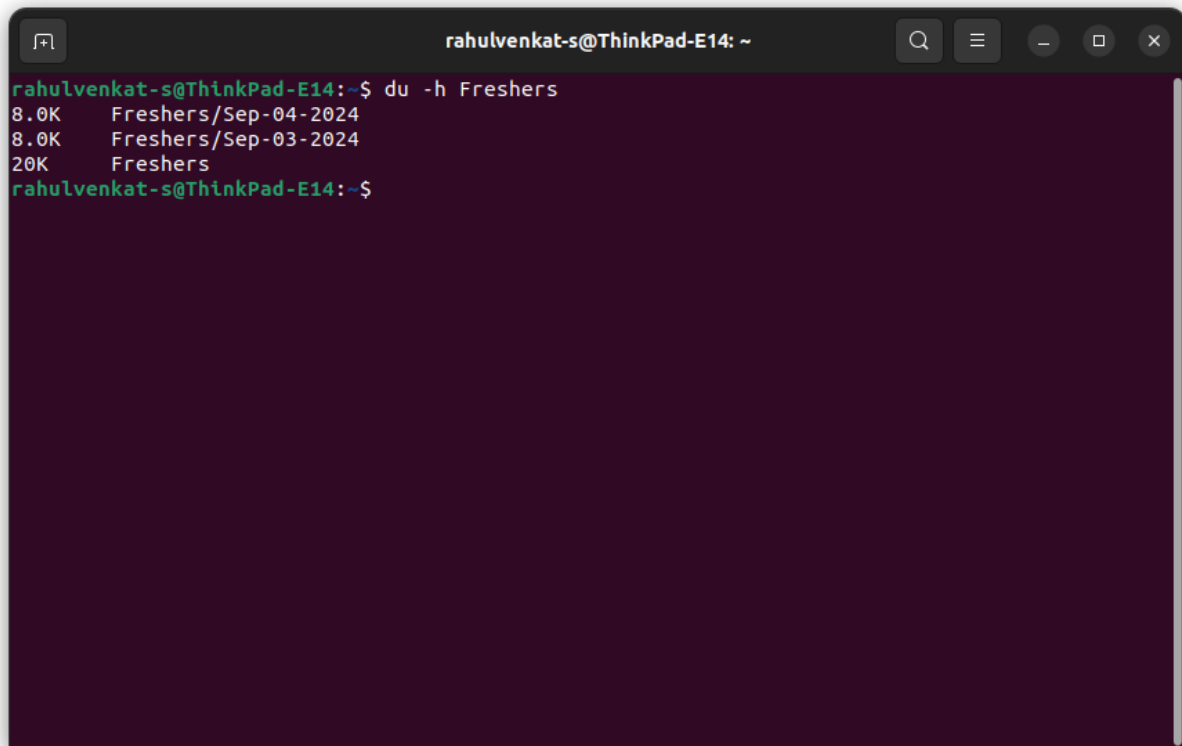
13) Find your local ip of your system


```
rahulvenkat-s@ThinkPad-E14: ~  
rahulvenkat-s@ThinkPad-E14:~$ ifconfig  
enp4s0: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500  
    ether 00:2b:67:0a:dd:c1 txqueuelen 1000 (Ethernet)  
    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  
  
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 2684 bytes 421356 (421.3 KB)  
    RX errors 0 dropped 0 overruns 0 frame 0  
    TX packets 2684 bytes 421356 (421.3 KB)  
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0  
  
wlp0s20f3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500  
    inet 10.0.4.84 netmask 255.255.255.0 broadcast 10.0.4.255  
    inet6 fe80::b596:cc02:64:d1ca prefixlen 64 scopeid 0x20<link>  
    ether 40:ec:99:20:a7:10 txqueuelen 1000 (Ethernet)  
    RX packets 80316 bytes 64541673 (64.5 MB)  
    RX errors 0 dropped 0 overruns 0 frame 0  
    TX packets 33966 bytes 19479596 (19.4 MB)  
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0  
  
rahulvenkat-s@ThinkPad-E14:~$
```

14) Check whether you have the internet access in your system.

```
rahulvenkat-s@ThinkPad-E14: ~  
rahulvenkat-s@ThinkPad-E14:~$ ping google.com  
PING google.com (142.250.182.142) 56(84) bytes of data.  
64 bytes from maa05s22-in-f14.1e100.net (142.250.182.142): icmp_seq=1 ttl=120 time=13.8 ms  
64 bytes from maa05s22-in-f14.1e100.net (142.250.182.142): icmp_seq=2 ttl=120 time=12.0 ms  
64 bytes from maa05s22-in-f14.1e100.net (142.250.182.142): icmp_seq=3 ttl=120 time=8.06 ms  
^C
```

15) Use the commands to find out the "Freshers" folder size.



```
rahulvenkat-s@ThinkPad-E14: ~  
rahulvenkat-s@ThinkPad-E14:~$ du -h Freshers  
8.0K    Freshers/Sep-04-2024  
8.0K    Freshers/Sep-03-2024  
20K     Freshers  
rahulvenkat-s@ThinkPad-E14:~$
```

The image shows a terminal window with a dark purple background. The window title is "rahulvenkat-s@ThinkPad-E14: ~". The user has entered the command "du -h Freshers" and the output is displayed. The output shows the size of the "Freshers" folder and its subdirectories in human-readable format. The "Freshers" folder itself is 20K, while its subdirectories "Freshers/Sep-04-2024" and "Freshers/Sep-03-2024" are each 8.0K.