OS LAB MANUAL (CS23431)

Roll No:230701246

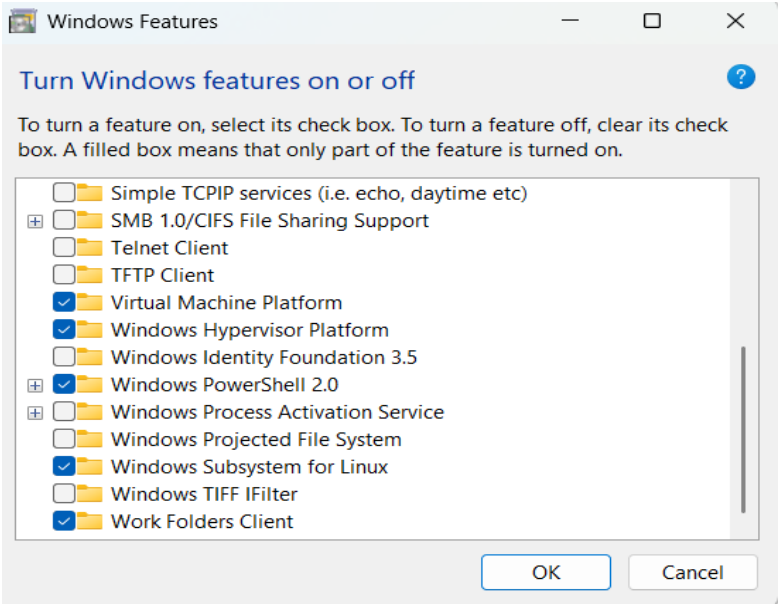
EX.NO:1(A,B)

1A)

INSTALLATION AND CONFIGURATION OF LINUX

Aim: To install and configure Linux operating system in a Virtual Machine.

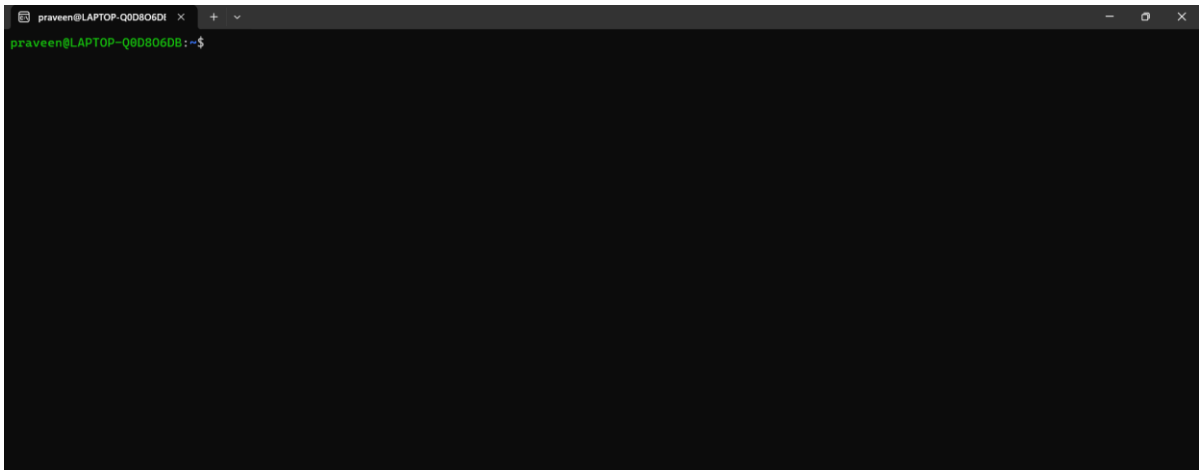
Step 1):Turn on the **Linux Subsystem And Virtual Machine Platform**



Step 2)Restart the System after Step1

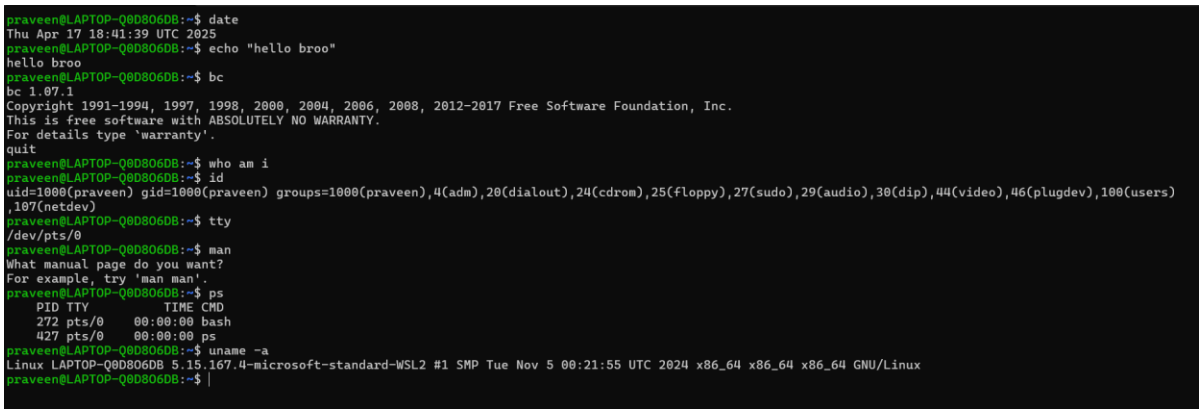
Step 3):Open the Bash And download linux:

Step 4)Open the Ubuntu

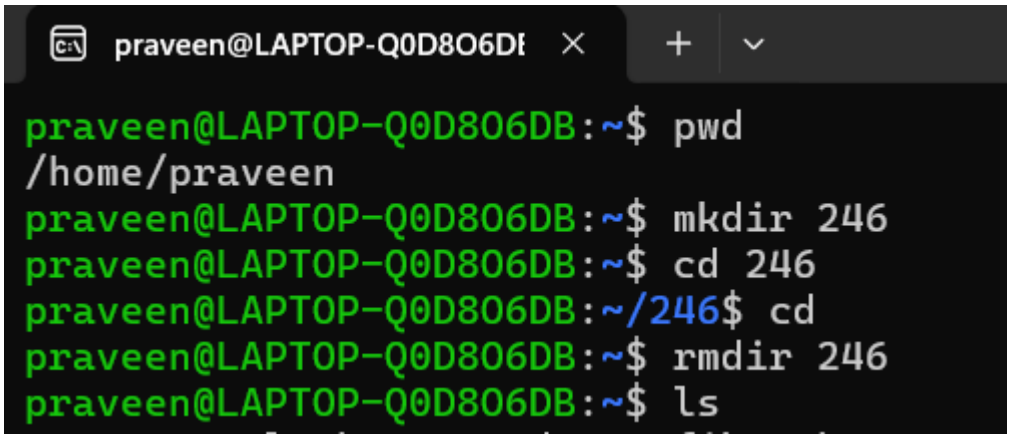


1B)

-GENERAL PURPOSE COMMANDS:



-DIRECTORY COMMANDS:



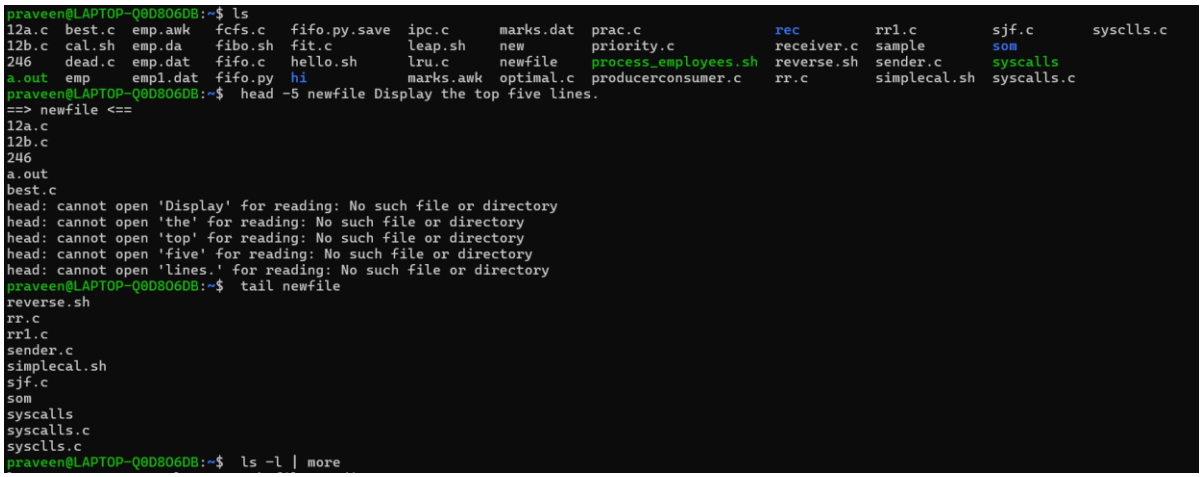
-FILE HANDLING COMMANDS:

```
praveen@LAPTOP-Q0D8O6DB:~$ cat>oldfile
hello world,this is linux
^C
praveen@LAPTOP-Q0D8O6DB:~$ cat oldfile
hello world,this is linux
praveen@LAPTOP-Q0D8O6DB:~$ cat>newfile
^C
praveen@LAPTOP-Q0D8O6DB:~$  cp oldfile newfile
praveen@LAPTOP-Q0D8O6DB:~$ cat newfile
hello world,this is linux
praveen@LAPTOP-Q0D8O6DB:~$ rm oldfile
praveen@LAPTOP-Q0D8O6DB:~$ mv oldfile newfile
mv: cannot stat 'oldfile': No such file or directory
praveen@LAPTOP-Q0D8O6DB:~$ wc newfile
 1  4 26 newfile
praveen@LAPTOP-Q0D8O6DB:~$ ls>newfile
praveen@LAPTOP-Q0D8O6DB:~$  who | wc -l
1
praveen@LAPTOP-Q0D8O6DB:~$ who | tee sample | wc -l
1
praveen@LAPTOP-Q0D8O6DB:~$ chmod u -wx newfile
```

-GROUPING COMMANDS:

```
praveen@LAPTOP-Q0D8O6DB:~$ who;date
praveen  pts/1        2025-04-17 18:37
Thu Apr 17 19:01:22 UTC 2025
praveen@LAPTOP-Q0D8O6DB:~$ who && date
praveen  pts/1        2025-04-17 18:37
Thu Apr 17 19:01:34 UTC 2025
praveen@LAPTOP-Q0D8O6DB:~$ who || date
praveen  pts/1        2025-04-17 18:37
praveen@LAPTOP-Q0D8O6DB:~$
```

5) FILTERS:


praveen@LAPTOP-Q0D8O6DB:~$ ls
12a.c best.c emp.awk fcfs.c fifo.py.save ipc.c marks.dat prac.c rec rr1.c sjf.c syscls.c
12b.c cal.sh emp.da fibo.sh fit.c leap.sh new priority.c receiver.c sample som
246 dead.c emp.dat fifo.c hello.sh lru.c newfile process_employees.sh reverse.sh sender.c syscalls
a.out emp emp1.dat fifo.py hi marks.awk optimal.c producerconsumer.c rr.c simplecal.sh syscalls.c
praveen@LAPTOP-Q0D8O6DB:~$ head -5 newfile Display the top five lines.
==> newfile <==
12a.c
12b.c
246
a.out
best.c
head: cannot open 'Display' for reading: No such file or directory
head: cannot open 'the' for reading: No such file or directory
head: cannot open 'top' for reading: No such file or directory
head: cannot open 'five' for reading: No such file or directory
head: cannot open 'lines.' for reading: No such file or directory
praveen@LAPTOP-Q0D8O6DB:~$ tail newfile
reverse.sh
rr.c
rr1.c
sender.c
simplecal.sh
sjf.c
som
syscalls
syscalls.c
syscls.c
praveen@LAPTOP-Q0D8O6DB:~$ ls -l | more