

OS LAB MANUAL (CS23431)

Roll No:230701246

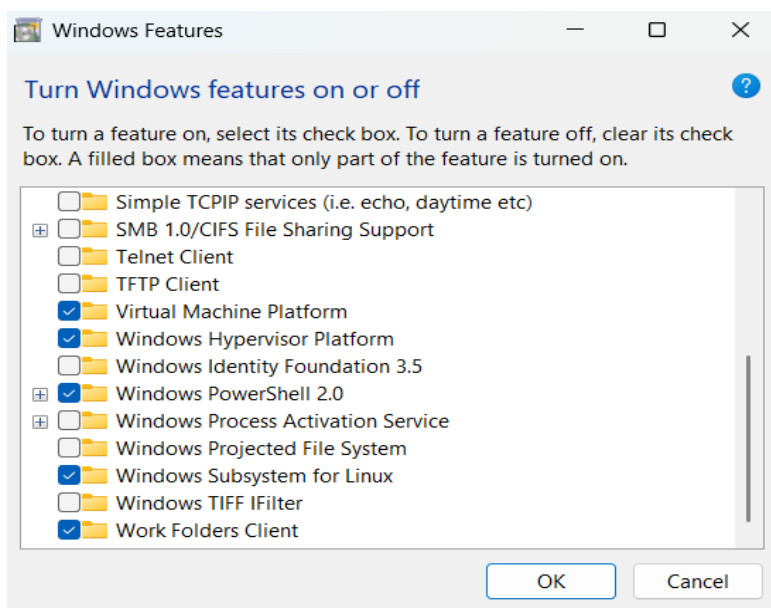
EX.NO:1(A,B)

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



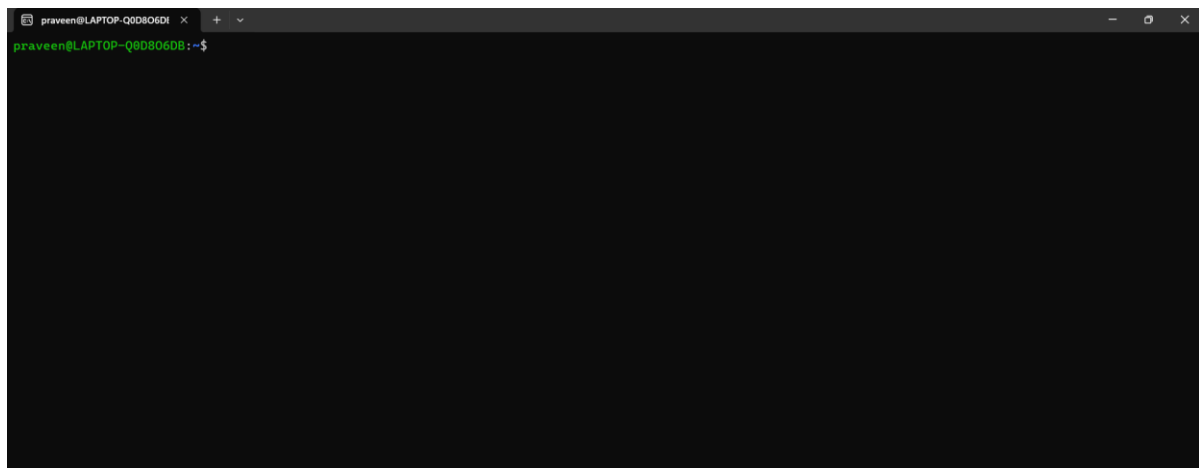
Step 2)Restart the System after Step1

Step 3):Open the Bash And download linux:

```
hate@DESKTOP-290H00S:~$ wget https://raw.githubusercontent.com/iamjava/zork-py/master/zork.py
--2017-02-07 09:20:11-- https://raw.githubusercontent.com/iamjava/zork-py/master/zork.py
Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 151.101.112.133
Connecting to raw.githubusercontent.com (raw.githubusercontent.com)|151.101.112.133|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 8074 (7.9K) [text/plain]
Saving to: 'zork.py'

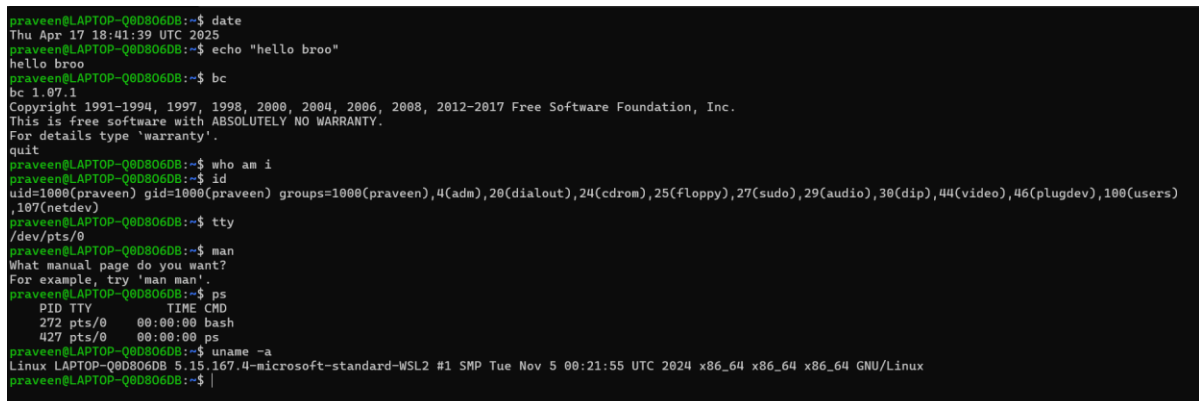
zork.py          100%[=====>]  7.88K  --.-KB/s   in 0.004s
```

Step 4)Open the Ubuntu

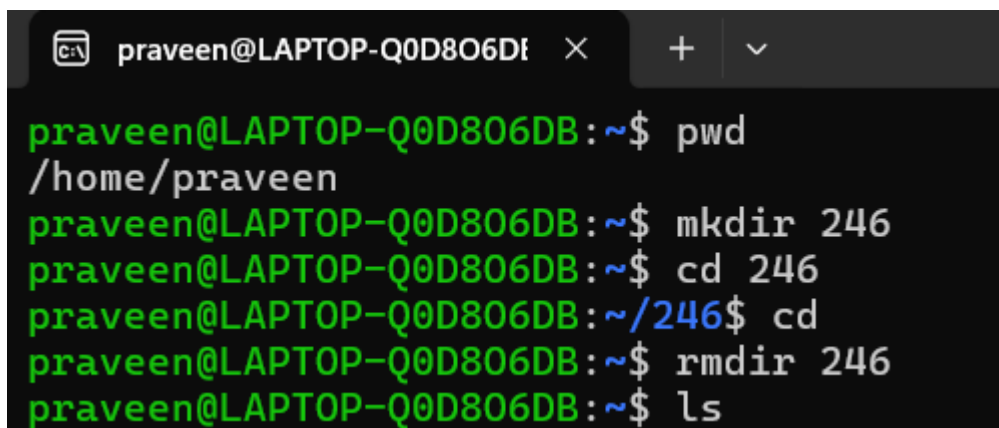
A terminal window titled 'praveen@LAPTOP-Q0D8O6DI' is open. The prompt is 'praveen@LAPTOP-Q0D8O6DB:~\$'. The background is a dark, solid color.

1B)

-GENERAL PURPOSE COMMANDS:

A terminal window titled 'praveen@LAPTOP-Q0D8O6DI' is open. The prompt is 'praveen@LAPTOP-Q0D8O6DB:~\$'. The user has entered several commands: 'date', 'echo "hello broo"', 'bc', 'who am i', 'id', 'tty', 'man', 'ps', and 'uname -a'. The output of these commands is displayed below the prompts.

-DIRECTORY COMMANDS:

A terminal window titled 'praveen@LAPTOP-Q0D8O6DI' is open. The prompt is 'praveen@LAPTOP-Q0D8O6DB:~\$'. The user has entered several directory-related commands: 'pwd', 'mkdir 246', 'cd 246', 'cd', 'rmdir 246', and 'ls'. The output of these commands is displayed below the prompts.

-FILE HANDLING COMMANDS:

```
praveen@LAPTOP-Q0D806DB:~$ cat>oldfile
hello world,this is linux
^C
praveen@LAPTOP-Q0D806DB:~$ cat oldfile
hello world,this is linux
praveen@LAPTOP-Q0D806DB:~$ cat>newfile
^C
praveen@LAPTOP-Q0D806DB:~$ cp oldfile newfile
praveen@LAPTOP-Q0D806DB:~$ cat newfile
hello world,this is linux
praveen@LAPTOP-Q0D806DB:~$ rm oldfile
praveen@LAPTOP-Q0D806DB:~$ mv oldfile newfile
mv: cannot stat 'oldfile': No such file or directory
praveen@LAPTOP-Q0D806DB:~$ wc newfile
 1  4 26 newfile
praveen@LAPTOP-Q0D806DB:~$ ls>newfile
praveen@LAPTOP-Q0D806DB:~$ who | wc -l
1
praveen@LAPTOP-Q0D806DB:~$ who | tee sample | wc -l
1
praveen@LAPTOP-Q0D806DB:~$ chmod u -wx newfile
```

-GROUPING COMMANDS:

```
praveen@LAPTOP-Q0D806DB:~$ who;date
praveen pts/1 2025-04-17 18:37
Thu Apr 17 19:01:22 UTC 2025
praveen@LAPTOP-Q0D806DB:~$ who && date
praveen pts/1 2025-04-17 18:37
Thu Apr 17 19:01:34 UTC 2025
praveen@LAPTOP-Q0D806DB:~$ who || date
praveen pts/1 2025-04-17 18:37
praveen@LAPTOP-Q0D806DB:~$ |
```

5) FILTERS:

```
praveen@LAPTOP-Q0D806DB:~$ ls
12a.c  best.c  emp.awk  fcfs.c  fifo.py.save  ipc.c  marks.dat  prac.c  rec  rr1.c  sjf.c  syscalls.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     empl.dat  fifo.py  hi  marks.awk  optimal.c  producerconsumer.c  rr.c  simplecal.sh  syscalls.c
praveen@LAPTOP-Q0D806DB:~$ 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-Q0D806DB:~$ tail newfile
reverse.sh
rr.c
rr1.c
sender.c
simplecal.sh
sjf.c
som
syscalls
syscalls.c
syscalls.c
praveen@LAPTOP-Q0D806DB:~$ ls -l | more
```