

DTL ASSIGNMENT – 6

LINUX COMMANDS

Name – Abhishek kakade

MIS – 112103063

Div – 1

Batch – S4

1)Pwd

```
abhishek002@ABHI:~/112103062$ pwd
/home/abhishek002/112103062
abhishek002@ABHI:~/112103062$
```

2)Mkdir

```
abhishek002@ABHI:~/112103062$ mkdir dir1
abhishek002@ABHI:~/112103062$ mkdir dir2 dir3
abhishek002@ABHI:~/112103062$ ls
dir1 dir2 dir3
```

3) Cd

```
abhishek002@ABHI:~/112103062$ cd dir1
abhishek002@ABHI:~/112103062/dir1$ cd ..
abhishek002@ABHI:~/112103062$
```

4) rmdir

```
abhishek002@ABHI:~/112103062$ ls
dir1  dir2  dir3
abhishek002@ABHI:~/112103062$ rmdir dir3
abhishek002@ABHI:~/112103062$ ls
dir1  dir2
abhishek002@ABHI:~/112103062$
```

```
abhishek002@ABHI:~/112103062$ cd dir2
abhishek002@ABHI:~/112103062/dir2$ mkdir newDir
abhishek002@ABHI:~/112103062/dir2$ cd ..
abhishek002@ABHI:~/112103062$ rmdir dir2
rmdir: failed to remove 'dir2': Directory not empty
abhishek002@ABHI:~/112103062$ rm -rf dir2
abhishek002@ABHI:~/112103062$ ls
dir1
abhishek002@ABHI:~/112103062$
```

5)clear

```
abhishek002@ABHI:~$ ls
112103062  112103063
abhishek002@ABHI:~$ touch file1.txt
abhishek002@ABHI:~$ ls
112103062  112103063  file1.txt
abhishek002@ABHI:~$ cd dir1
-bash: cd: dir1: No such file or directory
abhishek002@ABHI:~$ ls
112103062  112103063  file1.txt
abhishek002@ABHI:~$ clear
```

6)touch

```
abhishek002@ABHI:~$ ls
112103062  112103063
abhishek002@ABHI:~$ touch file1.txt
abhishek002@ABHI:~$ ls
112103062  112103063  file1.txt
abhishek002@ABHI:~$ cd dir1
-bash: cd: dir1: No such file or directory
abhishek002@ABHI:~$ ls
112103062  112103063  file1.txt
abhishek002@ABHI:~$
```

7)rm

```
abhishek002@ABHI:~$ rm file1.txt
abhishek002@ABHI:~$ ls
112103062  112103063
```

8)echo

```
abhishek002@ABHI:~$ echo Abhishek
Abhishek
abhishek002@ABHI:~$ echo "This is DTL Assignment"
This is DTL Assignment
abhishek002@ABHI:~$
```

9)cat

```
112103062 112103063 file1.txt
abhishek002@ABHI:~$ cat > file1.txt
Hello,I am Abhishek
^C
abhishek002@ABHI:~$ cat file1.txt
Hello,I am Abhishek
abhishek002@ABHI:~$ cat >> file1.txt
This line will append to the contents of file1
^C
abhishek002@ABHI:~$ cat file1.txt
Hello,I am Abhishek
This line will append to the contents of file1
abhishek002@ABHI:~$
```

10)cp

```
abhishek002@ABHI:/home$ cp file1.txt /home
cp: 'file1.txt' and '/home/file1.txt' are the same file
abhishek002@ABHI:/home$ cp file1.txt /home/abhishek002
abhishek002@ABHI:/home$ cd abhishek002/
abhishek002@ABHI:~$ ls
112103062 112103063 file1.txt
```

11)mv

```
abhishek002@ABHI:/home$ mkdir dir3
mkdir: cannot create directory 'dir3': Permission denied
abhishek002@ABHI:/home$ sudo mkdir dir3
abhishek002@ABHI:/home$ ls
abhishek002 dir3 file1.txt
abhishek002@ABHI:/home$ cd dir3
abhishek002@ABHI:/home/dir3$ ls
abhishek002@ABHI:/home/dir3$ cd ..
abhishek002@ABHI:/home$ mv file1.txt /home/abhishek002/dir3
mv: cannot move 'file1.txt' to '/home/abhishek002/dir3': Permission denied
abhishek002@ABHI:/home$ sudo mv file1.txt /home/abhishek002/dir3
abhishek002@ABHI:/home$ ls
abhishek002 dir3
abhishek002@ABHI:/home$ cd dir3
abhishek002@ABHI:/home/dir3$ ls
abhishek002@ABHI:/home/dir3$ ls
abhishek002@ABHI:/home/dir3$
```

12)ls

```
abhishek002@ABHI:/home/dir3$ ls
file1.txt file2.txt file3.txt mergeFile.txt
abhishek002@ABHI:/home/dir3$ ls -a
. . . file1.txt file2.txt file3.txt mergeFile.txt
abhishek002@ABHI:/home/dir3$ ls *[0-9]*
file1.txt file2.txt file3.txt
abhishek002@ABHI:/home/dir3$ ls -F
file1.txt file2.txt file3.txt mergeFile.txt
abhishek002@ABHI:/home/dir3$ ls -l
total 0
-rw-r--r-- 1 root root 0 Feb  6 18:57 file1.txt
-rw-r--r-- 1 root root 0 Feb  6 18:57 file2.txt
-rw-r--r-- 1 root root 0 Feb  6 18:57 file3.txt
-rw-r--r-- 1 root root 0 Feb  6 18:57 mergeFile.txt
abhishek002@ABHI:/home/dir3$ chmod u+x file1.txt
chmod: changing permissions of 'file1.txt': Operation not permitted
abhishek002@ABHI:/home/dir3$ sudo chmod u+x file1.txt
abhishek002@ABHI:/home/dir3$ ls -l
total 0
-rwxr--r-- 1 root root 0 Feb  6 18:57 file1.txt
-rw-r--r-- 1 root root 0 Feb  6 18:57 file2.txt
-rw-r--r-- 1 root root 0 Feb  6 18:57 file3.txt
-rw-r--r-- 1 root root 0 Feb  6 18:57 mergeFile.txt
abhishek002@ABHI:/home/dir3$
```

```
210 ttyz  66.00.00 ps
abhishek002@ABHI:/home/dir3$ vi file1.txt
abhishek002@ABHI:/home/dir3$ less file1.txt
abhishek002@ABHI:/home/dir3$
```

13)less

```
Sovereignty:- sovereignty in political theory, the ultimate overseer, o,
in the decision-making process of the state and in the maintenance of
order. The concept of sovereignty-one of the most controversial ideas
in political science and international law-is closely related to the difficult
concepts of state and government and of independence and democracy.
Derived from the Latin superanus through the French souveraineté, the
term was originally understood to mean the equivalent of supreme power.
However, its application in practice often has departed from this traditional
meaning.
Socialism:- socialism ,social and economic doctrine that calls for public
rather than private ownership and control of property and natural
resources. According to the socialist view, individuals do not live or work in
isolation but live in cooperation with one another. Furthermore, everything
that people produce is in some sense a social product, and everyone who
contributes to the production of a good is entitled to a share in it. Society as
a whole, therefore, should own or at least control property for the benefit of
all its members
file1.txt (END)
```

14)head

```
abhishek002@ABHI:~$ head quantum.txt
abhishek002@ABHI:~$ vi quantum.txt
abhishek002@ABHI:~$ head quantum.txt
sovereignty in political theory, the ultimate overseer, o,
in the decision-making process of the state and in the maintenance of
order. The concept of sovereignty-one of the most controversial ideas
in political science and international law-is closely related to the difficult
concepts of state and government and of independence and democracy.
Derived from the Latin superanus through the French souveraineté, the
term was originally understood to mean the equivalent of supreme power.
However, its application in practice often has departed from this traditional
meaning.
sovereignty in political theory, the ultimate overseer, o,
in the decision-making process of the state and in the maintenance of
abhishek002@ABHI:~$
```

15)tail

```
abhishek002@ABHI:~$ tail quantum.txt
However, its application in practice often has departed from this traditional
meaning.sovereignty in political theory, the ultimate overseer, o,
in the decision-making process of the state and in the maintenance of
order. The concept of sovereignty—one of the most controversial ideas
in political science and international law—is closely related to the difficult
concepts of state and government and of independence and democracy.
Derived from the Latin superanus through the French souveraineté, the
term was originally understood to mean the equivalent of supreme power.
However, its application in practice often has departed from this traditional
meaning.
abhishek002@ABHI:~$
```

16)grep

```
abhishek002@ABHI:~$ grep sovereignty quantum.txt
sovereignty in political theory, the ultimate overseer, o,
order. The concept of sovereignty—one of the most controversial ideas
meaning.sovereignty in political theory, the ultimate overseer, o,
order. The concept of sovereignty—one of the most controversial ideas
abhishek002@ABHI:~$
```

17)find

```
abhishek002@ABHI:~$ find file1.txt
file1.txt
abhishek002@ABHI:~$ find sovereignty
```

18)df

```
abhishek002@ABHI:~$ df
Filesystem      1K-blocks      Used Available Use% Mounted on
rootfs          248890364 121275652 127614712  49% /
none            248890364 121275652 127614712  49% /dev
none            248890364 121275652 127614712  49% /run
none            248890364 121275652 127614712  49% /run/lock
none            248890364 121275652 127614712  49% /run/shm
none            248890364 121275652 127614712  49% /run/user
tmpfs           248890364 121275652 127614712  49% /sys/fs/cgroup
C:\             248890364 121275652 127614712  49% /mnt/c
D:\             976744444 607817068 368927376  63% /mnt/d
```

```
abhishek002@ABHI:~$ df -h
Filesystem      Size  Used Avail Use% Mounted on
rootfs          238G  116G  122G   49% /
none            238G  116G  122G   49% /dev
none            238G  116G  122G   49% /run
none            238G  116G  122G   49% /run/lock
none            238G  116G  122G   49% /run/shm
none            238G  116G  122G   49% /run/user
tmpfs           238G  116G  122G   49% /sys/fs/cgroup
C:\             238G  116G  122G   49% /mnt/c
D:\             932G  580G  352G   63% /mnt/d
```

```
abhishek002@ABHI:~$ df -m
Filesystem      1M-blocks      Used Available Use% Mounted on
rootfs          243057 118431  124627  49% /
none            243057 118431  124627  49% /dev
none            243057 118431  124627  49% /run
none            243057 118431  124627  49% /run/lock
none            243057 118431  124627  49% /run/shm
none            243057 118431  124627  49% /run/user
tmpfs           243057 118431  124627  49% /sys/fs/cgroup
C:\             243057 118431  124627  49% /mnt/c
D:\             953852 593572  360281  63% /mnt/d
```

```
abhishek002@ABHI:~$ df -k
Filesystem      1K-blocks      Used Available Use% Mounted on
rootfs          248890364 121272664 127617700 49% /
none            248890364 121272664 127617700 49% /dev
none            248890364 121272664 127617700 49% /run
none            248890364 121272664 127617700 49% /run/lock
none            248890364 121272664 127617700 49% /run/shm
none            248890364 121272664 127617700 49% /run/user
tmpfs           248890364 121272664 127617700 49% /sys/fs/cgroup
C:\             248890364 121272664 127617700 49% /mnt/c
D:\             976744444 607817112 368927332 63% /mnt/d
```

```
abhishek002@ABHI:~$ df -T
Filesystem      Type 1K-blocks      Used Available Use% Mounted on
rootfs          wslfs 248890364 121272728 127617636 49% /
none            tmpfs 248890364 121272728 127617636 49% /dev
none            tmpfs 248890364 121272728 127617636 49% /run
none            tmpfs 248890364 121272728 127617636 49% /run/lock
none            tmpfs 248890364 121272728 127617636 49% /run/shm
none            tmpfs 248890364 121272728 127617636 49% /run/user
tmpfs           tmpfs 248890364 121272728 127617636 49% /sys/fs/cgroup
C:\             drvfs 248890364 121272728 127617636 49% /mnt/c
D:\             drvfs 976744444 607817112 368927332 63% /mnt/d
```

19)du

```
abhishek002@ABHI:~$ du /home/abhishek002
0      /home/abhishek002/.local/share/nano
0      /home/abhishek002/.local/share
0      /home/abhishek002/.local
0      /home/abhishek002/112103062/dir1
0      /home/abhishek002/112103062/newDir
0      /home/abhishek002/112103062
0      /home/abhishek002/112103063
32     /home/abhishek002
abhishek002@ABHI:~$
```

21)tar

```
abhishek002@ABHI:/home$ tar -cvf newArchive.tar /home/abhishek002
tar: newArchive.tar: Cannot open: Permission denied
tar: Error is not recoverable: exiting now
abhishek002@ABHI:/home$
abhishek002@ABHI:/home$ sudo tar -cvf newArchive.tar /home/abhishek002
[sudo] password for abhishek002:
tar: Removing leading `/' from member names
/home/abhishek002/
/home/abhishek002/.bashrc
/home/abhishek002/.bash_history
/home/abhishek002/.bash_logout
/home/abhishek002/.lessht
/home/abhishek002/.local/
/home/abhishek002/.local/share/
/home/abhishek002/.local/share/nano/
/home/abhishek002/.motd_shown
/home/abhishek002/.profile
/home/abhishek002/.sudo_as_admin_successful
/home/abhishek002/.viminfo
/home/abhishek002/112103062/
/home/abhishek002/112103062/dir1/
/home/abhishek002/112103062/newDir/
/home/abhishek002/112103063/
/home/abhishek002/abhi.txt
/home/abhishek002/dir3
/home/abhishek002/file1.txt
/home/abhishek002/file2.txt
/home/abhishek002/file3.txt
/home/abhishek002/mergedFile.txt
/home/abhishek002/quantum.txt
```

22)zip, unzip

```
abhishek002@ABHI:/home$ zip newZip.zip /home/abhishek002
zip I/O error: Permission denied
zip error: Could not create output file (newZip.zip)
abhishek002@ABHI:/home$ sudo zip newZip.zip /home/abhishek002
  adding: home/abhishek002/ (stored 0%)
abhishek002@ABHI:/home$ ls
abhishek002  dir3  newArchive.tar  newZip.zip
```

```
abhishek002@ABHI:/home$ unzip newZip.zip
Archive:  newZip.zip
checkdir error:  cannot create home
                  Permission denied
                  unable to process home/abhishek002/.
abhishek002@ABHI:/home$ sudo unzip newZip.zip
Archive:  newZip.zip
  creating: home/abhishek002/
abhishek002@ABHI:/home$
```

23)sudo

```
abhishek002@ABHI:/home$ sudo apt install zip
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
zip is already the newest version (3.0-12build2).
0 upgraded, 0 newly installed, 0 to remove and 40 not upgraded.
```

24)chmod

```
abhishek002@ABHI:~$ ls
112103062  112103063  abhi.txt  dir3  file1.txt  file2.txt  file3.txt  mergedFile.txt  quantum.txt
abhishek002@ABHI:~$ ls -l
total 4
drwxr-xr-x 1 abhishek002 abhishek002 4096 Feb  6 17:05 112103062
drwxr-xr-x 1 abhishek002 abhishek002 4096 Feb  6 17:08 112103063
-rw-r--r-- 1 abhishek002 abhishek002   0 Feb  6 19:43 abhi.txt
-rw-r--r-- 1 root      root          0 Feb  6 18:30 dir3
-rw-r--r-- 1 abhishek002 abhishek002   0 Feb  6 19:48 file1.txt
-rw-r--r-- 1 abhishek002 abhishek002   0 Feb  6 19:48 file2.txt
-rw-r--r-- 1 abhishek002 abhishek002   0 Feb  6 19:48 file3.txt
-rw-r--r-- 1 abhishek002 abhishek002   0 Feb  6 19:48 mergedFile.txt
-rw-r--r-- 1 abhishek002 abhishek002 1175 Feb  6 19:50 quantum.txt
abhishek002@ABHI:~$ chmod +x file2.txt
abhishek002@ABHI:~$ ls -l
total 4
drwxr-xr-x 1 abhishek002 abhishek002 4096 Feb  6 17:05 112103062
drwxr-xr-x 1 abhishek002 abhishek002 4096 Feb  6 17:08 112103063
-rw-r--r-- 1 abhishek002 abhishek002   0 Feb  6 19:43 abhi.txt
-rw-r--r-- 1 root      root          0 Feb  6 18:30 dir3
-rw-r--r-- 1 abhishek002 abhishek002   0 Feb  6 19:48 file1.txt
-rwxr-xr-x 1 abhishek002 abhishek002   0 Feb  6 19:48 file2.txt
-rw-r--r-- 1 abhishek002 abhishek002   0 Feb  6 19:48 file3.txt
-rw-r--r-- 1 abhishek002 abhishek002   0 Feb  6 19:48 mergedFile.txt
-rw-r--r-- 1 abhishek002 abhishek002 1175 Feb  6 19:50 quantum.txt
abhishek002@ABHI:~$
```

25)hostname

```
abhishek002@ABHI:~$ hostname
ABHI
abhishek002@ABHI:~$
```

26)ifconfig

```
abhishek002@ABHI:/home/dir:$ ifconfig
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 1500
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0xfe<compat,link,site,host>
    loop (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

wifi0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.103.56 netmask 255.255.255.0 broadcast 192.168.103.255
    inet6 2409:4081:2c8c:4c82:e028:3fe5:c997:7afd prefixlen 64 scopeid 0x0<global>
    inet6 2409:4081:2c8c:4c82:fd0:314:765a:f718 prefixlen 128 scopeid 0x0<global>
    inet6 fe80::e028:3fe5:c997:7afd prefixlen 64 scopeid 0xfd<compat,link,site,host>
    ether 68:25:87:2b:8b:54 (Ethernet)
    RX packets 0 bytes 0 (0.0 B)
```

```
abhishek002@ABHI:/home/dir:$ ifconfig -s
Iface MTU RX-OK RX-ERR RX-DRP RX-OVR TX-OK TX-ERR TX-DRP TX-OVR Flg
lo 1500 0 0 0 0 0 0 0 0 LRU
wifi0 1500 0 0 0 0 0 0 0 0 BMRU
abhishek002@ABHI:/home/dir:$
```

27)free

```
abhishek002@ABHI:/home/dir:$ free
              total        used        free      shared  buff/cache   available
Mem:          7712836      5320060      2163424         17720       229352      2259044
Swap:         24117248      292284       23824964

abhishek002@ABHI:/home/dir:$ free -m
              total        used        free      shared  buff/cache   available
Mem:           7532         5193         2115          17         223         2208
Swap:          23552         285         23266

abhishek002@ABHI:/home/dir:$ free -k
              total        used        free      shared  buff/cache   available
Mem:          7712836      5318264      2165220         17720       229352      2260840
Swap:         24117248      292280       23824968

abhishek002@ABHI:/home/dir:$ free -b
              total        used        free      shared  buff/cache   available
Mem:       7897944064      5438812160      2224275456      18145280      234856448      2322190336
Swap:       24696061952      299286528      24396775424
abhishek002@ABHI:/home/dir:$
```

28)watch

	total	used	free	shared	buff/cache	available
Mem:	7897944064	5438812160	2224275456	18145280	234856448	2322190336
Swap:	24696061952	299286528	24396775424			

29)cal

```
abhishek002@ABHI:~$ cal
February 2023
Su Mo Tu We Th Fr Sa
      1  2  3  4
 5  6  7  8  9 10 11
12 13 14 15 16 17 18
19 20 21 22 23 24 25
26 27 28

abhishek002@ABHI:~$ cal 2023
      2023
January February March
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
 1  2  3  4  5  6  7   1  2  3  4   1  2  3  4
 8  9 10 11 12 13 14   5  6  7  8  9 10 11   5  6  7  8  9 10 11
15 16 17 18 19 20 21  12 13 14 15 16 17 18  12 13 14 15 16 17 18
22 23 24 25 26 27 28  19 20 21 22 23 24 25  19 20 21 22 23 24 25
29 30 31      26 27 28      26 27 28 29 30 31

April May June
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
 1  2  3  4  5  6  7   1  2  3  4  5  6   1  2  3
 8  9 10 11 12 13 14   7  8  9 10 11 12 13   4  5  6  7  8  9 10
15 16 17 18 19 20 21  14 15 16 17 18 19 20  11 12 13 14 15 16 17
16 17 18 19 20 21 22  21 22 23 24 25 26 27  18 19 20 21 22 23 24
23 24 25 26 27 28 29  28 29 30 31      25 26 27 28 29 30
30

July August September
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
 1  2  3  4  5  6  7   1  2  3  4  5   1  2
 8  9 10 11 12 13 14   6  7  8  9 10 11 12   3  4  5  6  7  8  9
15 16 17 18 19 20 21  13 14 15 16 17 18 19  10 11 12 13 14 15 16
16 17 18 19 20 21 22  20 21 22 23 24 25 26  17 18 19 20 21 22 23
23 24 25 26 27 28 29  27 28 29 30 31      24 25 26 27 28 29 30
30 31

October November December
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
 1  2  3  4  5  6  7   1  2  3  4   1  2
 8  9 10 11 12 13 14   5  6  7  8  9 10 11   3  4  5  6  7  8  9
15 16 17 18 19 20 21  12 13 14 15 16 17 18  10 11 12 13 14 15 16
22 23 24 25 26 27 28  19 20 21 22 23 24 25  17 18 19 20 21 22 23
29 30 31      26 27 28 29 30      24 25 26 27 28 29 30
31
```


30)useradd

```
abhishek002@ABHI:~$ ls /home/
abhishek002  dir3  home  newArchive.tar  newZip.zip
abhishek002@ABHI:~$ sudo useradd narzo -m
abhishek002@ABHI:~$ sudo passwd narzo
sudo: passwd: command not found
abhishek002@ABHI:~$ ls /home
abhishek002  dir3  home  narzo  newArchive.tar  newZip.zip
abhishek002@ABHI:~$ useradd narzo -m
useradd: user 'narzo' already exists
abhishek002@ABHI:~$
```

31)userdel

```
abhishek002@ABHI:~$ sudo userdel -r narzo
userdel: narzo mail spool (/var/mail/narzo) not found
abhishek002@ABHI:~$ ls /home/
abhishek002  dir3  home  newArchive.tar  newZip.zip
abhishek002@ABHI:~$
```

32)top

```
top - 21:59:21 up 5:11, 0 users, load average: 0.52, 0.58, 0.59
Tasks: 6 total, 1 running, 5 sleeping, 0 stopped, 0 zombie
%Cpu(s): 0.3 us, 1.4 sy, 0.0 ni, 97.8 id, 0.0 wa, 0.6 hi, 0.0 si, 0.0 st
MiB Mem : 7532.1 total, 2068.5 free, 5239.5 used, 224.0 buff/cache
MiB Swap: 23552.0 total, 23233.6 free, 318.4 used, 2161.9 avail Mem
```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
1	root	20	0	8960	408	328	S	0.0	0.0	0:00.15	init
653	root	20	0	9300	232	184	S	0.0	0.0	0:00.00	init
654	abhishe+	20	0	14116	3784	3688	S	0.0	0.0	0:00.14	bash
706	root	20	0	9312	236	188	S	0.0	0.0	0:00.00	init
707	abhishe+	20	0	14116	3780	3548	S	0.0	0.0	0:00.07	bash
802	abhishe+	20	0	15828	2284	1580	R	0.0	0.0	0:00.04	top

33)ping

```
abhishek002@ABHI:~$ ping www.instagram.com
PING www.instagram.com(146.75.100.100): 56 data bytes
64 bytes from 146.75.100.100: icmp_seq=1 ttl=55 time=30.7 ms
64 bytes from 146.75.100.100: icmp_seq=2 ttl=55 time=70.1 ms
64 bytes from 146.75.100.100: icmp_seq=3 ttl=55 time=109 ms
64 bytes from 146.75.100.100: icmp_seq=4 ttl=55 time=70.5 ms
64 bytes from 146.75.100.100: icmp_seq=5 ttl=55 time=129 ms
64 bytes from 146.75.100.100: icmp_seq=6 ttl=55 time=83.7 ms
64 bytes from 146.75.100.100: icmp_seq=7 ttl=55 time=70.8 ms
64 bytes from 146.75.100.100: icmp_seq=8 ttl=55 time=126 ms
64 bytes from 146.75.100.100: icmp_seq=9 ttl=55 time=115 ms
64 bytes from 146.75.100.100: icmp_seq=10 ttl=55 time=108 ms
64 bytes from 146.75.100.100: icmp_seq=11 ttl=55 time=210 ms
64 bytes from 146.75.100.100: icmp_seq=12 ttl=55 time=66.6 ms
64 bytes from 146.75.100.100: icmp_seq=13 ttl=55 time=70.6 ms
64 bytes from 146.75.100.100: icmp_seq=14 ttl=55 time=77.1 ms
64 bytes from 146.75.100.100: icmp_seq=15 ttl=55 time=30.6 ms
64 bytes from 146.75.100.100: icmp_seq=16 ttl=55 time=73.0 ms
64 bytes from 146.75.100.100: icmp_seq=17 ttl=55 time=85.1 ms
64 bytes from 146.75.100.100: icmp_seq=18 ttl=55 time=256 ms
64 bytes from 146.75.100.100: icmp_seq=19 ttl=55 time=79.9 ms
64 bytes from 146.75.100.100: icmp_seq=20 ttl=55 time=93.2 ms
64 bytes from 146.75.100.100: icmp_seq=21 ttl=55 time=40.0 ms
64 bytes from 146.75.100.100: icmp_seq=22 ttl=55 time=90.9 ms
64 bytes from 146.75.100.100: icmp_seq=23 ttl=55 time=109 ms
64 bytes from 146.75.100.100: icmp_seq=24 ttl=55 time=85.1 ms
64 bytes from 146.75.100.100: icmp_seq=25 ttl=55 time=108 ms
64 bytes from 146.75.100.100: icmp_seq=26 ttl=55 time=73.0 ms
64 bytes from 146.75.100.100: icmp_seq=27 ttl=55 time=122 ms
64 bytes from 146.75.100.100: icmp_seq=28 ttl=55 time=33.4 ms
64 bytes from 146.75.100.100: icmp_seq=29 ttl=55 time=146 ms
64 bytes from 146.75.100.100: icmp_seq=30 ttl=55 time=107 ms
64 bytes from 146.75.100.100: icmp_seq=31 ttl=55 time=121 ms
64 bytes from 146.75.100.100: icmp_seq=32 ttl=55 time=109 ms
64 bytes from 146.75.100.100: icmp_seq=33 ttl=55 time=48.3 ms
64 bytes from 146.75.100.100: icmp_seq=34 ttl=55 time=99.1 ms
64 bytes from 146.75.100.100: icmp_seq=35 ttl=55 time=57.5 ms
64 bytes from 146.75.100.100: icmp_seq=36 ttl=55 time=123 ms
64 bytes from 146.75.100.100: icmp_seq=37 ttl=55 time=132 ms
64 bytes from 146.75.100.100: icmp_seq=38 ttl=55 time=52.1 ms
```

34)uname

```
abhishek002@ABHI:~$ uname
Linux
abhishek002@ABHI:~$ uname -a
Linux ABHI 4.4.0-19041-Microsoft #1237-Microsoft Sat Sep 11 14:32:00 PST 2021 x86_64 x86_64 x86_64 GNU/Linux
abhishek002@ABHI:~$ uname -s
Linux
abhishek002@ABHI:~$
```

35)wget

```
abhishek002@ABHI:~$ wget https://www.coep.org.in/download/file/fid/7939
--2023-02-06 22:07:37-- https://www.coep.org.in/download/file/fid/7939
Resolving www.coep.org.in (www.coep.org.in)... 64:ff9b::d2d4:b705, 210.212.183.5
Connecting to www.coep.org.in (www.coep.org.in)|64:ff9b::d2d4:b705|:443... failed: Resource temporarily unavailable.
Connecting to www.coep.org.in (www.coep.org.in)|210.212.183.5|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 602228 (588K) [application/pdf]
Saving to: '7939'

7939                                                    100%[=====
2023-02-06 22:08:25 (22.7 KB/s) - '7939' saved [602228/602228]
```

36)man

```
NAME
    sudo, sudoedit - execute a command as another user

SYNOPSIS
    sudo -h | -K | -k | -V
    sudo -v [-AbknS] [-g group] [-h host] [-p prompt] [-u user]
    sudo -l [-AbknS] [-g group] [-h host] [-p prompt] [-u user] [command]
    sudo [-AbEnPS] [-C num] [-D directory] [-g group] [-h host] [-p prompt] [-R directory] [-r role] [-t type] [-T timeout] [-u user] [VAR=value] [-i | -s] [command]
    sudoedit [-AbknS] [-C num] [-D directory] [-g group] [-h host] [-p prompt] [-R directory] [-r role] [-t type] [-T timeout] [-u user] file ...

DESCRIPTION
    sudo allows a permitted user to execute a command as the superuser or another user, as specified by the security policy. The invoking user's real (not effective) user-ID is used to determine the user name with which to query the security policy.

    sudo supports a plugin architecture for security policies, auditing, and input/output logging. Third parties can develop and distribute their own plugins to work seamlessly with the sudo front-end. The default security policy is sudorens, which is configured via the file /etc/sudorens, or via LDAP. See the Plugins section for more information.

    The security policy determines what privileges, if any, a user has to run sudo. The policy may require that users authenticate themselves with a password or another authentication mechanism. If authentication is required, sudo will exit if the user's password is not entered within a configurable time limit. This limit is policy-specific; the default password prompt timeout for the sudorens security policy is 0 minutes.

    Security policies may support credential caching to allow the user to run sudo again for a period of time without requiring authentication. By default, the sudorens policy caches credentials on a per-terminal basis for 15 minutes. See the timestamp_type and timestamp_timeout options in sudorens(5) for more information. By running sudo with the -v option, a user can update the cached credentials without running a command.

    On systems where sudo is the primary method of gaining superuser privileges, it is imperative to avoid syntax errors in the security policy configuration files. For the default security policy, sudorens(5), changes to the configuration files should be made using the visudo(8) utility which will ensure that no syntax errors are introduced.

    When invoked as sudoedit, the -e option (described below), is implied.

    Security policies and audit plugins may log successful and failed attempts to run sudo. If an I/O plugin is configured, the running command's input and output may be logged as well.

    The options are as follows:

    -A, --askpass
        Normally, if sudo requires a password, it will read it from the user's terminal. If the -A (askpass) option is specified, a (possibly graphical) helper program is executed to read the user's password and output the password to the standard output. If the SUDO_ASKPASS environment variable is set, it specifies the path to the helper program. Otherwise, if sudo.conf(5) contains a line specifying the askpass program, that value will be used. For example:

            # Path to askpass helper program
            Path askpass /usr/X11R6/bin/ssh-askpass

        If no askpass program is available, sudo will exit with an error.

    -B, --bell
        Ring the bell as part of the password prompt when a terminal is present. This option has no effect if an askpass program is used.

    -b, --background
        Manual page sudo(8) line 1 (press h for help or q to quit)
```

37)history

```
abhishek002@ABHI:~$ history
1 vi main.c
2 gcc -g main.c
3 sudo apt install gcc
4 sudo apt-get update
5 sudo apt install gcc
6 gcc -g main.c
7 gdb a.out
8 gdb ./a.out
9 sudo apt install gdb
```

38)netstat

```
abhishek002@ABHI:~$ netstat
Active Internet connections (w/o servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State
Active UNIX domain sockets (w/o servers)
Proto RefCnt Flags   Type       State           I-Node    Path
abhishek002@ABHI:~$ netstat -a
Active Internet connections (servers and established)
Proto Recv-Q Send-Q Local Address           Foreign Address         State
Active UNIX domain sockets (servers and established)
Proto RefCnt Flags   Type       State           I-Node    Path
abhishek002@ABHI:~$ netstat -l
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State
Active UNIX domain sockets (only servers)
Proto RefCnt Flags   Type       State           I-Node    Path
```

39)whoami

```
abhishek002@ABHI:~$ whoami
abhishek002
abhishek002@ABHI:~$
```

40)exit

```
abhishek002@ABHI:~$ exit
```