

DTL Assignment 6

1)pwd:-

2)

```
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ pwd
/home/hariom/Desktop/112103048
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ mkdir dir1
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ mkdir dir2 dir3
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ ls
dir1  dir2  dir3
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$
```

mkdir

3) cd

```
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ cd dir1
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$ cd ..
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$
```

4) rmdir

```
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ ls
dir1  dir2  dir3
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ rmdir dir3
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ ls
dir1  dir2
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$
```

```
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ cd dir2
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir2$ mkdir newDir
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir2$ cd ..
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ rmdir dir2
rmdir: failed to remove 'dir2': Directory not empty
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ rm -rf dir2
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ ls
dir1
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$
```

5) Clear

```
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ cd dir2
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir2$ mkdir newDi
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir2$ cd ..
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ rmdir dir2
rmdir: failed to remove 'dir2': Directory not empty
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ rm -rf dir2
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ ls
dir1
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ clear
```

6)

```
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$
```

touch

```
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ touch /home/hariom/D
ktop/112103048/dir1/newFile.txt
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ cd dir1
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$ ls
newFile.txt
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$
```

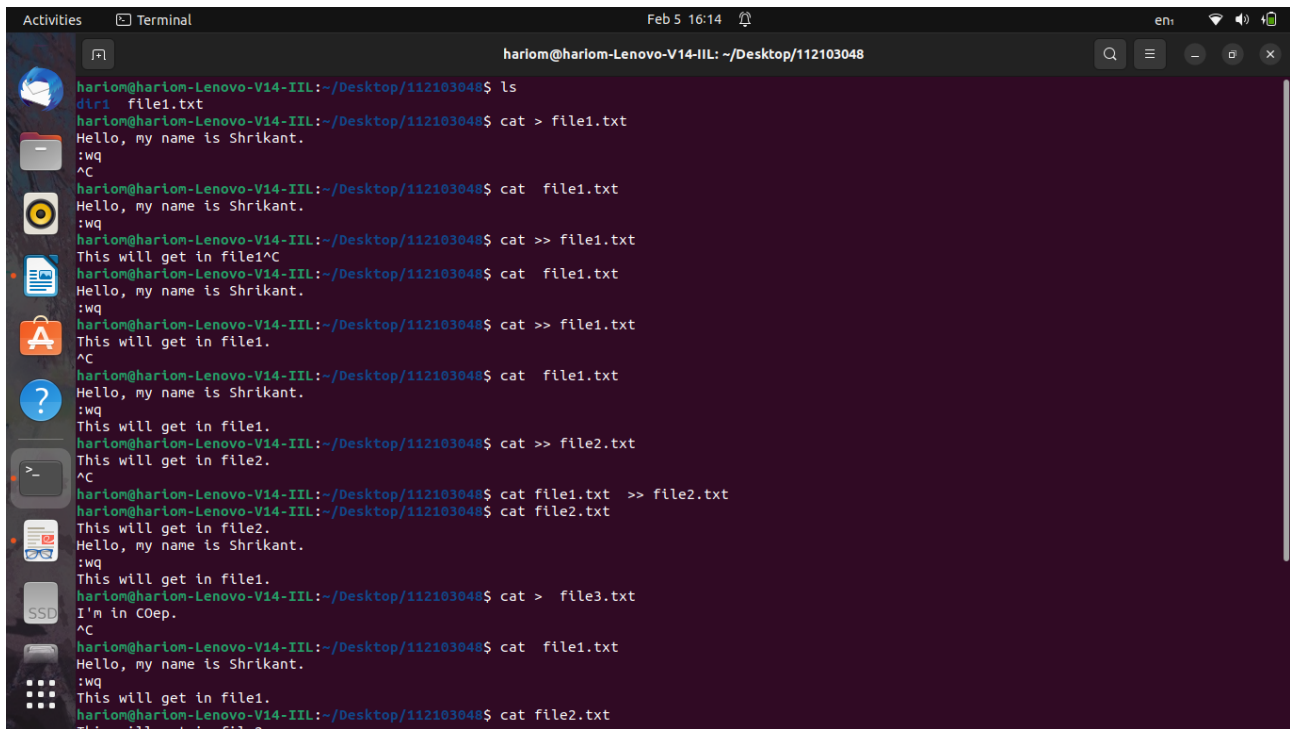
7) rm

```
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$ rm newFile.txt
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$ ls
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$
```

8) echo

```
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$ echo Shrikant
Shrikant
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$ echo "DTL Assignment"
DTL Assignment
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$ echo " 112103048"
 112103048
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$ echo "I'm student of Coep"
I'm student of Coep
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$ echo "I'm \bstudent \bof \bCoep"
I'm \bstudent \bof \bCoep
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$ echo -e "I'm \bstudent \bof \bCoep"
I'mstudentofCoep
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$
```

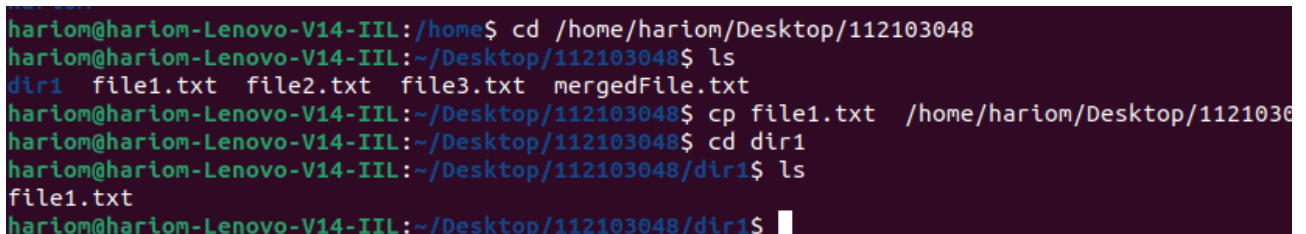
9) cat

A terminal window titled 'Terminal' with the path 'hariom@hariom-Lenovo-V14-IIL: ~/Desktop/112103048'. The user enters 'ls' and sees 'dir1 file1.txt'. Then they enter 'cat > file1.txt' and type 'Hello, my name is Shrikant.' followed by a newline. They then enter 'cat file1.txt' and see the output. Next, they use 'cat >> file1.txt' to append 'This will get in file1' and another newline. Then they use 'cat file1.txt' again. They then use 'cat >> file1.txt' to append 'This will get in file1.' and a newline. Then they use 'cat file1.txt' again. They then use 'cat >> file2.txt' to append 'This will get in file2.' and a newline. Then they use 'cat file1.txt >> file2.txt' to append the contents of file1 to file2. Then they use 'cat file2.txt' and see the combined output. They then use 'cat > file3.txt' to create a new file with 'I'm in COep.' and a newline. Finally, they use 'cat file1.txt' and see the output.

```
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ ls
dir1 file1.txt
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ cat > file1.txt
Hello, my name is Shrikant.
:wq
^C
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ cat file1.txt
Hello, my name is Shrikant.
:wq
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ cat >> file1.txt
This will get in file1^C
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ cat file1.txt
Hello, my name is Shrikant.
:wq
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ cat >> file1.txt
This will get in file1.
^C
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ cat file1.txt
Hello, my name is Shrikant.
:wq
This will get in file1.
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ cat >> file2.txt
This will get in file2.
^C
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ cat file1.txt >> file2.txt
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ cat file2.txt
This will get in file2.
Hello, my name is Shrikant.
:wq
This will get in file1.
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ cat > file3.txt
I'm in COep.
^C
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ cat file1.txt
Hello, my name is Shrikant.
:wq
This will get in file1.
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ cat file2.txt
```

```
This will get in file1.
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ cat file2.txt
This will get in file2.
Hello, my name is Shrikant.
:wq
This will get in file1.
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ cat file3.txt
I'm in COep.
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ cat file1.txt file3.txt > mergedFile.txt
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ cat mergedFile.txt
Hello, my name is Shrikant.
:wq
This will get in file1.
I'm in COep.
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$
```

10) cp

A terminal window showing the user navigating to the directory '/home/hariom/Desktop/112103048' and listing its contents: 'file1.txt file2.txt file3.txt mergedFile.txt'. Then they use 'cp file1.txt /home/hariom/Desktop/112103048/dir1' to copy file1.txt to a new directory 'dir1'. Finally, they use 'cd dir1' and 'ls' to verify the copy.

```
hariom@hariom-Lenovo-V14-IIL:/home$ cd /home/hariom/Desktop/112103048
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ ls
dir1 file1.txt file2.txt file3.txt mergedFile.txt
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ cp file1.txt /home/hariom/Desktop/112103048/dir1
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ cd dir1
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$ ls
file1.txt
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$
```

11)mv

```
file1.txt
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$ cd ..
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ ls
dir1 file1.txt file2.txt file3.txt mergedFile.txt
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ mv file2.txt /home/hariom/Desktop/112103048/dir1
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ cd dir1
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$ ls
file1.txt file2.txt
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$
```

12) ls

```
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ ls
dir1 file1.txt file3.txt mergedFile.txt
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ ls -a
. .. dir1 file1.txt file3.txt mergedFile.txt
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ ls *[0-9]*
file1.txt file3.txt

dir1:
file1.txt file2.txt
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ cd dir1
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$ ls -F
file1.txt file2.txt
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$ ls -l
total 8
-rw-rw-r-- 1 hariom hariom 56 Feb  5 16:23 file1.txt
-rw-rw-r-- 1 hariom hariom 80 Feb  5 16:10 file2.txt
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$ ls -l
total 8
-rw-rw-r-- 1 hariom hariom 56 Feb  5 16:23 file1.txt
-rw-rw-r-- 1 hariom hariom 80 Feb  5 16:10 file2.txt
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$ chmod u+x
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$ ls -l
total 8
-rwxrw-r-- 1 hariom hariom 56 Feb  5 16:23 file1.txt
-rw-rw-r-- 1 hariom hariom 80 Feb  5 16:10 file2.txt
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$
```

13) less

```
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ ls
dir1 file1.txt file3.txt mergedFile.txt
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ less mergedFile.txt
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$
```

```
1
2
3 Hello, my name is Shrikant.
4
5 :wq
6 This will get in file1.
7
8 I'm in COep.
9
10 mergedFile.txt (END)
```

14) head

```
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ ls
dir1 file1.txt file3.txt linux.txt mergedFile.txt
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ head linux.txt
Linux (/ˈliːnʊks/ (listen) LEE-nuuks or /ˈlɪnʊks/ LIN-uuks)[11] is a family of open-source Unix-like operating systems based on the Linux kernel,[12] an operating system kernel first released on September 17, 1991, by Linus Torvalds.[13][14][15] Linux is typically packaged as a Linux distribution, which includes the kernel and supporting system software and libraries, many of which are provided by the GNU Project. Many Linux distributions use the word "Linux" in their name, but the Free Software Foundation uses the name "GNU/Linux" to emphasize the importance of GNU software, causing some controversy.[16][17]

Popular Linux distributions[18][19][20] include Debian, Fedora Linux, and Ubuntu, the latter of which itself consists of many different distributions and modifications, including Lubuntu and Xubuntu. Commercial distributions include Red Hat Enterprise Linux and SUSE Linux Enterprise. Desktop Linux distributions include a windowing system such as X11 or Wayland, and a desktop environment such as GNOME or KDE Plasma. Distributions intended for servers may omit graphics altogether, or include a solution stack such as LAMP. Because Linux is freely redistributable, anyone may create a distribution for any purpose.[21]

Linux was originally developed for personal computers based on the Intel x86 architecture, but has since been ported to more platforms than any other operating system.[22] Because of the dominance of the Linux-based Android on smartphones, Linux, including Android, has the largest installed base of all general-purpose operating systems, as of May 2022.[23][24][25] Although Linux is, as of November 2022, used by only around 2.6 percent of desktop computers,[26] the Chromebook, which runs the Linux kernel-based ChromeOS, dominates the US K-12 education market and represents nearly 20 percent of sub-$300 notebook sales in the US.[27] Linux is the leading operating system on servers (over 96.4% of the top 1 million web servers' operating systems are Linux),[28] leads other big iron systems such as mainframe computers, and is used on all of the world's 500 fastest supercomputers[d] (since November 2017, having gradually displaced all competitors).[29][30][31]

Linux also runs on embedded systems, i.e. devices whose operating system is typically built into the firmware and is highly tailored to the system. This includes routers, automation controls, smart home devices, video game consoles,[32] televisions (Samsung and LG Smart TVs),[33][34][35] automobiles (Tesla, Audi, Mercedes-Benz, Hyundai and Toyota),[36] and spacecraft (Falcon 9 rocket, Dragon crew capsule and the Perseverance rover).[37][38]

Linux is one of the most prominent examples of free and open-source software collaboration. The source code may be used, modified and distributed commercially or non-commercially by anyone under the terms of its respective licenses, such as the GNU General Public License (GPL). The Linux kernel, for example, is licensed under the GPLv2.[e]
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$
```

15) tail

```
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ ls
dir1 file1.txt file3.txt linux.txt mergedFile.txt
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ tail linux.txt
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hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$
```


16) grep

```
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ ls
dir1 file1.txt file3.txt linux.txt mergedFile.txt
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ grep Linux linux.txt
Linux (/ˈliːnʊks/ (listen) LEE-nuuks or /ˈlɪnʊks/ LIN-uuks)[11] is a family of open-source Unix-like operating systems based on the Linux kernel,[12] an operating system kernel first released on September 17, 1991, by Linus Torvalds.[13][14][15] Linux is typically packaged as a Linux distribution, which includes the kernel and supporting system software and libraries, many of which are provided by the GNU Project. Many Linux distributions use the word "Linux" in their name, but the Free Software Foundation uses the name "GNU/Linux" to emphasize the importance of GNU software, causing some controversy.[16][17]
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hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$
```

17) find

df

```
112103048$ find 112103048
hariom@hariom-Lenovo-V14-IIL:~/Desktop$ find 112103048
112103048
112103048/file1.txt
112103048/mergedFile.txt
112103048/linux.txt
112103048/dir1
112103048/dir1/file1.txt
112103048/dir1/shri
112103048/dir1/file2.txt
112103048/file3.txt
hariom@hariom-Lenovo-V14-IIL:~/Desktop$
```

18)

112103048/files.txt

```
hariom@hariom-Lenovo-V14-IIL:~/Desktop$ cd 112103048/dir1
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$ df
Filesystem      1K-blocks      Used Available Use% Mounted on
tmpfs            793496         2112       791384   1% /run
/dev/nvme0n1p6  78986876 15429872 59498944  21% /
tmpfs            3967464          0     3967464   0% /dev/shm
tmpfs            5120           4         5116   1% /run/lock
tmpfs            793492        4740       788752   1% /run/user/1000
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$
```

```
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$ df -h
Filesystem      Size  Used Avail Use% Mounted on
tmpfs            775M  2.1M  773M   1% /run
/dev/nvme0n1p6  76G   15G   57G   21% /
tmpfs            3.8G   0   3.8G   0% /dev/shm
tmpfs            5.0M  4.0K  5.0M   1% /run/lock
tmpfs            775M  4.7M  771M   1% /run/user/1000
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$ df -m
Filesystem      1M-blocks      Used Available Use% Mounted on
tmpfs            775          3         773   1% /run
/dev/nvme0n1p6  77136 15069     58105  21% /
tmpfs            3875          0      3875   0% /dev/shm
tmpfs            5            1          5   1% /run/lock
tmpfs            775          5         771   1% /run/user/1000
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$ df -k
Filesystem      1K-blocks      Used Available Use% Mounted on
tmpfs            793496         2112       791384   1% /run
/dev/nvme0n1p6  78986876 15429956 59498860  21% /
tmpfs            3967464          0     3967464   0% /dev/shm
tmpfs            5120           4         5116   1% /run/lock
tmpfs            793492        4740       788752   1% /run/user/1000
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$ df -T
Filesystem      Type  1K-blocks      Used Available Use% Mounted on
tmpfs            tmpfs  793496         2112       791384   1% /run
/dev/nvme0n1p6  ext4   78986876 15429956 59498860  21% /
tmpfs            tmpfs  3967464          0     3967464   0% /dev/shm
tmpfs            tmpfs   5120           4         5116   1% /run/lock
tmpfs            tmpfs  793492        4740       788752   1% /run/user/1000
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$
```

19) du

```
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$ du /home/hariom/Desktop/112103048/
16      /home/hariom/Desktop/112103048/dir1
36      /home/hariom/Desktop/112103048/
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$ du -s
16      .
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$ du -m
1      .
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$ du -k
16      .
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$ du -h
16K     .
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$
```

20) diff

```
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$ cat file1.txt
Hello, my name is Shrikant.
:wq
This will get in file1.
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$ cat file2.txt
This will get in file2.
Hello, my name is Shrikant.
:wq
This will get in file1.
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$ diff file1.txt file2.txt
0a1
> This will get in file2.
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$ diff -c file1.txt file2.txt
*** file1.txt      2023-02-05 16:23:43.599797308 +0530
--- file2.txt      2023-02-05 16:10:02.068910882 +0530
*****
*** 1,3 ***
--- 1,4 ----
+ This will get in file2.
  Hello, my name is Shrikant.
  :wq
  This will get in file1.
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$ diff -u file1.txt file2.txt
--- file1.txt      2023-02-05 16:23:43.599797308 +0530
+++ file2.txt      2023-02-05 16:10:02.068910882 +0530
@@ -1,3 +1,4 @@
+This will get in file2.
  Hello, my name is Shrikant.
  :wq
  This will get in file1.
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$
```

21) tar


```

hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ ls
dir1  file1.txt  file3.txt  linux.txt  mergedFile.txt
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ tar -cvf newArchive.tar /home/hariom/Desktop/112103048/dir1
tar: Removing leading '/' from member names
/home/hariom/Desktop/112103048/dir1/
/home/hariom/Desktop/112103048/dir1/file1.txt
/home/hariom/Desktop/112103048/dir1/shri
/home/hariom/Desktop/112103048/dir1/file2.txt
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ █

```

22) zip,unzip

```

hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ ls
dir1  file1.txt  file3.txt  linux.txt  mergedFile.txt  newArchive.tar
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ zip newZip.zip /home/hariom/Desktop/112103048/dir1
  adding: home/hariom/Desktop/112103048/dir1/ (stored 0%)
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ ls
dir1  file1.txt  file3.txt  linux.txt  mergedFile.txt  newArchive.tar  newZip.zip
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ unzip newZip.zip
Archive:  newZip.zip
  creating: home/hariom/Desktop/112103048/dir1/
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ ls
dir1  file1.txt  file3.txt  home  linux.txt  mergedFile.txt  newArchive.tar  newZip.zip
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ █

```

23) sudo

```

abhishek@DESKTOP-JFQGD3E:~/112103130$ sudo apt install zip
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  unzip
The following NEW packages will be installed:
  unzip zip
0 upgraded, 2 newly installed, 0 to remove and 71 not upgraded.
Need to get 350 kB of archives.
After this operation, 929 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 unzip amd64 6.0-26ubuntu3.1 [174 kB]
Get:2 http://archive.ubuntu.com/ubuntu jammy/main amd64 zip amd64 3.0-12build2 [176 kB]
Fetched 350 kB in 3s (140 kB/s)
Selecting previously unselected package unzip.
(Reading database ... 29775 files and directories currently installed.)
Preparing to unpack .../unzip_6.0-26ubuntu3.1_amd64.deb ...
Unpacking unzip (6.0-26ubuntu3.1) ...
Selecting previously unselected package zip.
Preparing to unpack .../zip_3.0-12build2_amd64.deb ...
Unpacking zip (3.0-12build2) ...
Setting up unzip (6.0-26ubuntu3.1) ...
Setting up zip (3.0-12build2) ...
Processing triggers for man-db (2.10.2-1) ...
abhishek@DESKTOP-JFQGD3E:~/112103130$ █

```

24) chmod

```

hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ ls
dir1 file1.txt file3.txt home linux.txt mergedFile.txt newArchive.tar newZip.zip
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ cd dir1
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$ ls
file1.txt file2.txt shri
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$ ls -l
total 12
-rwxrw-r-- 1 hariom hariom 56 Feb  5 16:23 file1.txt
-rw-rw-r-- 1 hariom hariom 80 Feb  5 16:10 file2.txt
-rw-rw-r-- 1 hariom hariom  6 Feb  5 16:50 shri
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$ chmod +x file2.txt
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$ ls -l
total 12
-rwxrw-r-- 1 hariom hariom 56 Feb  5 16:23 file1.txt
-rwxrwxr-x 1 hariom hariom 80 Feb  5 16:10 file2.txt
-rw-rw-r-- 1 hariom hariom  6 Feb  5 16:50 shri
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$ chmod +777 file1.txt
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$ ls -l
total 12
-rwxrwxrwx 1 hariom hariom 56 Feb  5 16:23 file1.txt
-rwxrwxr-x 1 hariom hariom 80 Feb  5 16:10 file2.txt
-rw-rw-r-- 1 hariom hariom  6 Feb  5 16:50 shri
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$ chmod -311 file2.txt
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$ ls -l
total 12
-rwxrwxrwx 1 hariom hariom 56 Feb  5 16:23 file1.txt
-r--rw-r-- 1 hariom hariom 80 Feb  5 16:10 file2.txt
-rw-rw-r-- 1 hariom hariom  6 Feb  5 16:50 shri
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$

```

25) hostname

```

hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$ hostname
hariom-Lenovo-V14-IIL
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048/dir1$

```

26) ifconfig

```

eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 172.26.206.43 netmask 255.255.240.0 broadcast 172.26.207.255
    inet6 fe80::215:5dff:fef6:8b0d prefixlen 64 scopeid 0x20<link>
    ether 00:15:5d:f6:8b:0d txqueuelen 1000 (Ethernet)
    RX packets 7709 bytes 6363223 (6.3 MB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 2016 bytes 142622 (142.6 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
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

```

27) free

```
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ free
              total        used        free      shared  buff/cache   available
Mem:          7934932      1239824      3679436       271964       3015672      6155836
Swap:         15624188           0       15624188
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ free -m
              total        used        free      shared  buff/cache   available
Mem:           7748         1208         3592         268         2948         6010
Swap:         15257           0         15257
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ free -k
              total        used        free      shared  buff/cache   available
Mem:          7934932      1234324      3681236      275548       3019372      6157752
Swap:         15624188           0       15624188
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$ free -b
              total        used        free      shared  buff/cache   available
Mem:      8125370368  1260711936  3772862464  282095616  3091795968  6308839424
Swap:     15999168512           0  15999168512
hariom@hariom-Lenovo-V14-IIL:~/Desktop/112103048$
```

28) watch

```
Every 2.0s: free                                     hariom-Lenovo-V14-IIL: Sun Feb  5 19:17:55 2023
              total        used        free      shared  buff/cache   available
Mem:          7934932      1246372      3671764      272376       3016796      6148860
Swap:         15624188           0       15624188
```

```
Every 2.0s: free -b                                   hariom-Lenovo-V14-IIL: Sun Feb  5 19:18:46 2023
              total        used        free      shared  buff/cache   available
Mem:      8125370368  1283452928  3748614144  282488832  3093303296  6285643776
Swap:     15999168512           0  15999168512
```

29) cal

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		1	2	3	4	5	6					1	2	3
2	3	4	5	6	7	8	7	8	9	10	11	12	13	4	5	6	7	8	9	10
9	10	11	12	13	14	15	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					1	2	3						1	2
2	3	4	5	6	7	8	6	7	8	9	10	11	12	3	4	5	6	7	8	9
9	10	11	12	13	14	15	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							
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

```
abhishek@DESKTOP-JFQGD3E:~$ ls /home/
abhishek
abhishek@DESKTOP-JFQGD3E:~$ sudo useradd vampire -m
abhishek@DESKTOP-JFQGD3E:~$ sudo passwd vampire
New password:
Retype new password:
passwd: password updated successfully
abhishek@DESKTOP-JFQGD3E:~$
```

31) userdel

```
abhishek@DESKTOP-JFQGD3E:~$ ls /home/
abhishek  vampire
abhishek@DESKTOP-JFQGD3E:~$ sudo userdel -r vampire
userdel: vampire mail spool (/var/mail/vampire) not found
abhishek@DESKTOP-JFQGD3E:~$ ls /home/
abhishek
abhishek@DESKTOP-JFQGD3E:~$
```

32) top


```

abhishek@DESKTOP-3FQGD3E:~$ top
top - 16:25:37 up 2:25, 0 users, load average: 0.00, 0.00, 0.01
Tasks: 5 total, 1 running, 4 sleeping, 0 stopped, 0 zombie
%Cpu(s): 0.0 us, 0.0 sy, 0.0 ni,100.0 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
MiB Mem : 6132.5 total, 5643.1 free, 89.0 used, 400.4 buff/cache
MiB Swap: 2048.0 total, 2048.0 free, 0.0 used, 5823.0 avail Mem

  PID USER      PR  NI  VIRT  RES  SHR S %CPU  %MEM    TIME+  COMMAND
    1 root        20   0   1392   776   476 S   0.0   0.0   0:01.94 init
  1768 root        20   0   1740   720    20 S   0.0   0.0   0:00.00 init
  1769 root        20   0   1740   720    20 S   0.0   0.0   0:00.16 init
  1770 abhishek    20   0   6204  5276  3516 S   0.0   0.1   0:00.19 bash
  1842 abhishek    20   0   7804  3756  3156 R   0.0   0.1   0:00.01 top

```

33) ping

```

abhishek@DESKTOP-3FQGD3E:~$ ping www.instagram.com
PING z-p42-instagram.c10r.instagram.com (157.240.237.174) 56(84) bytes of data:
64 bytes from instagram-p42-shv-02-pnq1.fbcdn.net (157.240.237.174): icmp_seq=1 ttl=50 time=61.0 ms
64 bytes from instagram-p42-shv-02-pnq1.fbcdn.net (157.240.237.174): icmp_seq=2 ttl=50 time=63.8 ms
64 bytes from instagram-p42-shv-02-pnq1.fbcdn.net (157.240.237.174): icmp_seq=3 ttl=50 time=57.7 ms
64 bytes from instagram-p42-shv-02-pnq1.fbcdn.net (157.240.237.174): icmp_seq=4 ttl=50 time=60.2 ms
64 bytes from instagram-p42-shv-02-pnq1.fbcdn.net (157.240.237.174): icmp_seq=5 ttl=50 time=59.2 ms
64 bytes from instagram-p42-shv-02-pnq1.fbcdn.net (157.240.237.174): icmp_seq=6 ttl=50 time=52.8 ms
64 bytes from instagram-p42-shv-02-pnq1.fbcdn.net (157.240.237.174): icmp_seq=7 ttl=50 time=72.8 ms
64 bytes from instagram-p42-shv-02-pnq1.fbcdn.net (157.240.237.174): icmp_seq=8 ttl=50 time=78.9 ms
64 bytes from instagram-p42-shv-02-pnq1.fbcdn.net (157.240.237.174): icmp_seq=9 ttl=50 time=53.0 ms
64 bytes from instagram-p42-shv-02-pnq1.fbcdn.net (157.240.237.174): icmp_seq=10 ttl=50 time=70.9 ms
64 bytes from instagram-p42-shv-02-pnq1.fbcdn.net (157.240.237.174): icmp_seq=11 ttl=50 time=91.5 ms
64 bytes from instagram-p42-shv-02-pnq1.fbcdn.net (157.240.237.174): icmp_seq=12 ttl=50 time=84.3 ms
64 bytes from instagram-p42-shv-02-pnq1.fbcdn.net (157.240.237.174): icmp_seq=13 ttl=50 time=66.0 ms
64 bytes from instagram-p42-shv-02-pnq1.fbcdn.net (157.240.237.174): icmp_seq=14 ttl=50 time=80.7 ms
64 bytes from instagram-p42-shv-02-pnq1.fbcdn.net (157.240.237.174): icmp_seq=15 ttl=50 time=90.2 ms
64 bytes from instagram-p42-shv-02-pnq1.fbcdn.net (157.240.237.174): icmp_seq=16 ttl=50 time=77.7 ms
64 bytes from instagram-p42-shv-02-pnq1.fbcdn.net (157.240.237.174): icmp_seq=17 ttl=50 time=76.3 ms
64 bytes from instagram-p42-shv-02-pnq1.fbcdn.net (157.240.237.174): icmp_seq=18 ttl=50 time=74.5 ms
64 bytes from instagram-p42-shv-02-pnq1.fbcdn.net (157.240.237.174): icmp_seq=19 ttl=50 time=72.4 ms
64 bytes from instagram-p42-shv-02-pnq1.fbcdn.net (157.240.237.174): icmp_seq=20 ttl=50 time=71.0 ms
64 bytes from instagram-p42-shv-02-pnq1.fbcdn.net (157.240.237.174): icmp_seq=21 ttl=50 time=69.1 ms
64 bytes from instagram-p42-shv-02-pnq1.fbcdn.net (157.240.237.174): icmp_seq=22 ttl=50 time=73.0 ms
64 bytes from instagram-p42-shv-02-pnq1.fbcdn.net (157.240.237.174): icmp_seq=23 ttl=50 time=73.1 ms
64 bytes from instagram-p42-shv-02-pnq1.fbcdn.net (157.240.237.174): icmp_seq=24 ttl=50 time=68.0 ms
64 bytes from instagram-p42-shv-02-pnq1.fbcdn.net (157.240.237.174): icmp_seq=25 ttl=50 time=67.7 ms
64 bytes from instagram-p42-shv-02-pnq1.fbcdn.net (157.240.237.174): icmp_seq=26 ttl=50 time=67.1 ms
64 bytes from instagram-p42-shv-02-pnq1.fbcdn.net (157.240.237.174): icmp_seq=27 ttl=50 time=63.7 ms
64 bytes from instagram-p42-shv-02-pnq1.fbcdn.net (157.240.237.174): icmp_seq=28 ttl=50 time=68.0 ms
64 bytes from instagram-p42-shv-02-pnq1.fbcdn.net (157.240.237.174): icmp_seq=29 ttl=50 time=57.1 ms
64 bytes from instagram-p42-shv-02-pnq1.fbcdn.net (157.240.237.174): icmp_seq=30 ttl=50 time=65.4 ms
64 bytes from instagram-p42-shv-02-pnq1.fbcdn.net (157.240.237.174): icmp_seq=31 ttl=50 time=58.2 ms
64 bytes from instagram-p42-shv-02-pnq1.fbcdn.net (157.240.237.174): icmp_seq=32 ttl=50 time=56.9 ms
64 bytes from instagram-p42-shv-02-pnq1.fbcdn.net (157.240.237.174): icmp_seq=33 ttl=50 time=55.7 ms
64 bytes from instagram-p42-shv-02-pnq1.fbcdn.net (157.240.237.174): icmp_seq=34 ttl=50 time=54.7 ms
64 bytes from instagram-p42-shv-02-pnq1.fbcdn.net (157.240.237.174): icmp_seq=35 ttl=50 time=87.8 ms

```

34) uname

```

hariom@hariom-Lenovo-V14-IIL:~$ uname
Linux
hariom@hariom-Lenovo-V14-IIL:~$ uname -a
Linux hariom-Lenovo-V14-IIL 5.15.0-43-generic #46-Ubuntu SMP Tue Jul 12 10:30:17 UTC 2022 x86_64 x86_64 x86_64 GNU/Linux
hariom@hariom-Lenovo-V14-IIL:~$ uname -s
Linux
hariom@hariom-Lenovo-V14-IIL:~$ uname -n
hariom-Lenovo-V14-IIL
hariom@hariom-Lenovo-V14-IIL:~$

```

35) wget


```

hariom@hariom-Lenovo-V14-IIL:~$ wget https://www.coep.org.in/download/file/fid/7930
--2023-02-05 19:47:46-- https://www.coep.org.in/download/file/fid/7930
Resolving www.coep.org.in (www.coep.org.in)... 210.212.183.5
Connecting to www.coep.org.in (www.coep.org.in)|210.212.183.5|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 348042 (340K) [application/pdf]
Saving to: '7930'

7930                               100%[=====] 339.88K   525KB/s   in 0.6s

2023-02-05 19:47:47 (525 KB/s) - '7930' saved [348042/348042]

hariom@hariom-Lenovo-V14-IIL:~$

```

36) man

```

hariom@hariom-Lenovo-V14-IIL:~$ man sudo
hariom@hariom-Lenovo-V14-IIL:~$

```

```

Activities  Terminal  Feb 5 19:49  en:
hariom@hariom-Lenovo-V14-IIL: ~
SUDO(8)                                     BSD System Manager's Manual                                     SUDO(8)

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 [-ABBEHnPS] [-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 sudoers, which is configured via the file /etc/sudoers, 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 sudoers 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 sudoers policy caches credentials on a per-terminal basis for 15 minutes. See the timestamp_type and timestamp_timeout options in sudoers(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, sudoers(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.

Manual page sudo(8) line 1 (press h for help or q to quit)

```

37) history

```
hariom@hariom-Lenovo-V14-IIL:~$ history
```

```
1  mkdir hari
2  cd hari
3  vi hello.c
4  gcc -g hello.c
5  sudo apt install gcc
6  sudo apt update
7  sudo apt install build-essential
8  clear
9  ls
10 gcc -g hello.c
11 ls
12 vim hello.c
13 vim hariom
14 vi hari
15 vi hello.c
16 vim
17 sudo apt update
18 sudo apt install vim
19 vim
20 sudo apt update
21 sudo apt install vim
22 vim
23 -ls
24 ls
25 vi add.c
26 ls
27 ls -a
28 ls -ls
29 ls -lt
30 vi add.c
31 gcc add.c
32 ./a.out
33 vi add.c
34 gcc add.c
35 ./a.out
36 clear
```

```
hariom@hariom-Lenovo-V14-IIL:~$ history -c
```

```
hariom@hariom-Lenovo-V14-IIL:~$ history
```

```
1  history
```

```
hariom@hariom-Lenovo-V14-IIL:~$
```

38) netstat

```

abhishek@DESKTOP-JFQGD3E: ~$ whatis netstat
netstat (8)                - Print network connections, routing tables, interface statistics, masquerade connections, and multicast memberships
abhishek@DESKTOP-JFQGD3E: ~$ 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
abhishek@DESKTOP-JFQGD3E: ~$ 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
unix  2      [ ACC ]     SEQPACKET  LISTENING     937      /run/WSL/1769_interop
abhishek@DESKTOP-JFQGD3E: ~$ 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
unix  2      [ ACC ]     SEQPACKET  LISTENING     937      /run/WSL/1769_interop
abhishek@DESKTOP-JFQGD3E: ~$ █

```

39) whoami

```

hariom@hariom-Lenovo-V14-IIL: ~$ whoami
hariom
hariom@hariom-Lenovo-V14-IIL: ~$ █

```

40) exit

```

hariom@hariom-Lenovo-V14-IIL: ~$ exit

```