```
cdac@GAURAV:~/LinuxAssignment$ ls
cdac@GAURAV:~/LinuxAssignment$ touch file1.txt
cdac@GAURAV:~/LinuxAssignment$ ls
file1.txt
cdac@GAURAV:~/LinuxAssignment$ cat >file1.txt
hello
hii
good morning
good work
welcome
cdac
kharghar^C
cdac@GAURAV:~/LinuxAssignment$ cat file1.txt
hello
hii
good morning
good work
welcome
cdac
khargharcdac@GAURAV:~/LinuxAssignment$ mkdir /docs
mkdir: cannot create directory '/docs': Permission denied
cdac@GAURAV:~/LinuxAssignment$ mkdir docs
cdac@GAURAV:~/LinuxAssignment$ cd docs
cdac@GAURAV:~/LinuxAssignment/docs$ cd ..
cdac@GAURAV:~/LinuxAssignment$ cp file1.txt docs / file2.txt
cp: target 'file2.txt' is not a directory
cdac@GAURAV:~/LinuxAssignment$ cp file1.txt docs/file2.txt
cdac@GAURAV:~/LinuxAssignment$ cat file2.txt
cat: file2.txt: No such file or directory
cdac@GAURAV:~/LinuxAssignment$ cd docs
cdac@GAURAV:~/LinuxAssignment/docs$ cat file2.txt
hello
hii
good morning
good work
welcome
cdac
cdac@GAURAV:~/LinuxAssignment/docs$ ls l
ls: cannot access 'l': No such file or directory
cdac@GAURAV:~/LinuxAssignment/docs$ ls -l
total 4
-rw-r--r-- 1 cdac cdac 57 Aug 28 18:38 file2.txt
cdac@GAURAV:~/LinuxAssignment/docs$ chmod 744  file2.txt
cdac@GAURAV:~/LinuxAssignment/docs$ ls -l
total 4
-rwxr--r-- 1 cdac cdac 57 Aug 28 18:38 file2.txt
cdac@GAURAV:~/LinuxAssignment/docs$ chown  $(whoami) file2.txt
cdac@GAURAV:~/LinuxAssignment/docs$ ls -l
total 4
```

```
total 4
-rwxr--r-- 1 cdac cdac 57 Aug 28 18:38 file2.txt
cdac@GAURAV:~/LinuxAssignment/docs$ ls -l/
ls: invalid option -- '/'
Try 'ls --help' for more information.
cdac@GAURAV:~/LinuxAssignment/docs$ ls -l /
total 1428
lrwxrwxrwx   1 root root        7 Nov 23  2023 bin -> usr/bin
drwxr-xr-x   2 root root     4096 Apr 18  2022 boot
drwxr-xr-x   9 root root     2820 Aug 28 18:50 dev
drwxr-xr-x  73 root root     4096 Aug 28 17:44 etc
drwxr-xr-x   4 root root     4096 Aug 28 09:51 home
-rwxr-xr-x   2 root root 1392816 Dec 16  2022 init
lrwxrwxrwx   1 root root        7 Nov 23  2023 lib -> usr/lib
lrwxrwxrwx   1 root root        9 Nov 23  2023 lib32 -> usr/lib32
lrwxrwxrwx   1 root root        9 Nov 23  2023 lib64 -> usr/lib64
lrwxrwxrwx   1 root root       10 Nov 23  2023 libx32 -> usr/libx32
drwx------   2 root root    16384 Apr 10  2019 lost+found
drwxr-xr-x   2 root root     4096 Nov 23  2023 media
drwxr-xr-x   7 root root     4096 Aug 27 22:37 mnt
drwxr-xr-x   2 root root     4096 Nov 23  2023 opt
dr-xr-xr-x 171 root root        0 Aug 28 17:44 proc
drwx------   2 root root     4096 Nov 23  2023 root
drwxr-xr-x   6 root root      120 Aug 28 17:44 run
lrwxrwxrwx   1 root root        8 Nov 23  2023 sbin -> usr/sbin
drwxr-xr-x   8 root root     4096 Nov 23  2023 snap
drwxr-xr-x   2 root root     4096 Nov 23  2023 srv
dr-xr-xr-x  11 root root        0 Aug 28 17:44 sys
drwxrwxrwt   2 root root     4096 Aug 28 00:17 tmp
drwxr-xr-x  14 root root     4096 Nov 23  2023 usr
drwxr-xr-x  13 root root     4096 Nov 23  2023 var
cdac@GAURAV:~/LinuxAssignment/docs$ ls -l ~/LinuxAssignment
total 8
drwxr-xr-x 2 cdac cdac 4096 Aug 28 18:38 docs
-rw-r--r-- 1 cdac cdac   57 Aug 28 18:22 file1.txt
cdac@GAURAV:~/LinuxAssignment/docs$ find . -type f -name"*.txt"
find: unknown predicate `-name*.txt'
cdac@GAURAV:~/LinuxAssignment/docs$ find . -type f -name "*.txt"
./file2.txt
cdac@GAURAV:~/LinuxAssignment/docs$ gref "kharghar" file2.txt
Command 'gref' not found, did you mean:
  command 'grep' from deb grep (3.7-1build1)
Try: sudo apt install <deb name>
cdac@GAURAV:~/LinuxAssignment/docs$ grep "kharghar" file2.txt
kharghar
cdac@GAURAV:~/LinuxAssignment/docs$ gref "morning" file2.txt
Command 'gref' not found, did you mean:
  command 'grep' from deb grep (3.7-1build1)
Try: sudo apt install <deb name>
```

```
  command 'grep' from deb grep (3.7-1build1)
Try: sudo apt install <deb name>
cdac@GAURAV:~/LinuxAssignment/docs$ grep "morning" file2.txt
good morning
cdac@GAURAV:~/LinuxAssignment/docs$ date
Wed Aug 28 19:12:32 IST 2024
cdac@GAURAV:~/LinuxAssignment/docs$ ip addr show
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
       valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
       valid_lft forever preferred_lft forever
2: bond0: <BROADCAST,MULTICAST,MASTER> mtu 1500 qdisc noop state DOWN group default qlen 1000
    link/ether fa:c0:bc:68:3f:90 brd ff:ff:ff:ff:ff:ff
3: dummy0: <BROADCAST,NOARP> mtu 1500 qdisc noop state DOWN group default qlen 1000
    link/ether 72:03:09:64:d4:a2 brd ff:ff:ff:ff:ff:ff
4: tunl0@NONE: <NOARP> mtu 1480 qdisc noop state DOWN group default qlen 1000
    link/ipip 0.0.0.0 brd 0.0.0.0
5: sit0@NONE: <NOARP> mtu 1480 qdisc noop state DOWN group default qlen 1000
    link/sit 0.0.0.0 brd 0.0.0.0
6: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc mq state UP group default qlen 1000
    link/ether 00:15:5d:b3:95:39 brd ff:ff:ff:ff:ff:ff
    inet 172.30.155.133/20 brd 172.30.159.255 scope global eth0
       valid_lft forever preferred_lft forever
    inet6 fe80::215:5dff:feb3:9539/64 scope link
       valid_lft forever preferred_lft forever
cdac@GAURAV:~/LinuxAssignment/docs$ ping google.com
PING google.com (142.250.199.174) 56(84) bytes of data.
64 bytes from bom07s37-in-f14.1e100.net (142.250.199.174): icmp_seq=1 ttl=110 time=51.2 ms
64 bytes from bom07s37-in-f14.1e100.net (142.250.199.174): icmp_seq=2 ttl=110 time=46.1 ms
64 bytes from bom07s37-in-f14.1e100.net (142.250.199.174): icmp_seq=3 ttl=110 time=83.2 ms
64 bytes from bom07s37-in-f14.1e100.net (142.250.199.174): icmp_seq=4 ttl=110 time=68.3 ms
64 bytes from bom07s37-in-f14.1e100.net (142.250.199.174): icmp_seq=5 ttl=110 time=41.7 ms
64 bytes from bom07s37-in-f14.1e100.net (142.250.199.174): icmp_seq=6 ttl=110 time=89.2 ms
64 bytes from bom07s37-in-f14.1e100.net (142.250.199.174): icmp_seq=7 ttl=110 time=65.0 ms
64 bytes from bom07s37-in-f14.1e100.net (142.250.199.174): icmp_seq=8 ttl=110 time=62.0 ms

--- google.com ping statistics ---
^C8 packets transmitted, 8 received, 0% packet loss, time 7010ms
rtt min/avg/max/mdev = 41.704/63.323/89.219/15.842 ms
cdac@GAURAV:~/LinuxAssignment/docs$ zip -r docs.zip docs
Command 'zip' not found, but can be installed with:
sudo apt install zip
cdac@GAURAV:~/LinuxAssignment/docs$ sudo apt install zip
[sudo] password for cdac:
Reading package lists... Done
Building dependency tree... Done
Reading state information... 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 0 not upgraded.
Need to get 350 kB of archives.
After this operation, 930 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 6.0-26ubuntu3.2 [175 kB]
Get:2 http://archive.ubuntu.com/ubuntu jammy/main amd64 zip amd64 3.0-12build2 [176 kB]
Fetched 350 kB in 6s (59.4 kB/s)
Selecting previously unselected package unzip.
(Reading database ... 24242 files and directories currently installed.)
Preparing to unpack .../unzip_6.0-26ubuntu3.2_amd64.deb ...
Unpacking unzip (6.0-26ubuntu3.2) ...
Selecting previously unselected package zip.
Preparing to unpack .../zip_3.0-12build2_amd64.deb ...
Unpacking zip (3.0-12build2) ...
Setting up unzip (6.0-26ubuntu3.2) ...
Setting up zip (3.0-12build2) ...
Processing triggers for man-db (2.10.2-1) ...
cdac@GAURAV:~/LinuxAssignment/docs$ zip -r docs.zip docs
        zip warning: name not matched: docs

zip error: Nothing to do! (try: zip -r docs.zip . -i docs)
cdac@GAURAV:~/LinuxAssignment/docs$ cd ..
cdac@GAURAV:~/LinuxAssignment$ zip -r docs.zip docs
  adding: docs/ (stored 0%)
  adding: docs/file2.txt (deflated 7%)
cdac@GAURAV:~/LinuxAssignment$ mkdir extracted_docs
cdac@GAURAV:~/LinuxAssignment$ unzip docs.zip -d extracted_docs
Archive:  docs.zip
   creating: extracted_docs/docs/
  inflating: extracted_docs/docs/file2.txt
cdac@GAURAV:~/LinuxAssignment$ nano file1.txt
cdac@GAURAV:~/LinuxAssignment$ cat file1.txt
hello
hii
good morning
good work
welcome
cdac
kharghar
new added lines
recently add line for k question
cdac@GAURAV:~/LinuxAssignment$ sed -i 's/welcome/Gaurav/g' file1.txt
cdac@GAURAV:~/LinuxAssignment$ cat file1.txt
hello
```

```
cdac@GAURAV:~/LinuxAssignment$ sed -i 's/welcome/Gaurav/g' file1.txt
cdac@GAURAV:~/LinuxAssignment$ cat file1.txt
hello
cdac@GAURAV:~/LinuxAssignment$
good morning
good work
Gaurav
cdac
kharghar
new added lines
recentely add line for k question
cdac@GAURAV:~/LinuxAssignment$
```

```
cdac@GAURAV: ~/LinuxAssignment                                                    —  □  ✕

cdac@GAURAV:~$ pwd
/home/cdac
cdac@GAURAV:~$ mkdir Assignment1
cdac@GAURAV:~$ ls
Assignment1  LinuxAssignment  commands  fruits.txt  harray.txt
HARRAY.TXT   ccat              err.txt   gaurav      result.txt
cdac@GAURAV:~$ cd LinuxAssignment/
cdac@GAURAV:~/LinuxAssignment$ nano data.txt
cdac@GAURAV:~/LinuxAssignment$ cat data.txt
line one
line two
line three
line four
line five
line six
line seven
line eight
line ten
line eleven
line twely

cdac@GAURAV:~/LinuxAssignment$ head data.txt
line one
line two
line three
line four
line five
line six
line seven
line eight
line ten
line eleven
cdac@GAURAV:~/LinuxAssignment$ nano data.txt
cdac@GAURAV:~/LinuxAssignment$ head data.txt
line one
line two
line three
line four
line five
line six
line seven
line eight
line nine
line ten
cdac@GAURAV:~/LinuxAssignment$ _
```

```
line nine
line ten
cdac@GAURAV:~/LinuxAssignment$ tail -5 data.txt
line nine
line ten
line eleven
line twely

cdac@GAURAV:~/LinuxAssignment$ tail -n 5 data.txt
line nine
line ten
line eleven
line twely

cdac@GAURAV:~/LinuxAssignment$ tail -n 4 data.txt
line ten
line eleven
line twely

cdac@GAURAV:~/LinuxAssignment$ tail  data.txt
line four
line five
line six
line seven
line eight
line nine
line ten
line eleven
line twely

cdac@GAURAV:~/LinuxAssignment$ cat data.txt
line one
line two
line three
line four
line five
line six
line seven
line eight
line nine
line ten
line eleven
line twely

cdac@GAURAV:~/LinuxAssignment$
```

```
cdac@GAURAV:~/LinuxAssignment$ cat > number.txt
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15/n

^C
cdac@GAURAV:~/LinuxAssignment$ cat number.txt
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15/n

cdac@GAURAV:~/LinuxAssignment$ head number.txt
1
2
3
4
5
6
7
8
9
10
cdac@GAURAV:~/LinuxAssignment$
```

```
cdac@GAURAV:~/LinuxAssignment$ tail -n 5 number.text
tail: cannot open 'number.text' for reading: No such file or directory
cdac@GAURAV:~/LinuxAssignment$ tail -n 5 number.txt
12
13
14
15/n

cdac@GAURAV:~/LinuxAssignment$
```