1. ls

```
shubham@D3-Shubham-92819:-/Downloads/OS/Assignments/SDM/Assignment-3$ ls
file10.txt file1.txt file2.txt file3.txt file4.txt file5.txt file6.txt file7.txt file8.txt file9.txt
```

2.renameRename all *.txt files to *.htm

```
shubham@D3-Shubham-92819:-/Downloads/OS/Assignments/SDM/Assignment-3$ rename 's/\.txt$/.html/' *.txt
shubham@D3-Shubham-92819:-/Downloads/OS/Assignments/SDM/Assignment-3$ ls
file10.html file1.html file2.html file3.html file4.html file5.html file6.html file7.html file8.html file9.html
```

3.In -sCreate symbolic link (shortcut) for a file

```
shubham@D3-Shubham-92819:-/Downloads/O5/Assignments/SDM/Assignment-3$ ln -s file1.html symlink.html
shubham@D3-Shubham-92819:-/Downloads/O5/Assignments/SDM/Assignment-3$ ls
file10.html file1.html file2.html file3.html file4.html file5.html file6.html file6.html file7.html file8.html file9.html symlink.html
```

4.InCreate hard link for a file

```
shubham@D3-Shubham-92819:-/Downloads/OS/Assignments/SDM/Assignment-3$ In file2.html hardlink.html shubham@D3-Shubham-92819:-/Downloads/OS/Assignments/SDM/Assignment-3$ Is file10.html file2.html file3.html file3.html file4.html file5.html file5.html file6.html file6.html file6.html file7.html file6.html file6.html file7.html file6.html file6.html file6.html file7.html file
```

5.statDisplay time stamp of the file

6.touchChange the time stamp of the file

```
shubham@D3-Shubham-92819:-/Downloads/OS/Assignments/SDM/Assignment-3$ touch -t 202510111212.12 file2.txt
shubham@D3-Shubham-92819:-/Downloads/OS/Assignments/SDM/Assignment-3$ ls -l
total 0
-rw-rw-r-- 1 shubham shubham 0 0ct 29 06:37 202510111212.12
-rw-rw-rw-r-- 1 shubham shubham 0 0ct 29 06:19 file10.txt
-rw-rw-r-- 1 shubham shubham 0 0ct 11 12:12 file2.txt
-rw-rw-r-- 2 shubham shubham 0 0ct 11 12:12 file2.txt
-rw-rw-r-- 1 shubham shubham 0 0ct 29 06:19 file3.txt
-rw-rw-r-- 1 shubham shubham 0 0ct 29 06:19 file3.txt
-rw-rw-r-- 1 shubham shubham 0 0ct 29 06:19 file5.txt
-rw-rw-r-- 1 shubham shubham 0 0ct 29 06:19 file5.txt
-rw-rw-r-- 1 shubham shubham 0 0ct 29 06:19 file5.txt
-rw-rw-r-- 1 shubham shubham 0 0ct 29 06:19 file5.txt
-rw-rw-r-- 1 shubham shubham 0 0ct 29 06:19 file8.txt
-rw-rw-r-- 1 shubham shubham 0 0ct 29 06:19 file8.txt
-rw-rw-r-- 1 shubham shubham 0 0ct 29 06:19 file8.txt
-rw-rw-r-- 2 shubham shubham 0 0ct 29 06:19 file8.txt
-rw-rw-r-- 2 shubham shubham 0 0ct 29 06:19 file8.txt
-rw-rw-r-- 2 shubham shubham 0 0ct 29 06:19 file8.txt
-rw-rw-r-- 2 shubham shubham 0 0ct 29 06:28 symlink.txt -> file1.html
shubham@D3-Shubham-92819:-/Downloads/05/Assignments/SDM/Assignment-3$
```

7.touchCreate empty file

```
shubhane03-shubhan-92819:-/Downloads/OS/Assignments/SDW/Assignment-15 touch demo.txt shubhane03-shubhan-92819:-/Downloads/OS/Assignments/SDW/Assignment-15 is 202510111212.12 demo.txt file1.txt file1.txt file2.txt file3.txt file6.txt file6.txt file7.txt file8.txt file9.txt hardlink.txt symlishubhane03-shubhan-92819:-/Downloads/OS/Assignments/SDW/Assignment-15 [
```

8.tailPrint all lines in a file from fifth line onwards

```
shubham@D3-Shubham-92819:-/Downloads/OS/Assignments/SDM/Assignment-3$ tail -n +5 demo.txt
piyu
om
omkar
abhi
pote
nana
didi
ram
shaym
dev
opchat
karan
shubham@D3-Shubham-92819:-/Downloads/OS/Assignments/SDM/Assignment-3$
```

9.init 0, poweroffShutdown (Only for super-user)

10.init 6, rebootReboot (Only for super-user)

12.whoamiFind current user

```
wnotam: Command not round
shubham@D3-Shubham-92819:-/Downloads/OS/Assignments/SDM/Assignment-3$ whoami
shubham
shubham-92819:-/Downloads/OS/Assignments/SDM/Assignment-3$
```

13.ttyFind current terminal

```
SHUDHAM
Shubham-92819:-/Downloads/OS/Assignments/SDM/Assignment-3$ tty
/dev/pts/0
shubham@D3-Shubham-92819:-/Downloads/OS/Assignments/SDM/Assignment-3$
```

14.who am iFind current user and terminal

```
shubham@D3-Shubham-92819:-/Downloads/O5/Assignments/SDM/Assignment-3$
shubham@D3-Shubham-92819:-/Downloads/O5/Assignments/SDM/Assignment-3$ whoamt
shubham
shubham - 20019:-/Downloads/O5/Assignments/SDM/Assignment-3$ acho SUSED
```

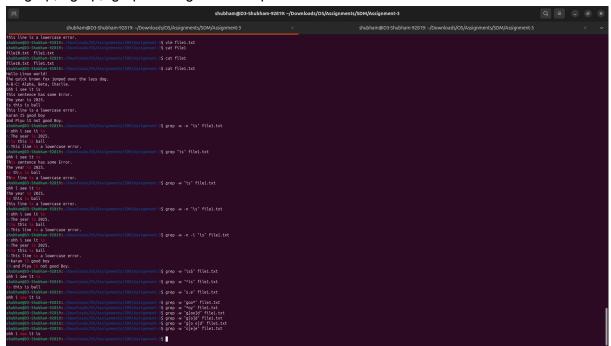
15.usersFind all users logged into the system

```
shubham@D3-Shubham-92819:-/Downloads/O5/Assignments/SDM/Assignment-3$ users
shubham@D3-Shubham-92819:-/Downloads/O5/Assignments/SDM/Assignment-3$
shubham@D3-Shubham-92819:-/Downloads/O5/Assignments/SDM/Assignment-3$
```

16.whoFind all users logged in and terminals in use

```
shubham@D3-Shubham-92819:-/Downloads/OS/Assignments/SDM/Assignment-3$ who shubham seat0 2025-10-25 18:28 (login screen) shubham tty2 2025-10-25 18:28 (tty2) shubham@D3-Shubham-92819:-/Downloads/OS/Assignments/SDM/Assignment-3$
```

17.grep, egrep, fgrepFind a given word/pattern from the file



```
shubham@03-Shubham-92819:-/Downloads/OS/Assignments/SDM/Assignment-3$ egrep "dac" file2.txt
dac
dacCshubham@03-Shubham-92819:-/Downloads/OS/Assignments/SDM/Assignment-3$ egrep "da+c" file2.txt
dac
dasac
dasac
dasac
daccc
shubham@03-Shubham-92819:-/Downloads/OS/Assignments/SDM/Assignment-3$ egrep "da?c" file2.txt
dac
daccc
shubham@03-Shubham-92819:-/Downloads/OS/Assignments/SDM/Assignment-3$ egrep "da(2)c" file2.txt
dac
daccc
shubham@03-Shubham-92819:-/Downloads/OS/Assignments/SDM/Assignment-3$ egrep "da(3)c" file2.txt
daac
shubham@03-Shubham-92819:-/Downloads/OS/Assignments/SDM/Assignment-3$ egrep "da(4)c" file2.txt
daac
dasaac
shubham@03-Shubham-92819:-/Downloads/OS/Assignments/SDM/Assignment-3$ egrep "da(2,)c" file2.txt
daac
daaaac
shubham@03-Shubham-92819:-/Downloads/OS/Assignments/SDM/Assignment-3$ egrep "da(4,4)c" file2.txt
dac
daac
daaaac
shubham@03-Shubham-92819:-/Downloads/OS/Assignments/SDM/Assignment-3$ egrep "da(2,4)c" file2.txt
dac
daac
daacc
daacc
daacc
daacc
shubham@03-Shubham-92819:-/Downloads/OS/Assignments/SDM/Assignment-3$ egrep "da(2,4)c" file2.txt
dac
daacc
daacc
shubham@03-Shubham-92819:-/Downloads/OS/Assignments/SDM/Assignment-3$ egrep "da(1,4)c" file2.txt
dac
daacc
shubham@03-Shubham-92819:-/Downloads/OS/Assignments/SDM/Assignment-3$ egrep "da(1,4)c" file2.txt
dac
daacc
shubham@03-Shubham-92819:-/Downloads/OS/Assignments/SDM/Assignment-3$ egrep "da(1,4)c" file2.txt
daccc
```

```
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment-3$ fgrep "dac" file2.txt
dac
dacccc
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment-3$
```

18.chmodMake a file as read-only

```
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment-3$ chmod 0444 file3.txt
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment-3$ ls -l file3.txt
-r--r--- 1 shubham shubham 0 Oct 29 06:19 file3.txt
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment-3$
```

19.chmodMake a file as write, read and execute

```
shubham@D3-Shubham-92819:-/Downloads/05/Assignments/SDM/Assignment-3$
shubham@D3-Shubham-92819:-/Downloads/O5/Assignments/SDM/Assignment-3$ ls -l file3.txt
-rwxrwxrwx 1 shubham shubham 0 Oct 29 06:19 file3.txt
shubham@D3-Shubham-92819:-/Downloads/O5/Assignments/SDM/Assignment-3$
```

20.wc (using redirection) Take input from the file, count words and store output to other file

```
shubham@D3-Shubham-92819:-/Downloads/O5/Assignments/SDM/Assignment-3$ wc file1.txt
10 50 250 file1.txt
shubham@D3-Shubham-92819:-/Downloads/O5/Assignments/SDM/Assignment-3$ wc file1.txt > wordcount_file1.txt
shubham@D3-Shubham-92819:-/Downloads/O5/Assignments/SDM/Assignment-3$ cat wordcount_file1.txt
10 50 250 file1.txt
shubham@D3-Shubham-92819:-/Downloads/O5/Assignments/SDM/Assignment-3$
```

21.who | wc (using pipe)Count words in output of "who" command

22.head, tail (using pipe)Print lines 5 to 10 from the given file

```
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment-3$ cat -n file2.txt
    1 dac
       daac
       daaac
    4 dmc
    5 dmmc
    6 dmmmc
     7 dmmmmc
    8 daaaaac
    9 dacccc
   10 dec
   11 deec]
    12 decccc
    13 deeec
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment-3$ head -n 10 file2.txt
dmmmmc
daaaaac
dacccc
dec
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment-3$
```

23.sort, uniq (using pipe)Print the uniq values from the unsorted file

```
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment-3$ cat -n file2.txt
    1 dac
    2 daac
    3 daaac
    4 daaac
    5 dmc
       dmmc
       dmmmc
    8 dmmmc
    9 dmmmmc
    10 daaaaac
    11 dacccc
   12 dac
   13 dec
   14 deec]
    15
       decccc
    16
       deeec
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment-3$ sort file2.txt | uniq
daaaaac
daaac
daac
dac
dacccc
dec
decccc
deec]
deeec
dmc
dmmc
dmmmc
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment-3$
```

24.who, grep (using pipe)Display all users not using tty2, tty3, tty4

25.IsDisplay all files in ascending order of their file size

```
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment-3$ ls -1 -s -r -S
total 20
0 file9.txt
0 file8.txt
0 file7.txt
0 file6.txt
0 file5.txt
0 file4.txt
0 file3.txt
0 file10.txt
0 202510111212.12
4 wordcount_file1.txt
4 demo.txt
4 hardlink.txt
4 file2.txt
4 file1.txt
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment-3$
```

26.ls, grep (using pipe)Count number of files and directories from current directory

27.ls, grep (using pipe)Display only hidden files in a directory

```
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment-3$ ls -a | grep '^\.'
```

28.trConvert file contents into uppercase, also learn "-s" option of this command

29.cutSplit the file contents using delimiter and print required fields

```
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment-3$ cat file1.txt
Hello Linux world!
The quick brown fox jumped over the lazy dog.
A-B-C: Alpha, Beta, Charlie. ohh i see it is
This sentence has some Error.
The year is 2025.
is this is ball
This line is a lowercase error.
karan IS good boy
and Piyu iS not good Boy.
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment-3$ cut -c 5-15 file1.txt
o Linux wor
quick brown
C: Alpha, B
i see it is
sentence h
year is 202
his is ball
line is a
n IS good b
Piyu iS not
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment-3$
```