# Os Assignment 3

# 1.ls -a: Display hidden files

```
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_05/assignment$ ls -a
... data.txt demo.vimrc myfile.txt my.txt names.txt one shell-files user1.txt user2.txt users
```

### 2.rename: Rename all \*.txt files to \*.htm

```
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_0S/assignment$ mv my.txt my.html
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_0S/assignment$ ls
data.txt demo.vimrc myfile.txt my.html names.txt one shell-files user_1.txt user2.txt users
```

# 3.In -s: Create symbolic link (shortcut) for a file

```
        kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment$ ln -s my.html slink.html

        kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment$ ls -li

        total 4

        489575 -rw-rw-r-- 1 kedar kedar
        0 Oct 27 16:05 data.txt

        489607 -rw-rw-r-- 1 kedar kedar
        276 Oct 27 18:51 demo.vimrc

        489577 -rw-rw-r-- 1 kedar kedar
        37 Oct 27 2023 myfile.txt

        489574 -rw-rw-r-- 1 kedar kedar
        0 Oct 27 16:05 my.html

        489591 -rw-rw-r-- 1 kedar kedar
        45 Oct 27 18:41 names.txt

        489578 drwxrwxr-x 1 kedar kedar
        4096 Oct 27 19:56 shell-files

        489609 drwxrwxr-x 1 kedar kedar
        7 Oct 28 15:29 slink.html -> my.html

        489572 -rw-rw-r-- 1 kedar kedar
        37 Oct 27 15:56 user1.txt

        489573 -rw-rw-r-- 1 kedar kedar
        37 Oct 27 15:57 user2.txt

        489571 drwxrwxr-x 1 kedar kedar
        0 Oct 27 16:18 users
```

#### 4.In : Create hard link for a file

```
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/askedar@D3-Dhananjay-92969:/media/
ignment's ln data.txt Hlink.txt
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment$ ls -li
total 4
489575 -rw-rw-r-- 2 kedar kedar
                                     0 Oct 27 16:05 data.txt
489607 -rw-rw-r-- 1 kedar kedar
                                   276 Oct 27 18:51 demo.vimrc
                                    0 Oct 27 16:05 Hlink.txt
489575 -rw-rw-r-- 2 kedar kedar
489577 -rw-rw-r-- 1 kedar kedar 37 Oct 27 2023 myfile.txt
489574 -rw-rw-r-- 1 kedar kedar 0 Oct 27 16:05 my.html
489591 -rw-rw-r-- 1 kedar kedar 45 Oct 27 18:41 names.txt
489578 drwxrwxr-x 1 kedar kedar 0 Oct 27 16:29 one
489609 drwxrwxr-x 1 kedar kedar 4096 Oct 27 19:56 shell-files
489693 lrwxrwxrwx 1 kedar kedar 7 Oct 28 15:29 slink.htnl -> my.html
489572 -rw-rw-r-- 1 kedar kedar 37 Oct 27 15:56 user1.txt
489573 -rw-rw-r-- 1 kedar kedar 37 Oct 27 15:57 user2.txt
489571 drwxrwxr-x 1 kedar kedar 0 Oct 27 16:18 users
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment$ stat user1.txt
```

### 5.stat : Display time stamp of the file

#### 6.touch: Change the time stamp of the file

```
kedar@D3-Dhananiav-92969:/media/kedar/New Volume/11
                                                   CDAC/07 OS/assignment$ touch user1.txt
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_0S/assignment$ stat user1.txt
 File: user1.txt
 Size: 37
                       Blocks: 0
                                          IO Block: 4096
                                                         regular file
                                  Links: 1
Device: 259,5 Inode: 489572
Access: (0664/-rw-rw-r--) Uid: (1000/ kedar) Gid: (1000/
                                                                 kedar)
Access: 2025-10-28 15:31:42.315237500 +0530
Modify: 2025-10-28 15:31:42.315237500 +0530
Change: 2025-10-28 15:31:42.315237500 +0530
Birth: 2025-10-27 15:56:26.422726000 +0530
```

# 7.touch: Create empty file

kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11\_CDAC/07\_OS/assignment\$ touch new.txt

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

```
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment$ tail -n +5 user1.txt
Pending → Initial state, not fulfilled or rejected yet.
Fulfilled → Operation completed successfully.
Rejected → Operation failed.
Why use Promises?
To handle async code more cleanly.
Avoids callback hell (nested callbacks).
```

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

kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11\_CDAC/07\_0S/assignment\$ init 0

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

kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11\_CDAC/07\_OS/assignment\$ init 6

#### 12.whoami: Find current user

kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11\_CDAC/07\_OS/assignment\$ whoami
kedar

#### 13.ttyFind current terminal

kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11\_CDAC/07\_0S/assignment\$ tty
/dev/pts/0

#### 14.who am i: Find current user and terminal

kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11\_CDAC/07\_OS/assignment\$ who am i

#### 15.users: Find all users logged into the system

kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11\_CDAC/07\_OS/assignment\$ users
kedar kedar

# 16.who: Find all users logged in and terminals in use

# 17.grep, egrep, fgrep: Find a given word/pattern from the file

```
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment$ grep "ful" user1.txt
Pending → Initial state, not fulfilled or rejected yet.
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment$ egrep "ful" user1.txt
Pending → Initial state, not fulfilled or rejected yet.
Fulfilled → Operation completed successfully.
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment$ fgrep "ful" user1.txt
Pending → Initial state, not fulfilled or rejected yet.
Fulfilled → Operation completed successfully.
```

# 18.chmod: Make a file as read-only

kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11\_CDAC/07\_OS/askedar@D3-Dhananjay-92969:/media/kedar/New Volume/11\_CDAC/07\_OS/assignment\$ chmod 444 user1.txt

kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11\_CDAC/07\_0S/assignment\$ ls -li user1.txt
489572 -r--r-- 1 kedar kedar 425 Oct 28 15:33 user1.txt

# 19.chmod: Make a file as write, read and execute

kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11\_CDAC/07\_0S/assignment\$ chmod 777 user1.txt
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11\_CDAC/07\_0S/assignment\$ ls -li user1.txt
489572 -rwxrwxrwx 1 kedar kedar 425 Oct 28 15:33 user1.txt

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

kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11\_CDAC/07\_0S/assignment\$ wc < user1.txt > user2.txt
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11\_CDAC/07\_0S/assignment\$ cat user2.txt
18 65 425

# 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

```
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment$ head -n 10 user1.txt | tail -n 6
Pending → Initial state, not fulfilled or rejected yet.
Fulfilled → Operation completed successfully.
Rejected → Operation failed.
```

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

```
A Promise is an object in JavaScript that represents the result of an asynchronous operation.

Avoids callback hell (nested callbacks).

Fulfilled → Operation completed successfully.

It can be in one of three states:

Makes async code look more synchronous

Pending → Initial state, not fulfilled or rejected yet.

Rejected → Operation failed.

To handle async code more cleanly.

What is a Promise?
```

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

# 25.ls: Display all files in ascending order of their file size

```
      kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_0S/assignment$ ls -lhs

      total 4.0K
      0 -rw-rw-r-- 2 kedar kedar
      0 0ct 27 16:05 data.txt

      0 -rw-rw-r-- 1 kedar kedar
      276 0ct 27 18:51 demo.vimrc

      0 -rw-rw-r-- 2 kedar kedar
      0 0ct 27 16:05 Hlink.txt

      0 -rw-rw-r-- 1 kedar kedar
      37 0ct 27 2023 myfile.txt

      0 -rw-rw-r-- 1 kedar kedar
      0 0ct 27 16:05 my.html

      0 -rw-rw-r-- 1 kedar kedar
      45 0ct 27 18:41 names.txt

      0 drwxrwxr-x 1 kedar kedar
      0 0ct 27 16:29 one

      4.0K drwxrwxr-x 1 kedar kedar 4.0K 0ct 27 19:56 shell-files

      0 lrwxrwxrwx 1 kedar kedar
      7 0ct 28 15:29 slink.html -> my.html

      0 -rw-rw-r-- 1 kedar kedar
      425 0ct 28 15:33 user1.txt

      0 -rw-rw-r-- 1 kedar kedar
      12 0ct 28 15:44 user2.txt
```

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

```
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_0S/assignment$ ls -a | grep -c ""
14
```

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

```
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_05/assignment$ ls -a | grep "^\."
...
```

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

```
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_DS/assignment$ tr 'a-z' 'A-Z' < user1.txt > user2.txt
```

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

```
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_0S/assignment$ cat > users.txt
root:x:0:0:root:/root:/bin/bash
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_0S/assignment$ cut -d':' -f1,3 users.txt
```