

# Assignment 02

1. List the directory contents date wise sorted. ( man ls)?

Ans→ls -lt

```
sboxes@osboxes:~$ ls -lt
total 60
-rw-rw-r-- 1 osboxes osboxes 22 Oct  8 09:29 first.txt
-rw-rw-r-- 1 osboxes osboxes  0 Oct  8 08:18 out.txt
-rw-rw-r-- 1 osboxes osboxes 77 Oct  8 08:06 lserr.txt
-rw-rw-r-- 1 osboxes osboxes 108 Oct  8 08:06 -w
-rw-rw-r-- 1 osboxes osboxes 49 Oct  8 08:05 sorted.txt
-rw-rw-r-- 1 osboxes osboxes 94 Oct  8 08:04 lsout.txt
-rw-rw-r-- 1 osboxes osboxes 49 Oct  8 07:41 numbers.txt
-rwx----- 4 osboxes osboxes 4096 Oct  7 09:04 snap
-rwxr-xr-x 3 osboxes osboxes 4096 Oct  7 08:35 Pictures
-rwxr-xr-x 2 osboxes osboxes 4096 Jun  3 20:20 Desktop
-rwxr-xr-x 2 osboxes osboxes 4096 Jun  3 20:20 Documents
-rwxr-xr-x 2 osboxes osboxes 4096 Jun  3 20:20 Downloads
-rwxr-xr-x 2 osboxes osboxes 4096 Jun  3 20:20 Music
-rwxr-xr-x 2 osboxes osboxes 4096 Jun  3 20:20 Public
-rwxr-xr-x 2 osboxes osboxes 4096 Jun  3 20:20 Templates
-rwxr-xr-x 2 osboxes osboxes 4096 Jun  3 20:20 Videos
sboxes@osboxes:~$
```

2. List the directory contents size wise sorted.(man ls)

Ans→ls -ls

```
osboxes@osboxes:~$ ls -ls
total 60
4 drwxr-xr-x 2 osboxes osboxes 4096 Jun  3 20:20 Desktop
4 drwxr-xr-x 2 osboxes osboxes 4096 Jun  3 20:20 Documents
4 drwxr-xr-x 2 osboxes osboxes 4096 Jun  3 20:20 Downloads
4 -rw-rw-r-- 1 osboxes osboxes  22 Oct  8 09:29 first.txt
4 -rw-rw-r-- 1 osboxes osboxes  77 Oct  8 08:06 lserr.txt
4 -rw-rw-r-- 1 osboxes osboxes  94 Oct  8 08:04 lsout.txt
4 drwxr-xr-x 2 osboxes osboxes 4096 Jun  3 20:20 Music
4 -rw-rw-r-- 1 osboxes osboxes  49 Oct  8 07:41 numbers.txt
0 -rw-rw-r-- 1 osboxes osboxes   0 Oct  8 08:18 out.txt
4 drwxr-xr-x 3 osboxes osboxes 4096 Oct  7 08:35 Pictures
4 drwxr-xr-x 2 osboxes osboxes 4096 Jun  3 20:20 Public
4 drwx----- 4 osboxes osboxes 4096 Oct  7 09:04 snap
4 -rw-rw-r-- 1 osboxes osboxes  49 Oct  8 08:05 sorted.txt
4 drwxr-xr-x 2 osboxes osboxes 4096 Jun  3 20:20 Templates
4 drwxr-xr-x 2 osboxes osboxes 4096 Jun  3 20:20 Videos
4 -rw-rw-r-- 1 osboxes osboxes 108 Oct  8 08:06 -w
osboxes@osboxes:~$
```

3. List directory contents along with their inode no. (man ls).

Ans→ls -li

```
osboxes@osboxes:~$ ls -li
total 60
8126541 drwxr-xr-x 2 osboxes osboxes 4096 Jun  3 20:20 Desktop
8126545 drwxr-xr-x 2 osboxes osboxes 4096 Jun  3 20:20 Documents
8126542 drwxr-xr-x 2 osboxes osboxes 4096 Jun  3 20:20 Downloads
8127430 -rw-rw-r-- 1 osboxes osboxes  22 Oct  8 09:29 first.txt
8127399 -rw-rw-r-- 1 osboxes osboxes  77 Oct  8 08:06 lserr.txt
8127395 -rw-rw-r-- 1 osboxes osboxes  94 Oct  8 08:04 lsout.txt
8126546 drwxr-xr-x 2 osboxes osboxes 4096 Jun  3 20:20 Music
8127315 -rw-rw-r-- 1 osboxes osboxes  49 Oct  8 07:41 numbers.txt
8127384 -rw-rw-r-- 1 osboxes osboxes   0 Oct  8 08:18 out.txt
8126547 drwxr-xr-x 3 osboxes osboxes 4096 Oct  7 08:35 Pictures
8126544 drwxr-xr-x 2 osboxes osboxes 4096 Jun  3 20:20 Public
8126470 drwx----- 4 osboxes osboxes 4096 Oct  7 09:04 snap
8127396 -rw-rw-r-- 1 osboxes osboxes  49 Oct  8 08:05 sorted.txt
8126543 drwxr-xr-x 2 osboxes osboxes 4096 Jun  3 20:20 Templates
8126548 drwxr-xr-x 2 osboxes osboxes 4096 Jun  3 20:20 Videos
8127397 -rw-rw-r-- 1 osboxes osboxes 108 Oct  8 08:06 -w
osboxes@osboxes:~$
```

4. List the contents of the subdirectory.

Ans→ls /home/osboxes/snap

```
osboxes@osboxes:~/snap$ ls /home/osboxes/snap
firmware-updater  snapd-desktop-integration
osboxes@osboxes:~/snap$ ls /home/osboxes/snap
firmware-updater  snapd-desktop-integration
osboxes@osboxes:~/snap$
```

5. Create a file, write your surname and name in it and save. i. now open the same file and add your address in it and save. ii. reopen the same file and check your name and address in it.

Ans→

```
osboxes@osboxes:~$ echo "Mrunali Pardhi">myinfo.txt
osboxes@osboxes:~$ echo "2,gade Mohalla,sondri">>myinfo.txt
osboxes@osboxes:~$ cat myinfo.txt
Mrunali Pardhi
2,gade Mohalla,sondri
osboxes@osboxes:~$
```

6. how to change the time stamp of file (man touch)

Ans→

```
osboxes@osboxes:~$ touch myinfo.txt
osboxes@osboxes:~$ touch -t 202304302030 myinfo.txt
osboxes@osboxes:~$ stat myinfo.txt
  File: myinfo.txt
  Size: 37          Blocks: 8          IO Block: 4096   regular file
Device: 8,2      Inode: 8127437      Links: 1
Access: (0664/-rw-rw-r--)  Uid: ( 1000/ osboxes)   Gid: ( 1000/ osboxes)
Access: 2023-04-30 20:30:00.000000000 -0400
Modify: 2023-04-30 20:30:00.000000000 -0400
Change: 2024-10-08 12:56:46.365204127 -0400
 Birth: 2024-10-08 12:45:49.332751749 -0400
osboxes@osboxes:~$
```

7. Create directory structure : Give the following commands , ->

mkdir one -> cd one -> touch 1.txt 11.txt 111.txt -> mkdir two -> cd two -> touch 2.txt 22.txt 222.txt -> mkdir three -> cd three -> touch 3.txt 33.txt 333.txt -> mkdir four -> cd four -> touch 4.txt 44.txt 444.txt -> mkdir five -> cd five -> touch 5.txt 55.txt 555.txt -> cd ~ (i.e. go to your home directory)

Ans→

```
osboxes@osboxes:~$ mkdir one
osboxes@osboxes:~$ cd one
osboxes@osboxes:~/one$ touch 1.txt 11.txt 111.txt
osboxes@osboxes:~/one$ mkdir two
osboxes@osboxes:~/one$ cd two
osboxes@osboxes:~/one/two$ touch 2.txt 22.txt 222.txt
osboxes@osboxes:~/one/two$ mkdir three
osboxes@osboxes:~/one/two$ cd three
osboxes@osboxes:~/one/two/three$ touch 3.txt 33.txt 333.txt
osboxes@osboxes:~/one/two/three$ mkdir four
osboxes@osboxes:~/one/two/three$ cd four
osboxes@osboxes:~/one/two/three/four$ touch 4.txt 44.txt 444.txt
osboxes@osboxes:~/one/two/three/four$ mkdir five
osboxes@osboxes:~/one/two/three/four$ cd five
osboxes@osboxes:~/one/two/three/four/five$ touch 5.txt 55.txt 555.txt
osboxes@osboxes:~/one/two/three/four/five$ cd ~
osboxes@osboxes:~$
```

8. Considering above directory structure , Do following operations :

- i. list the directory contents of directory named "five" from current directory (i.e. home directory).

Ans→

```
osboxes@osboxes:~$ ls one/two/three/four/five
555.txt  55.txt  5.txt
osboxes@osboxes:~$
```

- ii. write your name in a file named "44.txt" of directory "four" from current directory.

Ans→

```
osboxes@osboxes:~$ echo "Mrunali Pardhi" >one/two/three/four/44.txt
osboxes@osboxes:~$ cat one/two/three/four/44.txt
Mrunali Pardhi
osboxes@osboxes:~$
```

- iii. remove the file named "555.txt" from directory "five" from current directory.

Ans→

```
osboxes@osboxes:~$ rm one/two/three/four/five/555.txt
osboxes@osboxes:~$ ls one/two/three/four/five
55.txt  5.txt
osboxes@osboxes:~$
```

- iv. change directory to five ( i.e. cd one/two/three/four/five/ ).

Ans→

```
osboxes@osboxes:~$ cd one/two/three/four/five
osboxes@osboxes:~/one/two/three/four/five$ pwd
/home/osboxes/one/two/three/four/five
osboxes@osboxes:~/one/two/three/four/five$
```

- v. write your course name in file named "3.txt" which resides in directory "three" from current directory (i.e. five).also read the same file.

Ans→

```
cat: ../../three/3.txt: No such file or directory
osboxes@osboxes:~/one/two/three/four/five$ cat ../../../../three/3.txt
osboxes@osboxes:~/one/two/three/four/five$ echo "CDAC" > ../../../../three/3.txt
osboxes@osboxes:~/one/two/three/four/five$ cat ../../../../three/3.txt
CDAC
osboxes@osboxes:~/one/two/three/four/five$
```

- vi. list the contents of directory "two" from current directory (i.e. five).

Ans→

```
osboxes@osboxes:~/one/two/three/four/five$ ls /home/osboxes/one/two
222.txt 22.txt 2.txt three
osboxes@osboxes:~/one/two/three/four/five$
```

- vii. remove file named "222.txt" which belongs to directory "two" from current directory (i.e. five)

Ans→

```
osboxes@osboxes:~/one/two/three/four/five$ rm /home/osboxes/one/two/222.txt
```

```
osboxes@osboxes:~/one/two/three/four/five$ ls /home/osboxes/one/two
22.txt 2.txt three
osboxes@osboxes:~/one/two/three/four/five$
```

- viii. now change the directory to "one"

Ans→

```
osboxes@osboxes:~/one/two/three/four/five$ cd ~
osboxes@osboxes:~$ cd one
osboxes@osboxes:~/one$ pwd
/home/osboxes/one
osboxes@osboxes:~/one$
```

- ix. remove all files only from directory named "five" from current directory (i.e. one)

Ans→

```
osboxes@osboxes:~$ rm /home/osboxes/one/two/three/four/five/*
osboxes@osboxes:~$ ls /home/osboxes/one/two/three/four/five
```

- x. remove directory named "five" from current directory (i.e. one)

Ans→

```
osboxes@osboxes:~$ rm -r one/two/three/four/five
osboxes@osboxes:~$ ls one/two/three/four
```

- xi. remove whole directory named "four" from current directory (i.e. one)

Ans→

```
osboxes@osboxes:~$ rm -r one/two/three/four
osboxes@osboxes:~$ ls one/two/three
```

- xii. change to your home directory.

Ans→

```
osboxes@osboxes:~$ cd ~
osboxes@osboxes:~$
```

9. change the time stamp of file named "3.txt" which resides in directory named "three".(man touch)

Ans→

```
osboxes@osboxes:~$ touch one/two/three/3.txt
osboxes@osboxes:~$ ls -l one/two/three/3.txt
-rw-rw-r-- 1 osboxes osboxes 5 Oct  8 14:10 one/two/three/3.txt
osboxes@osboxes:~$
```



