

Linux Commands Assignments - II

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

```
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ ls -t
new.txt  notes.txt  backup
```

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

```
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ ls -s
total 4
0 backup  4 new.txt  0 notes.txt
```

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

```
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ ls -li
956012 backup  956010 new.txt  956013 notes.txt
```

4. List the contents of the subdirectory.

```
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ ls backup
data.txt
```

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.

```
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ touch details.txt
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ cat >> details.txt
ekta Sinha
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ cat >> details.txt

Address : pune
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ cat details.txt
ekta Sinha

Address : pune
```

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

```
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ touch -t 2405010650.50 detail.txt
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ stat detail.txt
  File: detail.txt
  Size: 0          Blocks: 0          IO Block: 4096   regular empty file
Device: 10303h/66307d Inode: 956192       Links: 1
Access: (0664/-rw-rw-r--)  Uid: ( 1000/ sunbeam)   Gid: ( 1000/ sunbeam)
Access: 2024-05-01 06:50:50.000000000 +0530
Modify: 2024-05-01 06:50:50.000000000 +0530
Change: 2025-10-27 19:17:36.434872600 +0530
 Birth: 2025-10-27 19:17:36.434872600 +0530
```

7. Create directory structure : Give 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)

```
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ mkdir one
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ cd one
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice/one$ touch 1.txt 11.txt 111.txt
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice/one$ cd..
cd..: command not found
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice/one$ cd ..
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ mkdir tow
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ rmdir tow
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ mkdir two
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ cd two
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice/two$ touch 2.txt 22.txt 222.txt
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice/two$ cd ..
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ mkdir three
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ cd three
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice/three$ touch 3.txt 33.txt 333.txt
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice/three$ cd ..
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ mkdir four
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ cd four
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice/four$ touch 4.txt 44.txt 444.txt
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice/four$ cd ..
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ mkdir five
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ cd five
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice/five$ touch 5.txt 55.txt 555.txt
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice/five$ cd-
```

8. Considering above directory structure , Do following operations :

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

```
sunbeam@D3-Ekta-93147:~$ cd ~
sunbeam@D3-Ekta-93147:~$ cd /
sunbeam@D3-Ekta-93147:/$ cd media/sunbeam/Windows
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows$ cd C-DAC/Operating\ System/practice/five
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice/five$ ls
555.txt 55.txt 5.txt
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice/five$
```

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

```
sunbeam@D3-Ekta-93147:~$ echo "Ekta" >> "/media/sunbeam/Windows/C-DAC/Operating System/practice/four/44.txt"
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice/four$ cat 44.txt
Ekta
```

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

```
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice/five$ rm "/media/sunbeam/Windows/C-DAC/Operating System/practice/five/555.txt"
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice/five$ cd /media/sunbeam/Windows/C-DAC/Operating System/practice/five
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice/five$ ls
55.txt  5.txt
```

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

```
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice$ cd 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.

```
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice/five$ cd five
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice/five$ echo "DAC" >> ../three/3.txt
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice/five$ cd ../three
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice/three$ cat 3.txt
DAC
```

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

```
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice/five$ ls ../two
222.txt  22.txt  2.txt
```

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

```
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice/five$ rm ../two/222.txt
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice/five$ ls ../two
22.txt  2.txt
```

viii. now change the directory to "one"

```
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice/five$ cd ../one
```

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

```
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice/one$ rm /media/sunbeam/Windows/C-DAC/Operating System/practice/five/*
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice/one$ cd
```

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

```
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice/one$ cd one
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice/one$ rmdir ../five
```

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

```
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice/one$ rm -r ../four
```

xii. change to your home directory.

```
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice/one$ rm -r ../four
sunbeam@D3-Ekta-93147:/media/sunbeam/Windows/C-DAC/Operating System/practice/one$ cd ~
```

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

```
root@kali:~/media/sunbeam/Windows/C-DAC/Operating System/practice/one# touch -t 202506250100.00 /media/sunbeam/Windows/C-DAC/Operating System/practice/one/1.txt
root@kali:~/media/sunbeam/Windows/C-DAC/Operating System/practice/one# stat /media/sunbeam/Windows/C-DAC/Operating System/practice/one/1.txt
  File: /media/sunbeam/Windows/C-DAC/Operating System/practice/one/1.txt
  Size: 0          Blocks: 0          IO Block: 4096   regular empty file
Device: fd00h/6400d Inode: 956230     Links: 1
Access: (0664/-rw-rw-r-->)  Uid: ( 1000/  sunbeam)   Gid: ( 1000/  sunbeam)
2025-06-25 01:00:00.000000000 +0530
2025-06-25 01:00:00.000000000 +0530
2025-10-28 17:51:53.379679900 +0530
2025-10-28 15:10:17.650641300 +0530
```