Linux Commands Assignments - II

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

```
kedar@D2-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/labwork$ ls -lt
total 4
-rwxr-xr-x 1 kedar kedar 1036 Oct 24 17:32 notes.txt
-rwxr-xr-x 1 kedar kedar   75 Oct 24 17:29 mynotes.txt
drwxrwxr-x 1 kedar kedar    0 Oct 24 16:28 backup
```

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

```
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment$ ls -lhS
total 0
-rw-rw-r-- 1 kedar kedar 37 Oct 27 15:56 user1.txt
-rw-rw-r-- 1 kedar kedar 37 Oct 27 15:57 user2.txt
-rw-rw-r-- 1 kedar kedar  0 Oct 27 16:05 data.txt
-rw-rw-r-- 1 kedar kedar  0 Oct 27 16:05 my.txt
drwxrwxr-x 1 kedar kedar  0 Oct 27 15:56 users
```

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

```
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment$ ls -li
total 0
489575 -rw-rw-r-- 1 kedar kedar  0 Oct 27 16:05 data.txt
489574 -rw-rw-r-- 1 kedar kedar  0 Oct 27 16:05 my.txt
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 15:56 users
```

4. List the contents of the subdirectory.

```
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment$ ls users/
prasad.txt
```

5. Create a file, write your surname and name in it and save.

```
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment$ echo "Bile Dhananjay" > myfile.txt
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment$ cat myfile.txt
Bile Dhananjay
```

i. now open the same file and add your address in it and save.

```
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment$ cat >> myfile.txt
Address: Sunbeam Pune
```

ii. reopen the same file and check your name and address in it.

```
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment$ cat myfile.txt
Bile Dhananjay
Address: Sunbeam Pune
```

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

```
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment$ touch myfile.txt
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment$ touch -t 202310270830 myfile.txt
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment$ ^C
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment$ ls -li
total 0
489575 -rw-rw-r-- 1 kedar kedar  0 Oct 27 16:05 data.txt
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.txt
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
```

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)

```
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment$ mkdir one
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment$ cd one
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment/one$ touch 1.txt 11.txt 111.txt
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment/one$ mkdir two
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment/one$ cd two
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment/one/two$ touch 2.txt 22.txt 222.txt
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment/one/two$ mkdir three
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment/one/two$ cd three
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment/one/two/three$ touch 3.txt 33.txt 333.txt
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment/one/two/three$ mkdir four
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment/one/two/three$ cd four
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment/one/two/three/four$ touch 4.txt 44.txt 444.txt
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment/one/two/three/four$ mkdir five
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment/one/two/three/four$ cd five
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment/one/two/three/four/five$ touch 5.txt 55.txt 555.txt
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment/one/two/three/four/five$ cd ~
kedar@D3-Dhananjay-92969:~$
```

8. Considering above directory structure , Do following operations :

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

```
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment$ ls one/two/three/four/five
555.txt  55.txt  5.txt
```

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

```
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment$ echo "Dhananjay Bile" > one/two/three/four/44.txt
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment$ cat one/two/three/four/44.txt
Dhananjay Bile
```

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

```
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment$ rm one/two/three/four/five/555.txt
```

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

```
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment$ cd one/two/three/four/five/
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment/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.

```
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment/one/two/three/four/five$ echo "DAC" > ../../3.txt
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment/one/two/three/four/five$ cat ../../3.txt
DAC
```

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

```
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment/one/two/three/four/five$ cd ../../../
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment/one/two$
```

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

```
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment/one/two/three/four/five$ rm ../../../../two/222.txt
```

viii. now change the directory to "one"

```
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment/one/two/three/four/five$ cd ../../../..
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment/one$
```

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

```
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment/one$ rm -r two/three/four
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment/one$
```

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

```
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment/one$ rmdir two/three/four/five
```

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

```
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment/one$ rm -r two/three/four
```

xii. change to your home directory.

```
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment/one$ cd ~
kedar@D3-Dhananjay-92969:~$
```

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

```
kedar@D3-Dhananjay-92969:/media/kedar/New Volume/11_CDAC/07_OS/assignment/one$ touch one/two/three/3.txt
```