

Assignment No : 2

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

```
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$ ls -t
assign1.odt  no.txt  vdemo.txt  rep.txt      test.txt  err.txt  sort.txt
hello.txt    scripts dmc         select.txt  out.txt   name.txt
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$
```

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

```
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$ ls -sl
total 44
4 drwxrwxr-x 2 vivek vivek 4096 Dec 26 17:38 dmc
0 -rw-rw-r-- 1 vivek vivek  0 Dec 26 14:41 err.txt
4 -rw-rw-r-- 1 vivek vivek 15 Dec 29 14:33 hello.txt
4 -rw-rw-r-- 1 vivek vivek  6 Dec 26 14:40 name.txt
4 -rw-rw-r-- 1 vivek vivek 38 Dec 29 14:23 no.txt
4 -rw-rw-r-- 1 vivek vivek  6 Dec 26 14:41 out.txt
4 -rw-rw-r-- 1 vivek vivek 42 Dec 26 15:18 rep.txt
4 drwxrwxr-x 2 vivek vivek 4096 Dec 27 15:48 scripts
4 -rw-rw-r-- 1 vivek vivek 27 Dec 26 15:09 select.txt
4 -rw-rw-r-- 1 vivek vivek 38 Dec 26 14:21 sort.txt
4 -rw-rw-r-- 1 vivek vivek 42 Dec 26 15:01 test.txt
4 -rw-rw-r-- 1 vivek vivek 48 Dec 27 14:19 vdemo.txt
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$
```

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

```
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$ ls -li
12860594 dmc          12860379 name.txt  12860425 rep.txt  12860366 sort.txt
12860380 err.txt      12860365 no.txt   12848048 scripts  12860381 test.txt
12860510 hello.txt    12860374 out.txt  12860414 select.txt 12861808 vdemo.txt
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$
```

4) List the contents of the subdirectory.

```
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$ ls -R
.:
dmc      hello.txt  no.txt    rep.txt    select.txt  test.txt
err.txt  name.txt   out.txt   scripts    sort.txt    vdemo.txt

./dmc:

./scripts:
script01.sh script02.sh script03.sh script04.sh script05.sh script06.sh
```

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.

```
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$ cat > name.txt
Vivek Gavhane
^C
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$ cat >> name.txt
Add:Solapur
^C
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$ cat name.txt
Vivek Gavhane
Add:Solapur
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$
```

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

```
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$ touch -t 202312291200.00 name.txt
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$ ls -l
total 44
```

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. structure : go to your home directory)

```
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$ mkdir one
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$ cd one
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os/one$ mkdir two
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os/one$ cd two
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os/one/two$ touch 2.txt 22.txt 222.txt
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os/one/two$ cd --
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~$ cd Desktop
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop$ cd sunbeam/os/one
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os/one$ touch 1.txt 11.txt 111.txt
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os/one$ cd two
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os/one/two$ mkdir three
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os/one/two$ cd three
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os/one/two/three$ touch 3.txt 33.txt 333.txt
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os/one/two/three$ mkdir four
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os/one/two/three/four$ touch 4.txt 44.txt 444.txt
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os/one/two/three/four$ mkdir five
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os/one/two/three/four$ cd five
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os/one/two/three/four/five$ touch 5.txt 55.txt 555.txt
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os/one/two/three/four/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).

```
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~$ ls Desktop/sunbeam/os/one/two/three/four/five
555.txt 55.txt 5.txt
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~$ █
```

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

```
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os/one/two/three/four$ cat >> 44.txt
vivek
^C
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os/one/two/three/four$ cat 44.txt
vivek
```

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

```
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os/one/two/three/four$ cd five
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os/one/two/three/four/five$ rm 555.txt
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os/one/two/three/four/five$ ls
55.txt 5.txt
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os/one/two/three/four/five$
```

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

```
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0: ~/Desktop/sunbeam/os/one/two/three/four$ cd five
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0: ~/Desktop/sunbeam/os/one/two/three/four/five$ rm 555.txt
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0: ~/Desktop/sunbeam/os/one/two/three/four/five$ ls
55.txt  5.txt
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0: ~/Desktop/sunbeam/os/one/two/three/four/five$ pwd
/home/vivek/Desktop/sunbeam/os/one/two/three/four/five
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0: ~/Desktop/sunbeam/os/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.

```
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0: ~/Desktop/sunbeam/os/one/two/three/four/five$ cd ..
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0: ~/Desktop/sunbeam/os/one/two/three/four$ cd ..
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0: ~/Desktop/sunbeam/os/one/two/three$ ls
333.txt 33.txt 3.txt four
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0: ~/Desktop/sunbeam/os/one/two/three$ cat > 3.txt
DMC
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0: ~/Desktop/sunbeam/os/one/two/three$ cat 3.txt
DMC
```

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

```
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0: ~/Desktop/sunbeam/os/one/two/three/four/five$ ls ../../../../
222.txt 22.txt 2.txt three
```

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

```
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0: ~/Desktop/sunbeam/os/one/two/three/four/five$ rm ../../../../222.txt
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0: ~/Desktop/sunbeam/os/one/two/three/four/five$ ls
55.txt 5.txt
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0: ~/Desktop/sunbeam/os/one/two/three/four/five$ ls ../../../../
22.txt 2.txt three
```

viii. now change the directory to "one"

```
22.txt 2.txt three
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0: ~/Desktop/sunbeam/os/one/two/three/four/five$ cd ../../../../
```

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

```
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0: ~/Desktop/sunbeam/os/one$ rm two/three/four/five/*
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0: ~/Desktop/sunbeam/os/one$ ls two/three/four/five
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0: ~/Desktop/sunbeam/os/one$
```

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

```
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0: ~/Desktop/sunbeam/os/one$ rm -r two/three/four/five
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0: ~/Desktop/sunbeam/os/one$ ls two/three/four
444.txt 44.txt 4.txt
```

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

```
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0: ~/Desktop/sunbeam/os/one$ rm -r two/three/four
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0: ~/Desktop/sunbeam/os/one$ ls two/three/
333.txt 33.txt 3.txt
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0: ~/Desktop/sunbeam/os/one$
```

xii. change to your home directory.

```
555.txt 55.txt 5.txt
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0: ~/Desktop/sunbeam/os/one$ cd ~
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0: ~$ pwd
/home/vivek
```

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

```
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0: ~$ touch -t 201312202020.42 Desktop/sunbeam/os/one/two/three/3.txt
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0: ~$ ls -l Desktop/sunbeam/os/one/two/three/3.txt
-rw-rw-r-- 1 vivek vivek 4 Dec 20 2013 Desktop/sunbeam/os/one/two/three/3.txt
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0: ~$
```

