

## OS Assignment-2

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

```
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~/Documents/New sunbeam data$ ls -lt
total 20
drwxrwxr-x  6 sunbeam sunbeam 4096 May 21 16:59 osc_sdm
drwxrwxr-x 18 sunbeam sunbeam 4096 May  3 14:50 wpt
drwxrwxr-x  3 sunbeam sunbeam 4096 Apr  1 14:54 'OOPS with Java'
drwxrwxr-x  3 sunbeam sunbeam 4096 Mar 18 17:20 cpp
drwxrwxr-x  7 sunbeam sunbeam 4096 Mar 16 14:31 dbt
```

2) List the directory contents size wise sorted.

```
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~/Documents/New sunbeam data$ ls -s
total 20
4  cpp  4  dbt  4  'OOPS with Java'  4  osc_sdm  4  wpt
```

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

```
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~/Documents/New sunbeam data$ ls -li
8912961  cpp  8783097  dbt  8784079  'OOPS with Java'  8946675  osc_sdm  8793689  wpt
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~/Documents/New sunbeam data$
```

4) 4. List the contents of the subdirectory.

```
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~/Documents/New sunbeam data$ ls
cpp  dbt  'OOPS with Java'  osc_sdm  wpt
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~/Documents/New sunbeam data$
```

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

```
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~/Documents/New sunbeam data$ cat > file1.txt
Aashita Bansod
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~/Documents/New sunbeam data$ cat file1.txt
Aashita Bansod
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~/Documents/New sunbeam data$
```

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

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@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ ls Documents/Newsunbeamdata/one/two/three/four/five
555.txt  55.txt  5.txt
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$
```

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

```
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ cat > 44.txt
Aashita Bansod
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ cat 44.txt
Aashita Bansod
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$
```

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

```
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ rm Documents/Newsunbeamdata/one/two/three/four/five/555.txt
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$
```

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

```
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~/Documents/Newsunbeamdata$ cd one/two/three/four/five
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~/Documents/Newsunbeamdata/one/two/three/four/five$ cd five
bash: cd: five: No such file or directory
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~/Documents/Newsunbeamdata/one/two/three/four/five$ pwd
/home/sunbeam/Documents/Newsunbeamdata/one/two/three/four/five
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~/Documents/Newsunbeamdata/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.

```
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~/Documents/Newsunbeamdata$ cd one/two/three
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~/Documents/Newsunbeamdata/one/two/three$ cat > 3.txt
"CDAC"
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~/Documents/Newsunbeamdata/one/two/three$ cat 3.txt
"CDAC"
```

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

```
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~/Documents/Newsunbeamdata/one/two/three/four/five$ ls ../../../../
222.txt 22.txt 2.txt three
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~/Documents/Newsunbeamdata/one/two/three/four/five$
```



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

```
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~/Documents/Newsunbeandata/one/two/three/four/five$ cd ..
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~/Documents/Newsunbeandata/one/two/three/four$ cd ..
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~/Documents/Newsunbeandata/one/two/three$ cd ..
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~/Documents/Newsunbeandata/one/two$ rm 222.txt
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~/Documents/Newsunbeandata/one/two$
```

viii) now change the directory to "one"

```
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~/Documents/Newsunbeandata/one/two$ cd ..
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~/Documents/Newsunbeandata/one$ cd ..
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~/Documents/Newsunbeandata$
```

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

```
two/three/four/five/33.txt two/three/four/five/34.txt  
sunbeam@sunbeam-om:~/Desktop/ONE$ rm two/three/four/five/*  
sunbeam@sunbeam-om:~/Desktop/ONE$
```

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

```
sunbeam@sunbeam-om:~/Desktop/ONE$ rm two/three/four/five/  
sunbeam@sunbeam-om:~/Desktop/ONE$ rmdir two/three/four/five  
sunbeam@sunbeam-om:~/Desktop/ONE$
```

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

```
Try 'rmdir --help' for more information.  
sunbeam@sunbeam-om:~/Desktop/ONE$ rmdir two/three/four  
sunbeam@sunbeam-om:~/Desktop/ONE$
```



xii) change to your home directory.

```
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~/Documents/Newsunbeamdata$ cd
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$
```

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

```
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~/Documents/Newsunbeamdata$ ls -l
total 24
drwxrwxr-x 3 sunbeam sunbeam 4096 Mar 18 17:20  cpp
drwxrwxr-x 7 sunbeam sunbeam 4096 Mar 16 14:31  dbt
drwxrwxr-x 3 sunbeam sunbeam 4096 May 21 18:44  one
drwxrwxr-x 3 sunbeam sunbeam 4096 Apr  1 14:54  '00PS with Java'
drwxrwxr-x 6 sunbeam sunbeam 4096 May 21 16:59  osc_sdm
drwxrwxr-x 18 sunbeam sunbeam 4096 May  3 14:50  wpt
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~/Documents/Newsunbeamdata$ touch 3.txt
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~/Documents/Newsunbeamdata$ ls -l
total 24
-rw-rw-r-- 1 sunbeam sunbeam  0 May 22 05:28  3.txt
drwxrwxr-x 3 sunbeam sunbeam 4096 Mar 18 17:20  cpp
drwxrwxr-x 7 sunbeam sunbeam 4096 Mar 16 14:31  dbt
drwxrwxr-x 3 sunbeam sunbeam 4096 May 21 18:44  one
drwxrwxr-x 3 sunbeam sunbeam 4096 Apr  1 14:54  '00PS with Java'
drwxrwxr-x 6 sunbeam sunbeam 4096 May 21 16:59  osc_sdm
drwxrwxr-x 18 sunbeam sunbeam 4096 May  3 14:50  wpt
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~/Documents/Newsunbeamdata$
```