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## Assignment No.2

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

```
sunbeam@sunbeam-HP:~$ ls -lt
total 183860
drwxr-xr-x  5 sunbeam sunbeam    4096 Dec  7 16:51 Documents
drwxrwxr-x  5 sunbeam sunbeam    4096 Dec  6 19:59 OSC
drwxrwxr-x  8 sunbeam sunbeam    4096 Dec  6 18:59 mygitdata
drwxr-xr-x 20 sunbeam sunbeam   12288 Dec  6 18:44 Downloads
-rw-rw-r--  1 sunbeam sunbeam     79 Dec  6 18:20 copy.txt
drwxrwxr-x 11 sunbeam sunbeam    4096 Dec  6 16:37 sunbeamdata
-rw-rw-r--  1 sunbeam sunbeam  49984 Dec  5 18:02 package-lock.json
-rw-rw-r--  1 sunbeam sunbeam    329 Dec  5 18:01 package.json
drwxrwxr-x 125 sunbeam sunbeam    4096 Dec  5 18:01 node_modules
drwx-----  6 sunbeam sunbeam    4096 Nov 30 17:15 snap
drwxrwxr-x  3 sunbeam sunbeam    4096 Nov 28 17:58 NodeJS
drwxrwxr-x  2 sunbeam sunbeam    4096 Nov 26 17:43 Intro
```

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

```
sunbeam@sunbeam-HP:~$ ls -s
total 183860
  4 ass1_1
  4 Assignment14_Q1
  4 Assignment2
 84 Assignment3_4_5.zip
  4 Assignment6
  4 Assignment7
  4 'Assignments 1-5dbt'
  4 AssignmentSQL
  4 AssSQL
  4 bookdetails
  4 c
  4 copy.txt
  4 cpp
  4 cpp_80136
 16 cpp_80136.zip
  4 cprogramming_80136
 28 cprogramming_80136.zip
  4 Desktop
  4 Documents
 12 Downloads
  4 Dsa
  4 DSA_230940820041
  4 DSAlabTest
  4 DSApractice
  4 Exercise
 48 GD_BollyWood_Today_KD3.odt
 20 hack
  4 hello.c
284 hs_err_pid6793.log
  4 Intro
  4 java_practicde
  4 LabExam

sunbeam@sunbeam-HP:~$ ls -ls
total 183860
  4 -rw-rw-r--  1 sunbeam sunbeam    1456 Sep 24 16:20 ass1_1
  4 drwxr-xr-x  5 sunbeam sunbeam    4096 Oct 22 18:01 Assignment14_Q1
  4 drwxr-xr-x  5 sunbeam sunbeam    4096 Oct  7 16:07 Assignment2
 84 -rw-r--r--  1 sunbeam sunbeam   82305 Nov  4 18:57 Assignment3_4_5.zip
  4 drwxrwxr-x  5 sunbeam sunbeam    4096 Oct 12 23:53 Assignment6
  4 drwxrwxr-x  5 sunbeam sunbeam    4096 Oct 15 17:26 Assignment7
  4 drwxr-xr-x  3 sunbeam sunbeam    4096 Sep 10 21:57 'Assignments 1-5dbt'
  4 drwxrwxr-x  2 sunbeam sunbeam    4096 Sep 10 17:25 AssignmentSQL
```

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

```

sunbeam@sunbeam-HP:~$ ls -li
6703719  ass1_1          6685068  c              6844159  Dsa            6686933  java_practicde
6840650  Assignment14_Q1 6714869  copy.txt       6819498  DSA_230940820041 6819595  LabExam
6834792  Assignment2      6700598  cpp            6819593  DSAlabTest     6684764  Music
6709295  Assignment3_4_5.zip 6824220  cpp_80136     6819861  DSApractice    6816111  mygitdata
6819580  Assignment6      6685815  cpp_80136.zip 6819043  Exercise       6702214  'new token'
6837757  Assignment7      6817620  cprogramming_80136 6713563  GD_BollyWood_Today_KD3.odt 6958953  NodeJS
6819175  'Assignments 1-5dbt' 6693111  cprogramming_80136.zip 6706253  hack           6819831  node_modules
6815936  AssignmentSQL    6684759  Desktop       6691343  hello.c        7471303  OSC
6819166  AssSQL          6684763  Documents     6686305  hs_err_pid6793.log 6702648  package.json
6820162  bookdetails     6684760  Downloads     6956172  Intro          6704117  package-lock.json

sunbeam@sunbeam-HP:~$ ls -li
total 183860
6703719 -rw-rw-r-- 1 sunbeam sunbeam 1456 Sep 24 16:20 ass1_1
6840650 drwxr-xr-x 5 sunbeam sunbeam 4096 Oct 22 18:01 Assignment14_Q1
6834792 drwxr-xr-x 5 sunbeam sunbeam 4096 Oct 7 16:07 Assignment2
6709295 -rw-r--r-- 1 sunbeam sunbeam 82305 Nov 4 18:57 Assignment3_4_5.zip
6819580 drwxrwxr-x 5 sunbeam sunbeam 4096 Oct 12 23:53 Assignment6
6837757 drwxrwxr-x 5 sunbeam sunbeam 4096 Oct 15 17:26 Assignment7
6819175 drwxr-xr-x 3 sunbeam sunbeam 4096 Sep 10 21:57 'Assignments 1-5dbt'
6815936 drwxrwxr-x 2 sunbeam sunbeam 4096 Sep 10 17:25 AssignmentSQL
6819166 drwxrwxr-x 2 sunbeam sunbeam 4096 Sep 11 17:01 AssSQL

```

4)List the contents of the subdirectory.

```

sunbeam@sunbeam-HP:~$ ls -la OSC
. . . DSA file08.txt file0.txt file1.txt file2.txt file3.txt file9.txt JAVA new.txt PYTHON rutu2 rutu3 Test.txt
sunbeam@sunbeam-HP:~$ ls -li OSC
total 32
drwxrwxr-x 2 sunbeam sunbeam 4096 Dec 6 19:54 DSA
-rw-rw-r-- 1 sunbeam sunbeam 93 Dec 6 19:29 file08.txt
-rw-rw-r-- 1 sunbeam sunbeam 75 Dec 6 19:25 file0.txt
-rw-rw-r-- 1 sunbeam sunbeam 0 Dec 6 19:16 file1.txt
-rw-rw-r-- 1 sunbeam sunbeam 0 Dec 6 19:16 file2.txt
-rw-rw-r-- 1 sunbeam sunbeam 0 Dec 6 19:16 file3.txt
-rw-rw-r-- 1 sunbeam sunbeam 53 Dec 6 19:23 file9.txt
drwxrwxr-x 2 sunbeam sunbeam 4096 Dec 6 19:54 JAVA
-rw-rw-r-- 1 sunbeam sunbeam 79 Dec 6 18:15 new.txt
drwxrwxr-x 2 sunbeam sunbeam 4096 Dec 6 19:54 PYTHON

```

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

i.

```

sunbeam@sunbeam-HP-Notebook:~$ cat>Name.txt
AKASH KAKAD 80109

sunbeam@sunbeam-HP-Notebook:~$ cat Name.txt
AKASH KAKAD 80109

```

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

```

sunbeam@sunbeam-HP-Notebook:~$ cat>Name.txt
AKASH KAKAD 80109

sunbeam@sunbeam-HP-Notebook:~$ cat Name.txt
AKASH KAKAD 80109

sunbeam@sunbeam-HP-Notebook:~$ cat>>Name.txt
Address:-PUNE,Kothrud
sunbeam@sunbeam-HP-Notebook:~$ cat Name.txt
AKASH KAKAD 80109

Address:-PUNE,Kothrud

```

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

```

sunbeam@sunbeam-HP-Notebook:~$ cat>Name.txt
AKASH KAKAD 80109

sunbeam@sunbeam-HP-Notebook:~$ cat Name.txt
AKASH KAKAD 80109

sunbeam@sunbeam-HP-Notebook:~$ cat>>Name.txt
Address:-PUNE,Kothrud
sunbeam@sunbeam-HP-Notebook:~$ cat Name.txt
AKASH KAKAD 80109

Address:-PUNE,Kothrud

```

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

```
sunbeam@sunbeam-HP:~$ touch stamp.txt
sunbeam@sunbeam-HP:~$ touch a,b,c,d
sunbeam@sunbeam-HP:~$ ls
a,b,c,d          Downloads          package.json
ass1_1           Dsa               package-lock.json
Assignment14_Q1  DSA_230940820041 PGDAC
Assignment2      DSAIabTest        Photos
Assignment3_4_5.zip DSApractice       Pictures
Assignment6      Exercise          prn
Assignment7      GD_BollyWood_Today_KD3.odt Public
'Assignments 1-Sdbt' hack          Question2
```

```
sunbeam@sunbeam-HP:~$ stat stamp.txt
  File: stamp.txt
  Size: 0          Blocks: 0          IO Block: 4096   regular empty file
Device: 10307h/66311d Inode: 6696634    Links: 1
Access: (0664/-rw-rw-r--)  Uid: ( 1000/ sunbeam)   Gid: ( 1000/ sunbeam)
Access: 2023-12-08 16:55:43.572723218 +0530
Modify: 2023-12-08 16:55:43.572723218 +0530
Change: 2023-12-08 16:55:43.572723218 +0530
 Birth: 2023-12-08 16:55:43.572723218 +0530
sunbeam@sunbeam-HP:~$ touch -a stamp.txt
sunbeam@sunbeam-HP:~$ stat stamp.txt
  File: stamp.txt
  Size: 0          Blocks: 0          IO Block: 4096   regular empty file
Device: 10307h/66311d Inode: 6696634    Links: 1
Access: (0664/-rw-rw-r--)  Uid: ( 1000/ sunbeam)   Gid: ( 1000/ sunbeam)
Access: 2023-12-08 16:56:20.526861299 +0530
Modify: 2023-12-08 16:55:43.572723218 +0530
Change: 2023-12-08 16:56:20.526861299 +0530
 Birth: 2023-12-08 16:55:43.572723218 +0530
sunbeam@sunbeam-HP:~$ █
```

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@sunbeam-HP:~$ mkdir one
sunbeam@sunbeam-HP:~$ cd one
sunbeam@sunbeam-HP:~/one$ touch 1.txt 11.txt 111.txt
sunbeam@sunbeam-HP:~/one$ mkdir two
sunbeam@sunbeam-HP:~/one$ cd two
sunbeam@sunbeam-HP:~/one/two$ touch 2.txt 22.txt 222.txt
sunbeam@sunbeam-HP:~/one/two$ mkdir three
sunbeam@sunbeam-HP:~/one/two$ cd three
sunbeam@sunbeam-HP:~/one/two/three$ touch 3.txt 33.txt 333.txt
sunbeam@sunbeam-HP:~/one/two/three$ mkdir four
sunbeam@sunbeam-HP:~/one/two/three$ cd four
sunbeam@sunbeam-HP:~/one/two/three/four$ touch 4.txt 44.txt 444.txt
sunbeam@sunbeam-HP:~/one/two/three/four$ mkdir five
sunbeam@sunbeam-HP:~/one/two/three/four$ cd five
sunbeam@sunbeam-HP:~/one/two/three/four/five$ touch 5.txt 55.txt 555.txt
sunbeam@sunbeam-HP:~/one/two/three/four/five$ cd ~
sunbeam@sunbeam-HP:~$ pwd
/home/sunbeam
sunbeam@sunbeam-HP:~$ █

```

8)Considering above directory structure , Do following operations :

```

sunbeam@sunbeam-HP:~$ mkdir one
mkdir: cannot create directory 'one': File exists
sunbeam@sunbeam-HP:~$ rmdi one
Command 'rmdi' not found, did you mean:
  command 'rmid' from deb openjdk-11-jre-headless (11.0.20.1+1-0ubuntu1~22.04)
  command 'rmid' from deb openjdk-8-jre-headless (8u382-ga-1~22.04.1)
  command 'rmdic' from deb canna-utils (3.7p3-17)
  command 'rmdir' from deb coreutils (8.32-4.1ubuntu1)
Try: sudo apt install <deb name>
sunbeam@sunbeam-HP:~$ ls one/two/three/four/five
555.txt  55.txt  5.txt

```

```

sunbeam@sunbeam-HP:~$ rm ~/one/two/three/four/five/555.txt
sunbeam@sunbeam-HP:~$ ls one/two/three/four/five
55.txt  5.txt
sunbeam@sunbeam-HP:~$ cd one/two/three/four/five
sunbeam@sunbeam-HP:~/one/two/three/four/five$ echo "course-CDAC" three/3.txt
course-CDAC three/3.txt
sunbeam@sunbeam-HP:~/one/two/three/four/five$ cd ~/one
sunbeam@sunbeam-HP:~/one$ rm ~/one/two/three/four/five/5.txt
sunbeam@sunbeam-HP:~/one$ rm ~/one/two/three/four/five/55.txt
sunbeam@sunbeam-HP:~/one$ rm ~/one/two/three/four/five/555.txt
rm: cannot remove '/home/sunbeam/one/two/three/four/five/555.txt': No such file or directory
sunbeam@sunbeam-HP:~/one$ ls -r
two  1.txt  11.txt  111.txt
sunbeam@sunbeam-HP:~/one$ ls -R
.:
111.txt  11.txt  1.txt  two

./two:
222.txt  22.txt  2.txt  three

./two/three:
333.txt  33.txt  3.txt  four

./two/three/four:
444.txt  44.txt  4.txt  five

./two/three/four/five:

```

```
sunbeam@sunbeam-HP:~/one$ rm ~/one/two/three/four/4.txt
sunbeam@sunbeam-HP:~/one$ rm ~/one/two/three/four/44.txt
sunbeam@sunbeam-HP:~/one$ rm ~/one/two/three/four/444.txt
sunbeam@sunbeam-HP:~/one$ ls -R
.:
111.txt  11.txt  1.txt  two

./two:
222.txt  22.txt  2.txt  three

./two/three:
333.txt  33.txt  3.txt  four

./two/three/four:
five
```