

Assignment-2

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

```
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~$ ls -l -lt
total 92708
drwxrwxr-x  2 sunbeam sunbeam    4096 Dec 26 15:43 demo
drwxrwxr-x  2 sunbeam sunbeam    4096 Dec 25 18:00 Os_Assignment
drwxrwxr-x  3 sunbeam sunbeam    4096 Dec 25 17:58 osAssignment
drwxrwxr-x  7 sunbeam sunbeam    4096 Dec 25 15:08 git
drwxrwxr-x 24 sunbeam sunbeam    4096 Dec 24 10:36 Practise
-rw-rw-r--  1 sunbeam sunbeam 1936949 Dec 23 23:00 hekathons.zip
drwxrwxr-x  4 sunbeam sunbeam    4096 Dec 22 13:59 LabTest
drwxrwxr-x 16 sunbeam sunbeam    4096 Dec 21 08:15 Adroid
drwxrwxr-x  4 sunbeam sunbeam    4096 Dec 20 17:02 Movie_Ticket_Booking_Project
drwxrwxr-x  2 sunbeam sunbeam    4096 Dec 18 22:03 CCEE
drwxr-xr-x 12 sunbeam sunbeam   12288 Dec 18 22:03 Downloads
drwxr-xr-x  7 sunbeam sunbeam    4096 Dec 18 08:14 Pictures
drwxrwxr-x  3 sunbeam sunbeam    4096 Dec  8 18:29 Advance_Java
drwxr-xr-x  4 sunbeam sunbeam    4096 Dec  7 14:07 Desktop
drwxrwxr-x  3 sunbeam sunbeam    4096 Dec  6 14:04 AndroidStudioProjects
drwxrwxr-x  3 sunbeam sunbeam    4096 Dec  5 22:19 Android
drwxrwxr-x  6 sunbeam sunbeam    4096 Dec  5 12:21 javaLabetst
drwxrwxr-x  8 sunbeam sunbeam    4096 Dec  5 08:16 'Advance _java'
-rw-rw-r--  1 sunbeam sunbeam    9720 Dec  5 08:05 java.zip
-rw-rw-r--  1 sunbeam sunbeam     803 Dec  4 23:10 inde.htm
-rw-rw-r--  1 sunbeam sunbeam      0 Dec  4 23:03 index
drwxr-xr-x  3 sunbeam sunbeam    4096 Dec  3 12:33 'java (1)'
drwxrwxr-x  2 sunbeam sunbeam    4096 Nov 18 15:21 node
drwxrwxr-x 16 sunbeam sunbeam    4096 Nov 18 14:37 Dmc_Assignment
drwxrwxr-x  4 sunbeam sunbeam    4096 Nov 18 14:36 hekathons
```

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

```
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~$ ls -s
total 92708
  4 Adroid
  4 'Advance _java'
  4 Advance_Java
  4 Android
  4 AndroidStudioProjects
  4 CCEE
  4 'C Tutorial'
  4 'DBMS ASSIGENEMENT'
  4 dbms_git
  4 demo
  4 Desktop
  4 Dmc_Assignment
  4 Documents
 12 Downloads
  4 exam-80477
  4 exam-80477.zip
  4 git
  4 hackathon1
  4 hekathons
 1892 hekathons.zip
  4 inde.htm
  0 index
  4 Insta-clone
  4 java
  4 'java (1)'
  4 javaLabetst
  4 JavaScript
 12 java.zip
  4 LabTest
 90628 LabTest.zip
  4 Movie_Ticket_Booking_Project
  4 Music
  4 node
  4 osAssignment
  4 Os_Assignment
  4 Pictures
  4 Postman
  4 Practise
  4 Public
  4 snap
  4 'Sunbem class'
  4 Templates
  4 token
  4 'Untitled Document 1'
  4 Videos
  4 'Web Development'
```

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

```
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~$ ls -li
1972814 Adroid
9052721 'Advance _java'
1443335 Advance_Java
1742693 Android
1312508 AndroidStudioProjects
789251 CCEE
9045037 'C Tutorial'
9438343 'DBMS ASSIGENEMENT'
9444850 dbms_git
9091856 demo
8912970 Desktop
9049294 Dmc_Assignment
8912974 Documents
8912971 Downloads
8984917 exam-80477
8951571 exam-80477.zip
9045029 git
9044328 hackathon1
9088969 hekathons
8951735 hekathons.zip
8950895 inde.htm
8951167 index
9044518 Insta-clone
9045406 java
1058301 'java (1)'
1058677 javaLabetst
9437339 JavaScript
8951073 java.zip
9065636 LabTest
8960487 LabTest.zip
1980702 Movie_Ticket_Booking_Project
8912975 Music
1711634 node
789606 osAssignment
789477 Os_Assignment
8912976 Pictures
9470028 Postman
9046108 Practise
8912973 Public
8912902 snap
9045418 'Sunbem class'
8912972 Templates
8994187 token
8982717 'Untitled Document 1'
8912977 Videos
9438636 'Web Development'
```

4. List the contents of the subdirectory.

```
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL: ~$ ls -R
.:
Adroid      Desktop      inde.htm     Movie_Ticket_Booking_Project  'Sunbem class'
'Advance_java'  Dmc_Assignment  index        Music                          Templates
Advance_Java  Documents     Insta-clone  node                          token
Android      Downloads     java         osAssignment                   'Untitled Document 1'
AndroidStudioProjects  exam-80477      'java (1)'   Os_Assignment                 Videos
CCEE         exam-80477.zip javaLabetst  Pictures                       'Web Development'
'C Tutorial'  git           JavaScript   Postman
'DBMS ASSIGNEMENT'  hackathon1     java.zip     Practise
dbms_git     hekathons     LabTest      Public
demo         hekathons.zip LabTest.zip  snap

./Adroid:
Day1 Day10 Day11 Day12 Day14 Day2 Day3 Day4 Day5 Day6 Day7 Day8 Day9 Practise

./Adroid/Day1:

./Adroid/Day10:
Admin Appl Client

./Adroid/Day10/Admin:
app build.gradle gradle gradle.properties gradlew gradlew.bat local.properties settings.gradle

./Adroid/Day10/Admin/app:
build build.gradle libs proguard-rules.pro src

./Adroid/Day10/Admin/app/build:
generated intermediates outputs tmp
```

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@sunbeam-Lenovo-IdeaPad-S340-14IWL: ~$ cat > myname.txt
Satyam
Kumar
^C
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL: ~$ cat myname.txt
Satyam
Kumar
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL: ~$ cat >> myname.txt
Pune
^C
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL: ~$ cat myname.txt
Satyam
Kumar
Pune
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL: ~$
```

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

```
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL: ~/demo$ man touch
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL: ~/demo$ touch -t [[21]24]01021312[.11] myname.txt
touch: invalid date format '[[21]24]01021312[.11]'
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL: ~/demo$ man touch
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL: ~/demo$ touch -t 212401021312.11 myname.txt
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL: ~/demo$ stat
stat: missing operand
Try 'stat --help' for more information.
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL: ~/demo$ stat myname.txt
  File: myname.txt
  Size: 18          Blocks: 8          IO Block: 4096   regular file
Device: 804h/2052d Inode: 9092447   Links: 1
Access: (0664/-rw-rw-r--)  Uid: ( 1000/  sunbeam)   Gid: ( 1000/  sunbeam)
Access: 2124-01-02 13:12:11.000000000 +0530
Modify: 2124-01-02 13:12:11.000000000 +0530
Change: 2023-12-26 17:32:43.311810517 +0530
 Birth: 2023-12-26 17:28:58.528175710 +0530
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL: ~/demo$
```

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)
```

```
Birth: 2023-12-26 17:28:58.528175710 +0530
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo$ mkdir one
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo$ cd one
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one$ touch 1.txt 11.txt 111.txt
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one$ mkdir two
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one$ cd two
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one/two$ touch 2.txt 22.txt 222.txt
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one/two$ mkdir three
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one/two$ cd three
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one/two/three$ touch 3.txt 33.txt 333.txt
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one/two/three$ mkdir four
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one/two/three$ cd four
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one/two/three/four$ touch 4.txt 44.txt 444.txt
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one/two/three/four$ mkdir five
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one/two/three/four$ cd five
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one/two/three/four/five$ touch 5.txt 55.txt 555.txt
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one/two/three/four/five$ cd ~
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~$
```

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-Lenovo-IdeaPad-S340-14IWL:~/demo/one/two/three/four/five$ ls
555.txt 55.txt 5.txt
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one/two/three/four/five$
```

1ii. write your name in a file named "44.txt" of directory "four" from current directory.

```
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one/two/three/four$ cat > 44.txt
Satyam
^C
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one/two/three/four$ cat 44.txt
Satyam
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one/two/three/four$ █
```

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

```
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one/two/three/four$ cd five
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one/two/three/four/five$ rm 555.txt
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one/two/three/four/five$ ls
55.txt 5.txt
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one/two/three/four/five$
```

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

```

sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~$ cd demo
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo$ cd one
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one$ cd two
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one/two$ cd three
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one/two/three$ cd four
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one/two/three/four$ cd five
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/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-Lenovo-IdeaPad-S340-14IWL:~/demo/one/two/three$ ls
333.txt 33.txt 3.txt four
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one/two/three$ cat > 3.txt
DMc
^C
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one/two/three$ cat 3.txt
DMc
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one/two/three$

```

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

```

sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one/two$ ls
222.txt 22.txt 2.txt three
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one/two$

```

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

```

sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one/two$ ls
222.txt 22.txt 2.txt three
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one/two$ rm 222.txt
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one/two$ ls
22.txt 2.txt three
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one/two$

```

viii. now change the directory to "one"

```

sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one/two$ cd ..
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one$

```

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

```

sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one/two/three/four/five$ rm 55.txt 5.txt
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one/two/three/four/five$ ls
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one/two/three/four/five$

```

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

```

sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one/two/three/four/five$ cd ..
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one/two/three/four$ rm -r five
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one/two/three/four$ ls
444.txt 44.txt 4.txt
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one/two/three/four$

```

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

```

sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one/two/three/four$ cd ..
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one/two/three$ rm -r four
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one/two/three$ ls
333.txt 33.txt 3.txt
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one/two/three$

```

xii. change to your home directory.


```
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one/two/three$ cd ~
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~$
```

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

```
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one/two/three$ stat 3.txt
  File: 3.txt
  Size: 0                Blocks: 0          IO Block: 4096   regular empty file
Device: 804h/2052d      Inode: 9186751    Links: 1
Access: (0664/-rw-rw-r--)  Uid: ( 1000/ sunbeam)   Gid: ( 1000/ sunbeam)
Access: 2123-10-29 04:25:20.000000000 +0530
Modify: 2123-10-29 04:25:20.000000000 +0530
Change: 2023-12-27 20:07:36.222214285 +0530
 Birth: 2023-12-26 17:39:50.793966732 +0530
sunbeam@sunbeam-Lenovo-IdeaPad-S340-14IWL:~/demo/one/two/three$
```