

ASSIGNMENT-2

1. List the directory contents date wise sorted. (man ls)
2. List the directory contents size wise sorted.(man ls)
3. List directory contents along with their inode no. (man ls)
4. List the contents of the subdirectory.
5. Create a file, write your surname and name in it and
 - 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 save it.

```
Pulkits-Laptop:OS pulkitmehta$ ls -S
d1
Pulkits-Laptop:OS pulkitmehta$ ls -ls
total 24
drwxr-xr-x 3 pulkitmehta staff 96 10 Apr 17:40 d1
drwxr-xr-x 2 pulkitmehta staff 64 10 Apr 16:17 dir1
-rw-r--r-- 1 pulkitmehta staff 50 10 Apr 16:31 kdac.txt
-rw-r--r-- 1 pulkitmehta staff 48 10 Apr 18:43 text.txt
-rw-r--r-- 1 pulkitmehta staff 26 10 Apr 17:11 number.txt
-rw-r--r-- 1 pulkitmehta staff 0 10 Apr 18:43 [-A-][17]23]00]
-rw-r--r-- 1 pulkitmehta staff 0 10 Apr 18:41 [-][17]23]00]
-rw-r--r-- 1 pulkitmehta staff 0 10 Apr 16:26 file.txt
Pulkits-Laptop:OS pulkitmehta$ ls -li
total 24
16925644 -rw-r--r-- 1 pulkitmehta staff 0 10 Apr 18:43 [-A-][17]23]00]
16925642 -rw-r--r-- 1 pulkitmehta staff 0 10 Apr 18:41 [-][17]23]00]
16924532 drwxr-xr-x 3 pulkitmehta staff 96 10 Apr 17:40 d1
16916642 drwxr-xr-x 2 pulkitmehta staff 64 10 Apr 16:17 dir1
16917373 -rw-r--r-- 1 pulkitmehta staff 0 10 Apr 16:26 file.txt
16917374 -rw-r--r-- 1 pulkitmehta staff 50 10 Apr 16:31 kdac.txt
16922168 -rw-r--r-- 1 pulkitmehta staff 26 10 Apr 17:11 number.txt
16925166 -rw-r--r-- 1 pulkitmehta staff 48 10 Apr 18:43 text.txt
Pulkits-Laptop:OS pulkitmehta$ ls -lt
total 24
-rw-r--r-- 1 pulkitmehta staff 48 10 Apr 18:43 text.txt
-rw-r--r-- 1 pulkitmehta staff 0 10 Apr 18:43 [-A-][17]23]00]
-rw-r--r-- 1 pulkitmehta staff 0 10 Apr 18:41 [-][17]23]00]
drwxr-xr-x 3 pulkitmehta staff 96 10 Apr 17:40 d1
-rw-r--r-- 1 pulkitmehta staff 26 10 Apr 17:11 number.txt
-rw-r--r-- 1 pulkitmehta staff 50 10 Apr 16:31 kdac.txt
-rw-r--r-- 1 pulkitmehta staff 0 10 Apr 16:26 file.txt
drwxr-xr-x 2 pulkitmehta staff 64 10 Apr 16:17 dir1
Pulkits-Laptop:OS pulkitmehta$ ls d1/d2
d3 file1.txt file2.txt
Pulkits-Laptop:OS pulkitmehta$ ls -ld1/d2
ls: invalid option -- /
usage: ls [-@ABCFGHILOPRSTUWXabdefghiklmnopqrstuvwxy1K,] [--color=when] [--D format] [file ...]
Pulkits-Laptop:OS pulkitmehta$ cat d1/d2
cat: d1/d2: Is a directory
Pulkits-Laptop:OS pulkitmehta$ cat d1
cat: d1: Is a directory
Pulkits-Laptop:OS pulkitmehta$ ls -R d1/d2
d3 file1.txt file2.txt
d1/d2/d3:
Pulkits-Laptop:OS pulkitmehta$ ls -R
[-A-][17]23]00] [-][17]23]00] d1 dir1 file.txt kdac.txt number.txt text.txt
./d1:
./d1/d2:
d3 file1.txt file2.txt
./d1/d2/d3:
./dir1:
Pulkits-Laptop:OS pulkitmehta$ ls -r
text.txt number.txt kdac.txt file.txt dir1 d1 [-][17]23]00] [-A-][17]23]00]
Pulkits-Laptop:OS pulkitmehta$ cat > file.txt
name: pulkit
surname : mehta
Pulkits-Laptop:OS pulkitmehta$ cat >> file.txt
address : haryana
Pulkits-Laptop:OS pulkitmehta$ cat file.txt
name: pulkit
surname : mehta
address : haryana
Pulkits-Laptop:OS pulkitmehta$
```

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

```
[Pulkits-Laptop:OS pulkitmehta$ touch -t 202511091111 updatedTimeFile.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)

```

[Pulkits-Laptop:OS pulkitmehta$ mkdir one
[Pulkits-Laptop:OS pulkitmehta$ cd one
[Pulkits-Laptop:one pulkitmehta$ touch 1.txt 11.txt 111.txt
[Pulkits-Laptop:one pulkitmehta$ mkdir two
[Pulkits-Laptop:one pulkitmehta$ cd two
[Pulkits-Laptop:two pulkitmehta$ touch 2.txt 22.txt 222.txt
[Pulkits-Laptop:two pulkitmehta$ mkdir three
[Pulkits-Laptop:two pulkitmehta$ cd three
[Pulkits-Laptop:three pulkitmehta$ touch 3.txt 33.txt 333.txt
[Pulkits-Laptop:three pulkitmehta$ mkdir four
[Pulkits-Laptop:three pulkitmehta$ cd four
[Pulkits-Laptop:four pulkitmehta$ touch 4.txt 44.txt 444.txt
[Pulkits-Laptop:four pulkitmehta$ mkdir five
[Pulkits-Laptop:four pulkitmehta$ cd five
[Pulkits-Laptop:five pulkitmehta$ touch 5.txt 55.txt 555.txt
[Pulkits-Laptop:five pulkitmehta$ 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).

```

[Pulkits-Laptop:OS pulkitmehta$ ls one/two/three/four/five
5.txt  55.txt  555.txt

```

ii. write your name in a file named "44.txt" of

directory "four" from current directory.

```

[Pulkits-Laptop:OS pulkitmehta$ cat >> one/two/three/four/44.txt
Pulkit
[Pulkits-Laptop:OS pulkitmehta$ cat one/two/three/four/44.txt
Pulkit

```

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

"five" from current directory.

```

[Pulkits-Laptop:OS pulkitmehta$ rm one/two/three/four/five/555.txt
[Pulkits-Laptop:OS pulkitmehta$ ls one/two/three/four/five
5.txt  55.txt

```

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

```
[Pulkits-Laptop:OS pulkitmehta$ cd 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.

```
[Pulkits-Laptop:five pulkitmehta$ cat >> ../../3.txt  
course: DAC  
[Pulkits-Laptop:five pulkitmehta$ cat ../../3.txt  
course: DAC
```

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

```
[Pulkits-Laptop:five pulkitmehta$ ls ../../..  
2.txt  22.txt  222.txt three
```

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

```
[Pulkits-Laptop:five pulkitmehta$ rm ../../222.txt  
[Pulkits-Laptop:five pulkitmehta$ ls ../../..  
2.txt  22.txt  three
```

viii. now change the directory to "one"

```
[Pulkits-Laptop:five pulkitmehta$ cd ../../..  
[Pulkits-Laptop:one pulkitmehta$
```

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

```
[Pulkits-Laptop:one pulkitmehta$ rm -R two/three/four/five  
[Pulkits-Laptop:one pulkitmehta$ ls two/three/four/five
```

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

```
rm: one/two/three/four/five: No such file or directory  
[Pulkits-Laptop:one pulkitmehta$ rm -R two/three/four/five  
[Pulkits-Laptop:one pulkitmehta$ ls two/three/four/five
```

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

```
[Pulkits-Laptop:one pulkitmehta$ rm -r two/three/four  
[Pulkits-Laptop:one pulkitmehta$ ls two/three  
3.txt  33.txt  333.txt
```

xii. change to your home directory.

```
[Pulkits-Laptop:one pulkitmehta$ cd ~  
[Pulkits-Laptop:~ pulkitmehta$
```

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

```
Pulkits-Laptop:one pulkitmehta$ touch -t 202511091111 two/three/3.txt
Pulkits-Laptop:one pulkitmehta$ ls two/three/3.txt
two/three/3.txt
Pulkits-Laptop:one pulkitmehta$ ls two/three/3.txt/
ls: two/three/3.txt/: Not a directory
Pulkits-Laptop:one pulkitmehta$ cat two/three/3.txt
course: DAC
Pulkits-Laptop:one pulkitmehta$ ls -ltwo/three/3.txt
ls: invalid option -- /
usage: ls [-@ABCFGHILOPRSTUWxabcdefghiklmnopqrstuvwxy1%,] [--color=when] [-D format] [file ...]
Pulkits-Laptop:one pulkitmehta$ cd two/three
Pulkits-Laptop:three pulkitmehta$ ls -l
total 8
-rw-r--r--  1 pulkitmehta  staff   12  9 Nov  2025 3.txt
-rw-r--r--  1 pulkitmehta  staff    0 11 Apr 18:39 33.txt
-rw-r--r--  1 pulkitmehta  staff    0 11 Apr 18:39 333.txt
Pulkits-Laptop:three pulkitmehta$
```