

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

```
ls --sort=time
ls -t
ls --sort=time -lh
```

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

```
ls --sort=size
ls -s //print the index number of each file
```

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

```
ls -li, --inode //print the index number of each file
```

Q 4. List the contents of the subdirectory.

```
ls -R, --recursive //list subdirectories recursively
```

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

```
cat > newfile.txt
bidwe abhishek //ctrl+d to save
```

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

```
cat >> newfile.txt //OR
nano newfile.txt //to edit file
pune //ctrl+x to exit
```

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

```
cat newfile.txt
bidwe abhishek
pune
```

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

```
touch -a -m -t 203205050020 newfile.txt
stat newfile.txt
```

File: newfile.txt

```
Size: 20    Blocks: 8    IO Block: 4096  regular file
Device: 808h/2056d Inode: 7612458  Links: 1
Access: (0664/-rw-rw-r--)  Uid: ( 1000/abhishek)  Gid: ( 1000/abhishek)
Access: 2032-05-05 00:20:00.000000000 +0530
Modify: 2032-05-05 00:20:00.000000000 +0530
Change: 2024-03-21 15:17:39.751152369 +0530
Birth: 2024-03-21 14:51:04.934431710 +0530
```

Q 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)
```

Q 8. Considering above directory structure , Do following operations :

i. list the directory contents of directory named "five" from current directory (i.e. home directory).

```
cd /tmp/all_files/one/two/three/four/five
ls -lh
```

```
total 0
```

```
-rw-rw-r-- 1 abhishek abhishek 0 Mar 21 15:26 555.txt
-rw-rw-r-- 1 abhishek abhishek 0 Mar 21 15:26 55.txt
-rw-rw-r-- 1 abhishek abhishek 0 Mar 21 15:26 5.txt
```

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

```
pwd
/tmp/all_files/one/two/three/four/five
cd ..
ls
444.txt 44.txt 4.txt five
nano 44.txt
Abhishek Bidwe
cat 44.txt
Abhishek Bidwe
```

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

```
pwd
/tmp/all_files/one/two/three/four
cd five
ls
```

```
555.txt 55.txt 5.txt
rm 555.txt
ls
55.txt 5.txt
```

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

```
cd ~
cd /tmp/all_files/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.

```
cat > /tmp/all_files/one/two/three/3.txt
course name = DBDA
cat 3.txt
course name = DBDA
```

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

```
pwd
/tmp/all_files/one/two/three/four/five
cd ../../../
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)

```
pwd
/tmp/all_files/one/two/three/four/five
rm /tmp/all_files/one/two/222.txt
ls /tmp/all_files/one/two/
22.txt 2.txt three
```

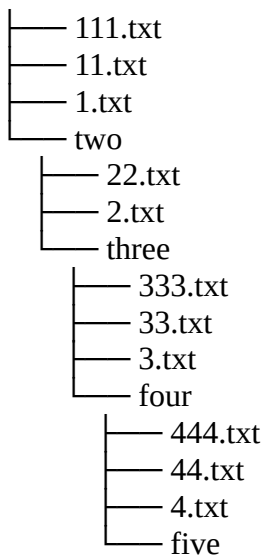
viii. now change the directory to "one"

```
cd /tmp/all_files/one/
```

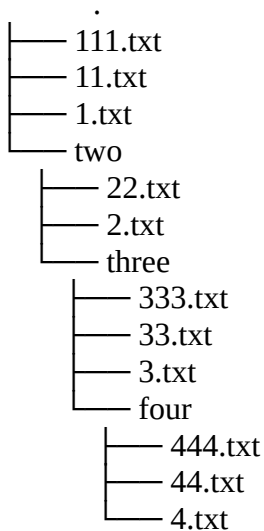
ix. remove all files only from directory named "five"
from current directory (i.e. one)

```
rm /tmp/all_files/one/two/three/four/five/file*
```

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



`rmdir two/three/four/five`



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

`rm -r two/three/four`

xii. change to your home directory.

`cd ~`

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

`touch -a -m -t 199402020050 /tmp/all_files/one/two/three/3.txt`
`stat 3.txt`

File: 3.txt
Size: 19 Blocks: 8 IO Block: 4096 regular file
Device: 808h/2056d Inode: 7636228 Links: 1
Access: (0664/-rw-rw-r--) Uid: (1000/abhishek) Gid: (1000/abhishek)
Access: 1994-02-02 00:50:00.000000000 +0530
Modify: 1994-02-02 00:50:00.000000000 +0530
Change: 2024-03-21 17:05:21.177854110 +0530
Birth: 2024-03-21 15:24:14.351454690 +0530