Linux Commands Assignments - II

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

```
osboxes@osboxes:~$ ls -lt
total 84
-rw-rw-r-- 1 osboxes osboxes   29 Oct  9 09:03 666.txt
-rw-rw-r-- 1 osboxes osboxes   21 Oct  9 08:44 555.htm
lrwxrwxrwx 1 osboxes osboxes    7 Oct  9 08:30 link -> 555.htm
drwxrwxr-x 2 osboxes osboxes 4096 Oct  9 08:19 one
-rw-rw-r-- 1 osboxes osboxes    5 Oct  9 08:05 hidden.htm
drwxrwxr-x 2 osboxes osboxes 4096 Oct  9 08:00 five
-rw-rw-r-- 1 osboxes osboxes    0 Oct  9 07:59 55.htm
-rw-rw-r-- 1 osboxes osboxes    0 Oct  9 07:59 5.htm
drwxrwxr-x 2 osboxes osboxes 4096 Oct  9 07:57 four
drwxrwxr-x 2 osboxes osboxes 4096 Oct  9 07:56 three
drwxrwxr-x 2 osboxes osboxes 4096 Oct  9 07:56 two
-rw-rw-r-- 1 osboxes osboxes    0 Oct  9 07:52 111.htm
-rw-rw-r-- 1 osboxes osboxes    0 Oct  9 07:52 11.htm
-rw-rw-r-- 1 osboxes osboxes    0 Oct  9 07:52 1.htm
-rw-rw-r-- 1 osboxes osboxes   15 Oct  9 06:59 info.htm
drwxrwxr-x 2 osboxes osboxes 4096 Oct  9 06:43 try
-rw-rw-r-- 1 osboxes osboxes   20 Oct  9 06:35 try_again.htm
-rw-rw-r-- 1 osboxes osboxes   53 Oct  9 06:31 try.htm
drwx------ 4 osboxes osboxes 4096 Oct  9 06:00 snap
drwxr-xr-x 2 osboxes osboxes 4096 Jun  3 20:20 Desktop
drwxr-xr-x 2 osboxes osboxes 4096 Jun  3 20:20 Documents
drwxr-xr-x 2 osboxes osboxes 4096 Jun  3 20:20 Downloads
drwxr-xr-x 2 osboxes osboxes 4096 Jun  3 20:20 Music
drwxr-xr-x 2 osboxes osboxes 4096 Jun  3 20:20 Pictures
drwxr-xr-x 2 osboxes osboxes 4096 Jun  3 20:20 Public
drwxr-xr-x 2 osboxes osboxes 4096 Jun  3 20:20 Templates
drwxr-xr-x 2 osboxes osboxes 4096 Jun  3 20:20 Videos
```

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

```
osboxes@osboxes:~$ ls -lS
total 84
0 -rw-rw-r-- 1 osboxes osboxes    0 Oct  9 07:52 111.htm
0 -rw-rw-r-- 1 osboxes osboxes    0 Oct  9 07:52 11.htm
0 -rw-rw-r-- 1 osboxes osboxes    0 Oct  9 07:52 1.htm
4 -rw-rw-r-- 1 osboxes osboxes   21 Oct  9 08:44 555.htm
0 -rw-rw-r-- 1 osboxes osboxes    0 Oct  9 07:59 55.htm
0 -rw-rw-r-- 1 osboxes osboxes    0 Oct  9 07:59 5.htm
4 -rw-rw-r-- 1 osboxes osboxes   29 Oct  9 09:03 666.txt
4 drwxr-xr-x 2 osboxes osboxes 4096 Jun  3 20:20 Desktop
4 drwxr-xr-x 2 osboxes osboxes 4096 Jun  3 20:20 Documents
4 drwxr-xr-x 2 osboxes osboxes 4096 Jun  3 20:20 Downloads
4 drwxrwxr-x 2 osboxes osboxes 4096 Oct  9 08:00 five
4 drwxrwxr-x 2 osboxes osboxes 4096 Oct  9 07:57 four
4 -rw-rw-r-- 1 osboxes osboxes    5 Oct  9 08:05 hidden.htm
4 -rw-rw-r-- 1 osboxes osboxes   15 Oct  9 06:59 info.htm
0 lrwxrwxrwx 1 osboxes osboxes    7 Oct  9 08:30 link -> 555.htm
4 drwxr-xr-x 2 osboxes osboxes 4096 Jun  3 20:20 Music
4 drwxrwxr-x 2 osboxes osboxes 4096 Oct  9 08:19 one
4 drwxr-xr-x 2 osboxes osboxes 4096 Jun  3 20:20 Pictures
4 drwxr-xr-x 2 osboxes osboxes 4096 Jun  3 20:20 Public
4 drwx------ 4 osboxes osboxes 4096 Oct  9 06:00 snap
4 drwxr-xr-x 2 osboxes osboxes 4096 Jun  3 20:20 Templates
4 drwxrwxr-x 2 osboxes osboxes 4096 Oct  9 07:56 three
4 drwxrwxr-x 2 osboxes osboxes 4096 Oct  9 06:43 try
4 -rw-rw-r-- 1 osboxes osboxes   20 Oct  9 06:35 try_again.htm
4 -rw-rw-r-- 1 osboxes osboxes   53 Oct  9 06:31 try.htm
4 drwxrwxr-x 2 osboxes osboxes 4096 Oct  9 07:56 two
4 drwxr-xr-x 2 osboxes osboxes 4096 Jun  3 20:20 Videos
```

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

```
osboxes@osboxes:~$ ls -i
8127358 111.htm   8127375 5.htm      8127374 five       8126546 Music      8126543 Templates    8127359 two
8127357 11.htm    8127384 666.txt    8127370 four       8126555 one        8126366 three        8126548 Videos
8127356 1.htm     8126541 Desktop    8127382 hidden.htm 8126547 Pictures   8127282 try
8127377 555.htm   8126545 Documents  8127350 info.htm   8126544 Public     8127172 try_again.htm
8127376 55.htm    8126542 Downloads  8127383 link       8126470 snap       8127267 try.htm
```

4. List the contents of the subdirectory.

```
osboxes@osboxes:~$ cd one
osboxes@osboxes:~/one$ ls two/four
444.txt  44.txt  4.txt
osboxes@osboxes:~/one$
```

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.

```
osboxes@osboxes:~/one$ echo "parag chaudhari" > info.txt
osboxes@osboxes:~/one$ cat info.txt
parag chaudhari
osboxes@osboxes:~/one$ cat >> info.txt
nityanand nagar,mohadi road,jalgaon.
osboxes@osboxes:~/one$ cat info.txt
parag chaudhari
nityanand nagar,mohadi road,jalgaon.
osboxes@osboxes:~/one$
```

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

```
osboxes@osboxes:~/one$ touch -t 200105301530.30 parag
osboxes@osboxes:~/one$ touch -t 200105301530.30 info.txt
osboxes@osboxes:~/one$ ls -lt
total 8
drwxrwxr-x 3 osboxes osboxes 4096 Oct  9 13:43 two
-rw-rw-r-- 1 osboxes osboxes    0 Oct  9 07:54 111.htm
-rw-rw-r-- 1 osboxes osboxes    0 Oct  9 07:54 11.htm
-rw-rw-r-- 1 osboxes osboxes    0 Oct  9 07:54 1.htm
-rw-rw-r-- 1 osboxes osboxes   53 May 30  2001 info.txt
-rw-rw-r-- 1 osboxes osboxes    0 May 30  2001 parag
```

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)

```
osboxes@osboxes:~$ mkdir first
osboxes@osboxes:~$ cd first
osboxes@osboxes:~/first$ touch 1.txt 11.txt 111.txt
osboxes@osboxes:~/first$ mkdir second
osboxes@osboxes:~/first$ cd second
osboxes@osboxes:~/first/second$ touch 2.txt 22.txt 222.txt
osboxes@osboxes:~/first/second$ mkdir third
osboxes@osboxes:~/first/second$ cd third
osboxes@osboxes:~/first/second/third$ touch 3.txt 33.txt 333.txt
osboxes@osboxes:~/first/second/third$ mkdir four
osboxes@osboxes:~/first/second/third$ cd four
osboxes@osboxes:~/first/second/third/four$ touch 4.txt 44.txt 444.txt
osboxes@osboxes:~/first/second/third/four$ mkdir fifth
osboxes@osboxes:~/first/second/third/four$ cd fifth
osboxes@osboxes:~/first/second/third/four/fifth$ touch 5.txt 55.txt 555.txt
osboxes@osboxes:~/first/second/third/four/fifth$
```

8. Considering above directory structure , Do following operations :

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

```
osboxes@osboxes:~$ ls first/second/third/four/fifth
555.txt  55.txt  5.txt
osboxes@osboxes:~$
```

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

```
osboxes@osboxes:~$ ls first/second/third/four/fifth
555.txt  55.txt  5.txt
osboxes@osboxes:~$ cat > first/second/third/four/44.txt
parag chaudhari
osboxes@osboxes:~$ cat first/second/third/four/44.txt
parag chaudhari
osboxes@osboxes:~$
```

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

```
osboxes@osboxes:~$ ls first/second/third/four/fifth
555.txt  55.txt  5.txt
osboxes@osboxes:~$ cat > first/second/third/four/44.txt
parag chaudhari
osboxes@osboxes:~$ cat first/second/third/four/44.txt
parag chaudhari
osboxes@osboxes:~$
```

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

```
osboxes@osboxes:~$ rm -r first/second/third/four/fifth/555.txt
osboxes@osboxes:~$ ls first/second/third/four/fifth
55.txt  5.txt
osboxes@osboxes:~$
```

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

```
osboxes@osboxes:~$ cd first/second/third/four/fifth
osboxes@osboxes:~/first/second/third/four/fifth$
```

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.

```
osboxes@osboxes:~$ cat > first/second/third/3.txt
Course Name CDAC
osboxes@osboxes:~$ cat first/second/third/3.txt
Course Name CDAC
```

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

```
osboxes@osboxes:~$ ls first/second
222.txt  22.txt  2.txt  third
osboxes@osboxes:~$
```

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

```
osboxes@osboxes:~$ rm -r first/second/222.txt
osboxes@osboxes:~$ ls first/second
22.txt  2.txt  third
```

viii. now change the directory to "one"

```
osboxes@osboxes:~$ cd one
osboxes@osboxes:~/one$
```

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

```
osboxes@osboxes:~/one$ cd
osboxes@osboxes:~$ rm -r first/second/third/four/fifth/
osboxes@osboxes:~$ ls first/second/third/four/fifth/
```

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

```
osboxes@osboxes:~$ rm -r first/second/third/four/fifth/
osboxes@osboxes:~$ ls first/second/third/four/fifth/
ls: cannot access 'first/second/third/four/fifth/': No such file or directory
```

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

```
osboxes@osboxes:~$ rm -r first/second/third/four
osboxes@osboxes:~$ ls first/second/third
333.txt  33.txt  3.txt
```

xii. change to your home directory.

```
osboxes@osboxes:~$ cd first/second/third
osboxes@osboxes:~/first/second/third$ cd
osboxes@osboxes:~$
```

9. change the time stamp of file named "3.txt" which resides

in directory named "three".(man touch)

```
osboxes@osboxes:~$ cd first/second/third
osboxes@osboxes:~/first/second/third$ cd
osboxes@osboxes:~$
```