

Linux Commands Assignments - II

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

```
osboxes@osboxes:~$ ls -lt
total 40
drwxrwxr-x 3 osboxes osboxes 4096 Oct  8 09:30 d1
drwxr-xr-x 3 osboxes osboxes 4096 Oct  7 09:42 Pictures
drwx----- 6 osboxes osboxes 4096 Oct  7 09:18 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 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
osboxes@osboxes:~$
```

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

```
osboxes@osboxes:~$ ls -ls
total 40
4 drwxrwxr-x 3 osboxes osboxes 4096 Oct  8 09:30 d1
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 drwxr-xr-x 2 osboxes osboxes 4096 Jun  3 20:20 Music
4 drwxr-xr-x 3 osboxes osboxes 4096 Oct  7 09:42 Pictures
4 drwxr-xr-x 2 osboxes osboxes 4096 Jun  3 20:20 Public
4 drwx----- 6 osboxes osboxes 4096 Oct  7 09:18 snap
4 drwxr-xr-x 2 osboxes osboxes 4096 Jun  3 20:20 Templates
4 drwxr-xr-x 2 osboxes osboxes 4096 Jun  3 20:20 Videos
osboxes@osboxes:~$
```

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

```
osboxes@osboxes:~$ ls -li
8127283 d1 8126542 Downloads 8126544 Public 8126548 Videos
8126541 Desktop 8126546 Music 8126470 snap
8126545 Documents 8126547 Pictures 8126543 Templates
osboxes@osboxes:~$
```

4. List the contents of the subdirectory.

```
osboxes@osboxes:~/d1/d2$ ls d3
dir2 file2.txt moved.txt
osboxes@osboxes:~/d1/d2$
```

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:~/d1/d2$ touch info.txt
osboxes@osboxes:~/d1/d2$ cat > info.txt
Name : Harshada
Surname : Patil
osboxes@osboxes:~/d1/d2$ cat info.txt
Name : Harshada
Surname : Patil
osboxes@osboxes:~/d1/d2$ cat >> info.txt
Address : Kolhapur
osboxes@osboxes:~/d1/d2$ cat info.txt
Name : Harshada
Surname : Patil
Address : Kolhapur
```

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

```
osboxes@osboxes:~/d1/d2$ touch info.txt
osboxes@osboxes:~/d1/d2$ ls -lt
total 12
-rw-rw-r-- 1 osboxes osboxes 51 Oct  8 10:25 info.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)
```

```
osboxes@osboxes:~$ mkdir one
osboxes@osboxes:~$ cd one
osboxes@osboxes:~/one$ touch 1.txt 11.txt 111.txt
osboxes@osboxes:~/one$ mkdir two
osboxes@osboxes:~/one$ cd two
osboxes@osboxes:~/one/two$ touch 2.txt 22.txt 222.txt
osboxes@osboxes:~/one/two$ mkdir three
osboxes@osboxes:~/one/two$ cd three
osboxes@osboxes:~/one/two/three$ touch 3.txt 33.txt 333.txt
osboxes@osboxes:~/one/two/three$ mkdir four
osboxes@osboxes:~/one/two/three$ cd four
osboxes@osboxes:~/one/two/three/four$ touch 4.txt 44.txt 444.txt
osboxes@osboxes:~/one/two/three/four$ mkdir five
osboxes@osboxes:~/one/two/three/four$ cd five
osboxes@osboxes:~/one/two/three/four/five$ touch 5.txt 55.txt 555.txt
osboxes@osboxes:~/one/two/three/four/five$ cd ~
osboxes@osboxes:~$
```

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 one/two/three/four/five
555.txt  55.txt  5.txt
```

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

```
osboxes@osboxes:~$ cd one/two/three/four
osboxes@osboxes:~/one/two/three/four$ cat > 44.txt
Name : Harshada
osboxes@osboxes:~/one/two/three/four$ cat 44.txt
Name : Harshada
```

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

```
osboxes@osboxes:~/one/two/three/four/five$ rm 555.txt
osboxes@osboxes:~/one/two/three/four/five$ ls
55.txt  5.txt
```

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

```
osboxes@osboxes:~$ cd one/two/three/four/five
osboxes@osboxes:~/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.

```
osboxes@osboxes:~/one/two/three/four/five$ ls ../../
333.txt 33.txt 3.txt four
osboxes@osboxes:~/one/two/three/four/five$ cat > 3.txt
Name: Harshada
^C
osboxes@osboxes:~/one/two/three/four/five$ cat 3.txt
Name: Harshada
osboxes@osboxes:~/one/two/three/four/five$
```

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

```
osboxes@osboxes:~/one/two/three/four/five$ 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)

```
osboxes@osboxes:~/one/two/three/four/five$ rm ../../../222.txt
osboxes@osboxes:~/one/two/three/four/five$ ls
3.txt 55.txt 5.txt
```

viii. now change the directory to "one"

```
osboxes@osboxes:~/one/two/three/four/five$ cd ../../../../
osboxes@osboxes:~/one$
```

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

```
osboxes@osboxes:~/one$ rm two/three/four/five/*
osboxes@osboxes:~/one$ ls two/three/four/five
```

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


```
s osboxes@osboxes:~/one$ rmdir two/three/four/five
```

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

```
osboxes@osboxes:~/one$ rm -r two/three/four
```

xii. change to your home directory.

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

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

```
osboxes@osboxes:~/one/two/three$ touch 3.txt  
osboxes@osboxes:~/one/two/three$ ls -lt  
total 4  
-rw-rw-r-- 1 osboxes osboxes 0 Oct 8 13:04 3.txt  
drwxrwxr-x 3 osboxes osboxes 4096 Oct 8 10:35 four  
-rw-rw-r-- 1 osboxes osboxes 0 Oct 8 10:34 333.txt  
-rw-rw-r-- 1 osboxes osboxes 0 Oct 8 10:34 33.txt  
osboxes@osboxes:~/one/two/three$
```