

Linux Commands Assignments - II

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

```
osboxes@osboxes:~/deependra/dir2$ ls -lt
total 8
-rw-rw-r-- 1 osboxes osboxes 1605 Oct  9 16:10 history
-rw-rw-r-- 1 osboxes osboxes   0 Oct  9 16:06 file.text
-rw-rw-r-- 1 osboxes osboxes  84 Oct  9 15:31 Info.text
```

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

```
osboxes@osboxes:~/deependra/dir2$ ls -st
total 8
4 history  0 file.text  4 Info.text
osboxes@osboxes:~/deependra/dir2$ ls -s
total 8
0 file.text  4 history  4 Info.text
```

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

```
osboxes@osboxes:~/deependra/dir2$ ls -i
8132554 file.text  8130411 history  8132558 Info.text
osboxes@osboxes:~/deependra/dir2$ ls -i | sort
8130411 history
8132554 file.text
8132558 Info.text
osboxes@osboxes:~/deependra/dir2$
```

4. List the contents of the subdirectory.

```
osboxes@osboxes:~/deependra$ ls dir2
file.text history Info.text
osboxes@osboxes:~/deependra$ ls -R
.:
d1 Deepu  dir2  dir3  file.txt mydoc

./d1:
d2

./d1/d2:
d3

./d1/d2/d3:

./dir2:
file.text history Info.text

./dir3:

./mydoc:
```

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

```
osboxes@osboxes:~/deependra$ cat > Myinfo
Surname : Choubey
Name : Deependra
```

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

```
osboxes@osboxes:~/deependra$ cat Myinfo
Surname : Choubey
Name : Deependra
osboxes@osboxes:~/deependra$ cat>>Myinfo
Address : Gwalior
```

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

```
osboxes@osboxes:~/deependra$ cat Myinfo
Surname : Choubey
Name : Deependra
Address : Gwalior
```

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

```
osboxes@osboxes:~/deependra$ ls -l
total 24
drwxrwxr-x 3 osboxes osboxes 4096 Oct  8 19:30 d1
-rw-rw-r-- 1 osboxes osboxes  41 Oct  9 15:14 Deepu
drwxrwxr-x 2 osboxes osboxes 4096 Oct  9 16:10 dir2
drwxrwxr-x 2 osboxes osboxes 4096 Oct  8 19:26 dir3
-rw-rw-r-- 1 osboxes osboxes   0 Oct  8 19:40 file.txt
drwxrwxr-x 2 osboxes osboxes 4096 Oct  8 19:23 mydoc
-rw-rw-r-- 1 osboxes osboxes  55 Oct  9 17:40 Myinfo
osboxes@osboxes:~/deependra$ touch -m file.txt
osboxes@osboxes:~/deependra$ ls -l
total 24
drwxrwxr-x 3 osboxes osboxes 4096 Oct  8 19:30 d1
-rw-rw-r-- 1 osboxes osboxes  41 Oct  9 15:14 Deepu
drwxrwxr-x 2 osboxes osboxes 4096 Oct  9 16:10 dir2
drwxrwxr-x 2 osboxes osboxes 4096 Oct  8 19:26 dir3
-rw-rw-r-- 1 osboxes osboxes   0 Oct  9 17:44 file.txt
drwxrwxr-x 2 osboxes osboxes 4096 Oct  8 19:23 mydoc
-rw-rw-r-- 1 osboxes osboxes  55 Oct  9 17:40 Myinfo
osboxes@osboxes:~/deependra$ touch -h file.txt
```

```

osboxes@osboxes:~/deependra$ ls -l
total 24
drwxrwxr-x 3 osboxes osboxes 4096 Oct  8 19:30 d1
-rw-rw-r-- 1 osboxes osboxes  41 Oct  9 15:14 Deepu
drwxrwxr-x 2 osboxes osboxes 4096 Oct  9 16:10 dir2
drwxrwxr-x 2 osboxes osboxes 4096 Oct  8 19:26 dir3
-rw-rw-r-- 1 osboxes osboxes   0 Oct  9 17:44 file.txt
drwxrwxr-x 2 osboxes osboxes 4096 Oct  8 19:23 mydoc
-rw-rw-r-- 1 osboxes osboxes  55 Oct  9 17:40 Myinfo
osboxes@osboxes:~/deependra$ touch -h Deepu
osboxes@osboxes:~/deependra$ ls -l
total 24
drwxrwxr-x 3 osboxes osboxes 4096 Oct  8 19:30 d1
-rw-rw-r-- 1 osboxes osboxes  41 Oct  9 17:45 Deepu
drwxrwxr-x 2 osboxes osboxes 4096 Oct  9 16:10 dir2
drwxrwxr-x 2 osboxes osboxes 4096 Oct  8 19:26 dir3
-rw-rw-r-- 1 osboxes osboxes   0 Oct  9 17:44 file.txt
drwxrwxr-x 2 osboxes osboxes 4096 Oct  8 19:23 mydoc
-rw-rw-r-- 1 osboxes osboxes  55 Oct  9 17:40 Myinfo
osboxes@osboxes:~/deependra$ man touch
osboxes@osboxes:~/deependra$

```

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:~/deependra$ mkdir one
osboxes@osboxes:~/deependra$ ls
d1 Deepu dir2 dir3 file.txt mydoc Myinfo one
osboxes@osboxes:~/deependra$ cd one
osboxes@osboxes:~/deependra/one$ touch 1.text 11.text 111.text
osboxes@osboxes:~/deependra/one$ mkdir two
osboxes@osboxes:~/deependra/one$ ls
111.text 11.text 1.text two
osboxes@osboxes:~/deependra/one$ cd two
osboxes@osboxes:~/deependra/one/two$ touch 2.txt 22.txt 222.txt
osboxes@osboxes:~/deependra/one/two$ ls
222.txt 22.txt 2.txt
osboxes@osboxes:~/deependra/one/two$ mkdir three
osboxes@osboxes:~/deependra/one/two$ cd three
osboxes@osboxes:~/deependra/one/two/three$ touch 3.text 33.text 333.text
osboxes@osboxes:~/deependra/one/two/three$ ls
333.text 33.text 3.text
osboxes@osboxes:~/deependra/one/two/three$ mkdir four
osboxes@osboxes:~/deependra/one/two/three$ mkdir four
osboxes@osboxes:~/deependra/one/two/three$ ls
333.text 33.text 3.text four
osboxes@osboxes:~/deependra/one/two/three$ cd four
osboxes@osboxes:~/deependra/one/two/three/four$ touch 4.text 44.text 444.text
osboxes@osboxes:~/deependra/one/two/three/four$ ls
444.text 44.text 4.text
osboxes@osboxes:~/deependra/one/two/three/four$ mkdir five
osboxes@osboxes:~/deependra/one/two/three/four$ ls
444.text 44.text 4.text five
osboxes@osboxes:~/deependra/one/two/three/four$ cd five
osboxes@osboxes:~/deependra/one/two/three/four/five$ touch 5.text 55.text 555.text
osboxes@osboxes:~/deependra/one/two/three/four/five$ ls
555.text 55.text 5.text
osboxes@osboxes:~/deependra/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 deependra/one/two/three/four/five
555.text 55.text 5.text

```

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

```
osboxes@osboxes:~$ cat >>deependra/one/two/three/four/44.txt
Name : Deependra Sharma
osboxes@osboxes:~$ cat deependra/one/two/three/four/44.txt
This is 44 dir here we write
Name : Deependra Sharma
```

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

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

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

```
osboxes@osboxes:~$ cd deependra/one/two/three/four/five/
osboxes@osboxes:~/deependra/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:~/deependra/one/two/three/four/five$ cat >> ../../3.txt
Course name @ CDAC
osboxes@osboxes:~/deependra/one/two/three/four/five$ cat ../../3.txt
CourseName:CDAC
Course name @ CDAC
```

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

```
osboxes@osboxes:~/deependra/one/two/three/four/five$ ls ../../..
22.txt  2.txt  three
```

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

```
osboxes@osboxes:~/deependra/one/two/three/four/five$ ls ../../..
222.txt  22.txt  2.txt  three
osboxes@osboxes:~/deependra/one/two/three/four/five$ rm ../../..222.txt
osboxes@osboxes:~/deependra/one/two/three/four/five$ ls ../../..
22.txt  2.txt  three
osboxes@osboxes:~/deependra/one/two/three/four/five$
```

viii. now change the directory to "one"

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

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

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

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

```
osboxes@osboxes:~/deependra/one$ ls two/three/four/
444.txt  44.txt  4.txt  five
osboxes@osboxes:~/deependra/one$ rm -r two/three/four/five
osboxes@osboxes:~/deependra/one$ ls two/three/four/
444.txt  44.txt  4.txt
osboxes@osboxes:~/deependra/one$
```


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

```
osboxes@osboxes:~/deependra/one$ ls two/three/
333.text 33.text 3.text 3.txt four
osboxes@osboxes:~/deependra/one$ rm -r two/three/four
osboxes@osboxes:~/deependra/one$ ls two/three/
333.text 33.text 3.text 3.txt
osboxes@osboxes:~/deependra/one$
```

xii. change to your home directory.

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

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

```
osboxes@osboxes:~/deependra/one/two/three$ ls -l
total 4
-rw-rw-r-- 1 osboxes osboxes 0 Oct 9 17:50 333.text
-rw-rw-r-- 1 osboxes osboxes 0 Oct 9 17:50 33.text
-rw-rw-r-- 1 osboxes osboxes 0 Oct 9 17:50 3.text
-rw-rw-r-- 1 osboxes osboxes 16 Oct 9 18:30 3.txt
osboxes@osboxes:~/deependra/one/two/three$ touch -h 3.txt
osboxes@osboxes:~/deependra/one/two/three$ ls -l
total 4
-rw-rw-r-- 1 osboxes osboxes 0 Oct 9 17:50 333.text
-rw-rw-r-- 1 osboxes osboxes 0 Oct 9 17:50 33.text
-rw-rw-r-- 1 osboxes osboxes 0 Oct 9 17:50 3.text
-rw-rw-r-- 1 osboxes osboxes 16 Oct 9 19:03 3.txt
osboxes@osboxes:~/deependra/one/two/three$
```