Linux Commands Assignments - II

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

```
osboxes@osboxes:~$ ls -lt
total 68
drwxrwxr-x 2 osboxes osboxes 4096 Oct  9 05:50 d.txt
-rw-rw-r-- 1 osboxes osboxes    0 Oct  9 05:45 output.txt
-rw-rw-r-- 1 osboxes osboxes    5 Oct  9 05:43 input.txt
drwxr-xr-x 2 osboxes osboxes 4096 Oct  9 05:17 Downloads
drwx------ 7 osboxes osboxes 4096 Oct  8 08:57 snap
drwxrwxr-x 3 osboxes osboxes 4096 Oct  8 08:31 dir2
-rw-rw-r-- 1 osboxes osboxes  104 Oct  8 08:25 moved.txt
-rw-rw-r-- 1 osboxes osboxes  104 Oct  8 08:23 catfile.txt
-rw-rw-r-- 1 osboxes osboxes    0 Oct  8 08:20 file3.txt
-rw-rw-r-- 1 osboxes osboxes    0 Oct  8 08:19 fle.txt
drwxrwxr-x 3 osboxes osboxes 4096 Oct  8 08:16 d1
drwxrwxr-x 2 osboxes osboxes 4096 Oct  8 08:13 dir3
-rw-rw-r-- 1 osboxes osboxes   76 Oct  7 09:12 fi.txt
-rw-rw-r-- 1 osboxes osboxes    0 Oct  7 09:10 cat
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 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
osboxes@osboxes:~$
```

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

```
osboxes@osboxes:~$ ls -lS
total 68
drwxrwxr-x 3 osboxes osboxes 4096 Oct  8 08:16 d1
drwxr-xr-x 2 osboxes osboxes 4096 Jun  3 20:20 Desktop
drwxrwxr-x 3 osboxes osboxes 4096 Oct  8 08:31 dir2
drwxrwxr-x 2 osboxes osboxes 4096 Oct  8 08:13 dir3
drwxr-xr-x 2 osboxes osboxes 4096 Jun  3 20:20 Documents
drwxr-xr-x 2 osboxes osboxes 4096 Oct  9 05:17 Downloads
drwxr-xr-x 2 osboxes osboxes 4096 Oct  9 05:50 d.txt
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
drwx------ 7 osboxes osboxes 4096 Oct  8 08:57 snap
drwxr-xr-x 2 osboxes osboxes 4096 Jun  3 20:20 Templates
drwxr-xr-x 2 osboxes osboxes 4096 Jun  3 20:20 Videos
-rw-rw-r-- 1 osboxes osboxes  104 Oct  8 08:23 catfile.txt
-rw-rw-r-- 1 osboxes osboxes  104 Oct  8 08:25 moved.txt
-rw-rw-r-- 1 osboxes osboxes   76 Oct  7 09:12 fi.txt
-rw-rw-r-- 1 osboxes osboxes    5 Oct  9 05:43 input.txt
-rw-rw-r-- 1 osboxes osboxes    0 Oct  7 09:10 cat
-rw-rw-r-- 1 osboxes osboxes    0 Oct  8 08:20 file3.txt
-rw-rw-r-- 1 osboxes osboxes    0 Oct  8 08:19 fle.txt
-rw-rw-r-- 1 osboxes osboxes    0 Oct  9 05:45 output.txt
osboxes@osboxes:~$
```

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

–

```
osboxes@osboxes:~$ ls -i
8127262 cat            8126545 Documents  8130728 input.txt   8126470 snap
8128176 catfile.txt    8126542 Downloads  8128173 moved.txt   8126543 Templates
8127162 d1             8127852 d.txt       8126546 Music        8126548 Videos
8126541 Desktop        8128175 file3.txt   8130743 output.txt
8128165 dir2           8127269 fi.txt      8126547 Pictures
8128166 dir3           8128167 fle.txt     8126544 Public
osboxes@osboxes:~$
```

4. List the contents of the subdirectory.

Ans –

```
osboxes@osboxes:~$ ls -R /home/osboxes/dir2
/home/osboxes/dir2:
file2.txt   move

/home/osboxes/dir2/move:
copy.txt
osboxes@osboxes:~$
```

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. Ans –

```
osboxes@osboxes:~$ cat > name.txt
Name: Aman Khare
osboxes@osboxes:~$ > name.txt
osboxes@osboxes:~$ cat > name.txt
Name: Aman
Surname: Khare
osboxes@osboxes:~$ cat  name.txt
Name: Aman
Surname: Khare
osboxes@osboxes:~$ cat >> name.txt
Address: Jhansi
osboxes@osboxes:~$
osboxes@osboxes:~$ cat  name.txt
Name: Aman
Surname: Khare
Address: Jhansi
```

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

```
osboxes@osboxes:~$ touch -t 202306081230 cat
osboxes@osboxes:~$ ls cat
```

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)

Ans –

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
osboxes@osboxes:~$
```

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

```
osboxes@osboxes:~$ echo "Name : Yash Gupta" >./one/two/three/four/44.txt
osboxes@osboxes:~$ cd one/two/three/four
osboxes@osboxes:~/one/two/three/four$ cat 44.txt
Name : Yash Gupta
osboxes@osboxes:~/one/two/three/four$
```

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

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

    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$ cat > ../../3.txt
Course : CDAC
^C
osboxes@osboxes:~/one/two/three/four/five$ cat  ../../3.txt
Course : CDAC
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
osboxes@osboxes:~/one/two/three/four/five$
```

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

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

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

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

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

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

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)

Ans –

```
osboxes@osboxes:~$ touch -t 202312090405 ./one/two/three/3.txt

osboxes@osboxes:~$ ls -lt ./one/two/three
total 4
-rw-rw-r-- 1 osboxes osboxes  0 Oct  9 06:49 333.txt
-rw-rw-r-- 1 osboxes osboxes  0 Oct  9 06:49 33.txt
-rw-rw-r-- 1 osboxes osboxes 14 Dec  9  2023 3.txt
osboxes@osboxes:~$
```