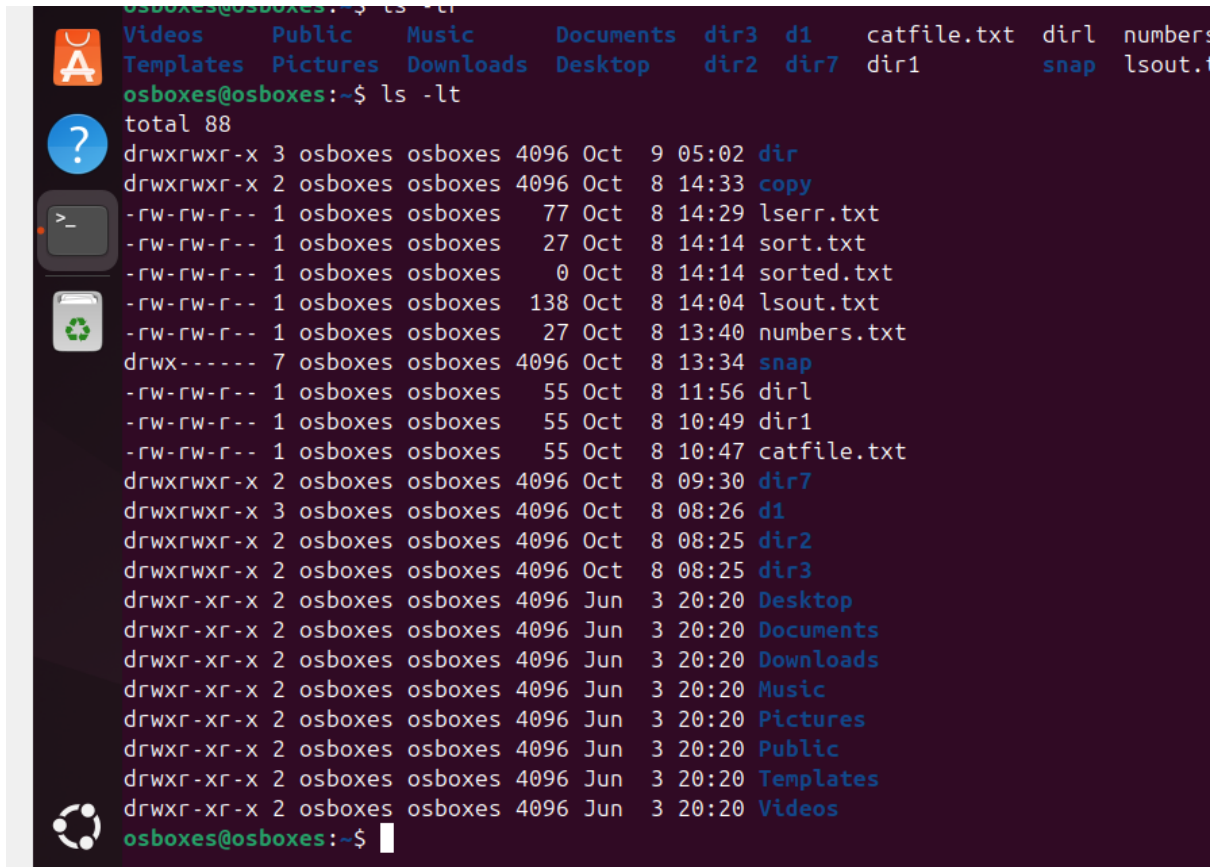


Assignment 02

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

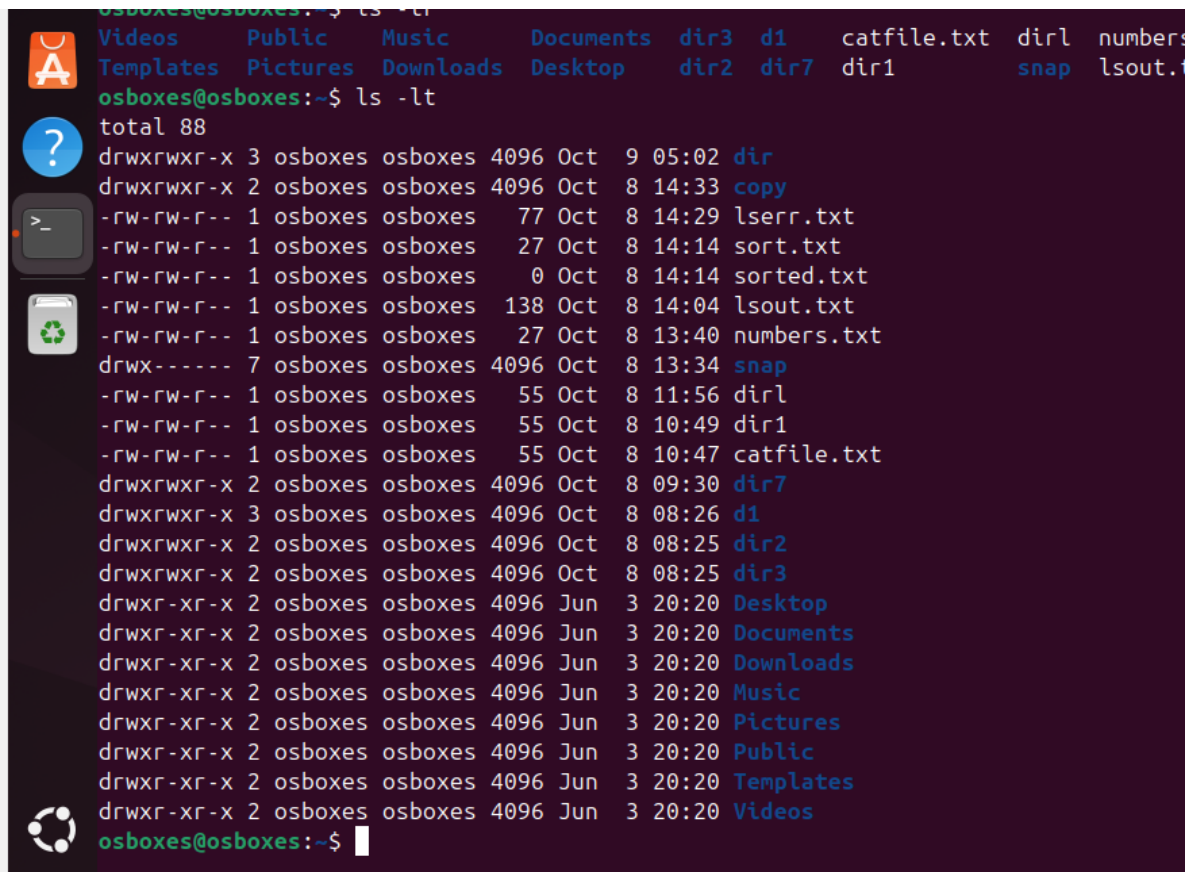
Ans→ls -lt



```
osboxes@osboxes:~$ ls -lt
total 88
drwxrwxr-x 3 osboxes osboxes 4096 Oct  9 05:02 dir
drwxrwxr-x 2 osboxes osboxes 4096 Oct  8 14:33 copy
-rw-rw-r-- 1 osboxes osboxes  77 Oct  8 14:29 lserr.txt
-rw-rw-r-- 1 osboxes osboxes  27 Oct  8 14:14 sort.txt
-rw-rw-r-- 1 osboxes osboxes   0 Oct  8 14:14 sorted.txt
-rw-rw-r-- 1 osboxes osboxes 138 Oct  8 14:04 lsout.txt
-rw-rw-r-- 1 osboxes osboxes  27 Oct  8 13:40 numbers.txt
drwx----- 7 osboxes osboxes 4096 Oct  8 13:34 snap
-rw-rw-r-- 1 osboxes osboxes  55 Oct  8 11:56 dirl
-rw-rw-r-- 1 osboxes osboxes  55 Oct  8 10:49 dir1
-rw-rw-r-- 1 osboxes osboxes  55 Oct  8 10:47 catfile.txt
drwxrwxr-x 2 osboxes osboxes 4096 Oct  8 09:30 dir7
drwxrwxr-x 3 osboxes osboxes 4096 Oct  8 08:26 d1
drwxrwxr-x 2 osboxes osboxes 4096 Oct  8 08:25 dir2
drwxrwxr-x 2 osboxes osboxes 4096 Oct  8 08:25 dir3
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
osboxes@osboxes:~$
```

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

Ans→ls -ls



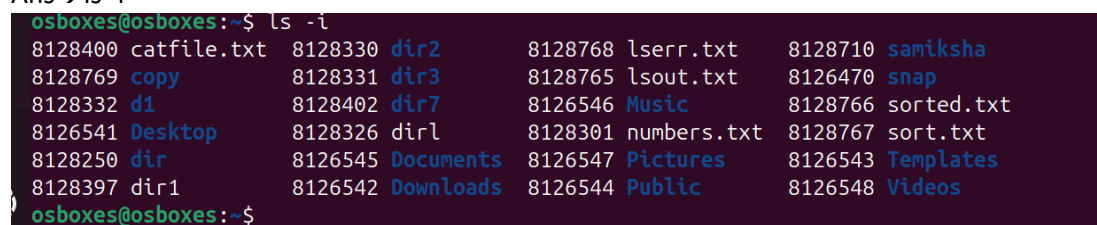
```

osboxes@osboxes:~$ ls -lt
total 88
drwxrwxr-x 3 osboxes osboxes 4096 Oct  9 05:02 dir
drwxrwxr-x 2 osboxes osboxes 4096 Oct  8 14:33 copy
-rw-rw-r-- 1 osboxes osboxes  77 Oct  8 14:29 lserr.txt
-rw-rw-r-- 1 osboxes osboxes  27 Oct  8 14:14 sort.txt
-rw-rw-r-- 1 osboxes osboxes   0 Oct  8 14:14 sorted.txt
-rw-rw-r-- 1 osboxes osboxes 138 Oct  8 14:04 lsout.txt
-rw-rw-r-- 1 osboxes osboxes  27 Oct  8 13:40 numbers.txt
drwx----- 7 osboxes osboxes 4096 Oct  8 13:34 snap
-rw-rw-r-- 1 osboxes osboxes  55 Oct  8 11:56 dirl
-rw-rw-r-- 1 osboxes osboxes  55 Oct  8 10:49 dir1
-rw-rw-r-- 1 osboxes osboxes  55 Oct  8 10:47 catfile.txt
drwxrwxr-x 2 osboxes osboxes 4096 Oct  8 09:30 dir7
drwxrwxr-x 3 osboxes osboxes 4096 Oct  8 08:26 d1
drwxrwxr-x 2 osboxes osboxes 4096 Oct  8 08:25 dir2
drwxrwxr-x 2 osboxes osboxes 4096 Oct  8 08:25 dir3
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
osboxes@osboxes:~$

```

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

Ans→ls -li



```

osboxes@osboxes:~$ ls -li
8128400 catfile.txt 8128330 dir2      8128768 lserr.txt  8128710 samiksha
8128769 copy        8128331 dir3      8128765 lsout.txt   8126470 snap
8128332 d1          8128402 dir7      8126546 Music    8128766 sorted.txt
8126541 Desktop    8128326 dirl     8128301 numbers.txt 8128767 sort.txt
8128250 dir         8126545 Documents 8126547 Pictures 8126543 Templates
8128397 dir1      8126542 Downloads 8126544 Public   8126548 Videos
osboxes@osboxes:~$

```

4. List the contents of the subdirectory.

ls -R

```
osboxes@osboxes:~$ ls -R
.:
catfile.txt Desktop dir2 dirl lserr.txt numbers.txt samiksha sort.txt
copy dir dir3 Documents lsout.txt Pictures snap Templates
d1 dir1 dir7 Downloads Music Public sorted.txt Videos

./copy:

./d1:
d2

./d1/d2:
d3

./d1/d2/d3:
d4

./d1/d2/d3/d4:

./Desktop:
```

```
osboxes@osboxes: ~
dir
./dir/dir:
./dir2:
./dir3:
./dir7:
./Documents:
./Downloads:
./Music:
./Pictures:
./Public:
./samiksha:
./snap:
```

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

```
./Videos:
osboxes@osboxes:~$ cd samiksha
osboxes@osboxes:~/samiksha$ cat> selfinfo.txt
Name:samiksha
surname:kale
osboxes@osboxes:~/samiksha$
```

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

```
osboxes@osboxes:~/Videos$  
osboxes@osboxes:~$ cd samiksha  
osboxes@osboxes:~/samiksha$ cat selfinfo.txt  
Name:samiksha  
surname:kale  
osboxes@osboxes:~/samiksha$ cat >> selfinfo.txt  
Address:aurangabad  
osboxes@osboxes:~/samiksha$ cat selfinfo.txt  
Name:samiksha  
surname:kale  
Address:aurangabad  
osboxes@osboxes:~/samiksha$
```

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

```
osboxes@osboxes:~/samiksha$ cat selfinfo.txt  
Name:samiksha  
surname:kale  
Address:aurangabad  
osboxes@osboxes:~/samiksha$
```

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

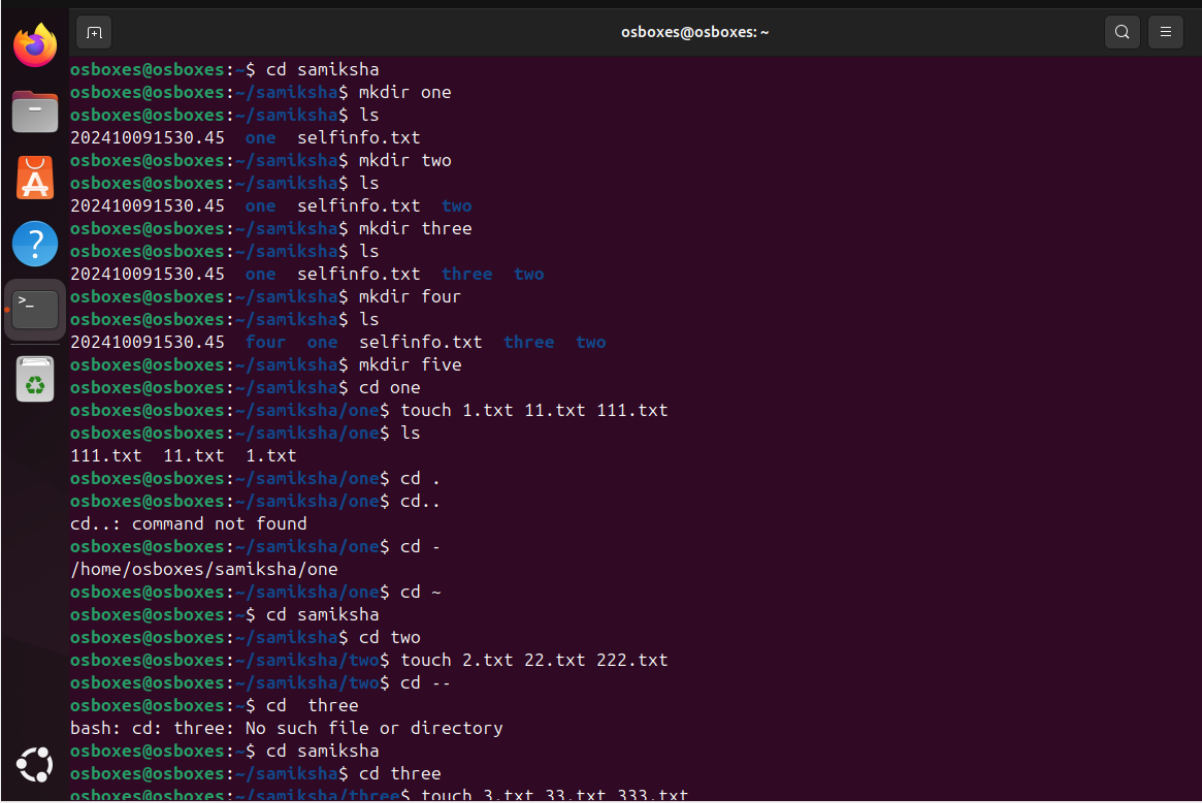
Ans→

```
osboxes@osboxes:~/samiksha$ touch 202410091530.45 selfinfo.txt  
osboxes@osboxes:~/samiksha$ ls -lt  
total 4  
-rw-rw-r-- 1 osboxes osboxes 0 Oct 9 15:38 202410091530.45  
-rw-rw-r-- 1 osboxes osboxes 46 Oct 9 15:38 selfinfo.txt  
osboxes@osboxes:~/samiksha$
```

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: ~  
osboxes@osboxes:~$ cd samiksha  
osboxes@osboxes:~/samiksha$ mkdir one  
osboxes@osboxes:~/samiksha$ ls  
202410091530.45  one  selfinfo.txt  
osboxes@osboxes:~/samiksha$ mkdir two  
osboxes@osboxes:~/samiksha$ ls  
202410091530.45  one  selfinfo.txt  two  
osboxes@osboxes:~/samiksha$ mkdir three  
osboxes@osboxes:~/samiksha$ ls  
202410091530.45  one  selfinfo.txt  three  two  
osboxes@osboxes:~/samiksha$ mkdir four  
osboxes@osboxes:~/samiksha$ ls  
202410091530.45  four  one  selfinfo.txt  three  two  
osboxes@osboxes:~/samiksha$ mkdir five  
osboxes@osboxes:~/samiksha$ cd one  
osboxes@osboxes:~/samiksha/one$ touch 1.txt 11.txt 111.txt  
osboxes@osboxes:~/samiksha/one$ ls  
111.txt 11.txt 1.txt  
osboxes@osboxes:~/samiksha/one$ cd .  
osboxes@osboxes:~/samiksha/one$ cd..  
cd.: command not found  
osboxes@osboxes:~/samiksha/one$ cd -  
/home/osboxes/samiksha/one  
osboxes@osboxes:~/samiksha/one$ cd ~  
osboxes@osboxes:~$ cd samiksha  
osboxes@osboxes:~/samiksha$ cd two  
osboxes@osboxes:~/samiksha/two$ touch 2.txt 22.txt 222.txt  
osboxes@osboxes:~/samiksha/two$ cd -  
osboxes@osboxes:~$ cd three  
bash: cd: three: No such file or directory  
osboxes@osboxes:~$ cd samiksha  
osboxes@osboxes:~/samiksha$ cd three  
osboxes@osboxes:~/samiksha/three$ touch 3.txt 33.txt 333.txt
```

```
Oct 9 16:31
osboxes@osboxes: ~
osboxes@osboxes:~/samiksha$ ls
202410091530.45 four one selfinfo.txt three two
osboxes@osboxes:~/samiksha$ mkdir five
osboxes@osboxes:~/samiksha$ cd one
osboxes@osboxes:~/samiksha/one$ touch 1.txt 11.txt 111.txt
osboxes@osboxes:~/samiksha/one$ ls
111.txt 11.txt 1.txt
osboxes@osboxes:~/samiksha/one$ cd .
osboxes@osboxes:~/samiksha/one$ cd..
cd..: command not found
osboxes@osboxes:~/samiksha/one$ cd -
/home/osboxes/samiksha/one
osboxes@osboxes:~/samiksha/one$ cd ~
osboxes@osboxes:~$ cd samiksha
osboxes@osboxes:~/samiksha$ cd two
osboxes@osboxes:~/samiksha/two$ touch 2.txt 22.txt 222.txt
osboxes@osboxes:~/samiksha/two$ cd --
osboxes@osboxes:~$ cd three
bash: cd: three: No such file or directory
osboxes@osboxes:~$ cd samiksha
osboxes@osboxes:~/samiksha$ cd three
osboxes@osboxes:~/samiksha/three$ touch 3.txt 33.txt 333.txt
osboxes@osboxes:~/samiksha/three$ cd ~
osboxes@osboxes:~$ cd samiksha
osboxes@osboxes:~/samiksha$ cd four
osboxes@osboxes:~/samiksha/four$ touch 4.txt 44.txt 444.txt
osboxes@osboxes:~/samiksha/four$ cd ~
osboxes@osboxes:~$ cd samiksha
osboxes@osboxes:~/samiksha$ cd five
osboxes@osboxes:~/samiksha/five$ touch 5.txt 55.txt 555.txt
osboxes@osboxes:~/samiksha/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
osboxes@osboxes:~$
```

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

```
sboxes@osboxes:~$ echo "Mrunali Pardhi" >one/two/three/four/44.txt
sboxes@osboxes:~$ cat one/two/three/four/44.txt
Mrunali Pardhi
sboxes@osboxes:~$
```

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$ pwd
/home/osboxes/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.

```
cat: ../../three/3.txt: No such file or directory
osboxes@osboxes:~/one/two/three/four/five$ cat ../../../../three/3.txt
osboxes@osboxes:~/one/two/three/four/five$ echo "CDAC" > ../../../../three/3.txt
osboxes@osboxes:~/one/two/three/four/five$ cat ../../../../three/3.txt
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 /home/osboxes/one/two
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 /home/osboxes/one/two/222.txt
```

viii. now change the directory to "one"

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

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

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

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

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

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

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

xii. change to your home directory.

```
osboxes@osboxes:~$ 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 one/two/three/3.txt
osboxes@osboxes:~$ ls -l one/two/three/3.txt
-rw-rw-r-- 1 osboxes osboxes 5 Oct  8 14:10 one/two/three/3.txt
osboxes@osboxes:~$
```