

Answer to the ques no-01

The following questions are related to Linux Shell Command

a. Create 4 files named yourID_1.txt, yourID_2.txt, yourID_3, yourID_4.txt and 2 directories named YourName1, YourName2.

```
anindya@anindya-ubuntu: ~  
anindya@anindya-ubuntu:~$ touch 23241062_1.txt  
anindya@anindya-ubuntu:~$ touch 23241062_2.txt  
anindya@anindya-ubuntu:~$ touch 23241062_3.txt  
anindya@anindya-ubuntu:~$ touch 23241062_4.txt  
anindya@anindya-ubuntu:~$ mkdir AnindyaMajumder1  
anindya@anindya-ubuntu:~$ mkdir AnindyaMajumder2  
anindya@anindya-ubuntu:~$ ls  
23241062_1.txt  23241062_4.txt  Desktop  Pictures  Templates  
23241062_2.txt  AnindyaMajumder1 Documents  Public    Videos  
23241062_3.txt  AnindyaMajumder2 Music      snap
```

Move yourID_1.txt, yourID_2.txt, yourID_3.txt in YourName1 directory. Copy yourID_1.txt, yourID_2.txt YourName2 directory.

```
anindya@anindya-ubuntu:~$ mv 23241062_1.txt 23241062_2.txt 23241062_3.txt ~/AnindyaMajumder1  
anindya@anindya-ubuntu:~$ cd AnindyaMajumder1  
anindya@anindya-ubuntu:~/AnindyaMajumder1$ cp 23241062_1.txt 23241062_2.txt ~/AnindyaMajumder2
```

Create another directory YourName3. Now, copy the YourName1 directory along with its contents to the YourName3 directory.

```
anindya@anindya-ubuntu:~/AnindyaMajumder1$ cd ..  
anindya@anindya-ubuntu:~$ mkdir AnindyaMajumder3  
anindya@anindya-ubuntu:~$ cp -r AnindyaMajumder1 ~/AnindyaMajumder3  
anindya@anindya-ubuntu:~$ cd AnindyaMajumder3  
anindya@anindya-ubuntu:~/AnindyaMajumder3$ ls  
AnindyaMajumder1
```

Now go into the YourName3 directory and check the permissions of the files/directory and change the permissions for both groups and others to only read-execute for all the files.

```

anindya@anindya-ubuntu:~/AnindyaMajumder3$ ls -l
total 4
drwxrwxr-x 2 anindya anindya 4096 Dec 14 19:13 AnindyaMajumder1
anindya@anindya-ubuntu:~/AnindyaMajumder3$ chmod 755 AnindyaMajumder1
anindya@anindya-ubuntu:~/AnindyaMajumder3$ ls -l
total 4
drwxr-xr-x 2 anindya anindya 4096 Dec 14 19:13 AnindyaMajumder1

```

Now go back to one directory and print all the directories and files in the current working directory.

```

anindya@anindya-ubuntu:~/AnindyaMajumder3$ cd ..
anindya@anindya-ubuntu:~$ ls -l
total 44
-rw-rw-r-- 1 anindya anindya 0 Dec 14 19:08 23241062_4.txt
drwxrwxr-x 2 anindya anindya 4096 Dec 14 19:10 AnindyaMajumder1
drwxrwxr-x 2 anindya anindya 4096 Dec 14 19:10 AnindyaMajumder2
drwxrwxr-x 3 anindya anindya 4096 Dec 14 19:13 AnindyaMajumder3
drwxr-xr-x 2 anindya anindya 4096 Dec 4 21:09 Desktop
drwxr-xr-x 2 anindya anindya 4096 Dec 12 15:37 Documents
drwxr-xr-x 2 anindya anindya 4096 Nov 13 21:06 Music
drwxr-xr-x 2 anindya anindya 4096 Nov 13 21:06 Pictures
drwxr-xr-x 2 anindya anindya 4096 Nov 13 21:06 Public
drwx----- 6 anindya anindya 4096 Dec 5 15:02 snap
drwxr-xr-x 2 anindya anindya 4096 Nov 13 21:06 Templates
drwxr-xr-x 2 anindya anindya 4096 Nov 13 21:06 Videos

```

Finally, move the YourName3 folder to the root directory and delete the rest of the files and folders in the current working directory.

```

anindya@anindya-ubuntu:~$ sudo mv AnindyaMajumder3 /
anindya@anindya-ubuntu:~$ rm -r *

```

Write down all the commands in the exact same order as you have written in the command line while following the instructions.

```

touch 23241062_1.txt
touch 23241062_2.txt
touch 23241062_3.txt
touch 23241062_4.txt
mkdir AnindyaMajumder1
mkdir AnindyaMajumder2

```

```

mv 23241062_1.txt 23241062_2.txt 23241062_3.txt ~/AnindyaMajumder1

```

```

cd AnindyaMajumder1

```

```
cp 23241062_1.txt 23241062_2.txt ~/AnindyaMajumder2  
cd ..
```

```
mkdir AnindyaMajumder3  
cp -r AnindyaMajumder1 ~/AnindyaMajumder3
```

```
cd AnindyaMajumder3  
ls -l
```

```
chmod 755 AnindyaMajumder1  
cd ..  
ls -l
```

```
sudo mv AnindyaMajumder3 /  
rm -r *
```

b. Create a file containing your running semester's course information (course IDs, Course names, Sections, etc.) Count the lines containing the word "CSE" in that file named course.txt

```
anindya@anindya-ubuntu:~$ touch course.txt  
anindya@anindya-ubuntu:~$ cat>>course.txt  
CSE321 Operating Systems 09  
CSE463 Computer Vision 01  
CSE470 Software Engineering 01  
CSE440 Natural Language Processing 02anindya@anindya-ubuntu:~$  
anindya@anindya-ubuntu:~$ grep -c "CSE" course.txt  
4
```

c. Show all the hidden files in your root directory.

```
anindya@anindya-ubuntu:~$ cd /
anindya@anindya-ubuntu:/$ ls -la
total 4009064
drwxr-xr-x 24 root root 4096 Dec 14 19:23 .
drwxr-xr-x 24 root root 4096 Dec 14 19:23 ..
drwxrwxr-x 3 anindya anindya 4096 Dec 14 19:13 AnindyaMajumder3
lrwxrwxrwx 1 root root 7 Apr 22 2024 bin -> usr/bin
drwxr-xr-x 2 root root 4096 Feb 26 2024 bin.usr-is-merged
drwxr-xr-x 3 root root 4096 Nov 14 14:31 boot
dr-xr-xr-x 2 root root 4096 Aug 27 22:22 cdrom
drwxr-xr-x 19 root root 4200 Dec 14 18:49 dev
drwxr-xr-x 140 root root 12288 Dec 5 13:35 etc
drwxr-xr-x 3 root root 4096 Nov 13 21:05 home
lrwxrwxrwx 1 root root 7 Apr 22 2024 lib -> usr/lib
lrwxrwxrwx 1 root root 9 Apr 22 2024 lib64 -> usr/lib64
drwxr-xr-x 2 root root 4096 Apr 8 2024 lib.usr-is-merged
drwx----- 2 root root 16384 Nov 13 20:46 lost+found
drwxr-xr-x 2 root root 4096 Aug 27 21:37 media
drwxr-xr-x 2 root root 4096 Aug 27 21:37 mnt
drwxr-xr-x 2 root root 4096 Aug 27 21:37 opt
dr-xr-xr-x 284 root root 0 Dec 14 18:49 proc
drwx----- 5 root root 4096 Nov 13 21:05 root
drwxr-xr-x 35 root root 880 Dec 14 19:14 run
lrwxrwxrwx 1 root root 8 Apr 22 2024/sbin -> usr/sbin
drwxr-xr-x 2 root root 4096 Mar 31 2024/sbin.usr-is-merged
drwxr-xr-x 14 root root 4096 Dec 5 15:02 snap
drwxr-xr-x 2 root root 4096 Aug 27 21:37 srv
-rw----- 1 root root 4105175040 Nov 13 20:55 swap.img
dr-xr-xr-x 13 root root 0 Dec 14 19:49 sys
drwxrwxrwt 19 root root 4096 Dec 14 19:44 tmp
drwxr-xr-x 12 root root 4096 Aug 27 21:37 usr
drwxr-xr-x 14 root root 4096 Nov 13 21:05 var
anindya@anindya-ubuntu:/$
```

d. Show only lines 5-17 of a .txt file(you have to create a file containing more than 17 line)

```
anindya@anindya-ubuntu:~$ touch dummy.txt
anindya@anindya-ubuntu:~$ cat >> dummy.txt
line one
line two
line three
line four
line five
line six
line seven
line eight
line nine
line ten
line eleven
line twelve
line thirteen
line fourteen
line fifteen
line sixteen
line seventeen
line eighteen
line nineteen
line twenty
anindya@anindya-ubuntu:~$ head -n 17 dummy.txt | tail -n +5
line five
line six
line seven
line eight
line nine
line ten
line eleven
line twelve
line thirteen
line fourteen
line fifteen
line sixteen
line seventeen
```