

Task 1 (a)

1. **Creating Four Files and Two Directories** → touch 22341082_1.txt 22341082_2.txt 22341082_3.txt 22341082_4.txt; mkdir badhon1 badhon2

```
badhon@lmde:~/Code/321_Assignment_1$ touch 22341082_1.txt 22341082_2.txt 22341082_3.txt 22341082_4.txt; mkdir badhon1 badhon2
badhon@lmde:~/Code/321_Assignment_1$ ls
22341082_1.txt 22341082_2.txt 22341082_3.txt 22341082_4.txt badhon1 badhon2
badhon@lmde:~/Code/321_Assignment_1$
```

2. **Moving txt file** → mv 22341082_1.txt 22341082_2.txt 22341082_3.txt badhon1

```
badhon@lmde:~/Code/321_Assignment_1$ mv 22341082_1.txt 22341082_2.txt 22341082_3.txt badhon1
badhon@lmde:~/Code/321_Assignment_1$ ls
22341082_4.txt badhon1 badhon2
badhon@lmde:~/Code/321_Assignment_1$
```

3. **Copying One Directory to Another** → cp 22341082_1.txt 22341082_2.txt ~/Code/321_Assignment_1/badhon2

```
badhon@lmde:~/Code/321_Assignment_1/badhon1$ cp 22341082_1.txt 22341082_2.txt ~/Code/321_Assignment_1/badhon2
badhon@lmde:~/Code/321_Assignment_1/badhon1$ cd..
cd..: command not found
badhon@lmde:~/Code/321_Assignment_1/badhon1$ cd ..
badhon@lmde:~/Code/321_Assignment_1$ cd badhon2
badhon@lmde:~/Code/321_Assignment_1/badhon2$ ls
22341082_1.txt 22341082_2.txt
badhon@lmde:~/Code/321_Assignment_1/badhon2$
```

4. **Creating Another Directory** → mkdir badhon3

```
badhon@lmde:~/Code/321_Assignment_1$ mkdir badhon3
badhon@lmde:~/Code/321_Assignment_1$ ls
22341082_4.txt badhon1 badhon2 badhon3
badhon@lmde:~/Code/321_Assignment_1$
```

5. **Copying One Directory to Another** → cp -r badhon1 badhon3; cd badhon3

```
badhon@lmde:~/Code/321_Assignment_1$ cp -r badhon1 badhon3
badhon@lmde:~/Code/321_Assignment_1$ cd badhon3
badhon@lmde:~/Code/321_Assignment_1/badhon3$ ls
badhon1
badhon@lmde:~/Code/321_Assignment_1/badhon3$
```

6. **Checking and Changing the Permission** → `ls -l;sudo chmod -R go=rx badhon1;ls -l`

```
badhon@lmde:~/Code/321_Assignment_1/badhon3$ ls -l;sudo chmod -R go=rx badhon1;ls -l
total 4
drwx----- 2 badhon badhon 4096 Nov  1 12:12 badhon1
total 4
drwxr-xr-x 2 badhon badhon 4096 Nov  1 12:12 badhon1
badhon@lmde:~/Code/321_Assignment_1/badhon3$
```

7. **Going Back One Directory** → `cd ..;ls`

```
badhon@lmde:~/Code/321_Assignment_1/badhon3$ cd ..;ls
22341082_4.txt badhon1 badhon2 badhon3
badhon@lmde:~/Code/321_Assignment_1$
```

8. **Moving Folder to Root Directory** → `sudo mv badhon3 /`

```
badhon@lmde:~/Code/321_Assignment_1$ sudo mv badhon3 /
badhon@lmde:~/Code/321_Assignment_1$ sudo ls /
badhon3  Code  home  lib  libx32  mnt  root  srv  usr  vmlinuz.old
bin      dev  initrd.img  lib32  lost+found  opt  run  sys  var
boot     etc  initrd.img.old  lib64  media  proc  sbin  tmp  vmlinuz
```

9. **Deleting Everything** → `rm -r ~/Code/321_Assignment_1`

```
badhon@lmde:~/Code/321_Assignment_1$ rm -r ~/Code/321_Assignment_1
badhon@lmde:~/Code/321_Assignment_1$ ls
badhon@lmde:~/Code/321_Assignment_1$
```

Task - 1(b)

- **Creating a txt File with Course Details** → `echo -e "CSE321-Operating System-Sec7\nCSE331-Theory of Computation-Sec11\nCSE370-Database System-Sec11\nMAT215-MATH III Complex Variables and Laplace Transformations-Sec1" > course_list.txt`
- **Counting the “CSE” Word** → `grep -c "CSE" course_list.txt`

```
badhon@lmde:~/Code/Varsity/321_Assignment_1$ echo -e "CSE321-Operating System-Sec7\nCSE331-Theory of Computation-Sec11\nCSE370-Database System-Sec11\nMAT215-MATH III Complex Variables and Laplace Transformations-Sec1" > course_list.txt
badhon@lmde:~/Code/Varsity/321_Assignment_1$ grep -c "CSE" course_list.txt
3
badhon@lmde:~/Code/Varsity/321_Assignment_1$
```

Task -1(c)

- Showing Hidden Folder on Root Directory → `sudo ls -a /`

```
badhon@lmde:~/Code/321_Assignment_1$ sudo ls -a /  
.  
..  
badhon3  
bin  
boot  
Code  
dev  
etc  
home  
initrd.img  
initrd.img.old  
lib  
lib32  
lib64  
libx32  
lost+found  
media  
mnt  
opt  
proc  
root  
run  
sbin  
srv  
sys  
tmp  
usr  
var  
vmlinuz  
vmlinuz.old
```

Task -1(d)

- Show only lines 5-17 → `sed -n '5,17p' cat.txt`

```
badhon@lmde:~/Code/Varsity/321_Assignment_1$ sed -n '5,17p' cat.txt  
this is line number 5  
this is line number 6  
this is line number 7  
this is line number 8  
this is line number 9  
this is line number 10  
this is line number 11  
this is line number 12  
this is line number 13  
this is line number 14  
this is line number 15  
this is line number 16  
this is line number 17  
badhon@lmde:~/Code/Varsity/321_Assignment_1$
```