

a) Navigate and List:

a. Start by navigating to your home directory and list its contents. Then, move into a directory named "LinuxAssignment" if it exists; otherwise, create it.

```
cdac@LAPTOP-0PEFPRVN: ~  
cdac@LAPTOP-0PEFPRVN:~$ pwd  
/home/cdac  
cdac@LAPTOP-0PEFPRVN:~$ ls  
snap  
cdac@LAPTOP-0PEFPRVN:~$ mkdir LinuxAssignment  
cdac@LAPTOP-0PEFPRVN:~$ ls  
LinuxAssignment snap  
cdac@LAPTOP-0PEFPRVN:~$
```

b) File Management:

a. Inside the "LinuxAssignment" directory, create a new file named "file1.txt". Display its .

```
cdac@LAPTOP-0PEFPRVN: ~/LinuxAssignment  
cdac@LAPTOP-0PEFPRVN:~$ cd LinuxAssignment/  
cdac@LAPTOP-0PEFPRVN:~/LinuxAssignment$ touch file1.txt  
cdac@LAPTOP-0PEFPRVN:~/LinuxAssignment$ ls  
file1.txt  
cdac@LAPTOP-0PEFPRVN:~/LinuxAssignment$ nano file1.txt  
cdac@LAPTOP-0PEFPRVN:~/LinuxAssignment$ cat file1.txt  
vivek  
kumar  
singh  
cdac  
mumbai  
cdac@LAPTOP-0PEFPRVN:~/LinuxAssignment$
```

c) Directory Management:

- a. Create a new directory named "docs" inside the "LinuxAssignment" directory.

```
cdac@LAPTOP-0PEFPRVN: ~/LinuxAssignment
cdac@LAPTOP-0PEFPRVN:~/LinuxAssignment$ mkdir docs
cdac@LAPTOP-0PEFPRVN:~/LinuxAssignment$ ls
docs  file1.txt
cdac@LAPTOP-0PEFPRVN:~/LinuxAssignment$
```

d) Copy and Move Files:

- a. Copy the "file1.txt" file into the "docs" directory and rename it to "file2.txt".

```
cdac@LAPTOP-0PEFPRVN: ~/LinuxAssignment
cdac@LAPTOP-0PEFPRVN:~/LinuxAssignment$ mv file1.txt file2.txt
cdac@LAPTOP-0PEFPRVN:~/LinuxAssignment$ ls
docs  file2.txt
cdac@LAPTOP-0PEFPRVN:~/LinuxAssignment$ mv file2.txt docs
cdac@LAPTOP-0PEFPRVN:~/LinuxAssignment$ ls
docs
cdac@LAPTOP-0PEFPRVN:~/LinuxAssignment$
```

e) Permissions and Ownership:

- a. Change the permissions of "file2.txt" to allow read, write, and execute permissions for the owner and only read permissions for others. Then, change the owner of "file2.txt" to the current user.

```
cdac@LAPTOP-0PEFPRVN: ~/LinuxAssignment/docs
cdac@LAPTOP-0PEFPRVN:~$ pwd
/home/cdac
cdac@LAPTOP-0PEFPRVN:~$ ls
LinuxAssignment  snap
cdac@LAPTOP-0PEFPRVN:~$ cd LinuxAssignment/
cdac@LAPTOP-0PEFPRVN:~/LinuxAssignment$ cd docs/
cdac@LAPTOP-0PEFPRVN:~/LinuxAssignment/docs$ ls -l file2.txt
-rw-r--r-- 1 cdac cdac 31 Feb 27 13:02 file2.txt
cdac@LAPTOP-0PEFPRVN:~/LinuxAssignment/docs$ chmod 744 file2.txt
cdac@LAPTOP-0PEFPRVN:~/LinuxAssignment/docs$ ls -l file2.txt
-rwxr--r-- 1 cdac cdac 31 Feb 27 13:02 file2.txt
cdac@LAPTOP-0PEFPRVN:~/LinuxAssignment/docs$
```

f) Final Checklist:

- a. Finally, list the contents of the "LinuxAssignment" directory and the root directory to ensure that all operations were performed correctly.

```
cdac@LAPTOP-0PEFPRVN: ~/LinuxAssignment/docs
cdac@LAPTOP-0PEFPRVN:~$ pwd
/home/cdac
cdac@LAPTOP-0PEFPRVN:~$ ls
LinuxAssignment  snap
cdac@LAPTOP-0PEFPRVN:~$ cd LinuxAssignment/
cdac@LAPTOP-0PEFPRVN:~/LinuxAssignment$ cd docs/
cdac@LAPTOP-0PEFPRVN:~/LinuxAssignment/docs$ cat file2.txt
vivek
kumar
singh
cdac
mumbai
cdac@LAPTOP-0PEFPRVN:~/LinuxAssignment/docs$ ls
file2.txt
cdac@LAPTOP-0PEFPRVN:~/LinuxAssignment/docs$
```

g) File Searching:

a. Search for all files with the extension ".txt" in the current directory and its subdirectories.

```
🔥 cdac@LAPTOP-0PEFPRVN: ~/LinuxAssignment/docs  
cdac@LAPTOP-0PEFPRVN:~/LinuxAssignment/docs$ find -name ".txt"  
cdac@LAPTOP-0PEFPRVN:~/LinuxAssignment/docs$ ls  
file2.txt  
cdac@LAPTOP-0PEFPRVN:~/LinuxAssignment/docs$
```