

Lab assignment 1 | Anchal Kaushik | 24410001

1- Open terminal and find out the path of the folder being displayed in the terminal.

(Hint- Use pwd command to check the current location in terminal and cd command to change the directory)

output:

```
anchal@hp:~$ pwd
/home/anchal
anchal@hp:~$ cd
anchal@hp:~$ |
```

2- Change directory to the folder with files uploaded on classroom. Create a new folder named “BE623_labsession_1” (Hint- Use mkdir command)

output:

```
anchal@hp:/mnt/c/Users/kaush$ cd /mnt/c/Users/kaush/Downloads
anchal@hp:/mnt/c/Users/kaush/Downloads$ mkdir "BE623_labsession_1"
anchal@hp:/mnt/c/Users/kaush/Downloads$ |
```

3- Enter BE623_labsession_1 folder (Hint use cd command)

Output:

```
anchal@hp:/mnt/c/Users/kaush/Downloads$ cd BE623_labsession_1
anchal@hp:/mnt/c/Users/kaush/Downloads/BE623_labsession_1$ |
```

4- Confirm that your current folder is “BE623_labsession_1” (Hint use pwd command)

Output:

```
anchal@hp:/mnt/c/Users/kaush/Downloads/BE623_labsession_1$ pwd
/mnt/c/Users/kaush/Downloads/BE623_labsession_1
anchal@hp:/mnt/c/Users/kaush/Downloads/BE623_labsession_1$ |
```

5- List all the files and folders in the directory (Hint use ls command)

Output:

```
anchal@hp:/mnt/c/Users/kaush/Downloads/BE623_labsession_1$ ls
anchal@hp:/mnt/c/Users/kaush/Downloads/BE623_labsession_1$ |
```

6- Copy “sequence.fasta and protein.fasta” file to current folder (Hint cp ../sequence.fasta ./)

Output:

```
anchal@hp:/mnt/c/Users/kaush/Downloads/BE623_labsession_1$ cp ../sequence.fasta ./
cp ../protein.fasta ./
```

7- List all the files and folders in the directory (Hint use ls command)

Output:

```
anchal@hp:/mnt/c/Users/kaush/Downloads/BE623_labsession_1$ ls
protein.fasta  sequence.fasta
anchal@hp:/mnt/c/Users/kaush/Downloads/BE623_labsession_1$ |
```

8- Find out if there is any hidden file or folder in the directory (Hint: ls -al)

Output:

```
anchal@hp:/mnt/c/Users/kaush/Downloads/BE623_labsession_1$ ls -al
total 80
drwxrwxrwx 1 anchal anchal 512 Aug 31 10:14 .
drwxrwxrwx 1 anchal anchal 512 Aug 31 10:08 ..
-rwxrwxrwx 1 anchal anchal 467 Aug 31 10:14 protein.fasta
-rwxrwxrwx 1 anchal anchal 79551 Aug 31 10:14 sequence.fasta
anchal@hp:/mnt/c/Users/kaush/Downloads/BE623_labsession_1$ |
```

9- Find out permissions associated with files in the folder (Hint: ls -al)

Output:

```
anchal@hp:/mnt/c/Users/kaush/Downloads/BE623_labsession_1$ ls -al
total 80
drwxrwxrwx 1 anchal anchal 512 Aug 31 10:14 .
drwxrwxrwx 1 anchal anchal 512 Aug 31 10:08 ..
-rwxrwxrwx 1 anchal anchal 467 Aug 31 10:14 protein.fasta
-rwxrwxrwx 1 anchal anchal 79551 Aug 31 10:14 sequence.fasta
anchal@hp:/mnt/c/Users/kaush/Downloads/BE623_labsession_1$ |
```

10- Find out the permissions of the files and folders in /

Output:

```

anchal@hp:/mnt/c/Users/kaush/Downloads/BE623_labsession_1$ ls -al /
total 2748
drwxr-xr-x 22 root root 4096 Aug 31 09:48 .
drwxr-xr-x 22 root root 4096 Aug 31 09:48 ..
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 2 root root 4096 Apr 22 2024 boot
drwxr-xr-x 15 root root 3860 Aug 31 09:49 dev
drwxr-xr-x 88 root root 4096 Aug 31 09:49 etc
drwxr-xr-x 3 root root 4096 Aug 12 11:08 home
-rwxrwxrwx 1 root root 2724480 Jul 31 14:56 init
lrwxrwxrwx 1 root root 7 Apr 22 2024 lib -> usr/lib
drwxr-xr-x 2 root root 4096 Apr 8 2024 lib.usr-is-merged
lrwxrwxrwx 1 root root 9 Apr 22 2024 lib64 -> usr/lib64
drwx----- 2 root root 16384 Aug 12 11:07 lost+found
drwxr-xr-x 2 root root 4096 Aug 5 16:55 media
drwxr-xr-x 5 root root 4096 Aug 12 11:07 mnt
drwxr-xr-x 2 root root 4096 Aug 5 16:55 opt
dr-xr-xr-x 190 root root 0 Aug 31 09:48 proc
drwx----- 3 root root 4096 Aug 5 16:57 root
drwxr-xr-x 19 root root 560 Aug 31 09:49 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 2 root root 4096 Aug 12 11:07 snap
drwxr-xr-x 2 root root 4096 Aug 5 16:55 srv
dr-xr-xr-x 13 root root 0 Aug 31 09:48 sys
drwxrwxrwt 8 root root 4096 Aug 31 09:49 tmp
drwxr-xr-x 12 root root 4096 Aug 5 16:55 usr
drwxr-xr-x 13 root root 4096 Aug 12 11:07 var
anchal@hp:/mnt/c/Users/kaush/Downloads/BE623_labsession_1$ |

```

11- Change the permissions of the file “protein.fasta” so that it is readable, writable and executable by everyone (Hint use chmod). Change the permissions back to what they were.

Output: I tried changing permissions using chmod 644 protein.fasta, but since the folder is on a Windows-mounted drive (/mnt/c/...), the permissions did not change as expected. On a native Linux file system, the permissions would change to -rw-r--r--.

```

anchal@hp:/mnt/c/Users/kaush/Downloads/BE623_labsession_1$ chmod 777 protein.fasta
anchal@hp:/mnt/c/Users/kaush/Downloads/BE623_labsession_1$ ls -l
total 80
-rwxrwxrwx 1 anchal anchal 467 Aug 31 10:14 protein.fasta
-rwxrwxrwx 1 anchal anchal 79551 Aug 31 10:14 sequence.fasta
anchal@hp:/mnt/c/Users/kaush/Downloads/BE623_labsession_1$ chmod 644 protein.fasta
anchal@hp:/mnt/c/Users/kaush/Downloads/BE623_labsession_1$ ls -l
total 80
-rwxrwxrwx 1 anchal anchal 467 Aug 31 10:14 protein.fasta
-rwxrwxrwx 1 anchal anchal 79551 Aug 31 10:14 sequence.fasta

```