



ATHARVA YADAV

ROLL NO : 127

BATCH : S23

## UNIX LAB ASSIGNMENT NO.3

### File system management commands

AIM: To study file management

**Mv**

```
lab1003@lab1003-HP-280-G2-MT:~/Desktop$ cd S23_127
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127$ cd Dummy
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127/Dummy$ ls -l
total 0
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127/Dummy$ cd /Desktop/S23_127
bash: cd: /Desktop/S23_127: No such file or directory
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127/Dummy$ cd ..
lab1003@lab1003-HP-280-G2-MT:~$ cd Desktop
lab1003@lab1003-HP-280-G2-MT:~/Desktop$ cd S23_127
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127$ mv /home/lab1003/Desktop/S23_127/atharva_copy.tr /home/lab1003/Desktop/S23_127/Dummy
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127$ cd Dummy
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127/Dummy$ ls -l
total 4
-rw-rw-r-- 1 lab1003 lab1003 110 Feb  7 15:32 atharva_copy.tr
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127/Dummy$
```

**Wc**

```
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127$ cat atharva.tr
hello,linux lab assginment 3!
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127$ wc atharva.tr
 1  4 30 atharva.tr
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127$
```

## Chmod

```
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127$ ls -l
total 20
-r--rwxrwx 1 lab1003 lab1003  0 Feb  7 15:11 atharva.tr
drwxrwxr-x 2 lab1003 lab1003 4096 Feb  7 15:06 Dummy
-rw-rw-r-- 1 lab1003 lab1003 15364 Feb  1 11:17 Untitled1.odt
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127$ chmod 777 atharva.tr
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127$ ls -l
total 4
-rwxrwxrwx 1 lab1003 lab1003  0 Feb  7 15:11 atharva.tr
drwxrwxr-x 2 lab1003 lab1003 4096 Feb  7 15:06 Dummy
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127$ chmod 777 atharva.tr
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127$ ls -l
total 4
-rwxrwxrwx 1 lab1003 lab1003  0 Feb  7 15:11 atharva.tr
drwxrwxr-x 2 lab1003 lab1003 4096 Feb  7 15:06 Dummy
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127$ chmod 477 atharva.tr
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127$ ls -l
total 4
-r--rwxrwx 1 lab1003 lab1003  0 Feb  7 15:11 atharva.tr
drwxrwxr-x 2 lab1003 lab1003 4096 Feb  7 15:06 Dummy
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127$ chmod 000 atharva.tr
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127$ ls -l
total 4
----- 1 lab1003 lab1003  0 Feb  7 15:11 atharva.tr
drwxrwxr-x 2 lab1003 lab1003 4096 Feb  7 15:06 Dummy
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127$ chmod 777 atharva.tr
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127$ ls -l
total 4
-rwxrwxrwx 1 lab1003 lab1003  0 Feb  7 15:11 atharva.tr
drwxrwxr-x 2 lab1003 lab1003 4096 Feb  7 15:06 Dummy
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127$
```

## Head and tail

```
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127$ cat atharva.tr
Atharav
Yuvraj
Aryan
Om
Anesh
Shrutik
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127$ tail -n 3 atharva.tr
Om
Anesh
Shrutik
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127$ tail -n 1 atharva.tr
Shrutik
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127$ head -n 3 atharva.tr
Atharav
Yuvraj
Aryan
```

## Piping and redirection

```
lab1003@lab1003-HP-280-G4-MT-Business-PC:~/Krishna$ echo "HELLO WORLD!" > file1
lab1003@lab1003-HP-280-G4-MT-Business-PC:~/Krishna$ more file1
HELLO WORLD!
lab1003@lab1003-HP-280-G4-MT-Business-PC:~/Krishna$
```

## Tr

```
lab1003@lab1003-HP-280-G4-MT-Business-PC:~/Krishna$ cat file1 | tr [A-Z] [a-z]
hello world!
lab1003@lab1003-HP-280-G4-MT-Business-PC:~/Krishna$ cat file1 | tr [a-z] [A-Z]
HELLO WORLD!
lab1003@lab1003-HP-280-G4-MT-Business-PC:~/Krishna$ cat file1 | tr [:upper:] [:lower:]
hello world!
lab1003@lab1003-HP-280-G4-MT-Business-PC:~/Krishna$ cat file1 | tr [:lower:] [:upper:]
HELLO WORLD!
lab1003@lab1003-HP-280-G4-MT-Business-PC:~/Krishna$
```

## Sort

```
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127$ cat atharva.tr
Atharav
Yuvraj
Aryan
Om
Anesh
Shrutik
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127$ sort atharva.tr
Anesh
Aryan
Atharav
Om
Shrutik
Yuvraj
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127$
```

## Diff

```
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127$ diff atharva.tr atharva_copy.tr
0a1,5
> SW
> Singapor
> Brazil
> Banglasdesch
> Yuganda
2,7d6
< Pak
< UAE
< USA
< NZ
< Itally
<
```

## Comm

```
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127$ comm atharva.tr atharva_copy.tr
India
Pak
    SW
comm: file 2 is not in sorted order
    Singapor
    Brazil
    Banglasdesh
UAE
USA
comm: file 1 is not in sorted order
NZ
Itally
    Yuganda
    India
```

## Less

```
lab1003@lab1003-HP-280-G4-MT-Business-PC:~/Krishna$ less file1
lab1003@lab1003-HP-280-G4-MT-Business-PC:~/Krishna$ less -n file1
lab1003@lab1003-HP-280-G4-MT-Business-PC:~/Krishna$ less -E file1
lab1003@lab1003-HP-280-G4-MT-Business-PC:~/Krishna$ less -N file1
lab1003@lab1003-HP-280-G4-MT-Business-PC:~/Krishna$
```

## More

```
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127$ more atharva.tr
India
Pak
UAE
USA
NZ
Itally
```

## Type

```
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127$ type cat
cat is hashed (/bin/cat)
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127$ type rm
rm is hashed (/bin/rm)
```



## split

```
File Edit View Search Terminal Help
lab1003@lab1003-HP-280-G4-MT-Business-PC:~$ cd Krishna
lab1003@lab1003-HP-280-G4-MT-Business-PC:~/Krishna$ cat index2aa
line 1
line 2
line 3
line 4
lab1003@lab1003-HP-280-G4-MT-Business-PC:~/Krishna$ cat index2ab
line 5
line 6
line 7
line 8
lab1003@lab1003-HP-280-G4-MT-Business-PC:~/Krishna$ cat index
line 1
line 2
line 3
line 4
line 5
line 6
line 7
line 8
lab1003@lab1003-HP-280-G4-MT-Business-PC:~/Krishna$
```

## rm

```
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127/Dummy$ ls -l
total 4
-rwxrwxrwx 1 lab1003 lab1003 30 Feb  7 15:19 atharva_copy.tr
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127/Dummy$ rm atharva_copy.tr
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127/Dummy$ ls -l
total 0
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127/Dummy$
```

## Who

```
lab1003@lab1003-HP-280-G4-MT-Business-PC:~/Krishna$ who
lab1003  :0                2024-02-05 13:40 (:0)
lab1003@lab1003-HP-280-G4-MT-Business-PC:~/Krishna$ who -b
system boot 2024-02-05 13:39
lab1003@lab1003-HP-280-G4-MT-Business-PC:~/Krishna$ who -q
lab1003
# users=1
lab1003@lab1003-HP-280-G4-MT-Business-PC:~/Krishna$ who -s
lab1003  :0                2024-02-05 13:40 (:0)
```

## Cp

```
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127$ cp atharva.tr atharva_copy.tr
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127$ cat atharva.tr
hello,linux lab assginment 3!
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127$ cat atharva_copy.tr
hello,linux lab assginment 3!
```

# Dummy

```
lab1003@lab1003-HP-280-G2-MT:~/Desktop$ cd S23_127
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127$ cd Dummy
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127/Dummy$ ls -l
total 0
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127/Dummy$ cd /Desktop/S23_127
bash: cd: /Desktop/S23_127: No such file or directory
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127/Dummy$ cd --
lab1003@lab1003-HP-280-G2-MT:~$ cd Desktop
lab1003@lab1003-HP-280-G2-MT:~/Desktop$ cd S23_127
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127$ mv /home/lab1003/Desktop/S23_127/atharva_copy.tr /home/lab1003/Desktop/S23_127/Dummy
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127$ cd Dummy
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127/Dummy$ ls -l
total 4
-rw-rw-r-- 1 lab1003 lab1003 110 Feb  7 15:32 atharva_copy.tr
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127/Dummy$
```

# grep

```
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127$ grep "linux" atharva.tr
hello,linux lab assginment 3!
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127$ grep -i "LiNuX" atharva.tr
hello,linux lab assginment 3!
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127$ grep "linux" atharva.tr
hello,linux lab assginment 3!
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127$ grep -i "LiNuX" atharva.tr
hello,linux lab assginment 3!
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127$ grep -c "linux" atharva.tr
1
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127$ grep -n "linux" atharva.tr
1:hello,linux lab assginment 3!
```

```
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127$ file -b atharva.tr
ASCII text
lab1003@lab1003-HP-280-G2-MT:~/Desktop/S23_127$ file -b Dummy
directory
```