```
sunbeam@sunbeam-niraj:~$ ls -a
.                      hs_err_pid4204.log      .profile
..                     hs_err_pid4378.log      Public
 ans                   hs_err_pid5621.log      .quokka
 assignment21          hs_err_pid6031.log      .redhat
.bash_history         'jwt token'              remDsa
.bash_logout           .lesshst                snap
.bashrc                .local                 'SQL EXERCISE 1'
.bito                 'matrix addition'        .ssh
.cache                 .mongodb                .sudo_as_admin_successful
.config                .mozilla                sunbeampull
Desktop                Music                   .swt
'Docs upload'          .my.cnf                 Templates
Documents              __MyResume__.pdf        .thunderbird
.dotnet                .mysql_history          Videos
Downloads             'mysql pl 7 exercise'    .viminfo
.gitconfig             .npm                    .vscode
.gnome                 Pictures                .wallaby
.gnupg                 .pki
 hs_err_pid2696.log    Practice
```

```
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ rename -v 's/.txt/.htm/' *.txt
text1.txt renamed as text1.htm
text2.txt renamed as text2.htm
text3.txt renamed as text3.htm
text4.txt renamed as text4.htm
text5.txt renamed as text5.htm
text6.txt renamed as text6.htm
```

```
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ ln -s text1.htm text.htm
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ text.html
text.html: command not found
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ cat text.htm
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ cd ~
sunbeam@sunbeam-niraj:~$ cat text.htm
cat: text.htm: No such file or directory
sunbeam@sunbeam-niraj:~$ cd sunbeampull/
sunbeam@sunbeam-niraj:~/sunbeampull$ cd mygitdata/OSC_ADM/Assignment2
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ ls
text1.htm  text2.htm  text3.htm  text4.htm  text5.htm  text6.htm  text.htm
```
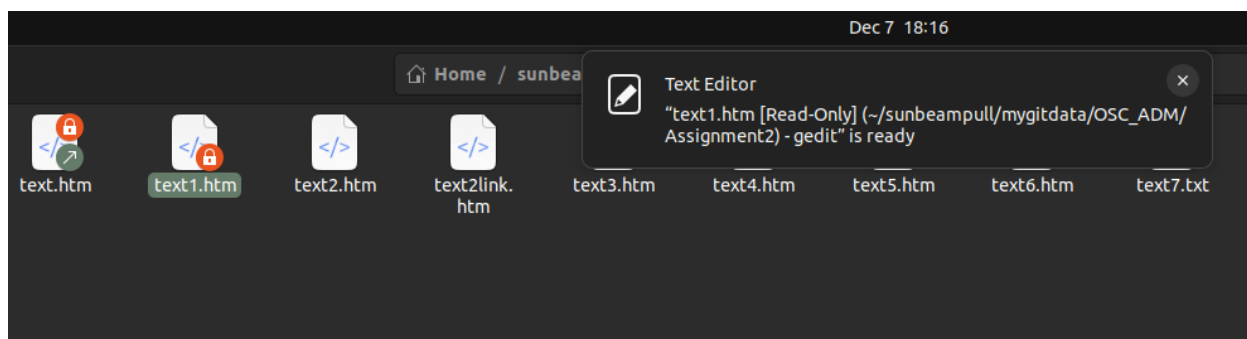
```
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ ln text2.htm text2link.htm
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ ls
text1.htm  text2.htm  text2link.htm  text3.htm  text4.htm  text5.htm  text6.htm  text.htm
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ stat ls
stat: cannot statx 'ls': No such file or directory
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ stat *.htm
  File: text1.htm
  Size: 15            Blocks: 8          IO Block: 4096   regular file
Device: 805h/2053d    Inode: 3408492     Links: 1
Access: (0664/-rw-rw-r--)  Uid: ( 1000/ sunbeam)   Gid: ( 1000/ sunbeam)
Access: 2023-12-07 17:25:17.556192496 +0530
Modify: 2023-12-07 17:25:13.092179035 +0530
Change: 2023-12-07 17:25:13.244179490 +0530
 Birth: 2023-12-07 17:25:13.092179035 +0530
  File: text2.htm
  Size: 15            Blocks: 8          IO Block: 4096   regular file
Device: 805h/2053d    Inode: 3408483     Links: 2
Access: (0664/-rw-rw-r--)  Uid: ( 1000/ sunbeam)   Gid: ( 1000/ sunbeam)
Access: 2023-12-07 17:29:32.077251986 +0530
Modify: 2023-12-07 17:29:27.125226731 +0530
Change: 2023-12-07 17:29:27.125226731 +0530
 Birth: 2023-12-07 17:12:15.303008518 +0530
  File: text2link.htm
  Size: 15            Blocks: 8          IO Block: 4096   regular file
Device: 805h/2053d    Inode: 3408483     Links: 2
Access: (0664/-rw-rw-r--)  Uid: ( 1000/ sunbeam)   Gid: ( 1000/ sunbeam)
Access: 2023-12-07 17:29:32.077251986 +0530
Modify: 2023-12-07 17:29:27.125226731 +0530
Change: 2023-12-07 17:29:27.125226731 +0530
 Birth: 2023-12-07 17:12:15.303008518 +0530
  File: text3.htm
  Size: 0             Blocks: 0          IO Block: 4096   regular empty file
Device: 805h/2053d    Inode: 3408484     Links: 1
Access: (0664/-rw-rw-r--)  Uid: ( 1000/ sunbeam)   Gid: ( 1000/ sunbeam)
Access: 2023-12-07 17:12:45.559291971 +0530
Modify: 2023-12-07 17:12:45.559291971 +0530
Change: 2023-12-07 17:15:38.748922842 +0530
 Birth: 2023-12-07 17:12:45.559291971 +0530
  File: text4.htm
  Size: 0             Blocks: 0          IO Block: 4096   regular empty file
Device: 805h/2053d    Inode: 3408485     Links: 1
Access: (0664/-rw-rw-r--)  Uid: ( 1000/ sunbeam)   Gid: ( 1000/ sunbeam)
Access: 2023-12-07 17:12:45.559291971 +0530
Modify: 2023-12-07 17:12:45.559291971 +0530
Change: 2023-12-07 17:15:38.748922842 +0530
 Birth: 2023-12-07 17:12:45.559291971 +0530
  File: text5.htm
  Size: 0             Blocks: 0          IO Block: 4096   regular empty file
Device: 805h/2053d    Inode: 3408486     Links: 1
Access: (0664/-rw-rw-r--)  Uid: ( 1000/ sunbeam)   Gid: ( 1000/ sunbeam)
Access: 2023-12-07 17:12:45.559291971 +0530
Modify: 2023-12-07 17:12:45.559291971 +0530
Change: 2023-12-07 17:15:38.748922842 +0530
 Birth: 2023-12-07 17:12:45.559291971 +0530
  File: text6.htm
  Size: 0             Blocks: 0          IO Block: 4096   regular empty file
```

```
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ who am i
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ users
sunbeam
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ who
sunbeam   tty2         2023-12-07 16:47 (tty2)
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ grep "Device" text7.txt
Device: 805h/2053d      Inode: 3408492      Links: 1
Device: 805h/2053d      Inode: 3408486      Links: 1
Device: 805h/2053d      Inode: 3408488      Links: 1
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ grep -c "Device" text7.txt
3
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ grep -n "Device" text7.txt
8:Device: 805h/2053d      Inode: 3408492      Links: 1
14:Device: 805h/2053d      Inode: 3408486      Links: 1
22:Device: 805h/2053d      Inode: 3408488      Links: 1
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ grep -w "Device" text7.txt
Device: 805h/2053d      Inode: 3408492      Links: 1
Device: 805h/2053d      Inode: 3408486      Links: 1
Device: 805h/2053d      Inode: 3408488      Links: 1
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ grep -i "Device" text7.txt
Device: 805h/2053d      Inode: 3408492      Links: 1
Device: 805h/2053d      Inode: 3408486      Links: 1
Device: 805h/2053d      Inode: 3408488      Links: 1
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ grep -v "Device" text7.txt
-rw-rw-r-- 1 1000 1000 15 Jun  9  2001 text1.htm
-rw-rw-r-- 2 1000 1000 15 Dec  7 17:29 text2.htm
-rw-rw-r-- 2 1000 1000 15 Dec  7 17:29 text2link.htm
-rw-rw-r-- 1 1000 1000  0 Dec  7 17:12 text3.htm
-rw-rw-r-- 1 1000 1000  0 Dec  7 17:12 text4.htm
-rw-rw-r-- 1 1000 1000  0 Dec  7 17:12 text5.htm
-rw-rw-r-- 1 1000 1000  0 Dec  7 17:12 text6.htm
Access: (0664/-rw-rw-r--)  Uid: ( 1000/ sunbeam)   Gid: ( 1000/ sunbeam)
Access: 2023-12-07 17:25:17.556192496 +0530
Modify: 2023-12-07 17:25:13.092179035 +0530
Change: 2023-12-07 17:25:13.244179490 +0530
 Birth: 2023-12-07 17:25:13.092179035 +0530
Access: (0664/-rw-rw-r--)  Uid: ( 1000/ sunbeam)   Gid: ( 1000/ sunbeam)
Access: 2023-12-07 17:12:45.559291971 +0530
Modify: 2023-12-07 17:12:45.559291971 +0530
Change: 2023-12-07 17:15:38.748922842 +0530
 Birth: 2023-12-07 17:12:45.559291971 +0530
  File: text6.htm
  Size: 0              Blocks: 0        IO Block: 4096   regular empty file
Access: (0664/-rw-rw-r--)  Uid: ( 1000/ sunbeam)   Gid: ( 1000/ sunbeam)
Access: 2023-12-07 17:12:45.559291971 +0530
Modify: 2023-12-07 17:12:45.559291971 +0530
Change: 2023-12-07 17:15:38.748922842 +0530
 Birth: 2023-12-07 17:12:45.559291971 +0530

sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ grep  "^Device" text7.txt
Device: 805h/2053d      Inode: 3408492      Links: 1
Device: 805h/2053d      Inode: 3408486      Links: 1
Device: 805h/2053d      Inode: 3408488      Links: 1
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ grep  "Device$" text7.txt
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$
```

Dec 7 18:16

Home / sunbea

Text Editor
"text1.htm [Read-Only] (~/sunbeampull/mygitdata/OSC_ADM/
Assignment2) - gedit" is ready

text.htm   text1.htm   text2.htm   text2link.   text3.htm   text4.htm   text5.htm   text6.htm   text7.txt
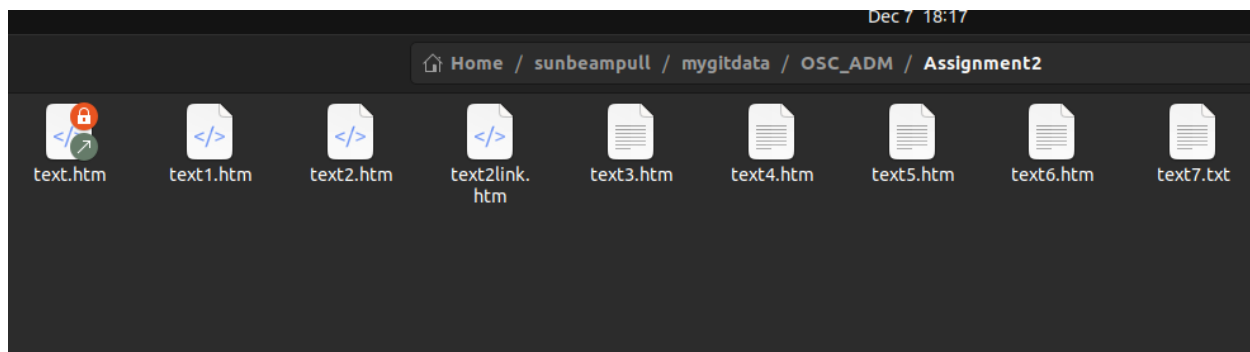   htm

```
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ egrep "D*C" text7.txt
D*C
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ egrep "D?C" text7.txt
Change: 2023-12-07 17:25:13.244179490 +0530
Change: 2023-12-07 17:15:38.748922842 +0530
Change: 2023-12-07 17:15:38.748922842 +0530
DAC
DMC
DBDC
D*C
DITIC
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ egrep "De?e" text7.txt
-rw-rw-r-- 2 1000 1000 15 Dec  7 17:29 text2.htm
-rw-rw-r-- 2 1000 1000 15 Dec  7 17:29 text2link.htm
-rw-rw-r-- 1 1000 1000  0 Dec  7 17:12 text3.htm
-rw-rw-r-- 1 1000 1000  0 Dec  7 17:12 text4.htm
-rw-rw-r-- 1 1000 1000  0 Dec  7 17:12 text5.htm
-rw-rw-r-- 1 1000 1000  0 Dec  7 17:12 text6.htm
Device: 805h/2053d     Inode: 3408492     Links: 1
Device: 805h/2053d     Inode: 3408486     Links: 1
Device: 805h/2053d     Inode: 3408488     Links: 1
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ cat text.htm
<h1>hello</h1>
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ chmod 444 text.htm
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ ls
text1.htm  text2.htm  text2link.htm  text3.htm  text4.htm  text5.htm  text6.htm  text7.txt  text.htm
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ cat text.htm
<h1>hello</h1>
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ chmod 777 text.html
chmod: cannot access 'text.html': No such file or directory
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ chmod 777 text.htm
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ ls -l
total 16
-rwxrwxrwx 1 sunbeam sunbeam   15 Jun  9  2001 text1.htm
-rw-rw-r-- 2 sunbeam sunbeam   15 Dec  7 17:29 text2.htm
-rw-rw-r-- 2 sunbeam sunbeam   15 Dec  7 17:29 text2link.htm
-rw-rw-r-- 1 sunbeam sunbeam    0 Dec  7 17:12 text3.htm
-rw-rw-r-- 1 sunbeam sunbeam    0 Dec  7 17:12 text4.htm
-rw-rw-r-- 1 sunbeam sunbeam    0 Dec  7 17:12 text5.htm
-rw-rw-r-- 1 sunbeam sunbeam    0 Dec  7 17:12 text6.htm
-rw-r--r-- 1 sunbeam sunbeam 1350 Dec  7 18:01 text7.txt
lrwxrwxrwx 1 sunbeam sunbeam    9 Dec  7 17:22 text.htm -> text1.htm
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$
```

Dec 7 18:17

⌂ Home / sunbeampull / mygitdata / OSC_ADM / **Assignment2**

text.htm   text1.htm   text2.htm   text2link.htm   text3.htm   text4.htm   text5.htm   text6.htm   text7.txt

```
-rw-rw-r-- 1 1000 1000 15 Jun  9  2001 text1.htm
-rw-rw-r-- 2 1000 1000 15 Dec  7 17:29 text2.htm
-rw-rw-r-- 2 1000 1000 15 Dec  7 17:29 text2link.htm
-rw-rw-r-- 1 1000 1000  0 Dec  7 17:12 text3.htm
-rw-rw-r-- 1 1000 1000  0 Dec  7 17:12 text4.htm
-rw-rw-r-- 1 1000 1000  0 Dec  7 17:12 text5.htm
-rw-rw-r-- 1 1000 1000  0 Dec  7 17:12 text6.htm
Device: 805h/2053d      Inode: 3408492      Links: 1
Access: (0664/-rw-rw-r--)  Uid: ( 1000/ sunbeam)   Gid: ( 1000/ sunbeam)
Access: 2023-12-07 17:25:17.556192496 +0530
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ head text7.txt
-rw-rw-r-- 1 1000 1000 15 Jun  9  2001 text1.htm
-rw-rw-r-- 2 1000 1000 15 Dec  7 17:29 text2.htm
-rw-rw-r-- 2 1000 1000 15 Dec  7 17:29 text2link.htm
-rw-rw-r-- 1 1000 1000  0 Dec  7 17:12 text3.htm
-rw-rw-r-- 1 1000 1000  0 Dec  7 17:12 text4.htm
-rw-rw-r-- 1 1000 1000  0 Dec  7 17:12 text5.htm
-rw-rw-r-- 1 1000 1000  0 Dec  7 17:12 text6.htm
Device: 805h/2053d      Inode: 3408492      Links: 1
Access: (0664/-rw-rw-r--)  Uid: ( 1000/ sunbeam)   Gid: ( 1000/ sunbeam)
Access: 2023-12-07 17:25:17.556192496 +0530
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ tail -n+5 text7.txt | head -5 text7.tx
t
-rw-rw-r-- 1 1000 1000 15 Jun  9  2001 text1.htm
-rw-rw-r-- 2 1000 1000 15 Dec  7 17:29 text2.htm
-rw-rw-r-- 2 1000 1000 15 Dec  7 17:29 text2link.htm
-rw-rw-r-- 1 1000 1000  0 Dec  7 17:12 text3.htm
-rw-rw-r-- 1 1000 1000  0 Dec  7 17:12 text4.htm
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ tail -n + 5 text7.txt | head -n 10
tail: invalid number of lines: '+'
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ tail -n +5 text7.txt | head -n 10
-rw-rw-r-- 1 1000 1000  0 Dec  7 17:12 text4.htm
-rw-rw-r-- 1 1000 1000  0 Dec  7 17:12 text5.htm
-rw-rw-r-- 1 1000 1000  0 Dec  7 17:12 text6.htm
Device: 805h/2053d      Inode: 3408492      Links: 1
Access: (0664/-rw-rw-r--)  Uid: ( 1000/ sunbeam)   Gid: ( 1000/ sunbeam)
Access: 2023-12-07 17:25:17.556192496 +0530
Modify: 2023-12-07 17:25:13.092179035 +0530
Change: 2023-12-07 17:25:13.244179490 +0530
 Birth: 2023-12-07 17:25:13.092179035 +0530
Device: 805h/2053d      Inode: 3408486      Links: 1
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ tail -n +5 text7.txt | head -n 5
-rw-rw-r-- 1 1000 1000  0 Dec  7 17:12 text4.htm
-rw-rw-r-- 1 1000 1000  0 Dec  7 17:12 text5.htm
-rw-rw-r-- 1 1000 1000  0 Dec  7 17:12 text6.htm
Device: 805h/2053d      Inode: 3408492      Links: 1
Access: (0664/-rw-rw-r--)  Uid: ( 1000/ sunbeam)   Gid: ( 1000/ sunbeam)
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ tail -n +5 text7.txt | head -n 6
-rw-rw-r-- 1 1000 1000  0 Dec  7 17:12 text4.htm
-rw-rw-r-- 1 1000 1000  0 Dec  7 17:12 text5.htm
-rw-rw-r-- 1 1000 1000  0 Dec  7 17:12 text6.htm
Device: 805h/2053d      Inode: 3408492      Links: 1
Access: (0664/-rw-rw-r--)  Uid: ( 1000/ sunbeam)   Gid: ( 1000/ sunbeam)
Access: 2023-12-07 17:25:17.556192496 +0530
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$
```

```
-rw-rw-r-- 1 1000 1000  0 Dec  7 17:12 text6.htm
Device: 805h/2053d    Inode: 3408492    Links: 1
Access: (0664/-rw-rw-r--)  Uid: ( 1000/ sunbeam)  Gid: ( 1000/ sunbeam)
Access: 2023-12-07 17:25:17.556192496 +0530
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ touch sorted.txt
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ uniq sorted.txt
a a a b c d e f g g h h i j k l
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ uniq sorted.txt
a
b
c
d
e
f
g
h
i
j
k
l
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ uniq sorted.txt
a
m
b
z
c
d
e
f
p
q
g
h
i
j
k
l
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ uniq sorted.txt | sort
a
b
c
d
e
f
g
h
i
j
k
l
m
p
q
z
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$
```

```
Access: 2023-12-07 17:25:17.556192496 +0530
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ touch sorted.txt
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ uniq sorted.txt
a a a b c d e f g g h h i j k l
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ uniq sorted.txt
a
b
c
d
e
f
g
h
i
j
k
l
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ uniq sorted.txt
a
m
b
z
c
d
e
f
p
q
g
h
i
j
k
l
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ uniq sorted.txt | sort
a
b
c
d
e
f
g
h
i
j
k
l
m
p
q
z
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ who | grep -v "tty2\|tty3\|tty4"
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ who | grep -v "tty\tty2\|tty3\|tty4"
sunbeam  tty2         2023-12-07 16:47 (tty2)
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$
```

```
-rw-rw-r-- 2 sunbeam sunbeam    15 Dec   7 17:29 text2.htm
-rw-rw-r-- 2 sunbeam sunbeam    15 Dec   7 17:29 text2link.htm
-rw-rw-r-- 1 sunbeam sunbeam     0 Dec   7 17:12 text3.htm
-rw-rw-r-- 1 sunbeam sunbeam     0 Dec   7 17:12 text4.htm
-rw-rw-r-- 1 sunbeam sunbeam     0 Dec   7 17:12 text5.htm
-rw-rw-r-- 1 sunbeam sunbeam     0 Dec   7 17:12 text6.htm
-rw-rw-r-- 1 sunbeam sunbeam  1350 Dec   7 18:01 text7.txt
lrwxrwxrwx 1 sunbeam sunbeam     9 Dec   7 17:22 text.htm -> text1.htm
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ ls -lSh
total 24K
-rw-rw-r-- 1 sunbeam sunbeam  1.4K Dec   7 18:01 text7.txt
-rw-rw-r-- 1 sunbeam sunbeam    52 Dec   7 19:03 sorted.txt
-rw-rw-r-- 1 sunbeam sunbeam    15 Dec   7 18:47 info.txt
-rwxrwxrwx 1 sunbeam sunbeam    15 Jun   9  2001 text1.htm
-rw-rw-r-- 2 sunbeam sunbeam    15 Dec   7 17:29 text2.htm
-rw-rw-r-- 2 sunbeam sunbeam    15 Dec   7 17:29 text2link.htm
lrwxrwxrwx 1 sunbeam sunbeam     9 Dec   7 17:22 text.htm -> text1.htm
-rw-rw-r-- 1 sunbeam sunbeam     0 Dec   7 17:12 text3.htm
-rw-rw-r-- 1 sunbeam sunbeam     0 Dec   7 17:12 text4.htm
-rw-rw-r-- 1 sunbeam sunbeam     0 Dec   7 17:12 text5.htm
-rw-rw-r-- 1 sunbeam sunbeam     0 Dec   7 17:12 text6.htm
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ ls -sSh
total 24K
4.0K text7.txt   4.0K info.txt   4.0K text2.htm      0 text.htm      0 text4.htm      0 text6.htm
4.0K sorted.txt  4.0K text1.htm  4.0K text2link.htm  0 text3.htm     0 text5.htm
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ ls -rSh
text6.htm   text4.htm   text.htm       text2.htm   info.txt    text7.txt
text5.htm   text3.htm   text2link.htm  text1.htm   sorted.txt
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ ls -lhS
total 24K
-rw-rw-r-- 1 sunbeam sunbeam  1.4K Dec   7 18:01 text7.txt
-rw-rw-r-- 1 sunbeam sunbeam    52 Dec   7 19:03 sorted.txt
-rw-rw-r-- 1 sunbeam sunbeam    15 Dec   7 18:47 info.txt
-rwxrwxrwx 1 sunbeam sunbeam    15 Jun   9  2001 text1.htm
-rw-rw-r-- 2 sunbeam sunbeam    15 Dec   7 17:29 text2.htm
-rw-rw-r-- 2 sunbeam sunbeam    15 Dec   7 17:29 text2link.htm
lrwxrwxrwx 1 sunbeam sunbeam     9 Dec   7 17:22 text.htm -> text1.htm
-rw-rw-r-- 1 sunbeam sunbeam     0 Dec   7 17:12 text3.htm
-rw-rw-r-- 1 sunbeam sunbeam     0 Dec   7 17:12 text4.htm
-rw-rw-r-- 1 sunbeam sunbeam     0 Dec   7 17:12 text5.htm
-rw-rw-r-- 1 sunbeam sunbeam     0 Dec   7 17:12 text6.htm
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ ls -lhs
total 24K
4.0K -rw-rw-r-- 1 sunbeam sunbeam    15 Dec   7 18:47 info.txt
4.0K -rw-rw-r-- 1 sunbeam sunbeam    52 Dec   7 19:03 sorted.txt
4.0K -rwxrwxrwx 1 sunbeam sunbeam    15 Jun   9  2001 text1.htm
4.0K -rw-rw-r-- 2 sunbeam sunbeam    15 Dec   7 17:29 text2.htm
4.0K -rw-rw-r-- 2 sunbeam sunbeam    15 Dec   7 17:29 text2link.htm
   0 -rw-rw-r-- 1 sunbeam sunbeam     0 Dec   7 17:12 text3.htm
   0 -rw-rw-r-- 1 sunbeam sunbeam     0 Dec   7 17:12 text4.htm
   0 -rw-rw-r-- 1 sunbeam sunbeam     0 Dec   7 17:12 text5.htm
   0 -rw-rw-r-- 1 sunbeam sunbeam     0 Dec   7 17:12 text6.htm
4.0K -rw-rw-r-- 1 sunbeam sunbeam  1.4K Dec   7 18:01 text7.txt
   0 lrwxrwxrwx 1 sunbeam sunbeam     9 Dec   7 17:22 text.htm -> text1.htm
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$
```

```
p
q
z
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ who | grep -v "tty2\|tty3\|tty4"
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ who | grep -v "tty\tty2\|tty3\|tty4"
sunbeam  tty2         2023-12-07 16:47 (tty2)
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ ls
info.txt     text1.htm  text2link.htm  text4.htm  text6.htm   text.htm
sorted.txt  text2.htm  text3.htm       text5.htm  text7.txt
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ find -size
find: missing argument to `-size'
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ find -size 2k
./text7.txt
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ find -s
find: unknown predicate `-s'
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ find -S
find: unknown predicate `-S'
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ ls -s
total 24
4 info.txt     4 text1.htm   4 text2link.htm   0 text4.htm   0 text6.htm   0 text.htm
4 sorted.txt  4 text2.htm   0 text3.htm        0 text5.htm   4 text7.txt
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ ls -l
total 24
-rw-rw-r-- 1 sunbeam sunbeam   15 Dec  7 18:47 info.txt
-rw-rw-r-- 1 sunbeam sunbeam   52 Dec  7 19:03 sorted.txt
-rwxrwxrwx 1 sunbeam sunbeam   15 Jun  9  2001 text1.htm
-rw-rw-r-- 2 sunbeam sunbeam   15 Dec  7 17:29 text2.htm
-rw-rw-r-- 2 sunbeam sunbeam   15 Dec  7 17:29 text2link.htm
-rw-rw-r-- 1 sunbeam sunbeam    0 Dec  7 17:12 text3.htm
-rw-rw-r-- 1 sunbeam sunbeam    0 Dec  7 17:12 text4.htm
-rw-rw-r-- 1 sunbeam sunbeam    0 Dec  7 17:12 text5.htm
-rw-rw-r-- 1 sunbeam sunbeam    0 Dec  7 17:12 text6.htm
-rw-rw-r-- 1 sunbeam sunbeam 1350 Dec  7 18:01 text7.txt
lrwxrwxrwx 1 sunbeam sunbeam    9 Dec  7 17:22 text.htm -> text1.htm
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ ls -S
text7.txt   info.txt     text2.htm      text.htm    text4.htm  text6.htm
sorted.txt  text1.htm  text2link.htm  text3.htm  text5.htm
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ ls -L
info.txt     text1.htm  text2link.htm  text4.htm  text6.htm   text.htm
sorted.txt  text2.htm  text3.htm       text5.htm  text7.txt
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ ls -l
total 24
-rw-rw-r-- 1 sunbeam sunbeam   15 Dec  7 18:47 info.txt
-rw-rw-r-- 1 sunbeam sunbeam   52 Dec  7 19:03 sorted.txt
-rwxrwxrwx 1 sunbeam sunbeam   15 Jun  9  2001 text1.htm
-rw-rw-r-- 2 sunbeam sunbeam   15 Dec  7 17:29 text2.htm
-rw-rw-r-- 2 sunbeam sunbeam   15 Dec  7 17:29 text2link.htm
-rw-rw-r-- 1 sunbeam sunbeam    0 Dec  7 17:12 text3.htm
-rw-rw-r-- 1 sunbeam sunbeam    0 Dec  7 17:12 text4.htm
-rw-rw-r-- 1 sunbeam sunbeam    0 Dec  7 17:12 text5.htm
-rw-rw-r-- 1 sunbeam sunbeam    0 Dec  7 17:12 text6.htm
-rw-rw-r-- 1 sunbeam sunbeam 1350 Dec  7 18:01 text7.txt
lrwxrwxrwx 1 sunbeam sunbeam    9 Dec  7 17:22 text.htm -> text1.htm
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ ls -lSh
```

```
-rw-rw-r-- 1 sunbeam sunbeam     0 Dec  7 17:12 text4.htm
-rw-rw-r-- 1 sunbeam sunbeam     0 Dec  7 17:12 text5.htm
-rw-rw-r-- 1 sunbeam sunbeam     0 Dec  7 17:12 text6.htm
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ ls -lhs
total 24K
4.0K -rw-rw-r-- 1 sunbeam sunbeam    15 Dec  7 18:47 info.txt
4.0K -rw-rw-r-- 1 sunbeam sunbeam    52 Dec  7 19:03 sorted.txt
4.0K -rwxrwxrwx 1 sunbeam sunbeam    15 Jun  9  2001 text1.htm
4.0K -rw-rw-r-- 2 sunbeam sunbeam    15 Dec  7 17:29 text2.htm
4.0K -rw-rw-r-- 2 sunbeam sunbeam    15 Dec  7 17:29 text2link.htm
   0 -rw-rw-r-- 1 sunbeam sunbeam     0 Dec  7 17:12 text3.htm
   0 -rw-rw-r-- 1 sunbeam sunbeam     0 Dec  7 17:12 text4.htm
   0 -rw-rw-r-- 1 sunbeam sunbeam     0 Dec  7 17:12 text5.htm
   0 -rw-rw-r-- 1 sunbeam sunbeam     0 Dec  7 17:12 text6.htm
4.0K -rw-rw-r-- 1 sunbeam sunbeam  1.4K Dec  7 18:01 text7.txt
   0 lrwxrwxrwx 1 sunbeam sunbeam     9 Dec  7 17:22 text.htm -> text1.htm
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ ls -a | grep "^\."
.
..
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ tr '[:lower:]' '[:upper:]' < text7.txt
 > output.txt
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ cat output.txt
-RW-RW-R-- 1 1000 1000 15 JUN  9  2001 TEXT1.HTM
-RW-RW-R-- 2 1000 1000 15 DEC  7 17:29 TEXT2.HTM
-RW-RW-R-- 2 1000 1000 15 DEC  7 17:29 TEXT2LINK.HTM
-RW-RW-R-- 1 1000 1000  0 DEC  7 17:12 TEXT3.HTM
-RW-RW-R-- 1 1000 1000  0 DEC  7 17:12 TEXT4.HTM
-RW-RW-R-- 1 1000 1000  0 DEC  7 17:12 TEXT5.HTM
-RW-RW-R-- 1 1000 1000  0 DEC  7 17:12 TEXT6.HTM
DEVICE: 805H/2053D    INODE: 3408492    LINKS: 1
ACCESS: (0664/-RW-RW-R--)  UID: ( 1000/ SUNBEAM)   GID: ( 1000/ SUNBEAM)
ACCESS: 2023-12-07 17:25:17.556192496 +0530
MODIFY: 2023-12-07 17:25:13.092179035 +0530
CHANGE: 2023-12-07 17:25:13.244179490 +0530
 BIRTH: 2023-12-07 17:25:13.092179035 +0530
DEVICE: 805H/2053D    INODE: 3408486    LINKS: 1
ACCESS: (0664/-RW-RW-R--)  UID: ( 1000/ SUNBEAM)   GID: ( 1000/ SUNBEAM)
ACCESS: 2023-12-07 17:12:45.559291971 +0530
MODIFY: 2023-12-07 17:12:45.559291971 +0530
CHANGE: 2023-12-07 17:15:38.748922842 +0530
 BIRTH: 2023-12-07 17:12:45.559291971 +0530
  FILE: TEXT6.HTM
  SIZE: 0             BLOCKS: 0        IO BLOCK: 4096   REGULAR EMPTY FILE
DEVICE: 805H/2053D    INODE: 3408488    LINKS: 1
ACCESS: (0664/-RW-RW-R--)  UID: ( 1000/ SUNBEAM)   GID: ( 1000/ SUNBEAM)
ACCESS: 2023-12-07 17:12:45.559291971 +0530
MODIFY: 2023-12-07 17:12:45.559291971 +0530
CHANGE: 2023-12-07 17:15:38.748922842 +0530
 BIRTH: 2023-12-07 17:12:45.559291971 +0530
DAC
DMC
DBDC
D*C
DITIC
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$
```

```
CHANGE: 2023-12-07 17:25:13.244179490 +0530
 BIRTH: 2023-12-07 17:25:13.092179035 +0530
DEVICE: 805H/2053D      INODE: 3408486      LINKS: 1
ACCESS: (0664/-RW-RW-R--)  UID: ( 1000/ SUNBEAM)   GID: ( 1000/ SUNBEAM)
ACCESS: 2023-12-07 17:12:45.559291971 +0530
MODIFY: 2023-12-07 17:12:45.559291971 +0530
CHANGE: 2023-12-07 17:15:38.748922842 +0530
 BIRTH: 2023-12-07 17:12:45.559291971 +0530
  FILE: TEXT6.HTM
  SIZE: 0           BLOCKS: 0       IO BLOCK: 4096   REGULAR EMPTY FILE
DEVICE: 805H/2053D      INODE: 3408488      LINKS: 1
ACCESS: (0664/-RW-RW-R--)  UID: ( 1000/ SUNBEAM)   GID: ( 1000/ SUNBEAM)
ACCESS: 2023-12-07 17:12:45.559291971 +0530
MODIFY: 2023-12-07 17:12:45.559291971 +0530
CHANGE: 2023-12-07 17:15:38.748922842 +0530
 BIRTH: 2023-12-07 17:12:45.559291971 +0530
DAC
DMC
DBDC
D*C
DITIC
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ cut -d ':' -f 1,3 < text7.txt
-rw-rw-r-- 1 1000 1000 15 Jun  9  2001 text1.htm
-rw-rw-r-- 2 1000 1000 15 Dec  7 17
-rw-rw-r-- 2 1000 1000 15 Dec  7 17
-rw-rw-r-- 1 1000 1000  0 Dec  7 17
-rw-rw-r-- 1 1000 1000  0 Dec  7 17
-rw-rw-r-- 1 1000 1000  0 Dec  7 17
-rw-rw-r-- 1 1000 1000  0 Dec  7 17
Device: 3408492     Links
Access: ( 1000/ sunbeam)   Gid
Access:25
Modify:25
Change:25
 Birth:25
Device: 3408486     Links
Access: ( 1000/ sunbeam)   Gid
Access:12
Modify:12
Change:15
 Birth:12
  File
  Size: 0          IO Block
Device: 3408488     Links
Access: ( 1000/ sunbeam)   Gid
Access:12
Modify:12
Change:15
 Birth:12
DAC
DMC
DBDC
D*C
DITIC
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$
```

```
DEVICE: 805H/2053D      INODE: 3408486      LINKS: 1
ACCESS: (0664/-RW-RW-R--)  UID: ( 1000/ SUNBEAM)   GID: ( 1000/ SUNBEAM)
ACCESS: 2023-12-07 17:12:45.559291971 +0530
MODIFY: 2023-12-07 17:12:45.559291971 +0530
CHANGE: 2023-12-07 17:15:38.748922842 +0530
 BIRTH: 2023-12-07 17:12:45.559291971 +0530
  FILE: TEXT6.HTM
  SIZE: 0              BLOCKS: 0         IO BLOCK: 4096   REGULAR EMPTY FILE
DEVICE: 805H/2053D      INODE: 3408488      LINKS: 1
ACCESS: (0664/-RW-RW-R--)  UID: ( 1000/ SUNBEAM)   GID: ( 1000/ SUNBEAM)
ACCESS: 2023-12-07 17:12:45.559291971 +0530
MODIFY: 2023-12-07 17:12:45.559291971 +0530
CHANGE: 2023-12-07 17:15:38.748922842 +0530
 BIRTH: 2023-12-07 17:12:45.559291971 +0530
DAC
DMC
DBDC
D*C
DITIC
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ cut -d ':' -f 1,3 < text7.txt
-rw-rw-r-- 1 1000 1000 15 Jun  9  2001 text1.htm
-rw-rw-r-- 2 1000 1000 15 Dec  7 17
-rw-rw-r-- 2 1000 1000 15 Dec  7 17
-rw-rw-r-- 1 1000 1000  0 Dec  7 17
-rw-rw-r-- 1 1000 1000  0 Dec  7 17
-rw-rw-r-- 1 1000 1000  0 Dec  7 17
-rw-rw-r-- 1 1000 1000  0 Dec  7 17
Device: 3408492      Links
Access: ( 1000/ sunbeam)   Gid
Access:25
Modify:25
Change:25
 Birth:25
Device: 3408486      Links
Access: ( 1000/ sunbeam)   Gid
Access:12
Modify:12
Change:15
 Birth:12
  File
  Size: 0          IO Block
Device: 3408488      Links
Access: ( 1000/ sunbeam)   Gid
Access:12
Modify:12
Change:15
 Birth:12
DAC
DMC
DBDC
D*C
DITIC
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$ ls -l | wc -l
13
sunbeam@sunbeam-niraj:~/sunbeampull/mygitdata/OSC_ADM/Assignment2$
```