

# DTL ASSIGNMENT LINUX COMMANDS

## 1) Linux commands about Symlink

mkdir

rmdir

ls

rm

touch

tree

```
Activities Terminal
eureka@eureka-HP-Notebook: ~$ ls -F
a.out*      dir1/      main.c      que3.c/
ass2.c/     dir2/      main.o      que4.c/
Assignment1/ dir3/      Music/      sparse1.txt
Assignment2_112103160/ dir4/      pattern/    sparse2.txt
assignment3/ Documents/ Pictures/     sparse.c
assignment5/ Downloads/ PreetTrivedi_112103160_Assignment1.tar.gz sparse.h
assignment5dsa/ examples.desktop PreetTrivedi_112103160_Assignment5.tar.gz temp.c
assignment7/ file1      PreetTrivedi_Assignment5_112103160.tar.gz Templates/
Desktop/     hello.c    Public/      Videos/
eureka@eureka-HP-Notebook: ~$ rmdir dir1 dir2 dir4 dir3
eureka@eureka-HP-Notebook: ~$ mkdir dir1
eureka@eureka-HP-Notebook: ~$ mkdir dir2 dir3
eureka@eureka-HP-Notebook: ~$ ls
a.out*      assignment7/ examples.desktop Pictures      sparse1.txt
ass2.c      Desktop/     file1        PreetTrivedi_112103160_Assignment1.tar.gz sparse2.txt
Assignment1/ dir1/         hello.c      PreetTrivedi_112103160_Assignment5.tar.gz sparse.c
Assignment2_112103160/ dir2/         main.c       PreetTrivedi_Assignment5_112103160.tar.gz sparse.h
assignment3/ dir3/         main.o       Public       temp.c
assignment5/ Documents/    Music/       que3.c/     Templates/
assignment5dsa/ Downloads/   pattern/     que4.c/     Videos/
eureka@eureka-HP-Notebook: ~$ pwd
/home/eureka
eureka@eureka-HP-Notebook: ~$ ls -F
a.out*      assignment7/ examples.desktop Pictures/      sparse1.txt
ass2.c/     Desktop/     file1        PreetTrivedi_112103160_Assignment1.tar.gz sparse2.txt
Assignment1/ dir1/         hello.c      PreetTrivedi_112103160_Assignment5.tar.gz sparse.c
Assignment2_112103160/ dir2/         main.c       PreetTrivedi_Assignment5_112103160.tar.gz sparse.h
assignment3/ dir3/         main.o       Public       temp.c
assignment5/ Documents/    Music/       que3.c/     Templates/
assignment5dsa/ Downloads/   pattern/     que4.c/     Videos/
eureka@eureka-HP-Notebook: ~$
```

```
Activities Terminal
eureka@eureka-HP-Notebook: ~$ tree
.
├── a.out*
├── ass2.c/
├── Assignment1/
├── Assignment2_112103160/
├── assignment3/
├── assignment5/
├── assignment5dsa/
├── assignment7/
├── Desktop/
├── dir1/
├── dir2/
├── dir3/
├── Documents/
├── Downloads/
├── examples.desktop
├── file1
├── hello.c
├── main.c
├── main.o
├── Music/
├── pattern
├── Pictures/
├── PreetTrivedi_112103160_Assignment1.tar.gz
├── PreetTrivedi_112103160_Assignment5.tar.gz
├── PreetTrivedi_Assignment5_112103160.tar.gz
├── Public
├── que3.c/
├── que4.c/
├── sparse1.txt
├── sparse2.txt
├── sparse.c
├── sparse.h
├── temp.c
├── Templates/
└── Videos/
eureka@eureka-HP-Notebook: ~$ ls -l
drwxrwxr-x 2 eureka eureka 4096 Nov 25 22:48 assignment3
drwxrwxr-x 2 eureka eureka 4096 Dec  1 04:09 assignment5
drwxrwxr-x 2 eureka eureka 4096 Dec  7 02:37 assignment5dsa
drwxrwxr-x 2 eureka eureka 4096 Jan  6 03:22 assignment7
drwxr-xr-x 3 eureka eureka 4096 Dec  7 02:31 Desktop
drwxrwxr-x 2 eureka eureka 4096 Jan 13 01:04 dir1
drwxrwxr-x 2 eureka eureka 4096 Jan 13 01:04 dir2
drwxrwxr-x 2 eureka eureka 4096 Jan 13 01:04 dir3
drwxr-xr-x 3 eureka eureka 4096 Jan 13 00:35 Documents
drwxr-xr-x 2 eureka eureka 4096 Jan  6 03:27 Downloads
-rw-r--r-- 1 eureka eureka 8980 Nov  6 06:56 examples.desktop
-rw-rw-r-- 1 eureka eureka 145 Jan 13 00:51 file1
-rw-rw-r-- 1 eureka eureka 127 Nov 29 12:28 hello.c
-rw-rw-r-- 1 eureka eureka 189 Jan  3 00:54 main.c
-rw-rw-r-- 1 eureka eureka 1856 Jan  3 00:51 main.o
drwxr-xr-x 2 eureka eureka 4096 Nov  6 12:30 Music
drwxrwxr-x 2 eureka eureka 4096 Nov 20 11:37 pattern
drwxr-xr-x 2 eureka eureka 4096 Jan 13 01:05 Pictures
-rw-rw-r-- 1 eureka eureka 1192 Nov  6 16:54 PreetTrivedi_112103160_Assignment1.tar.gz
-rw-rw-r-- 1 eureka eureka 45 Dec  7 02:32 PreetTrivedi_112103160_Assignment5.tar.gz
-rw-rw-r-- 1 eureka eureka 3377 Dec  7 02:41 PreetTrivedi_Assignment5_112103160.tar.gz
drwxr-xr-x 2 eureka eureka 4096 Nov  6 12:30 Public
drwxr-xr-x 2 eureka eureka 4096 Nov  6 16:51 que3.c
drwxr-xr-x 2 eureka eureka 4096 Nov  6 16:07 que4.c
-rw-rw-r-- 1 eureka eureka 22 Jan  3 00:55 sparse1.txt
-rw-rw-r-- 1 eureka eureka 22 Jan  3 00:56 sparse2.txt
-rw-rw-r-- 1 eureka eureka 1528 Jan  3 01:02 sparse.c
-rw-rw-r-- 1 eureka eureka 364 Jan  3 01:02 sparse.h
-rw-rw-r-- 1 eureka eureka 718 Nov 28 21:06 temp.c
drwxr-xr-x 2 eureka eureka 4096 Nov  6 12:30 Templates
drwxr-xr-x 2 eureka eureka 4096 Nov  6 12:30 Videos
eureka@eureka-HP-Notebook: ~$
```

```
Activities Terminal * Fri 10:05 AM * eureka@eureka-HP-Notebook: ~
File Edit View Search Terminal Help
ass2.c:
6star.c a.out
Assignment1:
que1.c que2.c que3b.c que3.c que4.c que5.c que6.c que7.c
Assignment2_112103160:
assignment2 PreetTrivedi_112103160_Assignment2.tar.gz
assignment3:
PreetTrivedi_112103160_Assignment3.tar.gz ques1 ques1.c ques2 ques2.c ques3 ques3.c ques4 ques4.c
assignment5:
a.out Assignment5_112103160.tar.gz main.c main.o menu.c menu.h menu.o
assignment5dsa:
main.c main.o PreetTrivedi_112103160_Assignment5.tar.gz search.c search.h search.o sort.c sort.h sort.o temp
assignment7:
a.out Assignment7_112103160_PreetTrivedi.tar.gz hackathon.c hackathon.h hackathon.o main.c main.o
dir1:
dir2:
dir3:
que3.c:
a.out PreetTrivedi_112103160_Assignment1.tar.gz PreetTrivedi_112103160_Assignment.tar
que4.c:
eureka@eureka-HP-Notebook:~$ ls *[0-9]*
```

```
Activities Terminal * Fri 11:13 AM * eureka@eureka-HP-Notebook: ~
File Edit View Search Terminal Help
Screenshot from 2023-01-13 01-08-15.png
Screenshot from 2023-01-13 01-08-31.png
Screenshot from 2023-01-13 01-08-50.png
Screenshot from 2023-01-13 01-09-06.png
Screenshot from 2023-01-13 01-09-21.png
Screenshot from 2023-01-13 01-09-31.png
Screenshot from 2023-01-13 01-09-35.png
Screenshot from 2023-01-13 01-09-50.png
Screenshot from 2023-01-13 01-10-02.png
Screenshot from 2023-01-13 01-10-12.png
Screenshot from 2023-01-13 01-10-25.png
Screenshot from 2023-01-13 01-10-41.png
Screenshot from 2023-01-13 01-10-54.png
PreetTrivedi_112103160_Assignment1.tar.gz
PreetTrivedi_112103160_Assignment5.tar.gz
PreetTrivedi_Assignment5_112103160.tar.gz
Public
que3.c
a.out
PreetTrivedi_112103160_Assignment1.tar.gz
PreetTrivedi_112103160_Assignment.tar
que4.c
sparse1.txt
sparse2.txt
sparse.c
sparse.h
temp.c
Templates
Videos
21 directories, 119 files
eureka@eureka-HP-Notebook:~$ tree
```

## 2)Using Find Command

```
Activities Terminal Fri 1:08 AM eureka@eureka-HP-Notebook: ~
File Edit View Search Terminal Help

assignment7:
a.out Assignment7_112103160_PreetTrivedi.tar.gz hackathon.c hackathon.h hackathon.o main.c main.o

dir1:

dir2:

dir3:

que3.c:
a.out PreetTrivedi_112103160_Assignment1.tar.gz PreetTrivedi_112103160_Assignment.tar

que4.c:
eureka@eureka-HP-Notebook:~$ mkdir -p /dir4/dir5/dir6
mkdir: cannot create directory '/dir4': Permission denied
eureka@eureka-HP-Notebook:~$ rm -f file1
eureka@eureka-HP-Notebook:~$ rm -rf dir3
eureka@eureka-HP-Notebook:~$ rm -rf dir2 dir1
eureka@eureka-HP-Notebook:~$ ls
a.out      assignment5dsa      hello.c      PreetTrivedi_112103160_Assignment1.tar.gz  sparse1.txt  Videos
ass2.c     assignment7         main.c      PreetTrivedi_112103160_Assignment5.tar.gz  sparse2.txt
Assignment1 Desktop            main.o      PreetTrivedi_Assignment5_112103160.tar.gz  sparse.c
Assignment2_112103160 Documents         Music       Public
assignment3 Downloads          pattern     que3.c
assignment5 examples.desktop  Pictures    que4.c
eureka@eureka-HP-Notebook:~$ touch -t 0712250000 file1
eureka@eureka-HP-Notebook:~$ find -name file1
./file1
eureka@eureka-HP-Notebook:~$ find -iname FILE1
./file1
eureka@eureka-HP-Notebook:~$ find /path -type f -name .conf
```

```
Activities Terminal Fri 1:08 AM eureka@eureka-HP-Notebook: ~
File Edit View Search Terminal Help

dir2:

dir3:

que3.c:
a.out PreetTrivedi_112103160_Assignment1.tar.gz PreetTrivedi_112103160_Assignment.tar

que4.c:
eureka@eureka-HP-Notebook:~$ mkdir -p /dir4/dir5/dir6
mkdir: cannot create directory '/dir4': Permission denied
eureka@eureka-HP-Notebook:~$ rm -f file1
eureka@eureka-HP-Notebook:~$ rm -rf dir3
eureka@eureka-HP-Notebook:~$ rm -rf dir2 dir1
eureka@eureka-HP-Notebook:~$ ls
a.out      assignment5dsa      hello.c      PreetTrivedi_112103160_Assignment1.tar.gz  sparse1.txt  Videos
ass2.c     assignment7         main.c      PreetTrivedi_112103160_Assignment5.tar.gz  sparse2.txt
Assignment1 Desktop            main.o      PreetTrivedi_Assignment5_112103160.tar.gz  sparse.c
Assignment2_112103160 Documents         Music       Public
assignment3 Downloads          pattern     que3.c
assignment5 examples.desktop  Pictures    que4.c
eureka@eureka-HP-Notebook:~$ touch -t 0712250000 file1
eureka@eureka-HP-Notebook:~$ find -name file1
./file1
eureka@eureka-HP-Notebook:~$ find -iname FILE1
./file1
eureka@eureka-HP-Notebook:~$ find /path -type f -name .conf
find: '/path': No such file or directory
eureka@eureka-HP-Notebook:~$ find /home/eureka -type f -name .conf
eureka@eureka-HP-Notebook:~$ find /home/eureka -size 50c
/home/eureka/.mozilla/firefox/2hpkzntr.default/storage/default/https+++mail.google.com/.metadata
eureka@eureka-HP-Notebook:~$
```

```
Activities Terminal * Fri 1:09 AM * eureka@eureka-HP-Notebook: ~
File Edit View Search Terminal Help
/home/eureka/.cache/thunderbird/37f6f6ts.default/.startup-incomplete
/home/eureka/.cache/gnome-shell-portal-helper/WebKitCache/Version 12/salt
/home/eureka/.cache/mozilla/firefox/2hpkznttr.default/settings/main/ms-images/db.json
/home/eureka/.cache/mozilla/firefox/2hpkznttr.default/thumbnails/b29a656daad52eddeddcfb792ed5a7a.png
/home/eureka/.cache/mozilla/firefox/2hpkznttr.default/safebrowsing/test-phish-simple.pset
/home/eureka/.cache/mozilla/firefox/2hpkznttr.default/safebrowsing/test-unwanted-simple.pset
/home/eureka/.cache/mozilla/firefox/2hpkznttr.default/safebrowsing/test-track-simple.pset
/home/eureka/.cache/mozilla/firefox/2hpkznttr.default/safebrowsing/test-block-simple.pset
/home/eureka/.cache/mozilla/firefox/2hpkznttr.default/safebrowsing/test-trackwhite-simple.pset
/home/eureka/.cache/mozilla/firefox/2hpkznttr.default/safebrowsing/test-malware-simple.pset
/home/eureka/.cache/mozilla/firefox/2hpkznttr.default/safebrowsing/test-harmful-simple.pset
/home/eureka/.cache/zeitgeist-vacuum.stamp
/home/eureka/sparse2.txt
/home/eureka/.sudo_as_admin_successful
/home/eureka/.gnupg/pubring.kbx
/home/eureka/.thunderbird/Crash Reports/InstallTime20180416164209
/home/eureka/.thunderbird/Crash Reports/InstallTime20220906224751
/home/eureka/.thunderbird/37f6f6ts.default/times.json
/home/eureka/.thunderbird/37f6f6ts.default/directoryTree.json
/home/eureka/.thunderbird/37f6f6ts.default/SiteSecurityServiceState.txt
/home/eureka/.thunderbird/37f6f6ts.default/AlternateServices.txt
/home/eureka/.thunderbird/37f6f6ts.default/lock
/home/eureka/.thunderbird/37f6f6ts.default/storage/permanent/chrome/.metadata-v2
/home/eureka/.thunderbird/37f6f6ts.default/folderTree.json
/home/eureka/.thunderbird/37f6f6ts.default/.parentlock
/home/eureka/.thunderbird/37f6f6ts.default/virtualFolders.dat
/home/eureka/.thunderbird/37f6f6ts.default/addons.json
/home/eureka/.thunderbird/37f6f6ts.default/SecurityPreloadState.txt
/home/eureka/.thunderbird/installs.ini
/home/eureka/PreetTrivedi_112103160_Assignment5.tar.gz
/home/eureka/que3.c/PreetTrivedi_112103160_Assignment1.tar.gz
eureka@eureka-HP-Notebook:~$ find /home/eureka -size -50d
```

```
Activities Terminal * Fri 1:09 AM * eureka@eureka-HP-Notebook: ~
File Edit View Search Terminal Help
find: '/var/tmp/systemd-private-3558ef985fd045978efc04514995e333-fwupd.service-ms50BD': Permission denied
find: '/var/tmp/systemd-private-3558ef985fd045978efc04514995e333-rtkit-daemon.service-ilIvfo': Permission denied
find: '/var/tmp/systemd-private-3558ef985fd045978efc04514995e333-bolt.service-q0Buyp': Permission denied
find: '/var/tmp/systemd-private-3558ef985fd045978efc04514995e333-systemd-resolved.service-WLrDhA': Permission denied
find: '/var/tmp/systemd-private-3558ef985fd045978efc04514995e333-colord.service-e291t0': Permission denied
find: '/var/tmp/systemd-private-3558ef985fd045978efc04514995e333-ModemManager.service-iTUX3H': Permission denied
find: '/var/spool/cron/crontabs': Permission denied
find: '/var/spool/cups': Permission denied
find: '/var/spool/rsyslog': Permission denied
find: '/run/wpa_supplicant': Permission denied
find: '/run/gdm3': Permission denied
find: '/run/udisks2': Permission denied
find: '/run/cups/certs': Permission denied
find: '/run/user/120': Permission denied
find: '/run/sudo': Permission denied
find: '/run/systemd/unit-root': Permission denied
find: '/run/systemd/resolve/netif': Permission denied
find: '/run/systemd/inaccessible': Permission denied

find: '/tmp/systemd-private-3558ef985fd045978efc04514995e333-rtkit-daemon.service-ZkdIsH': Permission denied
find: '/tmp/systemd-private-3558ef985fd045978efc04514995e333-ModemManager.service-XilNa9': Permission denied
find: '/tmp/systemd-private-3558ef985fd045978efc04514995e333-fwupd.service-f0sH20': Permission denied
find: '/tmp/systemd-private-3558ef985fd045978efc04514995e333-colord.service-tnWf1c': Permission denied
find: '/tmp/systemd-private-3558ef985fd045978efc04514995e333-bolt.service-D0c6VD': Permission denied
find: '/tmp/systemd-private-3558ef985fd045978efc04514995e333-systemd-resolved.service-rwzt04': Permission denied
/swapfile
find: '/sys/kernel/debug': Permission denied
find: '/sys/fs/pstore': Permission denied
find: '/lost+found': Permission denied
eureka@eureka-HP-Notebook:~$
eureka@eureka-HP-Notebook:~$ find / -size +700M
```



```
Activities Terminal * Fri 1:09 AM eureka@eureka-HP-Notebook: ~
File Edit View Search Terminal Help
find: '/proc/1067/task/1179/fd': Permission denied
find: '/proc/1067/task/1179/fdinfo': Permission denied
find: '/proc/1067/task/1179/ns': Permission denied
find: '/proc/1067/fd': Permission denied
find: '/proc/1067/map_files': Permission denied
find: '/proc/1067/fdinfo': Permission denied
find: '/proc/1067/ns': Permission denied
find: '/proc/1069/task/1069/fd': Permission denied
find: '/proc/1069/task/1069/fdinfo': Permission denied
find: '/proc/1069/task/1069/ns': Permission denied
find: '/proc/1069/task/1070/fd': Permission denied
find: '/proc/1069/task/1070/fdinfo': Permission denied
find: '/proc/1069/task/1070/ns': Permission denied
find: '/proc/1069/task/1074/fd': Permission denied
find: '/proc/1069/task/1074/fdinfo': Permission denied
find: '/proc/1069/task/1074/ns': Permission denied
find: '/proc/1069/fd': Permission denied
find: '/proc/1069/map_files': Permission denied
find: '/proc/1069/fdinfo': Permission denied
find: '/proc/1069/ns': Permission denied
find: '/proc/1078/task/1078/fd': Permission denied
find: '/proc/1078/task/1078/fdinfo': Permission denied
find: '/proc/1078/task/1078/ns': Permission denied
find: '/proc/1078/task/1079/fd': Permission denied
find: '/proc/1078/task/1079/fdinfo': Permission denied
find: '/proc/1078/task/1079/ns': Permission denied
find: '/proc/1078/task/1081/fd': Permission denied
find: '/proc/1078/task/1081/fdinfo': Permission denied
find: '/proc/1078/task/1081/ns': Permission denied
find: '/proc/1078/fd': Permission denied
find: '/proc/1078/map_files': Permission denied
```

```
Activities Terminal * Fri 1:09 AM eureka@eureka-HP-Notebook: ~
File Edit View Search Terminal Help
find: '/var/cache/ldconfig': Permission denied
find: '/var/log/speech-dispatcher': Permission denied
find: '/var/log/gdm3': Permission denied
find: '/var/tmp/systemd-private-3558ef985fd045978efc04514995e333-fwupd.service-msSoBD': Permission denied
find: '/var/tmp/systemd-private-3558ef985fd045978efc04514995e333-rtkit-daemon.service-ilIvfo': Permission denied
find: '/var/tmp/systemd-private-3558ef985fd045978efc04514995e333-bolt.service-q0Buyp': Permission denied
find: '/var/tmp/systemd-private-3558ef985fd045978efc04514995e333-systemd-resolved.service-WLrDhA': Permission denied
find: '/var/tmp/systemd-private-3558ef985fd045978efc04514995e333-colord.service-e291t0': Permission denied
find: '/var/tmp/systemd-private-3558ef985fd045978efc04514995e333-ModemManager.service-iTUX3H': Permission denied
find: '/var/spool/cron/crontabs': Permission denied
find: '/var/spool/cups': Permission denied
find: '/var/spool/rsyslog': Permission denied
find: '/run/wpa_supplicant': Permission denied
find: '/run/gdm3': Permission denied
find: '/run/udisks2': Permission denied
find: '/run/cups/certs': Permission denied
find: '/run/user/120': Permission denied
find: '/run/sudo': Permission denied
find: '/run/systemd/unit-root': Permission denied
find: '/run/systemd/resolve/netif': Permission denied
find: '/run/systemd/inaccessible': Permission denied
find: '/tmp/systemd-private-3558ef985fd045978efc04514995e333-rtkit-daemon.service-ZkdIsH': Permission denied
find: '/tmp/systemd-private-3558ef985fd045978efc04514995e333-ModemManager.service-XilNa9': Permission denied
find: '/tmp/systemd-private-3558ef985fd045978efc04514995e333-fwupd.service-f0sH20': Permission denied
find: '/tmp/systemd-private-3558ef985fd045978efc04514995e333-colord.service-tnWf1c': Permission denied
find: '/tmp/systemd-private-3558ef985fd045978efc04514995e333-bolt.service-D0c6VD': Permission denied
find: '/tmp/systemd-private-3558ef985fd045978efc04514995e333-systemd-resolved.service-rwzt04': Permission denied
find: '/sys/kernel/debug': Permission denied
find: '/sys/fs/pstore': Permission denied
find: '/lost+found': Permission denied
eureka@eureka-HP-Notebook:~$
eureka@eureka-HP-Notebook:~$ find / -mtime 1
```

```
Activities Terminal * Fri 11:10 AM eureka@eureka-HP-Notebook: ~
File Edit View Search Terminal Help
find: '/var/tmp/systemd-private-3558ef985fd045978efc04514995e333-rtkit-daemon.service-ilIvfo': Permission denied
find: '/var/tmp/systemd-private-3558ef985fd045978efc04514995e333-bolt.service-q0Buyp': Permission denied
find: '/var/tmp/systemd-private-3558ef985fd045978efc04514995e333-systemd-resolved.service-WLrDhA': Permission denied
find: '/var/tmp/systemd-private-3558ef985fd045978efc04514995e333-colord.service-e291t0': Permission denied
find: '/var/tmp/systemd-private-3558ef985fd045978efc04514995e333-ModemManager.service-iTUX3H': Permission denied
find: '/var/spool/cron/crontabs': Permission denied
find: '/var/spool/cups': Permission denied
find: '/var/spool/rsyslog': Permission denied
find: '/run/wpa_supplicant': Permission denied
find: '/run/gdm3': Permission denied
find: '/run/udisks2': Permission denied
find: '/run/cups/certs': Permission denied
find: '/run/user/120': Permission denied
find: '/run/sudo': Permission denied
find: '/run/systemd/unit-root': Permission denied
find: '/run/systemd/resolve/netif': Permission denied
find: '/run/systemd/inaccessible': Permission denied

find: '/tmp/systemd-private-3558ef985fd045978efc04514995e333-rtkit-daemon.service-ZkdIsH': Permission denied
find: '/tmp/systemd-private-3558ef985fd045978efc04514995e333-ModemManager.service-XilNa9': Permission denied
find: '/tmp/systemd-private-3558ef985fd045978efc04514995e333-fwupd.service-f0sH20': Permission denied
find: '/tmp/systemd-private-3558ef985fd045978efc04514995e333-colord.service-tnWf1c': Permission denied
find: '/tmp/systemd-private-3558ef985fd045978efc04514995e333-bolt.service-D0c6VD': Permission denied
find: '/tmp/systemd-private-3558ef985fd045978efc04514995e333-systemd-resolved.service-rwzt04': Permission denied
find: '/sys/kernel/debug': Permission denied
find: '/sys/fs/pstore': Permission denied
find: '/lost+found': Permission denied
eureka@eureka-HP-Notebook:~$
eureka@eureka-HP-Notebook:~$
eureka@eureka-HP-Notebook:~$
eureka@eureka-HP-Notebook:~$
eureka@eureka-HP-Notebook:~$ find / -ctime 1
```

```
Activities Terminal * Fri 11:10 AM eureka@eureka-HP-Notebook: ~
File Edit View Search Terminal Help
/home/eureka/Pictures/Screenshot from 2023-01-13 01-09-35.png
/home/eureka/Pictures/Screenshot from 2023-01-13 01-10-12.png
/home/eureka/Pictures/Screenshot from 2023-01-13 01-10-02.png
/home/eureka/Pictures/Screenshot from 2023-01-13 01-09-21.png
/home/eureka/.local/share
/home/eureka/.local/share/recently-used.xbel
find: '/run/wpa_supplicant': Permission denied
find: '/run/gdm3': Permission denied
find: '/run/udisks2': Permission denied
find: '/run/cups/certs': Permission denied
/run/user/1000/dconf/user
find: '/run/user/120': Permission denied
find: '/run/sudo': Permission denied
find: '/run/systemd/unit-root': Permission denied
find: '/run/systemd/resolve/netif': Permission denied
find: '/run/systemd/inaccessible': Permission denied

find: '/tmp/systemd-private-3558ef985fd045978efc04514995e333-rtkit-daemon.service-ZkdIsH': Permission denied
find: '/tmp/systemd-private-3558ef985fd045978efc04514995e333-ModemManager.service-XilNa9': Permission denied
find: '/tmp/systemd-private-3558ef985fd045978efc04514995e333-fwupd.service-f0sH20': Permission denied
find: '/tmp/systemd-private-3558ef985fd045978efc04514995e333-colord.service-tnWf1c': Permission denied
find: '/tmp/systemd-private-3558ef985fd045978efc04514995e333-bolt.service-D0c6VD': Permission denied
find: '/tmp/systemd-private-3558ef985fd045978efc04514995e333-systemd-resolved.service-rwzt04': Permission denied
find: '/sys/kernel/debug': Permission denied
find: '/sys/fs/pstore': Permission denied
find: '/lost+found': Permission denied
eureka@eureka-HP-Notebook:~$
eureka@eureka-HP-Notebook:~$
eureka@eureka-HP-Notebook:~$
eureka@eureka-HP-Notebook:~$
eureka@eureka-HP-Notebook:~$ find / -mmin -1
```

```
Activities Terminal * Fri 1:10 AM eureka@eureka-HP-Notebook: ~
File Edit View Search Terminal Help
/proc/1264/task/1266/gid_map
/proc/1264/task/1266/projid_map
/proc/1264/task/1266/setgroups
find: '/proc/1264/task/1411/fd': Permission denied
find: '/proc/1264/task/1411/fdinfo': Permission denied
find: '/proc/1264/task/1411/ns': Permission denied
/proc/1264/task/1411/sched
/proc/1264/task/1411/comm
/proc/1264/task/1411/oom_adj
/proc/1264/task/1411/oom_score_adj
/proc/1264/task/1411/loginuid
/proc/1264/task/1411/uid_map
/proc/1264/task/1411/gid_map
/proc/1264/task/1411/projid_map
/proc/1264/task/1411/setgroups
find: '/proc/1264/fd': Permission denied
find: '/proc/1264/map_files': Permission denied
find: '/proc/1264/fdinfo': Permission denied
find: '/proc/1264/ns': Permission denied
/proc/1264/sched
/proc/1264/autogroup
/proc/1264/comm
/proc/1264/oom_adj
/proc/1264/oom_score_adj
/proc/1264/loginuid
/proc/1264/coredump_filter
/proc/1264/uid_map
/proc/1264/gid_map
/proc/1264/projid_map
/proc/1264/setgroups
^C
eureka@eureka-HP-Notebook:~$ find / -perm 644
```

```
Activities Terminal * Fri 1:10 AM eureka@eureka-HP-Notebook: ~
File Edit View Search Terminal Help
/snap/gnome-42-2204/44/usr/share/locale/ru/LC_MESSAGES/p11-kit.mo
/snap/gnome-42-2204/44/usr/share/locale/ru/LC_MESSAGES/xdg-user-dirs.mo
/snap/gnome-42-2204/44/usr/share/locale/rw
/snap/gnome-42-2204/44/usr/share/locale/rw/LC_MESSAGES
/snap/gnome-42-2204/44/usr/share/locale/rw/LC_MESSAGES/atk10.mo
/snap/gnome-42-2204/44/usr/share/locale/rw/LC_MESSAGES/glib20.mo
/snap/gnome-42-2204/44/usr/share/locale/rw/LC_MESSAGES/gnome-desktop-3.0.mo
/snap/gnome-42-2204/44/usr/share/locale/rw/LC_MESSAGES/gtk30-properties.mo
/snap/gnome-42-2204/44/usr/share/locale/rw/LC_MESSAGES/gtk30.mo
/snap/gnome-42-2204/44/usr/share/locale/rw/LC_MESSAGES/gtk40.mo
/snap/gnome-42-2204/44/usr/share/locale/rw/LC_MESSAGES/gtksourceview-3.0.mo
/snap/gnome-42-2204/44/usr/share/locale/rw/LC_MESSAGES/gtksourceview-5.mo
/snap/gnome-42-2204/44/usr/share/locale/rw/LC_MESSAGES/iso_3166-1.mo
/snap/gnome-42-2204/44/usr/share/locale/rw/LC_MESSAGES/iso_3166-3.mo
/snap/gnome-42-2204/44/usr/share/locale/rw/LC_MESSAGES/iso_3166.mo
/snap/gnome-42-2204/44/usr/share/locale/rw/LC_MESSAGES/iso_4217.mo
/snap/gnome-42-2204/44/usr/share/locale/rw/LC_MESSAGES/iso_639-2.mo
/snap/gnome-42-2204/44/usr/share/locale/rw/LC_MESSAGES/iso_639-3.mo
/snap/gnome-42-2204/44/usr/share/locale/rw/LC_MESSAGES/iso_639.mo
/snap/gnome-42-2204/44/usr/share/locale/rw/LC_MESSAGES/iso_639_3.mo
/snap/gnome-42-2204/44/usr/share/locale/rw/LC_MESSAGES/libgweather-4.0-locations.mo
/snap/gnome-42-2204/44/usr/share/locale/rw/LC_MESSAGES/libgweather-4.0.mo
/snap/gnome-42-2204/44/usr/share/locale/sa
/snap/gnome-42-2204/44/usr/share/locale/sa/LC_MESSAGES
/snap/gnome-42-2204/44/usr/share/locale/sa/LC_MESSAGES/xdg-user-dirs.mo
/snap/gnome-42-2204/44/usr/share/locale/sat
/snap/gnome-42-2204/44/usr/share/locale/sat/LC_MESSAGES
/snap/gnome-42-2204/44/usr/share/locale/sat/LC_MESSAGES/gnome-desktop-3.0.mo
/snap/gnome-42-2204/44/usr/share/locale/sc
/snap/gnome-42-2204/44/usr/share/locale/sc/LC_MESSAGES
^C
eureka@eureka-HP-Notebook:~$ find / -perm -644
```

### 3)Commands to check Word Count

```
Activities Terminal * Fri 10:01 AM eureka@eureka-HP-Notebook: ~
File Edit View Search Terminal Help
/snap/core/13886/lib/systemd/systemd-timesyncd
/snap/core/13886/lib/systemd/systemd-udev
/snap/core/13886/lib/systemd/systemd-update-utmp
/snap/core/13886/lib/systemd/systemd-user-sessions
/snap/core/13886/lib/terminfo
^C
eureka@eureka-HP-Notebook:~$ vi file1
eureka@eureka-HP-Notebook:~$ wc -l file1
7 file1
eureka@eureka-HP-Notebook:~$ cat file1
This is file1
to check number of
lines
number of words
count of bytes used
and count of characters and
length of the longest line in the file
eureka@eureka-HP-Notebook:~$ cat file1 | wc -l
7
eureka@eureka-HP-Notebook:~$ wc -w
^C
eureka@eureka-HP-Notebook:~$ wc -w file1
28 file1
eureka@eureka-HP-Notebook:~$ wc -c file1
145 file1
eureka@eureka-HP-Notebook:~$ wc -m file1
145 file1
eureka@eureka-HP-Notebook:~$ wc -L file1
39 file1
eureka@eureka-HP-Notebook:~$
```