DTL ASSIGNMENT LINUX COMMANDS

1) Linux commands about Symlink

mkdir

rmdir

ls

rm

touch

tree

2)Using Find Command

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   sparse.h
assignment3   Downloads   pattern   que3.c   temp.c
assignment5   examples.desktop Pictures   que4.c   Templates
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

---

eureka@eureka-HP-Notebook: ~

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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   sparse.h
assignment3   Downloads   pattern   que3.c   temp.c
assignment5   examples.desktop Pictures   que4.c   Templates
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:~$

File Edit View Search Terminal Help

```
/home/eureka/.cache/thunderbird/37fvf6ts.default/.startup-incomplete
/home/eureka/.cache/gnome-shell-portal-helper/WebKitCache/Version 12/salt
/home/eureka/.cache/mozilla/firefox/2hpkzntr.default/settings/main/ms-images/db.json
/home/eureka/.cache/mozilla/firefox/2hpkzntr.default/thumbnails/b29a656daad52eddedddcfb792ed5a7a.png
/home/eureka/.cache/mozilla/firefox/2hpkzntr.default/safebrowsing/test-phish-simple.pset
/home/eureka/.cache/mozilla/firefox/2hpkzntr.default/safebrowsing/test-unwanted-simple.pset
/home/eureka/.cache/mozilla/firefox/2hpkzntr.default/safebrowsing/test-track-simple.pset
/home/eureka/.cache/mozilla/firefox/2hpkzntr.default/safebrowsing/test-block-simple.pset
/home/eureka/.cache/mozilla/firefox/2hpkzntr.default/safebrowsing/test-trackwhite-simple.pset
/home/eureka/.cache/mozilla/firefox/2hpkzntr.default/safebrowsing/test-malware-simple.pset
/home/eureka/.cache/mozilla/firefox/2hpkzntr.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/37fvf6ts.default/times.json
/home/eureka/.thunderbird/37fvf6ts.default/directoryTree.json
/home/eureka/.thunderbird/37fvf6ts.default/SiteSecurityServiceState.txt
/home/eureka/.thunderbird/37fvf6ts.default/AlternateServices.txt
/home/eureka/.thunderbird/37fvf6ts.default/lock
/home/eureka/.thunderbird/37fvf6ts.default/storage/permanent/chrome/.metadata-v2
/home/eureka/.thunderbird/37fvf6ts.default/folderTree.json
/home/eureka/.thunderbird/37fvf6ts.default/.parentlock
/home/eureka/.thunderbird/37fvf6ts.default/virtualFolders.dat
/home/eureka/.thunderbird/37fvf6ts.default/addons.json
/home/eureka/.thunderbird/37fvf6ts.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 -50c
```

File Edit View Search Terminal Help

```
find: '/var/tmp/systemd-private-3558ef985fd045978efc04514995e333-fwupd.service-ms5oBD': 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-f0sH2O': 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-rwztO4': 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:~$
eureka@eureka-HP-Notebook:~$ find / -size +700M
```

```
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
```

```
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-ms5oBD': 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-f0sH2O': 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-rwztO4': 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
```

```
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-f0sH2O': 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-rwztO4': 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
```

```
/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-f0sH2O': 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-rwztO4': 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
```
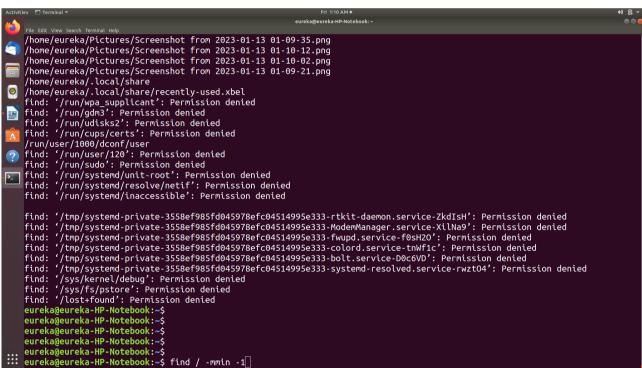
3)Commands to check Word Count

File Edit View Search Terminal Help

/snap/core/13886/lib/systemd/systemd-timesyncd
/snap/core/13886/lib/systemd/systemd-udevd
/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:~$ ☐