# Week Report 4

### PRACTICE FROM THE PRESENTATION THE LINUX FILE SYSTEM:

```
chris@CIS106: ~
                                                                   Q ≡
chris@CIS106:~$ pwd
/home/chris
chris@CIS106:~$ cd Downloads/
chris@CIS106:~/Downloads$ pwd
/home/chris/Downloads
chris@CIS106:~/Downloads$ cd ...
chris@CIS106:~$ pwd
/home/chris
chris@CIS106:~$ cd
chris@CIS106:~$ cd -
/home/chris
chris@CIS106:~$ pwd
/home/chris
chris@CIS106:~$
```

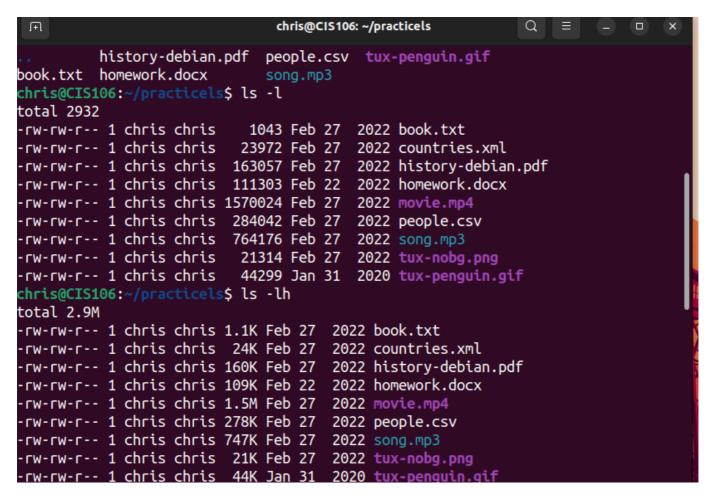
```
chris@CIS106:~$ wget https://cis106.com/assets/practicels.tar.xz
-2023-10-28 18:42:12-- https://cis106.com/assets/practicels.tar.xz
Resolving cis106.com (cis106.com)... 185.199.108.153
Connecting to cis106.com (cis106.com)|185.199.108.153|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 2229212 (2.1M) [application/x-xz]
Saving to: 'practicels.tar.xz'
oracticels.tar.xz
                  in 1.4s
2023-10-28 18:42:14 (1.57 MB/s) - 'practicels.tar.xz' saved [2229212/2229212]
chris@CIS106:~$ tar Jxf practicels.tar.xz
chris@CIS106:~$ cd practicel/
bash: cd: practicel/: No such file or directory
chris@CIS106:~$ cd practicels/
chris@CIS106:~/practicels$ ls
book.txt
             history-debian.pdf movie.mp4
                                            song.mp3
                                                         tux-penguin.gif
countries.xml homework.docx
                                 people.csv tux-nobg.png
chris@CIS106:~/practicels$ ls -a
         countries.xml
                            movie.mp4
                                       tux-nobq.pnq
         history-debian.pdf people.csv tux-penguin.gif
book.txt homework.docx
                            song.mp3
chris@CIS106:~/practicels$ ls -l
```

```
chris@CIS106: ~/practicels
         history-debian.pdf
                             people.csv tux-penguin.gif
book.txt homework.docx
                             song.mp3
chris@CIS106:~/practicels$ ls -l
total 2932
-rw-rw-r-- 1 chris chris
                          1043 Feb 27 2022 book.txt
-rw-rw-r-- 1 chris chris 23972 Feb 27 2022 countries.xml
-rw-rw-r-- 1 chris chris 163057 Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 chris chris 111303 Feb 22 2022 homework.docx
-rw-rw-r-- 1 chris chris 1570024 Feb 27 2022 movie.mp4
rw-rw-r-- 1 chris chris 284042 Feb 27 2022 people.csv
-rw-rw-r-- 1 chris chris 764176 Feb 27 2022 song.mp3
-rw-rw-r-- 1 chris chris 21314 Feb 27
                                        2022 tux-nobg.png
-rw-rw-r-- 1 chris chris 44299 Jan 31 2020 tux-penguin.gif
chris@CIS106:~/practicels$ ls -lh
total 2.9M
-rw-rw-r-- 1 chris chris 1.1K Feb 27 2022 book.txt
-rw-rw-r-- 1 chris chris 24K Feb 27
                                     2022 countries.xml
-rw-rw-r-- 1 chris chris 160K Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 chris chris 109K Feb 22 2022 homework.docx
-rw-rw-r-- 1 chris chris 1.5M Feb 27 2022 movie.mp4
-rw-rw-r-- 1 chris chris 278K Feb 27 2022 people.csv
-rw-rw-r-- 1 chris chris 747K Feb 27
                                     2022 song.mp3
rw-rw-r-- 1 chris chris 21K Feb 27
                                     2022 tux-nobg.png
-rw-rw-r-- 1 chris chris 44K Jan 31 2020 tux-penguin.gif
```

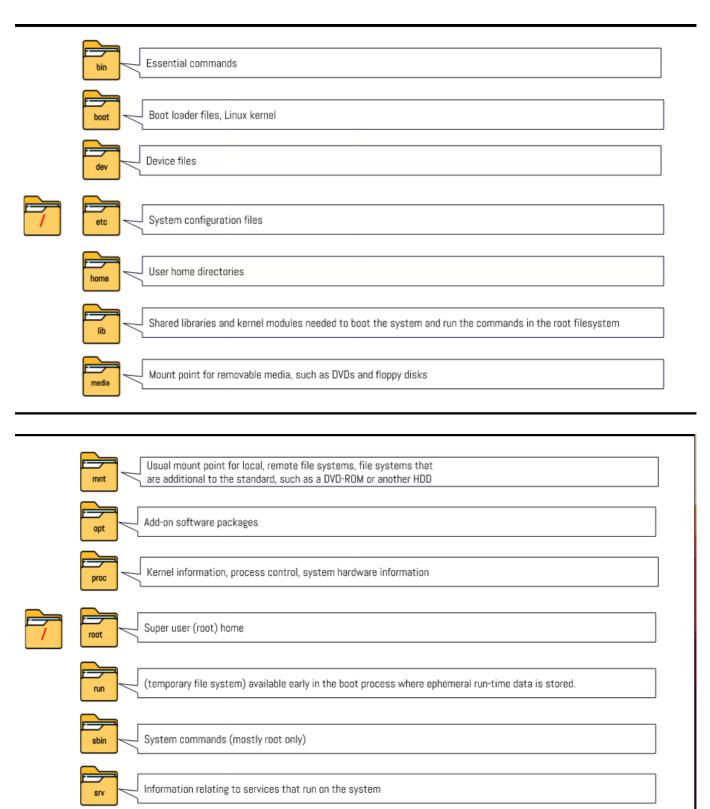
```
-rw-rw-r-- 1 chris chris 44K Jan 31
                                    2020 tux-penguin.gif
chris@CIS106:~/practicels$ ls -lht
total 2.9M
-rw-rw-r-- 1 chris chris 24K Feb 27
                                    2022 countries.xml
-rw-rw-r-- 1 chris chris 278K Feb 27
                                    2022 people.csv
-rw-rw-r-- 1 chris chris 747K Feb 27
                                    2022 song.mp3
rw-rw-r-- 1 chris chris 1.5M Feb 27
                                    2022 movie.mp4
rw-rw-r-- 1 chris chris 160K Feb 27
                                    2022 history-debian.pdf
-rw-rw-r-- 1 chris chris 21K Feb 27
                                    2022 tux-nobg.png
-rw-rw-r-- 1 chris chris 1.1K Feb 27
                                    2022 book.txt
-rw-rw-r-- 1 chris chris 109K Feb 22 2022 homework.docx
-rw-rw-r-- 1 chris chris 44K Jan 31 2020 tux-penguin.gif
chris@CIS106:~/practicels$ ls -lhgGS
total 2.9M
-rw-rw-r-- 1 1.5M Feb 27 2022 movie.mp4
-rw-rw-r-- 1 747K Feb 27 2022 song.mp3
-rw-rw-r-- 1 278K Feb 27
                        2022 people.csv
rw-rw-r-- 1 109K Feb 22 2022 homework.docx
rw-rw-r-- 1 44K Jan 31
                        2020 tux-penguin.gif
-rw-rw-r-- 1 24K Feb 27
                        2022 countries.xml
-rw-rw-r-- 1 21K Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 1.1K Feb 27 2022 book.txt
chris@CIS106:~/practicels$ ls -mr
-rw-rw-r-- 1 chris chris 1.5M Feb 27 2022 movie.mp4
-rw-rw-r-- 1 chris chris 160K Feb 27
                                    2022 history-debian.pdf
-rw-rw-r-- 1 chris chris 21K Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 chris chris 1.1K Feb 27
                                    2022 book.txt
-rw-rw-r-- 1 chris chris 109K Feb 22 2022 homework.docx
-rw-rw-r-- 1 chris chris 44K Jan 31
                                    2020 tux-penguin.gif
chris@CIS106:~/practicels$ ls -lhgGS
total 2.9M
```

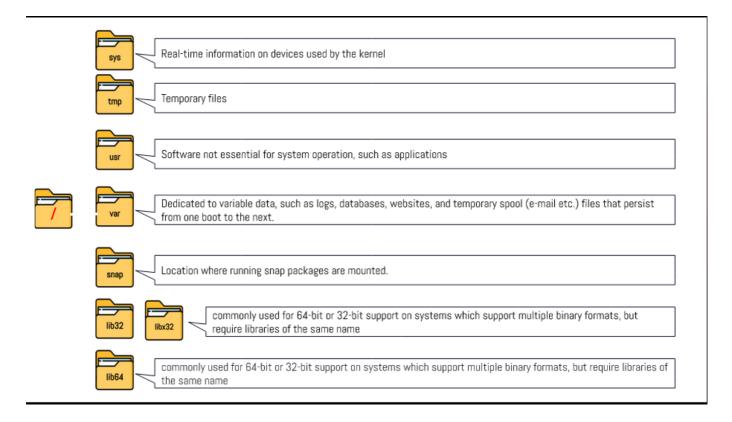
```
-rw-rw-r-- 1 1.5M Feb 27 2022 movie.mp4
-rw-rw-r-- 1 747K Feb 27 2022 song.mp3
-rw-rw-r-- 1 278K Feb 27 2022 people.csv
-rw-rw-r-- 1 160K Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 109K Feb 22 2022 homework.docx
-rw-rw-r-- 1 44K Jan 31 2020 tux-penguin.gif
-rw-rw-r-- 1 24K Feb 27 2022 countries.xml
-rw-rw-r-- 1 21K Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 1.1K Feb 27 2022 book.txt
chris@CIS106:~/practicels$ ls -mr
tux-penguin.gif, tux-nobg.png, song.mp3, people.csv, movie.mp4, homework.docx,
history-debian.pdf, countries.xml, book.txt
chris@CIS106:~/practicels$ ls -1x
book.txt
           countries.xml history-debian.pdf
                                              homework.docx
                                                               movie.mp4
people.csv song.mp3
                          tux-nobg.png
                                              tux-penguin.gif
chris@CIS106:~/practicels$ ~
```

```
:hris@CIS106:~$ pwd
home/chris
:hris@CIS106:~$ cd
:hris@CIS106:~$ cd /
:hris@CIS106:/$ cd usr/share/themes/
:hris@CIS106:/usr/share/themes$ cd ../../
:hris@CIS106:/usr$ ls -A ~
bash history
                                  .sudo as admin successful
              .lesshst
bash_logout
bashrc
oread.txt
                                  .vboxclient-clipboard-tty2-control.pid
                                  .vboxclient-clipboard-tty2-service.pid
              oreo.png
                                  .vboxclient-draganddrop-tty2-control.pid
                                  .vboxclient-draganddrop-ttv2-service.pid
is106.png
              pizza.txt
                                  .vboxclient-hostversion-tty2-control.pid
                                  .vboxclient-seamless-tty2-control.pid
                                  .vboxclient-seamless-tty2-service.pid
              pp pizza.txt
                                  .vboxclient-vmsvga-session-ttv2-control.pid
                                  .vboxclient-vmsvga-session-tty2-service.pid
              .profile
gitconfig
:hris@CIS106:/usr$ ls -lh ~
```



## THE LINUX FILE SYSTEM DIRECTORIES AND THEIR PURPOSE:





### ALL THE COMMANDS FOR NAVIGATING THE FILESYSTEM

Command	What it does	Syntax	Example
pwd	used for displaying the current working directory	pwd	pwd=/home/chris
cd	used for changing the current working directory to the home directory of the current user.	<pre>cd + option + directory</pre>	cd /usr/share/themes
ls	used for displaying all the files inside a given directory. when no directory is specified, "ls" displays the files in the current directories	<pre>ls + option + directory</pre>	ls -l

# Basic terminology

- File System the way files are stored and organized
- · Current directory directory where you are at the moment
- Parent Directory the subdirectory that is adjacent to the current working directory
- The difference between your home directory and THE HOME directory your home directory is the file where all of the files in, "home" are stored. "The home" directory can also be referred to as the root directory, where all files from the system stem from.
- pathname indicates the location of the file in the filesystem
- relative path the location of a file starting from the root of the file system

• absolute path - then location of a file starting from the current working directory or a directory that is located inside the current working directory