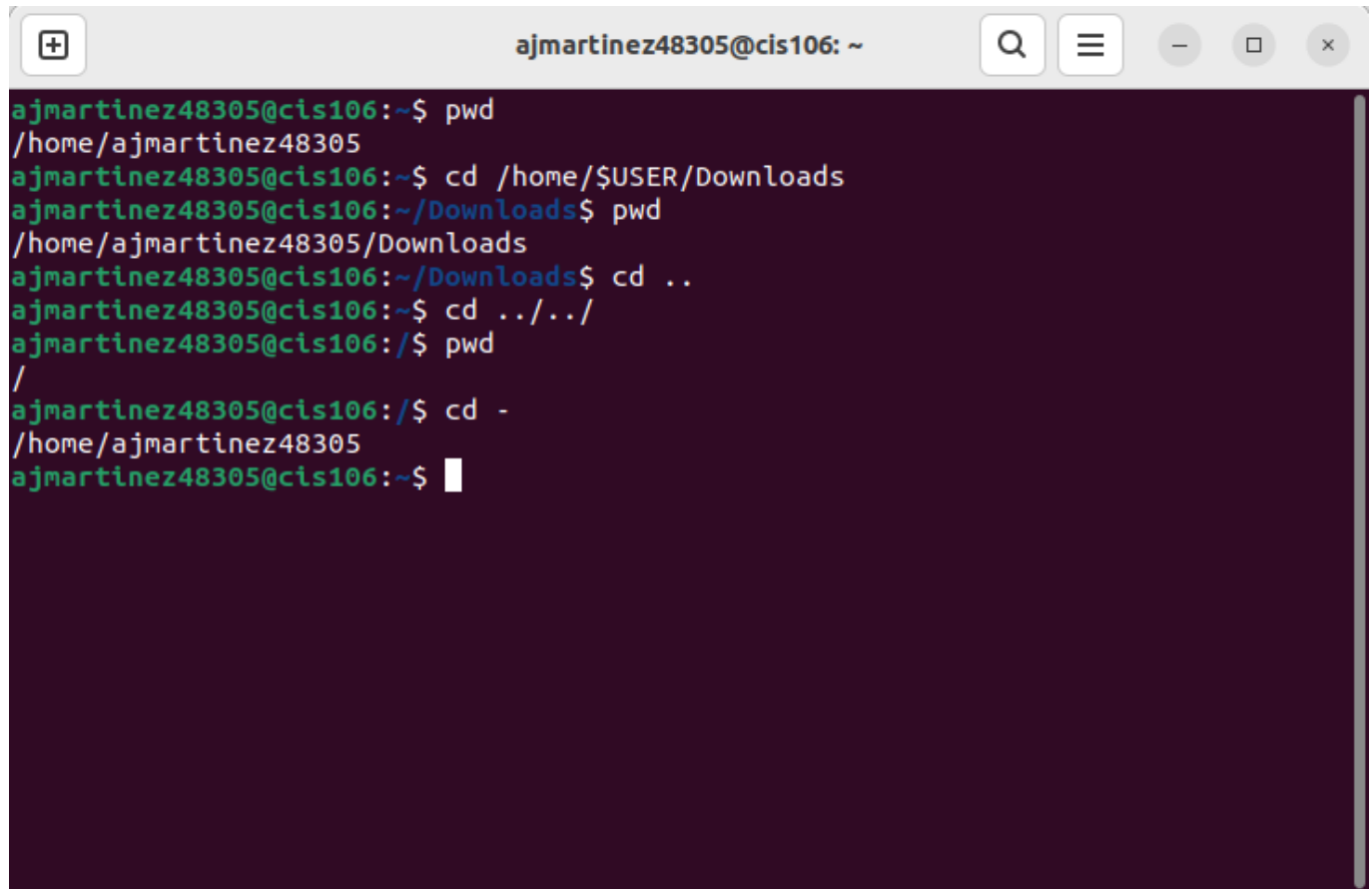


Week Report 4

Practice from the presentation The Linux File system

Practice 1



```
ajmartinez48305@cis106: ~  
ajmartinez48305@cis106:~$ pwd  
/home/ajmartinez48305  
ajmartinez48305@cis106:~$ cd /home/$USER/Downloads  
ajmartinez48305@cis106:~/Downloads$ pwd  
/home/ajmartinez48305/Downloads  
ajmartinez48305@cis106:~/Downloads$ cd ..  
ajmartinez48305@cis106:~$ cd ../../  
ajmartinez48305@cis106:/$ pwd  
/  
ajmartinez48305@cis106:/$ cd -  
/home/ajmartinez48305  
ajmartinez48305@cis106:~$
```

Practice 2

```

Applications  Places
ajmartinez48305@cis106: ~/practicels

ajmartinez48305@cis106:~$ wget https://cis106.com/assets/practicels.tar.xz
--2023-03-28 12:54:49-- 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'

practicels.tar.xz  100%[=====] 2.12M  3.46MB/s   in 0.6s

2023-03-28 12:54:52 (3.46 MB/s) - 'practicels.tar.xz' saved [2229212/2229212]

ajmartinez48305@cis106:~$ tar xvf practicels.tar.xz
ajmartinez48305@cis106:~$ cd practicels/
ajmartinez48305@cis106:~/practicels$ ls
book.txt      history-debian.pdf  movie.mp4      song.mp3      tux-penguin.gif
countries.xml  homework.docx      people.csv     tux-nobg.png
ajmartinez48305@cis106:~/practicels$ ls -la
total 2932
-rw-rw-r-- 1 ajmartinez48305 ajmartinez48305 1043 Feb 27 2022 book.txt
-rw-rw-r-- 1 ajmartinez48305 ajmartinez48305 23972 Feb 27 2022 countries.xml
-rw-rw-r-- 1 ajmartinez48305 ajmartinez48305 163057 Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 ajmartinez48305 ajmartinez48305 111303 Feb 22 2022 homework.docx
-rw-rw-r-- 1 ajmartinez48305 ajmartinez48305 1570024 Feb 27 2022 movie.mp4
-rw-rw-r-- 1 ajmartinez48305 ajmartinez48305 284042 Feb 27 2022 people.csv
-rw-rw-r-- 1 ajmartinez48305 ajmartinez48305 764170 Feb 27 2022 song.mp3
-rw-rw-r-- 1 ajmartinez48305 ajmartinez48305 21314 Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 ajmartinez48305 ajmartinez48305 44299 Jan 31 2020 tux-penguin.gif
ajmartinez48305@cis106:~/practicels$ ls -lh
total 2.9M
-rw-rw-r-- 1 ajmartinez48305 ajmartinez48305 1.1K Feb 27 2022 book.txt
-rw-rw-r-- 1 ajmartinez48305 ajmartinez48305 24K Feb 27 2022 countries.xml
-rw-rw-r-- 1 ajmartinez48305 ajmartinez48305 160K Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 ajmartinez48305 ajmartinez48305 109K Feb 22 2022 homework.docx
-rw-rw-r-- 1 ajmartinez48305 ajmartinez48305 1.5M Feb 27 2022 movie.mp4
-rw-rw-r-- 1 ajmartinez48305 ajmartinez48305 278K Feb 27 2022 people.csv
-rw-rw-r-- 1 ajmartinez48305 ajmartinez48305 747K Feb 27 2022 song.mp3
-rw-rw-r-- 1 ajmartinez48305 ajmartinez48305 21K Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 ajmartinez48305 ajmartinez48305 44K Jan 31 2020 tux-penguin.gif
ajmartinez48305@cis106:~/practicels$ ls -lht
total 2.9M
-rw-rw-r-- 1 ajmartinez48305 ajmartinez48305 24K Feb 27 2022 countries.xml
-rw-rw-r-- 1 ajmartinez48305 ajmartinez48305 278K Feb 27 2022 people.csv
-rw-rw-r-- 1 ajmartinez48305 ajmartinez48305 747K Feb 27 2022 song.mp3
-rw-rw-r-- 1 ajmartinez48305 ajmartinez48305 160K Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 ajmartinez48305 ajmartinez48305 1.5M Feb 27 2022 movie.mp4
-rw-rw-r-- 1 ajmartinez48305 ajmartinez48305 1.1K Feb 27 2022 book.txt
-rw-rw-r-- 1 ajmartinez48305 ajmartinez48305 109K Feb 22 2022 homework.docx
-rw-rw-r-- 1 ajmartinez48305 ajmartinez48305 44K Jan 31 2020 tux-penguin.gif
ajmartinez48305@cis106:~/practicels$ ls -lhgds
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 11K Feb 27 2022 book.txt
ajmartinez48305@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
ajmartinez48305@cis106:~/practicels$ ls -lX
people.csv
homework.docx
tux-penguin.gif
song.mp3
movie.mp4
history-debian.pdf
tux-nobg.png
book.txt
countries.xml
ajmartinez48305@cis106:~/practicels$

```

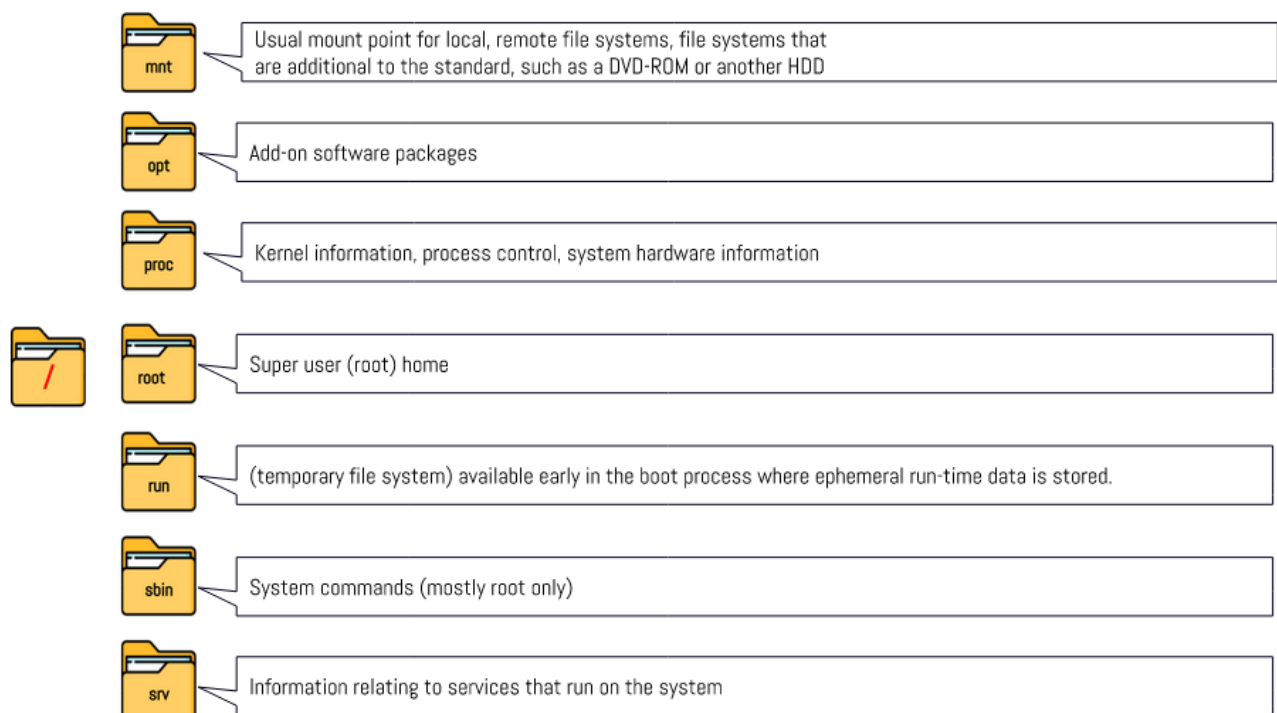
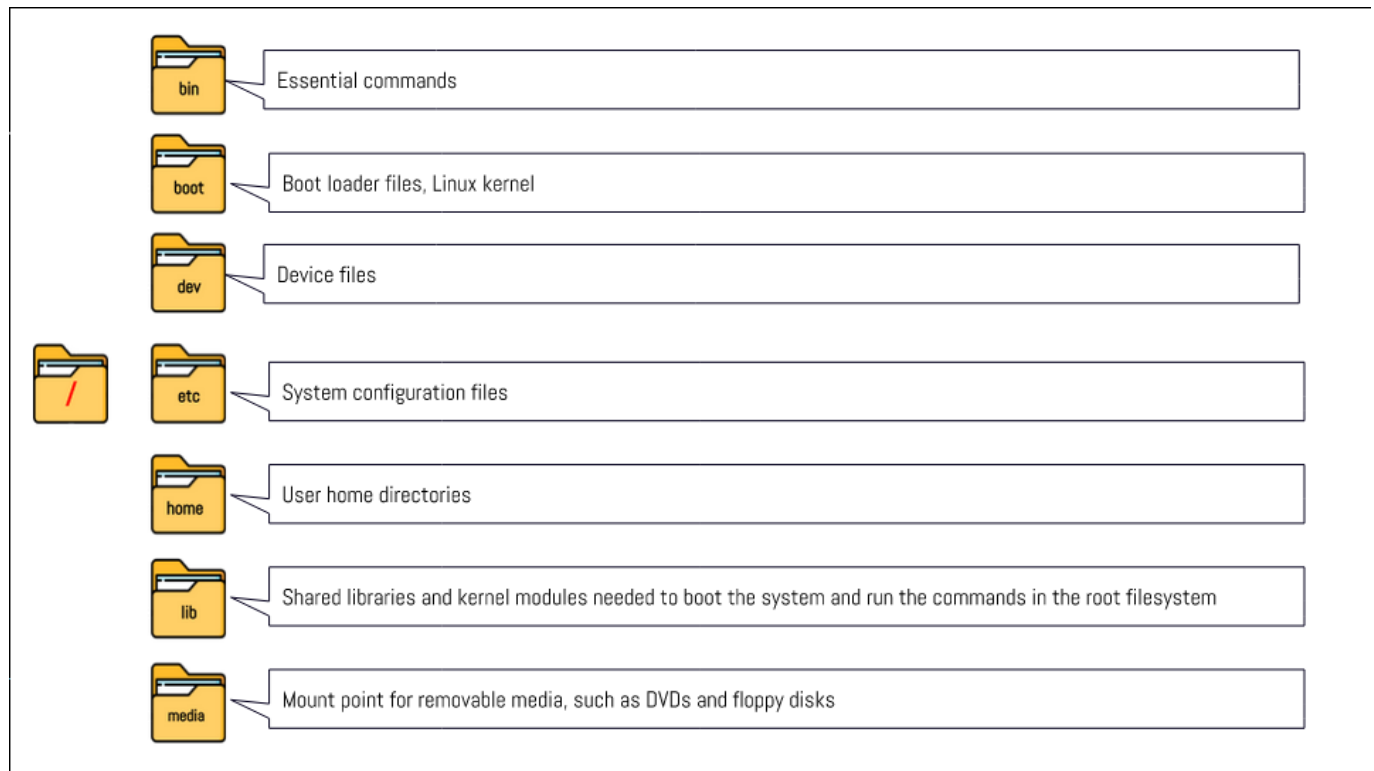
Practice 3

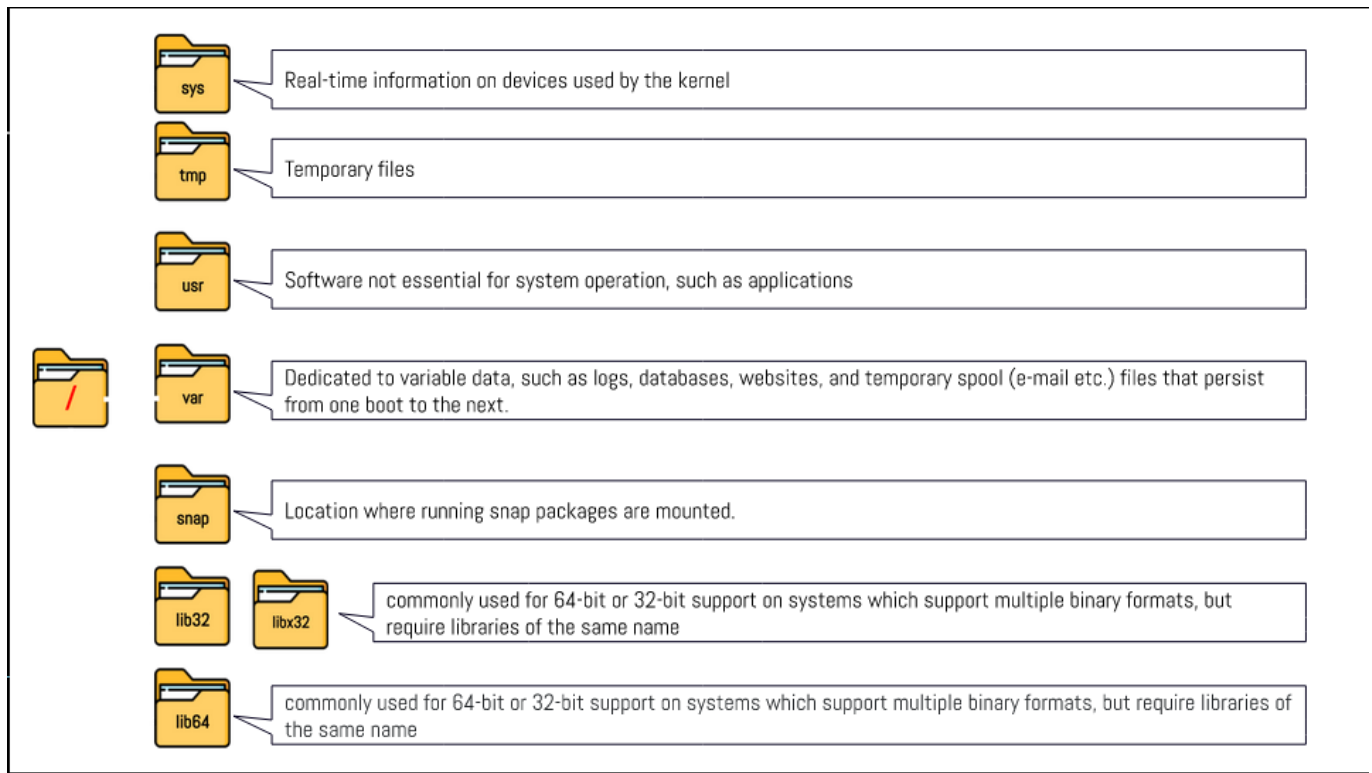
```

ajmartinez48305@cis106: ~
ajmartinez48305@cis106:~/practicels$ pwd
/home/ajmartinez48305/practicels
ajmartinez48305@cis106:~/practicels$ cd
ajmartinez48305@cis106:~$ cd /
ajmartinez48305@cis106:/$ cd /usr/share/themes
ajmartinez48305@cis106:~/usr/share/themes$ cd ../../
ajmartinez48305@cis106:/$ ls -la
total 16
drwxr-xr-x 2 ajmartinez48305 ajmartinez48305 4.0K Feb 14 15:40 ajmartinez48305
drwxr-xr-x 6 ajmartinez48305 ajmartinez48305 4.0K Feb 27 10:55 cis106
drwxr-xr-x 2 ajmartinez48305 ajmartinez48305 4.0K Mar 4 12:44 Desktop
drwxr-xr-x 2 ajmartinez48305 ajmartinez48305 4.0K Mar 8 15:55 Documents
drwxr-xr-x 2 ajmartinez48305 ajmartinez48305 4.0K Mar 8 11:28 Downloads
-rw-rw-r-- 1 ajmartinez48305 ajmartinez48305 91 Feb 15 12:09 gitcommands.txt
drwxr-xr-x 2 ajmartinez48305 ajmartinez48305 4.0K Feb 14 13:04 Music
drwxr-xr-x 2 ajmartinez48305 ajmartinez48305 4.0K Mar 8 11:35 Pictures
drwxr-xr-x 2 ajmartinez48305 ajmartinez48305 4.0K Feb 27 2022 practicels
-rw-rw-r-- 1 ajmartinez48305 ajmartinez48305 2.2M Feb 21 21:10 practicels.tar.xz
drwxr-xr-x 2 ajmartinez48305 ajmartinez48305 4.0K Feb 14 13:04 Public
drwx----- 5 ajmartinez48305 ajmartinez48305 4.0K Feb 14 13:56 snap
drwxr-xr-x 2 ajmartinez48305 ajmartinez48305 4.0K Feb 14 13:04 Templates
drwxr-xr-x 2 ajmartinez48305 ajmartinez48305 4.0K Feb 14 13:04 Videos
ajmartinez48305@cis106:/$ ls -lGc -full-time -
ls: invalid option -- '-'
Try 'ls --help' for more information.

```

The Linux File system directories and their purpose





All the commands for navigating the filesystem

Command	What it does	Syntax	Example
pwd	prints current directory	pwd	'pwd'
cd	changes the current working directory	cd + destination	'cd Downloads'
ls	lists the content of a given directory	ls + option + directory to list	'ls'

Basic Terminology

File system: The way files are stored and organized.

Current directory: present working directory

parent directory: previous directory

the difference between your home directory and the home directory: *Your* home directory is the default directory when a user logs in. *The* home directory can be changed.

pathname: Indicates the location of the file in the filesystem.

relative path: The location of a file starting from the current working directory or a directory that is located inside the current working directory.

absolute path: The location of a file starting at the root of the file system.