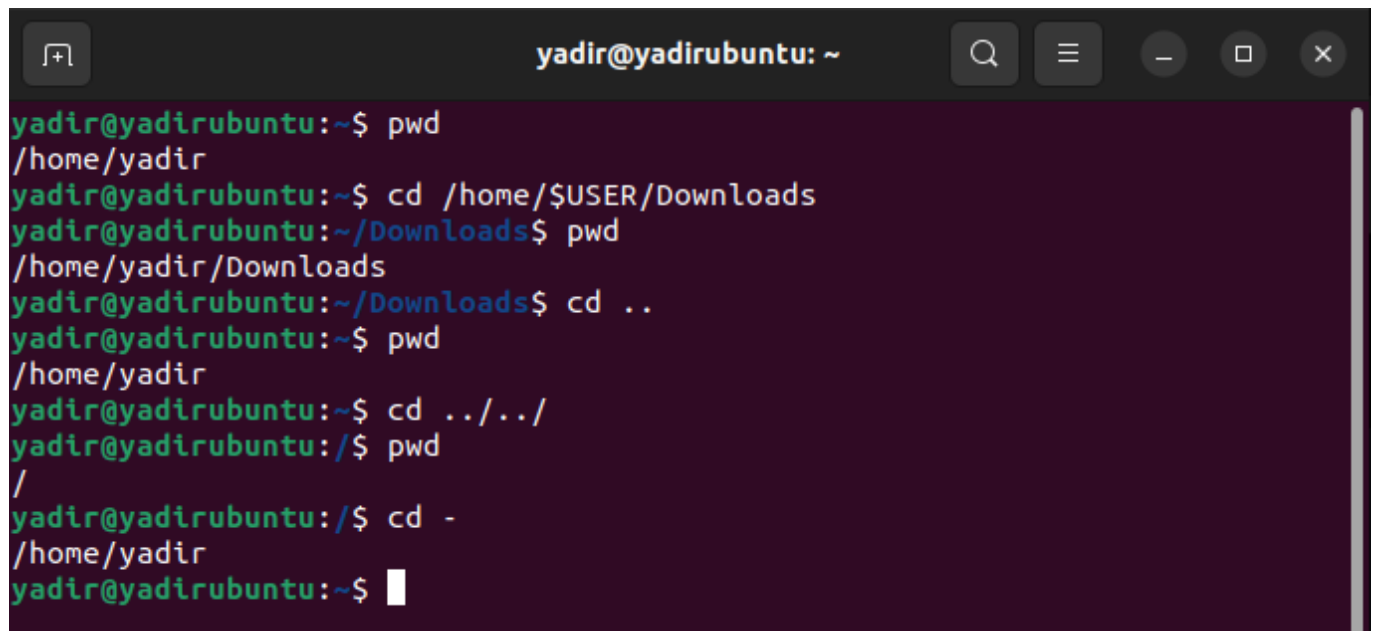just reminding you about the situation i am in professor thank you

Name: Yadir Ibarguen Course: cis106 Semester: fall 23

week report 4

Complete all the Practice in the presentation "The Linux File System"

practice 1

practice 2

```
yadir@yadirubuntu:~$ wget https://cis106.com/assets/practicels.tar.xz
--2023-11-02 18:40:12--  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'

practicels.tar.xz  100%[==============>]   2.12M  --.-KB/s    in 0.1s

2023-11-02 18:40:12 (14.9 MB/s) - 'practicels.tar.xz' saved [2229212/2229212]

yadir@yadirubuntu:~$ tar Jxf practicels.tar.xz
yadir@yadirubuntu:~$ cd practicels/
yadir@yadirubuntu:~/practicels$ ls -a
.            countries.xml        movie.mp4    tux-nobg.png
..           history-debian.pdf   people.csv   tux-penguin.gif
book.txt     homework.docx        song.mp3
yadir@yadirubuntu:~/practicels$ ls -l
total 2932
-rw-rw-r-- 1 yadir yadir    1043 Feb 27  2022 book.txt
-rw-rw-r-- 1 yadir yadir   23972 Feb 27  2022 countries.xml
-rw-rw-r-- 1 yadir yadir  163057 Feb 27  2022 history-debian.pdf
-rw-rw-r-- 1 yadir yadir  111303 Feb 22  2022 homework.docx
-rw-rw-r-- 1 yadir yadir 1570024 Feb 27  2022 movie.mp4
-rw-rw-r-- 1 yadir yadir  284042 Feb 27  2022 people.csv
-rw-rw-r-- 1 yadir yadir  764176 Feb 27  2022 song.mp3
-rw-rw-r-- 1 yadir yadir   21314 Feb 27  2022 tux-nobg.png
-rw-rw-r-- 1 yadir yadir   44299 Jan 31  2020 tux-penguin.gif
```

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

```
yadir@yadirubuntu:~/practicels$ ls -mr
tux-penguin.gif, tux-nobg.png, song.mp3, people.csv, movie.mp4,
homework.docx, history-debian.pdf, countries.xml, book.txt
yadir@yadirubuntu:~/practicels$ ls -1X
people.csv
homework.docx
tux-penguin.gif
song.mp3
movie.mp4
history-debian.pdf
tux-nobg.png
book.txt
countries.xml
yadir@yadirubuntu:~/practicels$ ▯
```

practice 3

```
yadir@yadirubuntu:~$ pwd
/home/yadir
yadir@yadirubuntu:~$ cd
yadir@yadirubuntu:~$ cd /
yadir@yadirubuntu:/$ cd usr/share/themes
yadir@yadirubuntu:/usr/share/themes$ cd ../../
yadir@yadirubuntu:/usr$ ls -A ~
 .balsa                            mail
 .bash_history                     Music
 .bash_logout                      oreo.png
 .bashrc                           Pictures
 .cache                            pizza.txt
 cis106                            .pki
 .cis106.png                       pp_pizza.txt
 .config                           practicels
 Desktop                           practicels.tar.xz
 Documents                         .profile
 .dotnet                           Public
 Downloads                         snap
 .fonts                            .ssh
 .gitconfig                        .sudo_as_admin_successful
'github commands cheat sheat'      Templates
 .gnupg                            Videos
 .lesshst                          .vscode
'libre office impress lab3.odp'   'wikipedia pdf.pdf'
 .local                            .zoom
'.~lock.libre office impress lab3.odp#'
yadir@yadirubuntu:/usr$ cd; ls -tX cis106/
cheatsheets   labs   weekReports
```

```
yadir@yadirubuntu:~$ ls -rR ~/cis106/
/home/yadir/cis106/:
weekReports   labs   cheatsheets

/home/yadir/cis106/weekReports:
wr4-p2.3.png   wr4-p2.1.png   wr4.md    wr3.md      fs1.2.png
wr4-p2.2.png   wr4-p1.png     wr3.pdf   fs1.3.png   fs1.1.png

/home/yadir/cis106/labs:
'lab 3'  'lab 2'    lab1

'/home/yadir/cis106/labs/lab 3':
question1.2terminal.png   q2.1.png   q1.1.png   lab3.pdf   lab3.md

'/home/yadir/cis106/labs/lab 2':
 picture1.png  'picture 1'  'lab 2.pdf'  'lab 2.md'

/home/yadir/cis106/labs/lab1:
whatisubuntu.txt                  Untitled-1.pdf       resume.png
what_is_ubuntu_submission.pdf     Untitled-1.md        johndoe.jpeg
what_is_ubuntu_submission.md      Untitled-1.html      johndoeinfo.txt
what_is_ubuntu_submission.html    ubuntu-logo.png
what-is-ubuntu.pdf                ubuntu-desktop.png

/home/yadir/cis106/cheatsheets:
'Linux Workshop Ubuntu Software installation cheat sheet.png'
```
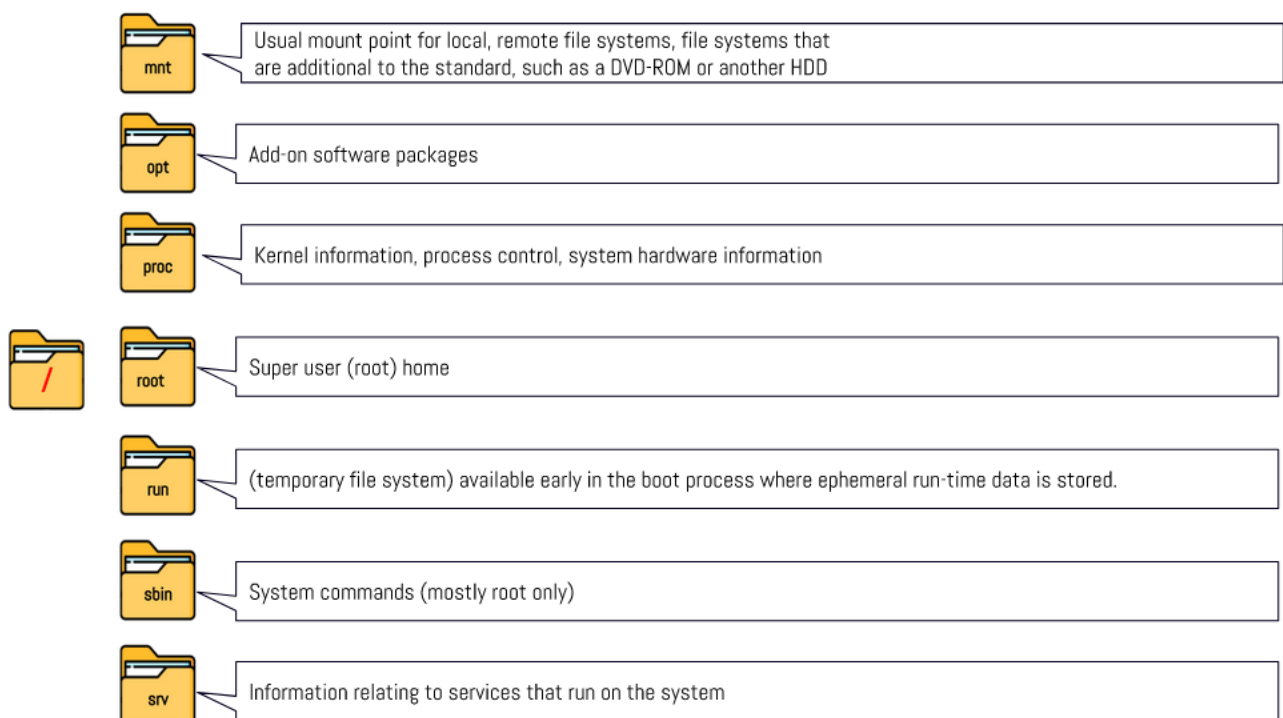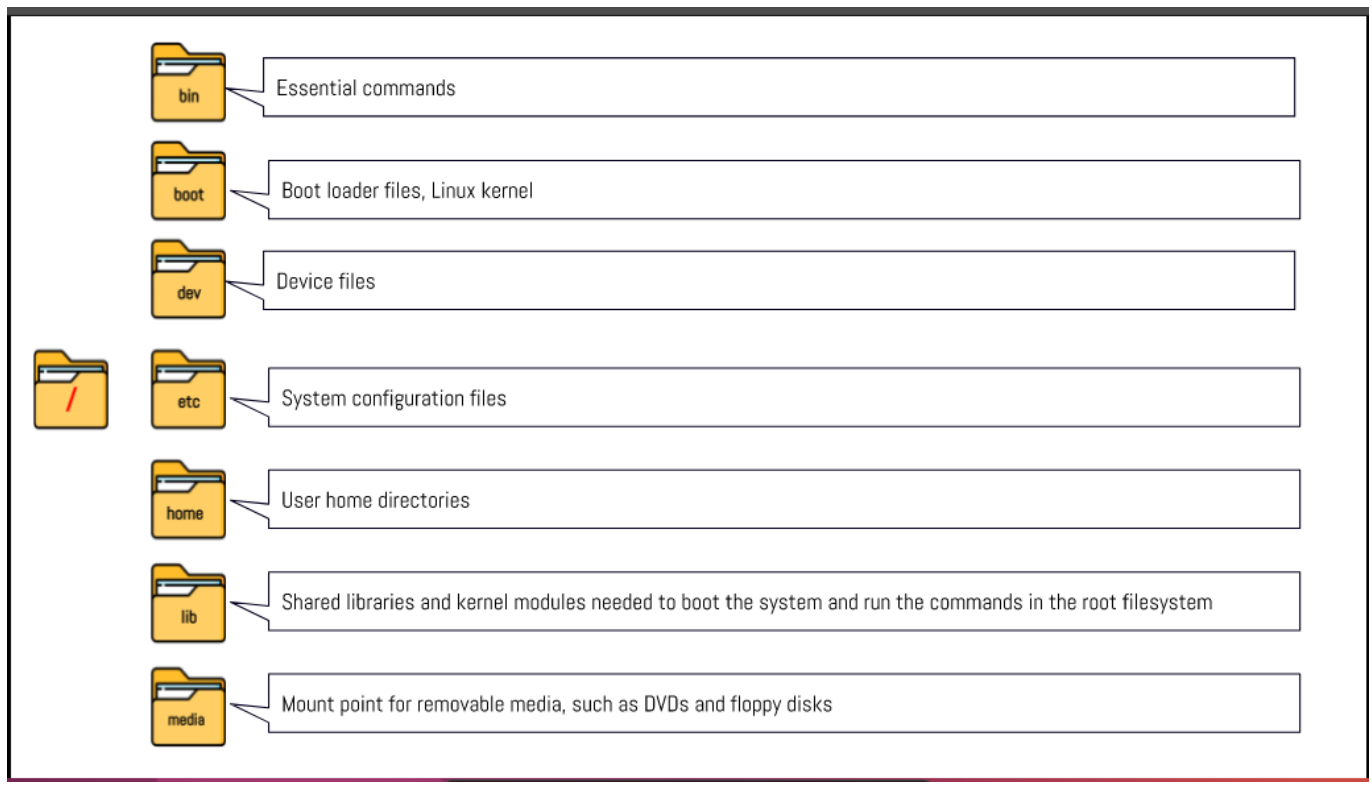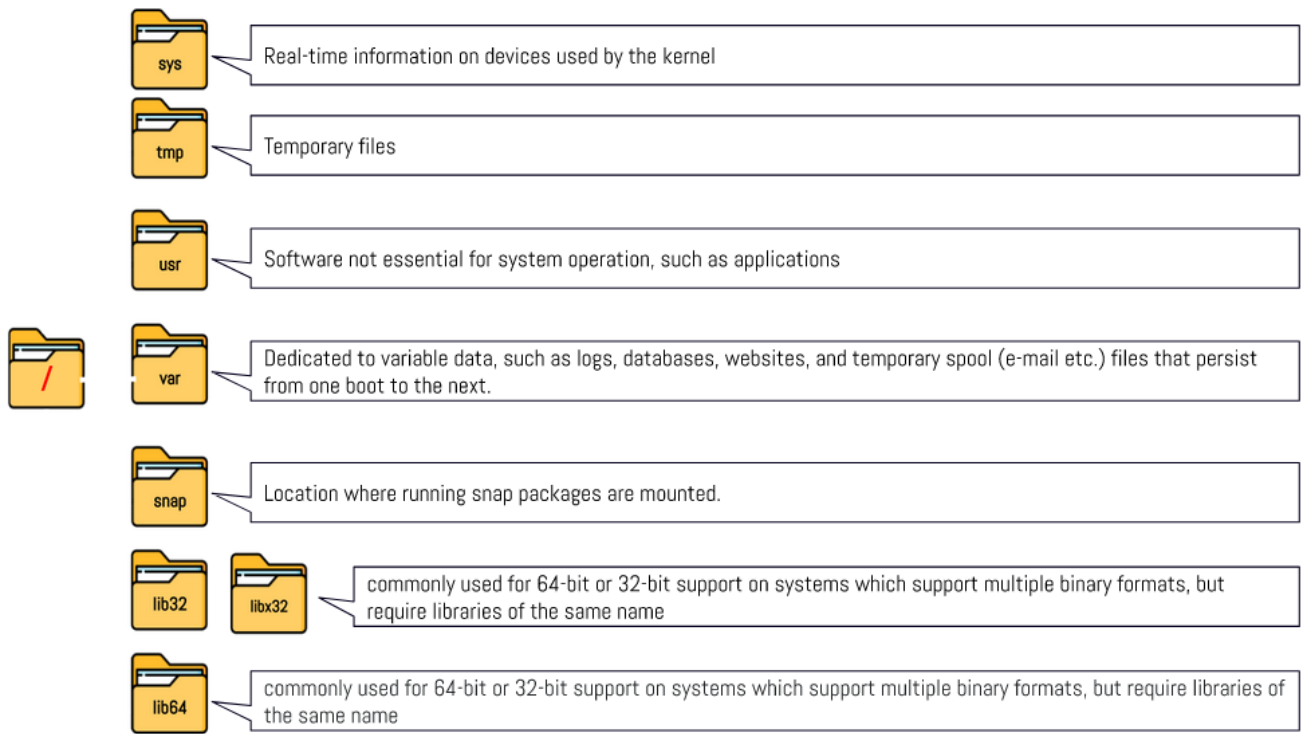
```
yadir@yadirubuntu:~$ ls -lh ~
total 2.3M
drwxrwxr-x 6 yadir yadir 4.0K Oct 29 09:30  cis106
drwxr-xr-x 2 yadir yadir 4.0K Nov  2 18:38  Desktop
drwxr-xr-x 2 yadir yadir 4.0K Oct 29 09:30  Documents
drwxr-xr-x 4 yadir yadir 4.0K Nov  2 18:38  Downloads
-rw-rw-r-- 1 yadir yadir   86 Oct  7 18:36 'github commands cheat sheat'
-rw-rw-r-- 1 yadir yadir  13K Oct 29 14:17 'libre office impress lab3.odp'
drwx------ 2 yadir yadir 4.0K Oct 30 21:32  mail
drwxr-xr-x 2 yadir yadir 4.0K Oct 25 18:05  Music
-rw-rw-r-- 2 yadir yadir    0 Oct 25 18:27  oreo.png
drwxr-xr-x 3 yadir yadir 4.0K Oct 29 14:50  Pictures
-rw-rw-r-- 1 yadir yadir    0 Oct 25 18:08  pizza.txt
-rw-rw-r-- 1 yadir yadir    0 Oct 25 18:08  pp_pizza.txt
drwxrwxr-x 2 yadir yadir 4.0K Feb 27  2022  practicels
-rw-rw-r-- 1 yadir yadir 2.2M Oct 31 10:42  practicels.tar.xz
drwxr-xr-x 2 yadir yadir 4.0K Oct  4 17:49  Public
drwx------ 5 yadir yadir 4.0K Oct  6 11:54  snap
drwxr-xr-x 2 yadir yadir 4.0K Oct  4 17:49  Templates
drwxr-xr-x 2 yadir yadir 4.0K Oct 25 17:56  Videos
-rw-rw-r-- 1 yadir yadir  33K Oct 29 14:11 'wikipedia pdf.pdf'
```

```
yadir@yadirubuntu:~$ ls -lgG --full-time ~
total 2284
drwxrwxr-x 6    4096 2023-10-29 09:30:23.361745474 -0400  cis106
drwxr-xr-x 2    4096 2023-11-02 18:38:24.890852795 -0400  Desktop
drwxr-xr-x 2    4096 2023-10-29 09:30:12.613903935 -0400  Documents
drwxr-xr-x 4    4096 2023-11-02 18:38:24.890852795 -0400  Downloads
-rw-rw-r-- 1      86 2023-10-07 18:36:30.493858552 -0400 'github commands cheat sheat'
-rw-rw-r-- 1   13186 2023-10-29 14:17:32.426857621 -0400 'libre office impress lab3.odp'
drwx------ 2    4096 2023-10-30 21:32:08.580237547 -0400  mail
drwxr-xr-x 2    4096 2023-10-25 18:05:20.736752852 -0400  Music
-rw-rw-r-- 2       0 2023-10-25 18:27:21.903929645 -0400  oreo.png
drwxr-xr-x 3    4096 2023-10-29 14:50:46.947390392 -0400  Pictures
-rw-rw-r-- 1       0 2023-10-25 18:08:02.994083789 -0400  pizza.txt
-rw-rw-r-- 1       0 2023-10-25 18:08:58.778690999 -0400  pp_pizza.txt
drwxrwxr-x 2    4096 2022-02-27 13:46:18.000000000 -0500  practicels
-rw-rw-r-- 1 2229212 2023-10-31 10:42:09.000000000 -0400  practicels.tar.xz
drwxr-xr-x 2    4096 2023-10-04 17:49:01.068429134 -0400  Public
drwx------ 5    4096 2023-10-06 11:54:28.908960315 -0400  snap
drwxr-xr-x 2    4096 2023-10-04 17:49:01.068429134 -0400  Templates
drwxr-xr-x 2    4096 2023-10-25 17:56:40.284237145 -0400  Videos
-rw-rw-r-- 1   33233 2023-10-29 14:11:09.327242277 -0400 'wikipedia pdf.pdf'
```

The Linux File system directories and their purpose:

Folder	Description
bin	Essential commands
boot	Boot loader files, Linux kernel
dev	Device files
etc	System configuration files
home	User home directories
lib	Shared libraries and kernel modules needed to boot the system and run the commands in the root filesystem
media	Mount point for removable media, such as DVDs and floppy disks

Folder	Description
mnt	Usual mount point for local, remote file systems, file systems that are additional to the standard, such as a DVD-ROM or another HDD
opt	Add-on software packages
proc	Kernel information, process control, system hardware information
root	Super user (root) home
run	(temporary file system) available early in the boot process where ephemeral run-time data is stored.
sbin	System commands (mostly root only)
srv	Information relating to services that run on the system

	sys	Real-time information on devices used by the kernel
	tmp	Temporary files
	usr	Software not essential for system operation, such as applications
/	var	Dedicated to variable data, such as logs, databases, websites, and temporary spool (e-mail etc.) files that persist from one boot to the next.
	snap	Location where running snap packages are mounted.
	lib32 / libx32	commonly used for 64-bit or 32-bit support on systems which support multiple binary formats, but require libraries of the same name
	lib64	commonly used for 64-bit or 32-bit support on systems which support multiple binary formats, but require libraries of the same name

All the commands for navigating the filesystem:

Command	What it Does	Syntax	Example
pwd	displays current directory	pwd	`pwd`
cd	changes current directory	cd + destination	`cd Documents`
ls	lists the content of current directory	ls + option + directory to list	`ls -a`

Basic Terminology

- **File system** the way files are stored and organized

- **Current directory** the directory you are in at the moment

- **parent directory** the primary or top-level folder in a chain of subfolders.

- **the difference between your home directory and the home directory** your home directory is the current directory you are working in either in the terminal emulator or in the file manager. the home directory is only accessible as the root user or also known as the administrator.

- **pathname** every file has a path name which indicates the location of the file in the file system

- **relative path** the location of a file starting from the current working directory or a directory that is located inside the current working directory. for example Downloads/song.mp3

- **absolute path** the location of a file starting at the root of the file system for example /home/john/Downloads/song.mp3