

# Week Report 4

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## Practice from the presentation The Linux File System:

### Practice 1



```
cltorres-quinteros@cis106vm: ~  
cltorres-quinteros@cis106vm:~$ pwd  
/home/cltorres-quinteros  
cltorres-quinteros@cis106vm:~$ cd /home/cltorres-quinteros/Downloads  
cltorres-quinteros@cis106vm:~/Downloads$ pwd  
/home/cltorres-quinteros/Downloads  
cltorres-quinteros@cis106vm:~/Downloads$ cd ..  
cltorres-quinteros@cis106vm:~$ pwd  
/home/cltorres-quinteros  
cltorres-quinteros@cis106vm:~$ cd ../../  
cltorres-quinteros@cis106vm:/$ pwd  
/  
cltorres-quinteros@cis106vm:/$ cd -  
/home/cltorres-quinteros  
cltorres-quinteros@cis106vm:~$
```

### Practice 2

```

Applications  Places

[+]

cltorres-quinteros@cis106vm:~$ wget https://cis106.com/assets/practicels.tar.xz
--2023-10-27 18:26:07-- 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 0.07s

2023-10-27 18:26:07 (31.7 MB/s) - 'practicels.tar.xz' saved [2229212/2229212]

cltorres-quinteros@cis106vm:~$ tar Jxf practicels.tar.xz
cltorres-quinteros@cis106vm:~$ cd practicels/
cltorres-quinteros@cis106vm:~/practicels$ ls
book.txt      history-debian.pdf  movie.mp4  song.mp3      tux-penguin.gif
countries.xml  homework.docx       people.csv  tux-nobg.png
cltorres-quinteros@cis106vm:~/practicels$ ls -a
.             countries.xml       movie.mp4      tux-nobg.png
..            history-debian.pdf  people.csv     tux-penguin.gif
book.txt      homework.docx       song.mp3
cltorres-quinteros@cis106vm:~/practicels$ ls -l
total 2932
-rw-rw-r-- 1 cltorres-quinteros cltorres-quinteros 1043 Feb 27 2022 book.txt
-rw-rw-r-- 1 cltorres-quinteros cltorres-quinteros 23972 Feb 27 2022 countries.xml
-rw-rw-r-- 1 cltorres-quinteros cltorres-quinteros 163057 Feb 27 2022 history-debian.p
-rw-rw-r-- 1 cltorres-quinteros cltorres-quinteros 111303 Feb 22 2022 homework.docx
-rw-rw-r-- 1 cltorres-quinteros cltorres-quinteros 1570024 Feb 27 2022 movie.mp4
-rw-rw-r-- 1 cltorres-quinteros cltorres-quinteros 284042 Feb 27 2022 people.csv
-rw-rw-r-- 1 cltorres-quinteros cltorres-quinteros 764176 Feb 27 2022 song.mp3
-rw-rw-r-- 1 cltorres-quinteros cltorres-quinteros 21314 Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 cltorres-quinteros cltorres-quinteros 44299 Jan 31 2020 tux-penguin.gif
cltorres-quinteros@cis106vm:~/practicels$ ls -lh
total 2.9M
-rw-rw-r-- 1 cltorres-quinteros cltorres-quinteros 1.1K Feb 27 2022 book.txt
-rw-rw-r-- 1 cltorres-quinteros cltorres-quinteros 24K Feb 27 2022 countries.xml
-rw-rw-r-- 1 cltorres-quinteros cltorres-quinteros 160K Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 cltorres-quinteros cltorres-quinteros 109K Feb 22 2022 homework.docx
-rw-rw-r-- 1 cltorres-quinteros cltorres-quinteros 1.5M Feb 27 2022 movie.mp4
-rw-rw-r-- 1 cltorres-quinteros cltorres-quinteros 278K Feb 27 2022 people.csv
-rw-rw-r-- 1 cltorres-quinteros cltorres-quinteros 747K Feb 27 2022 song.mp3
-rw-rw-r-- 1 cltorres-quinteros cltorres-quinteros 21K Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 cltorres-quinteros cltorres-quinteros 44K Jan 31 2020 tux-penguin.gif
cltorres-quinteros@cis106vm:~/practicels$ ls -lht
total 2.9M
-rw-rw-r-- 1 cltorres-quinteros cltorres-quinteros 24K Feb 27 2022 countries.xml
-rw-rw-r-- 1 cltorres-quinteros cltorres-quinteros 278K Feb 27 2022 people.csv
-rw-rw-r-- 1 cltorres-quinteros cltorres-quinteros 747K Feb 27 2022 song.mp3
-rw-rw-r-- 1 cltorres-quinteros cltorres-quinteros 1.5M Feb 27 2022 movie.mp4
-rw-rw-r-- 1 cltorres-quinteros cltorres-quinteros 160K Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 cltorres-quinteros cltorres-quinteros 21K Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 cltorres-quinteros cltorres-quinteros 1.1K Feb 27 2022 book.txt
-rw-rw-r-- 1 cltorres-quinteros cltorres-quinteros 109K Feb 22 2022 homework.docx
-rw-rw-r-- 1 cltorres-quinteros cltorres-quinteros 44K Jan 31 2020 tux-penguin.gif
cltorres-quinteros@cis106vm:~/practicels$ ls -lhgS
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 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
cltorres-quinteros@cis106vm:~/practicels$ ls -mr
tux-penguin.gif, tux-nobg.png, song.mp3, people.csv, movie.mp4, homework.docx,
history-debian.pdf, countries.xml, book.txt
cltorres-quinteros@cis106vm:~/practicels$ ls -1X
people.csv
homework.docx
tux-penguin.gif
song.mp3
movie.mp4
history-debian.pdf
tux-nobg.png
book.txt
countries.xml
cltorres-quinteros@cis106vm:~/practicels$
```

### Practice 3

```

cltorres-quinteros@cis106vm:~$ pwd
/home/cltorres-quinteros
cltorres-quinteros@cis106vm:~$ cd
cltorres-quinteros@cis106vm:~$ cd /
cltorres-quinteros@cis106vm:/$ cd usr/share/themes
cltorres-quinteros@cis106vm:/usr/share/themes$ cd ../../
cltorres-quinteros@cis106vm:/usr$ ls -A ~
.bash_history      Pictures
.bash_logout       .pki
.bashrc            plants
blue.txt           'plant"s EC'
.cache             "plant's PR"
cis106             practicels
.cis106.png        practicels.tar.xz
.config            .profile
Desktop            Public
.dillo             snap
directory          .ssh
Documents          .sudo_as_admin_successful
.dotnet            sunflower.mp3
Downloads          Templates
file1              .vboxclient-clipboard-tty2-control.pid
file2              .vboxclient-clipboard-tty2-service.pid
file3              .vboxclient-draganddrop-tty2-control.pid
.fltk              .vboxclient-draganddrop-tty2-service.pid
.fonts             .vboxclient-hostversion-tty2-control.pid
gitcommands.txt    .vboxclient-seamless-tty2-control.pid
.gitconfig         .vboxclient-seamless-tty2-service.pid
.gnupg            .vboxclient-vmsvga-session-tty2-control.pid
jeoPizza           .vboxclient-vmsvga-session-tty2-service.pid
.lessht           Videos
.local            .vscode
Music              website
myproject

cltorres-quinteros@cis106vm:/usr$ cd; ls -tX cis106/
cheatsheets labs weekreports
cheatsheets labs weekreports
cltorres-quinteros@cis106vm:~$ ls -rR ~/cis106/
/home/cltorres-quinteros/cis106/:
weekreports labs cheatsheets

/home/cltorres-quinteros/cis106/weekreports:
wr4-p2.2.png  wr4-p1.png  wr3.pdf  'Week report2.png'  fs1.2.png
wr4-p2.1.png  wr4.md      wr3.md   fs1.3.png           fs1.1.png

/home/cltorres-quinteros/cis106/labs:
lab3 lab2 lab1

/home/cltorres-quinteros/cis106/labs/lab3:
q2.1.png LibreofficeWriterRandomTxt.pdf lab3.pdf
q1.1.png LibreOfficePresentation.pdf  lab3.md

/home/cltorres-quinteros/cis106/labs/lab2:
Question4.png Question2.png Question1.Pt1.png lab2.md
Question3.png Question1.Pt2.png lab2.pdf

/home/cltorres-quinteros/cis106/labs/lab1:
whatisubuntu.txt ubuntu-logo.png resume.png
what_is_ubuntu_submission.pdf ubuntu-desktop.png johndoe.jpeg
what_is_ubuntu_submission.md resume_submission.pdf johndoeinfo.txt
what_is_ubuntu_submission.html resume_submission.md 'johndoe (copy).jpeg'
what-is-ubuntu.pdf resume_submission.html

```

/home/cltorres-quinteros/cis106/cheatsheets:  
 'Linux Workshop Ubuntu Software installation cheat sheet.png'

```

cltorres-quinteros@cis106vm:~$ ls -lh ~
total 2.3M
-rw-rw-r-- 1 cltorres-quinteros cltorres-quinteros 0 Oct 26 18:09 blue.txt
drwxrwxr-x 6 cltorres-quinteros cltorres-quinteros 4.0K Oct 12 11:27 cis106
drwxr-xr-x 2 cltorres-quinteros cltorres-quinteros 4.0K Oct 11 20:19 Desktop
drwxrwxr-x 2 cltorres-quinteros cltorres-quinteros 4.0K Oct 19 18:27 directory
drwxr-xr-x 2 cltorres-quinteros cltorres-quinteros 4.0K Oct 26 18:50 Documents
drwxr-xr-x 4 cltorres-quinteros cltorres-quinteros 4.0K Oct 26 18:27 Downloads
-rw-rw-r-- 1 cltorres-quinteros cltorres-quinteros 0 Oct 26 18:21 file1
-rw-rw-r-- 1 cltorres-quinteros cltorres-quinteros 0 Oct 26 18:22 file2
-rw-rw-r-- 1 cltorres-quinteros cltorres-quinteros 0 Oct 26 18:22 file3
-rw-rw-r-- 1 cltorres-quinteros cltorres-quinteros 91 Sep 29 20:05 gitcommands.txt
drwxrwxr-x 3 cltorres-quinteros cltorres-quinteros 4.0K Oct 19 18:31 jeoPizza
drwxrwxr-x 2 cltorres-quinteros cltorres-quinteros 4.0K Oct 19 18:50 Music
drwxrwxr-x 2 cltorres-quinteros cltorres-quinteros 4.0K Oct 19 18:50 myproject
drwxr-xr-x 2 cltorres-quinteros cltorres-quinteros 4.0K Oct 26 19:06 Pictures
drwxrwxr-x 2 cltorres-quinteros cltorres-quinteros 4.0K Oct 19 17:56 plants
drwxrwxr-x 2 cltorres-quinteros cltorres-quinteros 4.0K Oct 19 18:01 'plant"s EC'
drwxrwxr-x 2 cltorres-quinteros cltorres-quinteros 4.0K Oct 19 18:02 "plant"s PR"
drwxrwxr-x 2 cltorres-quinteros cltorres-quinteros 4.0K Feb 27 2022 practicels
-rw-rw-r-- 1 cltorres-quinteros cltorres-quinteros 2.2M Oct 14 11:22 practicels.tar.xz
drwxr-xr-x 2 cltorres-quinteros cltorres-quinteros 4.0K Sep 29 18:16 Public
drwx----- 5 cltorres-quinteros cltorres-quinteros 4.0K Sep 29 18:55 snap
-rw-rw-r-- 1 cltorres-quinteros cltorres-quinteros 0 Oct 26 18:48 sunflower.mp3
drwxr-xr-x 2 cltorres-quinteros cltorres-quinteros 4.0K Sep 29 18:16 Templates
drwxr-xr-x 2 cltorres-quinteros cltorres-quinteros 4.0K Oct 19 18:47 Videos
drwxrwxr-x 2 cltorres-quinteros cltorres-quinteros 4.0K Oct 19 18:28 website

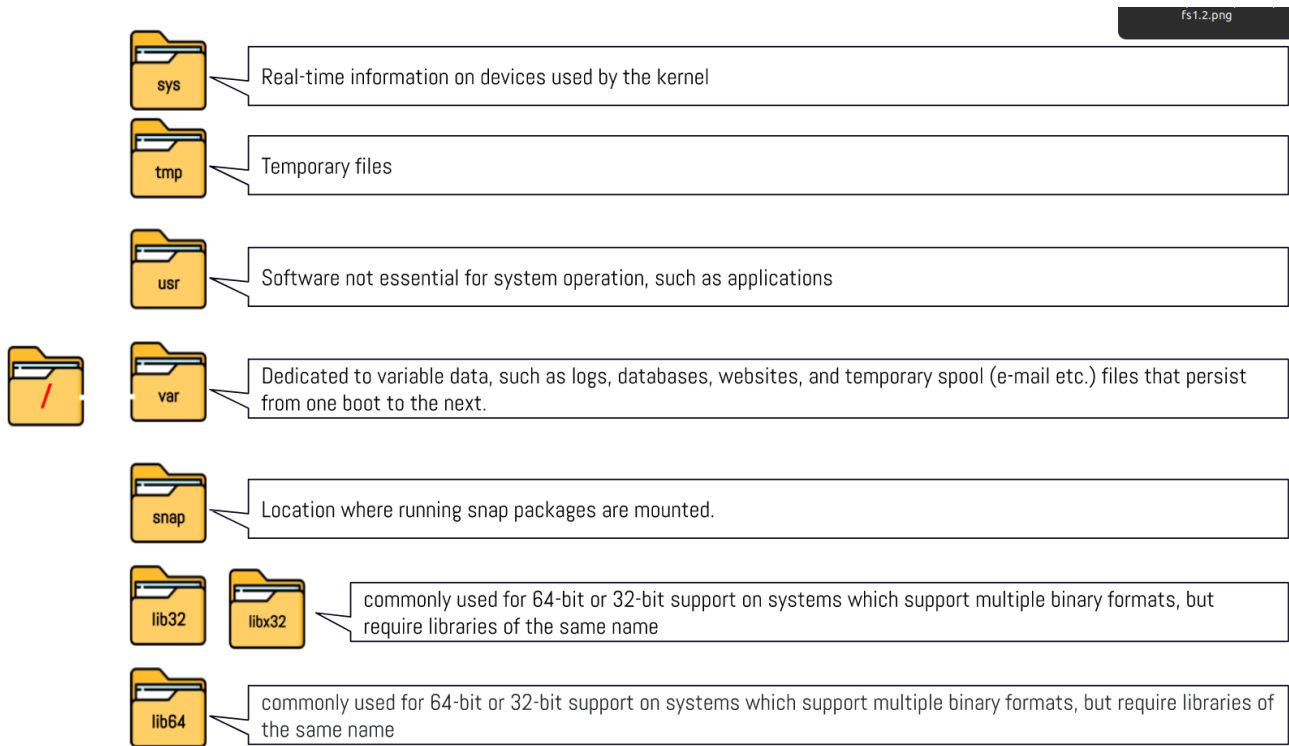
cltorres-quinteros@cis106vm:~$ ls -lg --full-time ~
total 2256
-rw-rw-r-- 1 0 2023-10-26 18:09:00.758289984 -0400 blue.txt
drwxrwxr-x 6 4096 2023-10-12 11:27:17.842655596 -0400 cis106
drwxr-xr-x 2 4096 2023-10-11 20:19:20.630027726 -0400 Desktop
drwxrwxr-x 2 4096 2023-10-19 18:27:06.337393617 -0400 directory
drwxr-xr-x 2 4096 2023-10-26 18:50:06.304984230 -0400 Documents
drwxr-xr-x 4 4096 2023-10-26 18:27:47.306774831 -0400 Downloads
-rw-rw-r-- 1 0 2023-10-26 18:21:45.731639721 -0400 file1
-rw-rw-r-- 1 0 2023-10-26 18:22:00.300352249 -0400 file2
-rw-rw-r-- 1 0 2023-10-26 18:22:17.543726874 -0400 file3
-rw-rw-r-- 1 91 2023-09-29 20:05:39.549178102 -0400 gitcommands.txt
drwxrwxr-x 3 4096 2023-10-19 18:31:37.932442147 -0400 jeoPizza
drwxr-xr-x 2 4096 2023-10-19 18:50:27.332860278 -0400 Music
drwxrwxr-x 2 4096 2023-10-19 18:50:27.332860278 -0400 myproject
drwxr-xr-x 2 4096 2023-10-26 19:06:53.575163130 -0400 Pictures
drwxrwxr-x 2 4096 2023-10-19 17:56:42.056734841 -0400 plants
drwxrwxr-x 2 4096 2023-10-19 18:01:15.649462866 -0400 'plant"s EC'
drwxrwxr-x 2 4096 2023-10-19 18:02:04.437844866 -0400 "plant"s PR"
drwxrwxr-x 2 4096 2022-02-27 13:46:18.000000000 -0500 practicels
-rw-rw-r-- 1 2229212 2023-10-14 11:22:44.000000000 -0400 practicels.tar.xz
drwxr-xr-x 2 4096 2023-09-29 18:16:03.707090823 -0400 Public
drwx----- 5 4096 2023-09-29 18:55:14.908912664 -0400 snap
-rw-rw-r-- 1 0 2023-10-26 18:48:37.517402160 -0400 sunflower.mp3
drwxr-xr-x 2 4096 2023-09-29 18:16:03.707090823 -0400 Templates
drwxr-xr-x 2 4096 2023-10-19 18:47:09.954220276 -0400 Videos
drwxrwxr-x 2 4096 2023-10-19 18:28:03.996549613 -0400 website
cltorres-quinteros@cis106vm:~$

```

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 current working directory	cd + destination	cd \$HOME
ls	lists content of given directory	ls + option + directory to list	'ls -a ~/Pictures'

## Basic Terminology

- **File system**- the way files are stored and organized.
- **Current directory**- the directory where you are currently at.
- **Parent directory**- a subdirectory or previous directory. Where you are working inside.
- **The difference between your home directory and the home directory**- your home directory is your current working directory. The home directory is the starting folder.
- **Pathname**- indicates the location of a 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.
- **Absolute path**- the location of a file starting at the root of a file system.