

Week report 4

Practice for the presentation The Linux File system:

Practice 1

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

relative

Practice 2

```

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

```

Practice 3

```

carlosjcatotavalladares@cis106vm:~$ pwd
/home/carlosjcatotavalladares
carlosjcatotavalladares@cis106vm:~$ cd
carlosjcatotavalladares@cis106vm:~$ cd /
carlosjcatotavalladares@cis106vm:/$ cd usr/share/themes
carlosjcatotavalladares@cis106vm:/usr/share/themes$ cd ../../
carlosjcatotavalladares@cis106vm:/usr$ ls -A ~
.bash_history  .gnupg                .vboxclient-clipboard-tty2-control.pid
.bash_logout   lab4files             .vboxclient-clipboard-tty2-service.pid
.bashrc        .lessht              .vboxclient-draganddrop-tty2-control.pid
bread          .local               .vboxclient-draganddrop-tty2-service.pid
.cache         Music                .vboxclient-hostversion-tty2-control.pid
cis106         oreo.jp              .vboxclient-seamless-tty2-control.pid
.cis106.png    Pictures            .vboxclient-seamless-tty2-service.pid
.config        .pki                .vboxclient-vmvga-session-tty2-control.pid
Desktop        .profile            .vboxclient-vmvga-session-tty2-service.pid
Documents      Public              Videos
.dotnet        snap                .vscode
Downloads      .ssh                website
.fonts         .sudo_as_admin_successful
.gitconfig     Templates

carlosjcatotavalladares@cis106vm:/usr$ cd
carlosjcatotavalladares@cis106vm:~$ ls -tX cis.106/
ls: cannot access 'cis.106/': No such file or directory
carlosjcatotavalladares@cis106vm:~$ ls -tX cis106/
Cheatsheets Labs weekReports
carlosjcatotavalladares@cis106vm:~$ ls -rR cis106/
cis106/:
weekReports Labs Cheatsheets

cis106/weekReports:
wr4.md wr4 wr3.pdf wr3.md

cis106/weekReports/wr4:
'practice 2.png' 'practice 2.2.png' practice1.png fs1.3.png fs1.2.png fs.1.1.png

cis106/Labs:
'Lab 4' 'Lab 3' 'Lab 2' Lab1

'cis106/Labs/lab 4':
lab4.pdf lab4.5.1.png lab4.4.4.png lab4.4.1.png lab4.2.1.png
lab4.md lab4.4.6.png lab4.4.3.png lab4.2.3.png lab4.1.png
lab4.5.2.png lab4.4.5.png lab4.4.2.png lab4.2.2.png lab4.1.2.png

'cis106/Labs/Lab 3':
'Using libre office writer.pdf' q2.1.png lab3.pdf backgruond.png
'Untitled 1.odp' q1.1.png lab3.md

'cis106/Labs/Lab 2':
'Screenshot 2023-09-24 162634.png' lab2new.pdf 4.png 2.png 1.1.png
'Screenshot 2023-09-24 162232.png' lab2new.md 3.png 1.2.png

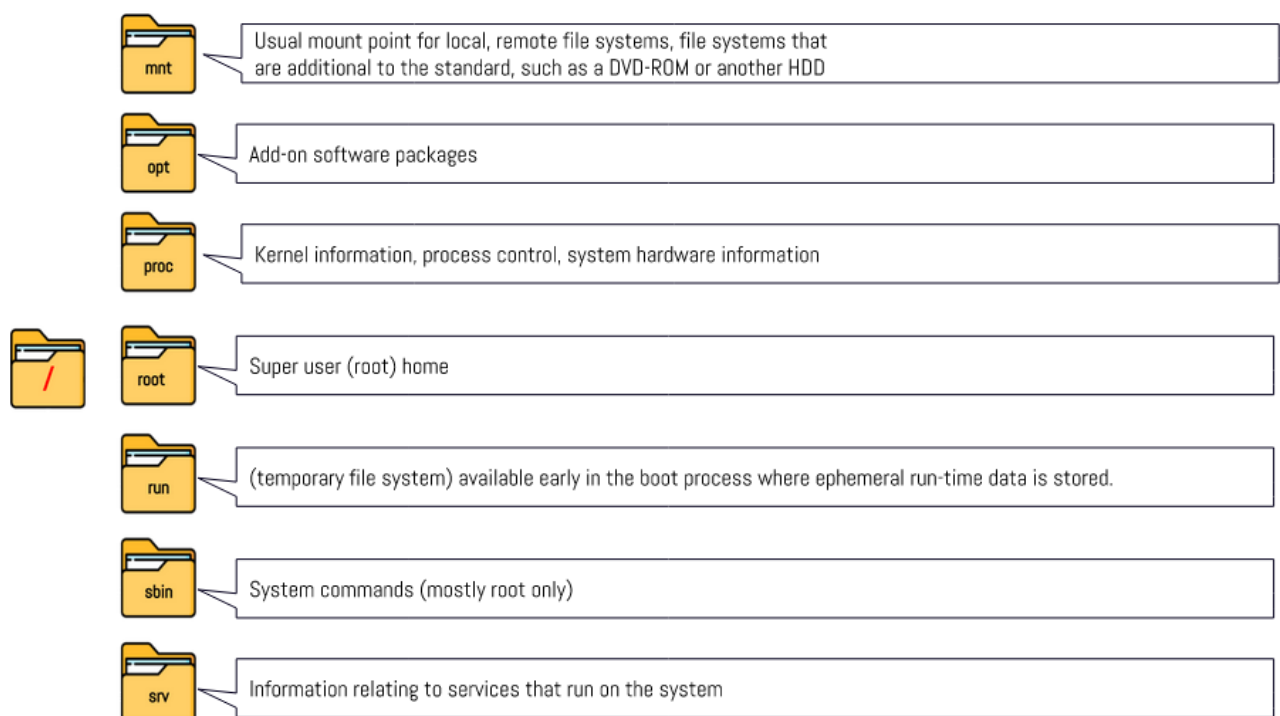
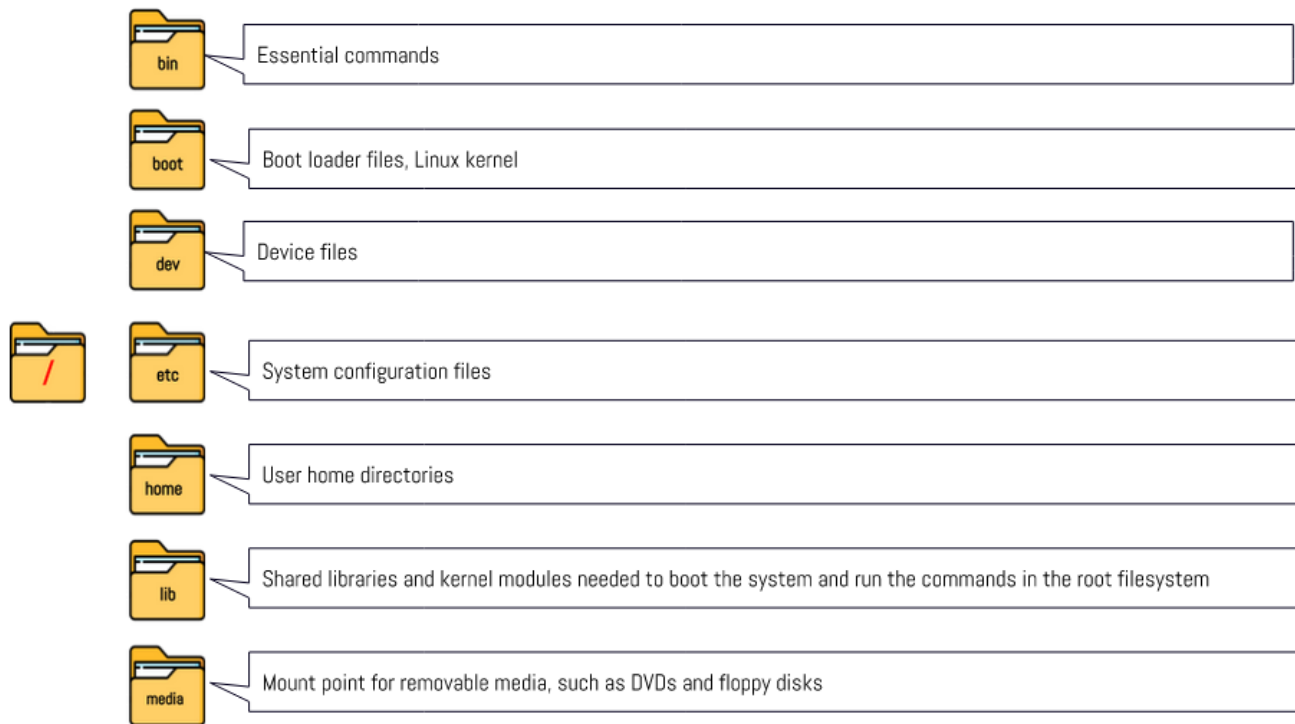
cis106/Labs/Lab1:
what_is_ubuntu_submission.pdf ubuntu-logo.png Resume.pdf johndoe.jpeg
what_is_ubuntu_submission.md ubuntu-desktop.png Resume.md

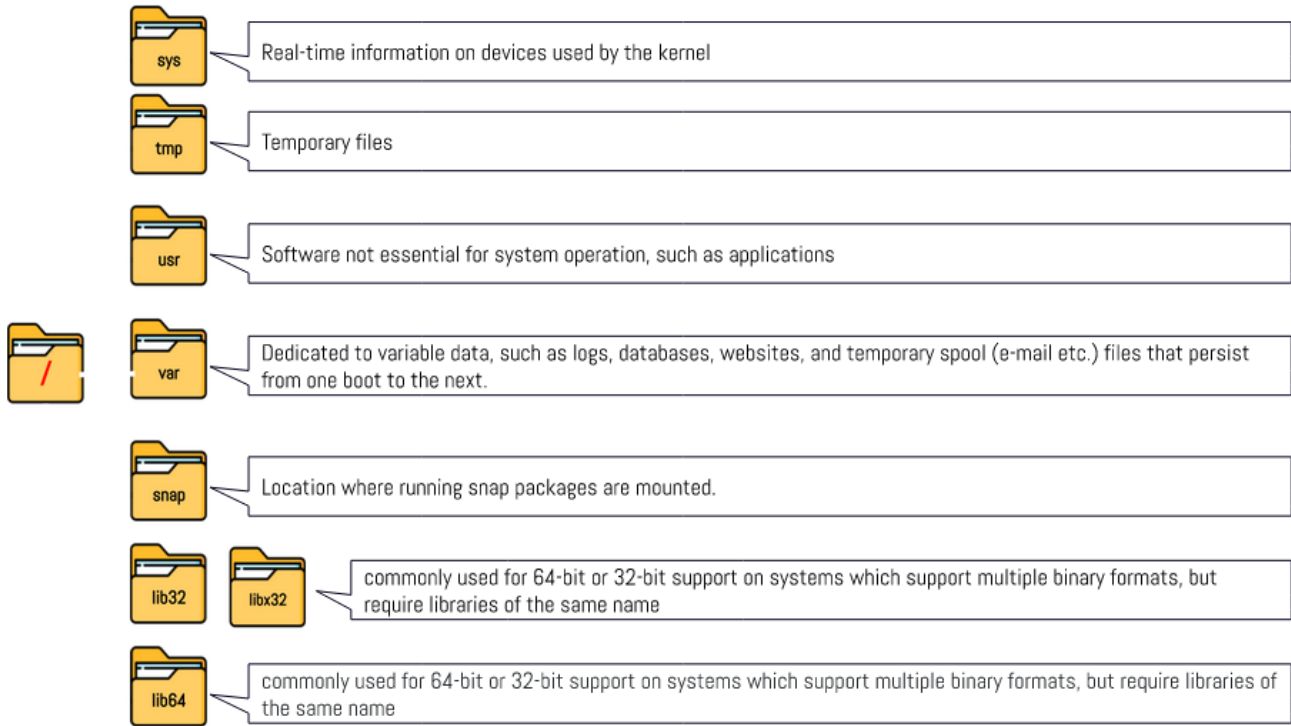
cis106/Cheatsheets:
'Linux Workshop Ubuntu Software installation cheat sheet.png'
carlosjcatotavalladares@cis106vm:~$ ls -lh ~
total 52K
drwxrwxr-x 2 carlosjcatotavalladares carlosjcatotavalladares 4.0K Oct 25 17:59 bread
drwxrwxr-x 6 carlosjcatotavalladares carlosjcatotavalladares 4.0K Oct 9 17:51 cis106
drwxr-xr-x 3 carlosjcatotavalladares carlosjcatotavalladares 4.0K Oct 24 11:12 Desktop
drwxr-xr-x 2 carlosjcatotavalladares carlosjcatotavalladares 4.0K Oct 25 17:58 Documents
drwxr-xr-x 2 carlosjcatotavalladares carlosjcatotavalladares 4.0K Oct 26 10:30 Downloads
drwxrwxr-x 2 carlosjcatotavalladares carlosjcatotavalladares 4.0K Feb 22 2022 lab4files
drwxr-xr-x 2 carlosjcatotavalladares carlosjcatotavalladares 4.0K Oct 25 18:19 Music
-rw-rw-r-- 2 carlosjcatotavalladares carlosjcatotavalladares 0 Oct 25 18:27 oreo.jp
drwxr-xr-x 3 carlosjcatotavalladares carlosjcatotavalladares 4.0K Oct 25 18:29 Pictures
drwxr-xr-x 2 carlosjcatotavalladares carlosjcatotavalladares 4.0K Sep 24 16:21 Public
drwx----- 6 carlosjcatotavalladares carlosjcatotavalladares 4.0K Oct 25 18:49 snap
drwxr-xr-x 2 carlosjcatotavalladares carlosjcatotavalladares 4.0K Sep 24 16:21 Templates
drwxr-xr-x 2 carlosjcatotavalladares carlosjcatotavalladares 4.0K Oct 25 17:58 Videos
drwxrwxr-x 4 carlosjcatotavalladares carlosjcatotavalladares 4.0K Oct 18 18:38 website

```

```
carlosjcatotavalladares@cis106vm:~$ ls -lgG --full-time ~
total 52
drwxrwxr-x 2 4096 2023-10-25 17:59:55.365177711 -0400 bread
drwxrwxr-x 6 4096 2023-10-09 17:51:54.244877974 -0400 cis106
drwxr-xr-x 3 4096 2023-10-24 11:12:31.963565605 -0400 Desktop
drwxr-xr-x 2 4096 2023-10-25 17:58:58.132593852 -0400 Documents
drwxr-xr-x 2 4096 2023-10-26 10:30:32.623800224 -0400 Downloads
drwxrwxr-x 2 4096 2022-02-22 14:18:06.000000000 -0500 lab4files
drwxr-xr-x 2 4096 2023-10-25 18:19:04.979813372 -0400 Music
-rw-rw-r-- 2 0 2023-10-25 18:27:37.253192204 -0400 oreo.jpj
drwxr-xr-x 3 4096 2023-10-25 18:29:49.222155264 -0400 Pictures
drwxr-xr-x 2 4096 2023-09-24 16:21:10.044309768 -0400 Public
drwx----- 6 4096 2023-10-25 18:49:58.556294485 -0400 snap
drwxr-xr-x 2 4096 2023-09-24 16:21:10.044309768 -0400 Templates
drwxr-xr-x 2 4096 2023-10-25 17:58:58.132593852 -0400 Videos
drwxrwxr-x 4 4096 2023-10-18 18:38:20.159882684 -0400 website
```

The Linux File System directories and their purpose:





All the commands for navigating the filesystem:

Command	What it does	Syntax	Example
ls	used for viewing the content of a directory and for viewing details about the files and directories.	<code>ls + option + directory to list</code>	<code>ls -a ~/Downloads</code>
cd	change the current working directory	<code>cd + destination</code>	<code>cd /home/\$USER/Music/</code>
pwd	display the current working directory	<code>pwd</code>	<code>pwd</code>

Basic Terminology

- **File System:** The way files are stored and organized.
- **Current directory:** The directory in a file system where a user or program is currently operating or interacting with files.
- **parent directory:** It Refers to the directory containing another directory.
- **the difference between your home directory and the home directory:** *Your home directory* is your personal directory for storing user-specific data, while *the home directory* often refers to the system-wide directory containing all user home directories on a multi-user system.
- **pathname:** it is text-based which 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