

Week Report 4

Practice

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

```
ojsevellano@cis106vm:~$ wget https://cis106.com/assets/practicels.tar.xz
--2022-10-12 21:08:42-- 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

2022-10-12 21:08:43 (29.0 MB/s) - 'practicels.tar.xz' saved [2229212/2229212]

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

```

ojsevellano@cis106vm:~/practicels$ ls -lht
total 2.9M
-rw-rw-r-- 1 ojsevellano ojsevellano 24K Feb 27 2022 countries.xml
-rw-rw-r-- 1 ojsevellano ojsevellano 278K Feb 27 2022 people.csv
-rw-rw-r-- 1 ojsevellano ojsevellano 747K Feb 27 2022 song.mp3
-rw-rw-r-- 1 ojsevellano ojsevellano 1.5M Feb 27 2022 movie.mp4
-rw-rw-r-- 1 ojsevellano ojsevellano 160K Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 ojsevellano ojsevellano 21K Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 ojsevellano ojsevellano 1.1K Feb 27 2022 book.txt
-rw-rw-r-- 1 ojsevellano ojsevellano 109K Feb 22 2022 homework.docx
-rw-rw-r-- 1 ojsevellano ojsevellano 44K Jan 31 2020 tux-penguin.gif
ojsevellano@cis106vm:~/practicels$ ls -lhG
total 2.9M
4.0K -rw-rw-r-- 1 1.1K Feb 27 2022 book.txt
24K -rw-rw-r-- 1 24K Feb 27 2022 countries.xml
160K -rw-rw-r-- 1 160K Feb 27 2022 history-debian.pdf
112K -rw-rw-r-- 1 109K Feb 22 2022 homework.docx
1.5M -rw-rw-r-- 1 1.5M Feb 27 2022 movie.mp4
280K -rw-rw-r-- 1 278K Feb 27 2022 people.csv
748K -rw-rw-r-- 1 747K Feb 27 2022 song.mp3
24K -rw-rw-r-- 1 21K Feb 27 2022 tux-nobg.png
44K -rw-rw-r-- 1 44K Jan 31 2020 tux-penguin.gif
ojsevellano@cis106vm:~/practicels$ ls -lhG
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
ojsevellano@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
ojsevellano@cis106vm:~/practicels$ ls -lX
people.csv
homework.docx
tux-penguin.gif
song.mp3
movie.mp4
history-debian.pdf
tux-nobg.png
book.txt
countries.xml
ojsevellano@cis106vm:~/practicels$

```

The Filesystem Important Directories

Directory	Data Stored in Directory
bin	essential commands
dev	Device files
etc	System configuration files
home	User home directories
media	Mount point for removable media, like DVDs and floppy disks
opt	Add-on software packages
proc	Kernel information, process control, system hardware information
srv	Information relating to services that run on the system
usr	Software not essential for system operation, such as applications
var	Dedicated to variable data, such as logs, databases, files that persist from one boot to the next

Commands to navigate the filesystem

Command	What it does	Syntax	Example
pwd	it displays the current working directory	pwd	pwd

Command	What it does	Syntax	Example
cd	changes the current working directory	cd	cd
ls	used for displaying all the files inside a given directory	ls	ls

Key Terms

Defintions of the following terms:

- **File system** - The way files are stored and organized to simplify access to data
- **Current directory** - The directory where you are at the moment
- **Parent directory** - Backwards to the previous directory
- **The difference between your home directory and the home directory**
 - Your home directory - refers to your user's home directory. For example, `/home/oswaldo` is the home directory of the user oswaldo
 - The home directory - refers to the home directory located in the root. This: `/home`
- **Pathname** - Indicates the location of the file in the filesystem(like an address)
- **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 a the root of the file system
- **A bulleted list of all the commands are used for navigating the filesystem:**
 - pwd
 - cd
 - ls