

# Week report 4

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```
--2022-10-26 00:00:08-- 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.3'

practicels.tar.xz.3 100%[=====] 2.12M 5.19MB/s in 0.4s

2022-10-26 00:00:08 (5.19 MB/s) - 'practicels.tar.xz.3' saved [2229212/2229212]

acastillo28530@Cis106:~$ ~
bash: /home/acastillo28530: Is a directory
acastillo28530@Cis106:~$ tar Jxf practicels.tar.xz
acastillo28530@Cis106:~$ ~
bash: /home/acastillo28530: Is a directory
acastillo28530@Cis106:~$ cd practicels/
acastillo28530@Cis106:~/practicels$ ls
book.txt      history-debian.pdf  movie.mp4      song.mp3      tux-penguin.gif
countries.xml  homework.docx      people.csv     tux-nobg.png
acastillo28530@Cis106:~/practicels$ ls -a
.              countries.xml      movie.mp4      tux-nobg.png
..             history-debian.pdf people.csv     tux-penguin.gif
book.txt      homework.docx      song.mp3
acastillo28530@Cis106:~/practicels$ ls -l
total 2932
-rw-rw-r-- 1 acastillo28530 acastillo28530 1043 Feb 27 2022 book.txt
-rw-rw-r-- 1 acastillo28530 acastillo28530 23972 Feb 27 2022 countries.xml
-rw-rw-r-- 1 acastillo28530 acastillo28530 163057 Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 acastillo28530 acastillo28530 111303 Feb 22 2022 homework.docx
-rw-rw-r-- 1 acastillo28530 acastillo28530 1570024 Feb 27 2022 movie.mp4
-rw-rw-r-- 1 acastillo28530 acastillo28530 284042 Feb 27 2022 people.csv
-rw-rw-r-- 1 acastillo28530 acastillo28530 764176 Feb 27 2022 song.mp3
-rw-rw-r-- 1 acastillo28530 acastillo28530 21314 Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 acastillo28530 acastillo28530 44299 Jan 31 2020 tux-penguin.gif
acastillo28530@Cis106:~/practicels$ ls -lh
total 2.9M
-rw-rw-r-- 1 acastillo28530 acastillo28530 1.1K Feb 27 2022 book.txt
-rw-rw-r-- 1 acastillo28530 acastillo28530 24K Feb 27 2022 countries.xml
-rw-rw-r-- 1 acastillo28530 acastillo28530 160K Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 acastillo28530 acastillo28530 109K Feb 22 2022 homework.docx
-rw-rw-r-- 1 acastillo28530 acastillo28530 1.5M Feb 27 2022 movie.mp4
-rw-rw-r-- 1 acastillo28530 acastillo28530 278K Feb 27 2022 people.csv
-rw-rw-r-- 1 acastillo28530 acastillo28530 747K Feb 27 2022 song.mp3
-rw-rw-r-- 1 acastillo28530 acastillo28530 21K Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 acastillo28530 acastillo28530 44K Jan 31 2020 tux-penguin.gif
acastillo28530@Cis106:~/practicels$ ls -lht
total 2.9M
-rw-rw-r-- 1 acastillo28530 acastillo28530 24K Feb 27 2022 countries.xml
-rw-rw-r-- 1 acastillo28530 acastillo28530 278K Feb 27 2022 people.csv
-rw-rw-r-- 1 acastillo28530 acastillo28530 747K Feb 27 2022 song.mp3
-rw-rw-r-- 1 acastillo28530 acastillo28530 1.5M Feb 27 2022 movie.mp4
-rw-rw-r-- 1 acastillo28530 acastillo28530 160K Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 acastillo28530 acastillo28530 21K Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 acastillo28530 acastillo28530 1.1K Feb 27 2022 book.txt
-rw-rw-r-- 1 acastillo28530 acastillo28530 109K Feb 22 2022 homework.docx
-rw-rw-r-- 1 acastillo28530 acastillo28530 44K Jan 31 2020 tux-penguin.gif
acastillo28530@Cis106:~/practicels$ ls -lhG5
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
acastillo28530@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
acastillo28530@Cis106:~/practicels$ ls -lx
book.txt  countries.xml  history-debian.pdf  homework.docx  movie.mp4
people.csv  song.mp3      tux-nobg.png      tux-penguin.gif
```

```
acastillo28530@Cis106:~$ pwd
/home/acastillo28530
acastillo28530@Cis106:~$ cd Downloads/
acastillo28530@Cis106:~/Downloads$ pwd
/home/acastillo28530/Downloads
acastillo28530@Cis106:~/Downloads$ cd..
cd..: command not found
acastillo28530@Cis106:~/Downloads$ pwd
/home/acastillo28530/Downloads
acastillo28530@Cis106:~/Downloads$ cd ../../
acastillo28530@Cis106:/home$ pwd
/home
```

```
/home
acastillo28530@Cis106:/home$ cd ../../
acastillo28530@Cis106:/ $ pwd
/
acastillo28530@Cis106:/ $ cd
acastillo28530@Cis106:~$ cd -
/
acastillo28530@Cis106:/ $ pwd
/
acastillo28530@Cis106:/ $ pwd
/
acastillo28530@Cis106:/ $ I used relative path
```

## The file system 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, such as 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	non essential software for operation.
var	Dedicated to variable data, such as logs, database, websites, and temporary spool.

## Commands to navigate the file system

Command	What it does	Syntax	Example
pwd	Prints current directory.	pwd	pwd
cd	Change the current directory	cd	cd ~/Downloads
ls	List the content of the present directory.	ls	ls -lx

## Definitions of the following terms

File system: The way files are stored and organized to simplify access to data.

Current directory: Where you are currently working.

parent directory: A directory containing the current directory.

the difference between your home directory and the home directory: Your home directory is giving to an user. Home directory is the root directory.

pathname: Indicates the locations of a file in the file system.

relative path: The location of a file starting from the the current working directory.

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

A bulleted list of all the commands are used for navigating the filesystem.

1. Pwd
2. Cd
3. Ls