

# Week Report 4

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## Practice

```
amnoba@c1s106vm: ~  
amnoba@c1s106vm:~$ pwd  
home/amnoba  
amnoba@c1s106vm:~$
```

```
amnoba@c1s106vm: /  
amnoba@c1s106vm:~$ pwd  
home/amnoba  
amnoba@c1s106vm:~$ cd /home/amnoba/Downloads/  
amnoba@c1s106vm:~/Downloads$ pwd  
home/amnoba/Downloads  
amnoba@c1s106vm:~/Downloads$ cd ../  
amnoba@c1s106vm:~$ pwd  
home/amnoba  
amnoba@c1s106vm:~$ cd ../../  
amnoba@c1s106vm:/$ pwd  
/  
amnoba@c1s106vm:/$ cd  
amnoba@c1s106vm:~$ cd -  
/  
amnoba@c1s106vm:/$
```

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

```

amnoba@cisl06vm: ~/practicels
amnoba@cisl06vm: ~/practicels
amnoba@cisl06vm:~/practicels$ ls -lht
total 2.9M
-rw-rw-r-- 1 amnoba amnoba 24K Feb 27 2022 countries.xml
-rw-rw-r-- 1 amnoba amnoba 278K Feb 27 2022 people.csv
-rw-rw-r-- 1 amnoba amnoba 747K Feb 27 2022 song.mp3
-rw-rw-r-- 1 amnoba amnoba 1.5M Feb 27 2022 movie.mp4
-rw-rw-r-- 1 amnoba amnoba 160K Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 amnoba amnoba 21K Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 amnoba amnoba 1.1K Feb 27 2022 book.txt
-rw-rw-r-- 1 amnoba amnoba 109K Feb 22 2022 homework.docx
-rw-rw-r-- 1 amnoba amnoba 44K Jan 31 2020 tux-penguin.gif
amnoba@cisl06vm:~/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
amnoba@cisl06vm:~/practicels$ ls -mr
tux-penguin.gif, tux-nobg.png, song.mp3, people.csv, movie.mp4, homework.docx,
history-debian.pdf, countries.xml, book.txt
amnoba@cisl06vm:~/practicels$ ls -lX
people.csv
homework.docx
tux-penguin.gif
song.mp3
movie.mp4
history-debian.pdf
tux-nobg.png
book.txt
countries.xml
amnoba@cisl06vm:~/practicels$

```

## The Filesystem (Some 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, 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	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.

## Commands to navigate the filesystem

Command	What it does	Syntax	Example
pwd	print current working directory	pwd	pwd
cd	change the current directory	cd	cd Downloads/
cd -	goes back to the previous command	cd -	cd -
ls	list all the files on a directory	ls	ls
ls -l	long list the directory	ls -l	ls -l
ls -lh	long list the directory with human readable file	ls -lh	ls -lh
ls -R	list all the files in the given directory recursively	ls -R	ls -R

## Key terms

- **File system:** An structure in which the files are stored and organized for the simplicity of accessing the data.
- **Current directory:** the directory in which the user is located at the moment.
- **parent directory:** A subdirectory can be located inside the directory.
- the difference between "*your home directory*" and "*the home directory*"
  - **Your home directory:** Refers to the home directory the user is able to modify
  - **The home directory:** Refers to the home directory located in the root
- **pathname:** Indicate the location of the file in the filesystem
- **relative path:** Starts with root (/)
- **absolute path:** Starts with the subdirectory
- The commands are used for navigating the filesystem.
  - pwd
  - cd
  - ls