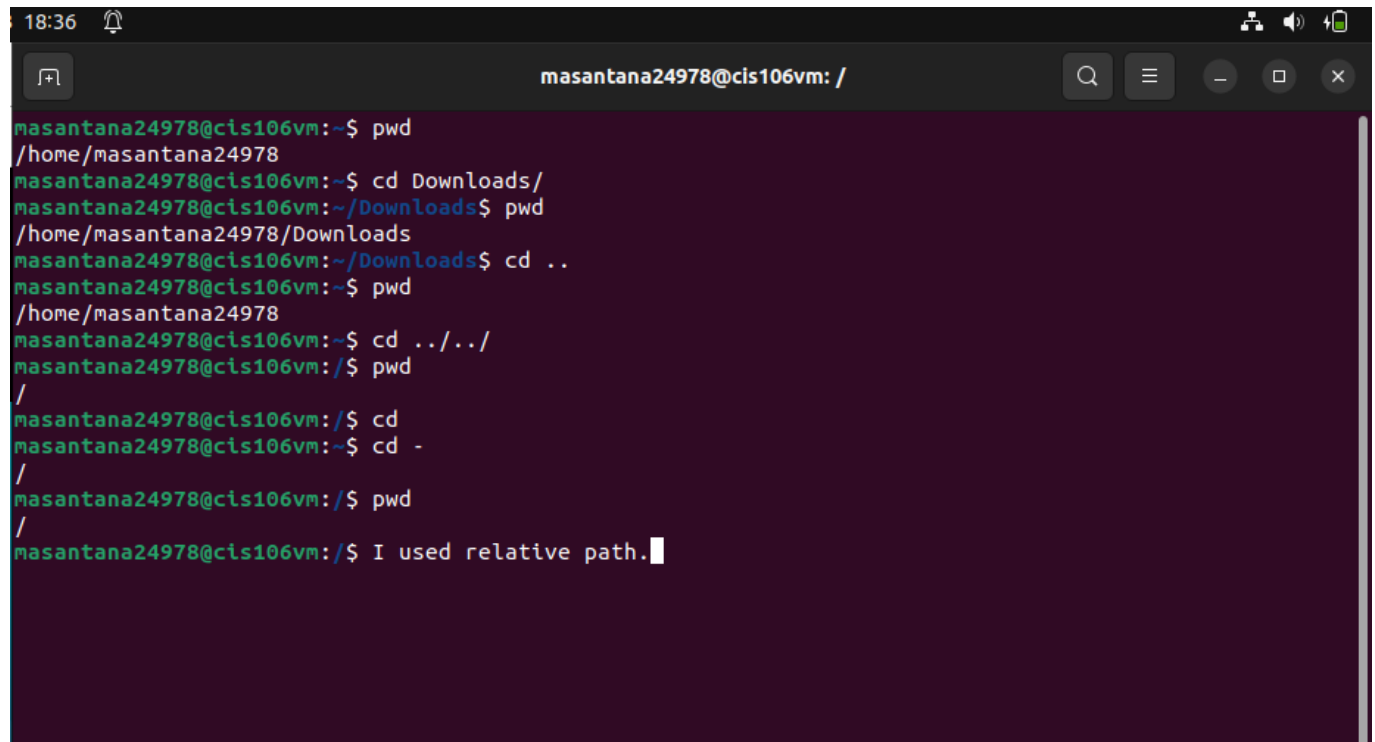


Week Report 4

1. Practice Exercises

a.



```
18:36 [bell icon]
masantana24978@cis106vm: /
masantana24978@cis106vm:~$ pwd
/home/masantana24978
masantana24978@cis106vm:~$ cd Downloads/
masantana24978@cis106vm:~/Downloads$ pwd
/home/masantana24978/Downloads
masantana24978@cis106vm:~/Downloads$ cd ..
masantana24978@cis106vm:~$ pwd
/home/masantana24978
masantana24978@cis106vm:~$ cd ../../
masantana24978@cis106vm:/$ pwd
/
masantana24978@cis106vm:/$ cd
masantana24978@cis106vm:~$ cd -
/
masantana24978@cis106vm:/$ pwd
/
masantana24978@cis106vm:/$ I used relative path.
```

b.

```

18:52
masantana24978@cis106vm: ~/practicels

masantana24978@cis106vm:~$ wget https://cis106.com/assets/practicels.tar.xz
--2022-10-13 18:44:36-- 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 0.1s

2022-10-13 18:44:36 (19.5 MB/s) - 'practicels.tar.xz' saved [2229212/2229212]

masantana24978@cis106vm:~$ tar Jxf practicels.tar.xz
masantana24978@cis106vm:~$ cd practicels/
masantana24978@cis106vm:~/practicels$ ls
book.txt      history-debian.pdf  movie.mp4  song.mp3      tux-penguin.gif
countries.xml  homework.docx       people.csv  tux-nobg.png
masantana24978@cis106vm:~/practicels$ ls
book.txt      history-debian.pdf  movie.mp4  song.mp3      tux-penguin.gif
countries.xml  homework.docx       people.csv  tux-nobg.png
masantana24978@cis106vm:~/practicels$ ls -a
.   book.txt      history-debian.pdf  movie.mp4  song.mp3      tux-penguin.gif
..  countries.xml homework.docx       people.csv  tux-nobg.png
masantana24978@cis106vm:~/practicels$ ls -l
total 2932
-rw-rw-r-- 1 masantana24978 masantana24978 1043 Feb 27 2022 book.txt
-rw-rw-r-- 1 masantana24978 masantana24978 23972 Feb 27 2022 countries.xml
-rw-rw-r-- 1 masantana24978 masantana24978 163057 Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 masantana24978 masantana24978 111303 Feb 22 2022 homework.docx
-rw-rw-r-- 1 masantana24978 masantana24978 1570024 Feb 27 2022 movie.mp4
-rw-rw-r-- 1 masantana24978 masantana24978 284042 Feb 27 2022 people.csv
-rw-rw-r-- 1 masantana24978 masantana24978 764176 Feb 27 2022 song.mp3
-rw-rw-r-- 1 masantana24978 masantana24978 21314 Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 masantana24978 masantana24978 44299 Jan 31 2020 tux-penguin.gif
masantana24978@cis106vm:~/practicels$ ls -lh
total 2.9M
-rw-rw-r-- 1 masantana24978 masantana24978 1.1K Feb 27 2022 book.txt
-rw-rw-r-- 1 masantana24978 masantana24978 24K Feb 27 2022 countries.xml
-rw-rw-r-- 1 masantana24978 masantana24978 160K Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 masantana24978 masantana24978 109K Feb 22 2022 homework.docx
-rw-rw-r-- 1 masantana24978 masantana24978 1.5M Feb 27 2022 movie.mp4
-rw-rw-r-- 1 masantana24978 masantana24978 278K Feb 27 2022 people.csv
-rw-rw-r-- 1 masantana24978 masantana24978 747K Feb 27 2022 song.mp3
-rw-rw-r-- 1 masantana24978 masantana24978 21K Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 masantana24978 masantana24978 44K Jan 31 2020 tux-penguin.gif
masantana24978@cis106vm:~/practicels$

```

```
18:54 [terminal icon] masantana24978@cis106vm: ~/practicels [search] [menu] [back] [forward] [close]

masantana24978@cis106vm:~/practicels$ ls -lht
total 2.9M
-rw-rw-r-- 1 masantana24978 masantana24978 24K Feb 27 2022 countries.xml
-rw-rw-r-- 1 masantana24978 masantana24978 278K Feb 27 2022 people.csv
-rw-rw-r-- 1 masantana24978 masantana24978 747K Feb 27 2022 song.mp3
-rw-rw-r-- 1 masantana24978 masantana24978 1.5M Feb 27 2022 movie.mp4
-rw-rw-r-- 1 masantana24978 masantana24978 160K Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 masantana24978 masantana24978 21K Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 masantana24978 masantana24978 1.1K Feb 27 2022 book.txt
-rw-rw-r-- 1 masantana24978 masantana24978 109K Feb 22 2022 homework.docx
-rw-rw-r-- 1 masantana24978 masantana24978 44K Jan 31 2020 tux-penguin.gif
masantana24978@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 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
masantana24978@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
masantana24978@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
masantana24978@cis106vm:~/practicels$
```

C.

```

19:30
masantana24978@cis106vm: ~
masantana24978@cis106vm:~/practicels$ pwd
/home/masantana24978/practicels
masantana24978@cis106vm:~/practicels$ cd /
masantana24978@cis106vm:/$ cd usr/share/themes
masantana24978@cis106vm:/usr/share/themes$ cd ../../
masantana24978@cis106vm:/usr$ ls -A ~
.bash_history Downloads Pictures Templates
.bash_logout gitcommands.txt .pki .thunderbird
.bashrc .gitconfig practicels .vboxclient-clipboard.pid
.cache .gnupg practicels.tar.xz .vboxclient-display-svga-x11.pid
cis-106-f22 installprograms.sh .profile .vboxclient-draganddrop.pid
.cis106.png .lessht Public .vboxclient-seamless.pid
.config .local snap Videos
Desktop .mozilla .ssh .vscode
Documents Music .sudo_as_admin_successful website
masantana24978@cis106vm:/usr$ cd; ls -tX cis-106-f22/
cheatsheets finalproject Labs weekreports
masantana24978@cis106vm:~$ ls -rR ~/cis-106-f22/
/home/masantana24978/cis-106-f22/:
weekreports Labs finalproject cheatsheets

/home/masantana24978/cis-106-f22/weekreports:
week4 week3 week2

/home/masantana24978/cis-106-f22/weekreports/week4:
wr4practice2..png wr4practice2.png wr4practice1.png

/home/masantana24978/cis-106-f22/weekreports/week3:
wr3.pdf wr3.md survey.png pg8.png pg6.png pg10.png

/home/masantana24978/cis-106-f22/weekreports/week2:
wr2.pdf serverside.png iu5.png iu3.png iu1.png htype2.png h.png
wr2.md iu6.png iu4.png iu2.png installing1.png htype1.png

/home/masantana24978/cis-106-f22/Labs:
Lab4 Lab3 Lab2 Lab1

/home/masantana24978/cis-106-f22/Labs/Lab4:

/home/masantana24978/cis-106-f22/Labs/Lab3:
Ubuntu-presentation.pptx Linux.pdf lappy.png lab3.md date-command.png
q2.png Linux.docx lab3.pdf j3m8y5.jpg

/home/masantana24978/cis-106-f22/Labs/Lab2:
sc8.jpeg sc6.jpeg sc4.jpeg sc1.jpeg q3.jpeg lab2.pdf
sc7.jpeg sc5.jpeg sc2.jpeg q4.png q2.png lab2.md

```

```

19:33
masantana24978@cis106vm: ~
masantana24978@cis106vm:~$ ls -lh ~
total 2.2M
drwxrwxr-x 7 masantana24978 masantana24978 4.0K Oct 13 19:16 cis-106-f22
drwxr-xr-x 2 masantana24978 masantana24978 4.0K Oct 3 17:12 Desktop
drwxr-xr-x 2 masantana24978 masantana24978 4.0K Sep 22 13:34 Documents
drwxr-xr-x 5 masantana24978 masantana24978 4.0K Oct 13 19:16 Downloads
-rw-rw-r-- 1 masantana24978 masantana24978 48 Sep 30 18:55 gitcommands.txt
-rwxrwxr-x 1 masantana24978 masantana24978 349 Sep 30 17:52 installprograms.sh
drwxr-xr-x 2 masantana24978 masantana24978 4.0K Sep 22 13:34 Music
drwxr-xr-x 2 masantana24978 masantana24978 4.0K Oct 3 18:15 Pictures
drwxrwxr-x 2 masantana24978 masantana24978 4.0K Feb 27 2022 practicels
-rw-rw-r-- 1 masantana24978 masantana24978 2.2M Oct 12 09:57 practicels.tar.xz
drwxr-xr-x 2 masantana24978 masantana24978 4.0K Sep 22 13:34 Public
drwx----- 6 masantana24978 masantana24978 4.0K Sep 30 18:01 snap
drwxr-xr-x 2 masantana24978 masantana24978 4.0K Sep 22 13:34 Templates
drwxr-xr-x 2 masantana24978 masantana24978 4.0K Sep 22 13:34 Videos
drwxrwxr-x 8 masantana24978 masantana24978 4.0K Oct 12 18:37 website
masantana24978@cis106vm:~$ ls -lgG -full-time ~
ls: invalid option -- '-'
Try 'ls --help' for more information.
masantana24978@cis106vm:~$ ls -lgG -full time ~
ls: cannot access 'time': No such file or directory
/home/masantana24978:
total 2324
drwxr-xr-x 2 4096 Oct 13 17:52 Pictures
-rw-r----- 1 5 Oct 12 17:48 .vboxclient-dragandddrop.pid
drwx----- 4 4096 Oct 3 19:42 .local
-rw-rw-r-- 1 48 Oct 13 19:18 gitcommands.txt
-rw----- 1 20 Oct 3 20:08 .lessht
drwxrwxr-x 8 4096 Oct 13 18:35 website
drwxrwxr-x 7 4096 Oct 13 19:16 cis-106-f22
-rw-rw-r-- 1 2229212 Oct 13 18:45 practicels.tar.xz
drwxr-xr-x 2 4096 Oct 13 18:35 Public
drwx----- 3 4096 Oct 3 19:42 .mozilla
drwxr-xr-x 3 4096 Oct 13 17:56 ..
drwxr-xr-x 2 4096 Oct 13 17:52 Videos
drwxr-xr-x 2 4096 Oct 13 17:52 Templates
drwx----- 3 4096 Oct 3 19:42 .pki
-rw-r----- 1 5 Oct 12 17:48 .vboxclient-display-svg-x11.pid
drwxr-xr-x 5 4096 Oct 13 19:16 Downloads
drwx----- 2 4096 Oct 3 19:42 .gnupg
-rwxrwxr-x 1 349 Sep 30 17:54 installprograms.sh
-rw-r--r-- 1 0 Sep 28 18:52 .sudo_as_admin_successful
drwxr-xr-x 2 4096 Oct 13 17:52 Desktop
-rw-rw-r-- 1 3520 Oct 13 17:52 .cis106.png
drwxr-xr-x 2 4096 Oct 13 17:52 Documents
-rw----- 1 3032 Oct 12 18:10 .bash_history
drwxrwxr-x 2 4096 Oct 13 18:47 practicels

```

2.

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

Directory	Data Stored in Directory
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 (email etc.) files that persist from one boot to the next

Command	What it does	Syntax	Example
pwd	displays the current working directory	pwd	pwd
cd	changes the current working directory. When no directory is given cd changes the current working directory to the home directory of the current user	cd + destination	cd ~
ls	displays all the files inside a given directory. When no directory is specified, ls displays the files in the current working directory	ls + destination	ls -a

3. Definitions of the following terms

- File system: the way files are stored and organized to simplify access to data
- Current directory: directory where you are at the moment
- Parent directory: moving backwards to the previous directory
- Difference between **YOUR HOME** directory and **THE HOME** directory:
 1. "**Your** home directory" refers to your user's home directory
 2. "**The** home directory" refers to the home directory located in the root
- Pathname: every file has which indicates the location of the file in the file system
- Relative path: the location of a file starting from the current working directory
- Absolute path: the location of a file starting at the root of the file system

List of all commands used for navigating the file system

- pwd
- cd
- ls
- tree
- dir
- exa