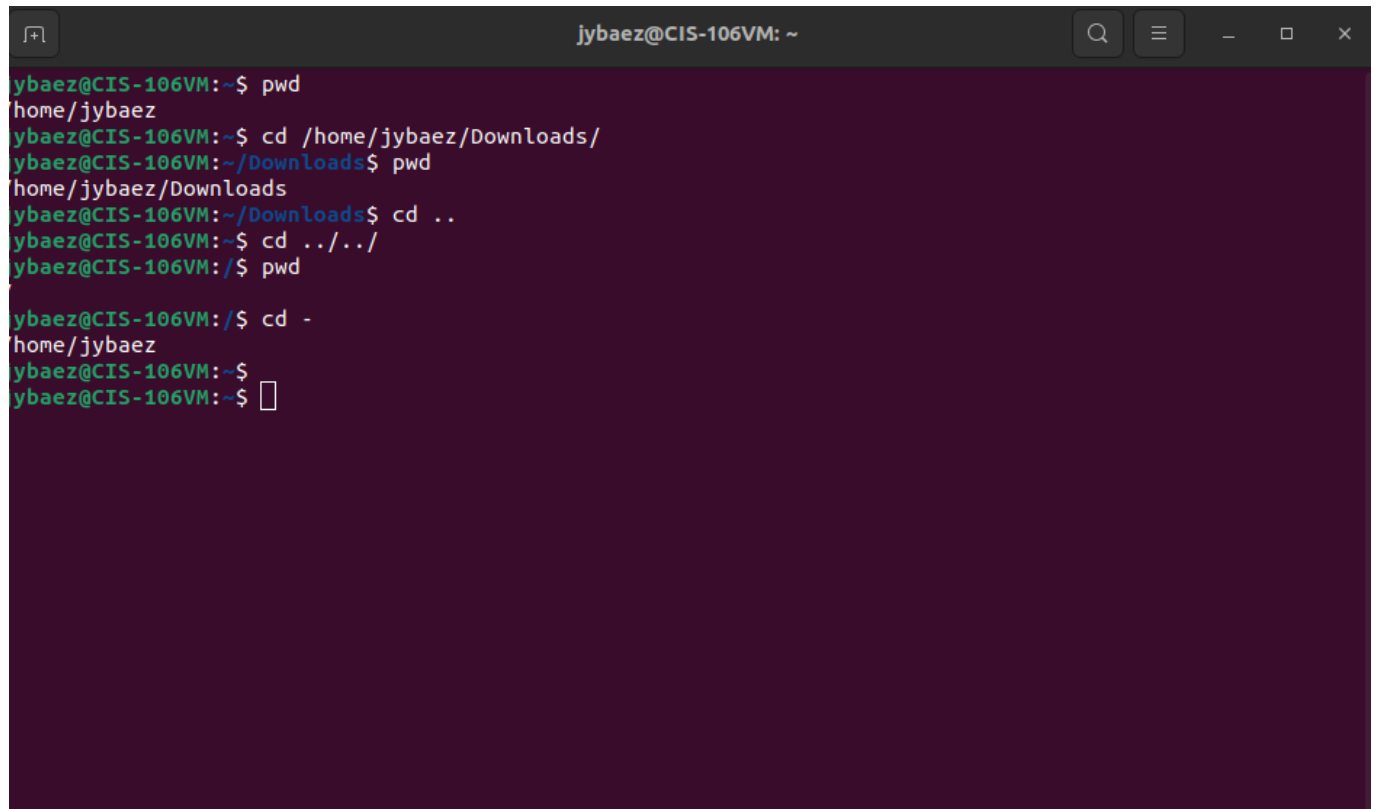


Week Report 4

Practice from the presentation The Linux File system:

Practice 1



```
jybaez@CIS-106VM: ~  
ybaez@CIS-106VM:~$ pwd  
home/jybaez  
ybaez@CIS-106VM:~$ cd /home/jybaez/Downloads/  
ybaez@CIS-106VM:~/Downloads$ pwd  
home/jybaez/Downloads  
ybaez@CIS-106VM:~/Downloads$ cd ..  
ybaez@CIS-106VM:~$ cd ../../  
ybaez@CIS-106VM:/$ pwd  
home/jybaez  
ybaez@CIS-106VM:~$  
ybaez@CIS-106VM:~$
```

Practice 2

```

jybaez@CIS-106VM:~$ wget https://cis106.com/assets/practicels.tar.xz
--2023-03-18 17:07:57-- 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  12.7MB/s  in 0.2s

2023-03-18 17:07:58 (12.7 MB/s) - 'practicels.tar.xz' saved [2229212/2229212]

jybaez@CIS-106VM:~$ tar Jxf practicels.tar.xz
jybaez@CIS-106VM:~$ ls
Cis106S23  Documents  Gitcommands.txt  Pictures  practicels.tar.xz  snap  Videos
Desktop    Downloads  Music            practicels  Public            Templates
jybaez@CIS-106VM:~$ ls -a
.
..
.bash_history  Desktop  .gnupg      .profile      .vboxclient-clipboard.pid
.bash_logout  Documents .lessht     .public       .vboxclient-draganddrop.pid
.bashrc       .dotnet  .local      Public        .vboxclient-seamless.pid
.cache        Downloads Music       snap          .vboxclient-vmsvga-session-tty2.pid
.cis106.png   .fonts  Pictures    .ssh         Videos
               .vscode

jybaez@CIS-106VM:~$ ls -l
total 2228
drwxrwxr-x 5 jybaez jybaez 4096 Mar 18 16:32 Cis106S23
drwxr-xr-x 2 jybaez jybaez 4096 Mar 4 22:06 Desktop
drwxr-xr-x 2 jybaez jybaez 4096 Mar 14 19:05 Documents
drwxr-xr-x 7 jybaez jybaez 4096 Mar 18 16:43 Downloads
-rw-rw-r-- 1 jybaez jybaez 91 Mar 4 21:04 Gitcommands.txt
drwxr-xr-x 2 jybaez jybaez 4096 Mar 4 19:11 Music
drwxr-xr-x 5 jybaez jybaez 4096 Mar 18 17:05 Pictures
drwxrwxr-x 2 jybaez jybaez 4096 Feb 27 2022 practicels
-rw-rw-r-- 1 jybaez jybaez 2229212 Feb 21 21:10 practicels.tar.xz
drwxr-xr-x 2 jybaez jybaez 4096 Mar 4 19:11 Public
drwx----- 5 jybaez jybaez 4096 Mar 4 20:25 snap
drwxr-xr-x 2 jybaez jybaez 4096 Mar 4 19:11 Templates
drwxr-xr-x 3 jybaez jybaez 4096 Mar 14 18:30 Videos
jybaez@CIS-106VM:~$ ls -lh
total 2.2M
drwxrwxr-x 5 jybaez jybaez 4.0K Mar 18 16:32 Cis106S23
drwxr-xr-x 2 jybaez jybaez 4.0K Mar 4 22:06 Desktop
drwxr-xr-x 2 jybaez jybaez 4.0K Mar 14 19:05 Documents
drwxr-xr-x 7 jybaez jybaez 4.0K Mar 18 16:43 Downloads
-rw-rw-r-- 1 jybaez jybaez 91 Mar 4 21:04 Gitcommands.txt
drwxr-xr-x 2 jybaez jybaez 4.0K Mar 4 19:11 Music
drwxr-xr-x 5 jybaez jybaez 4.0K Mar 18 17:05 Pictures
drwxrwxr-x 2 jybaez jybaez 4.0K Feb 27 2022 practicels
-rw-rw-r-- 1 jybaez jybaez 2.2M Feb 21 21:10 practicels.tar.xz
drwxr-xr-x 2 jybaez jybaez 4.0K Mar 4 19:11 Public
drwx----- 5 jybaez jybaez 4.0K Mar 4 20:25 snap
drwxr-xr-x 2 jybaez jybaez 4.0K Mar 4 19:11 Templates
drwxr-xr-x 3 jybaez jybaez 4.0K Mar 14 18:30 Videos
jybaez@CIS-106VM:~$ ls -lht
total 2.2M
drwxr-xr-x 5 jybaez jybaez 4.0K Mar 18 17:05 Pictures
drwxr-xr-x 7 jybaez jybaez 4.0K Mar 18 16:43 Downloads
drwxrwxr-x 5 jybaez jybaez 4.0K Mar 18 16:32 Cis106S23
drwxr-xr-x 2 jybaez jybaez 4.0K Mar 14 19:05 Documents
drwxr-xr-x 3 jybaez jybaez 4.0K Mar 14 18:30 Videos
drwxr-xr-x 2 jybaez jybaez 4.0K Mar 4 22:06 Desktop
-rw-rw-r-- 1 jybaez jybaez 91 Mar 4 21:04 Gitcommands.txt
drwx----- 5 jybaez jybaez 4.0K Mar 4 20:25 snap
drwxr-xr-x 2 jybaez jybaez 4.0K Mar 4 19:11 Music
drwxr-xr-x 2 jybaez jybaez 4.0K Mar 4 19:11 Public
drwxr-xr-x 2 jybaez jybaez 4.0K Mar 4 19:11 Templates
-rw-rw-r-- 1 jybaez jybaez 2.2M Feb 21 21:10 practicels.tar.xz
drwxrwxr-x 2 jybaez jybaez 4.0K Feb 27 2022 practicels

```

```
lybaez@CIS-106VM:~$ ls -lhGS
total 2.2M
-rw-rw-r-- 1 2.2M Feb 21 21:10 practicels.tar.xz
drwxrwxr-x 5 4.0K Mar 18 16:32 Cis106S23
drwxr-xr-x 2 4.0K Mar 4 22:06 Desktop
drwxr-xr-x 2 4.0K Mar 14 19:05 Documents
drwxr-xr-x 7 4.0K Mar 18 16:43 Downloads
drwxr-xr-x 2 4.0K Mar 4 19:11 Music
drwxr-xr-x 5 4.0K Mar 18 17:05 Pictures
drwxrwxr-x 2 4.0K Feb 27 2022 practicels
drwxr-xr-x 2 4.0K Mar 4 19:11 Public
drwx----- 5 4.0K Mar 4 20:25 snap
drwxr-xr-x 2 4.0K Mar 4 19:11 Templates
drwxr-xr-x 3 4.0K Mar 14 18:30 Videos
-rw-rw-r-- 1 91 Mar 4 21:04 Gitcommands.txt
lybaez@CIS-106VM:~$ ls -mr
Videos, Templates, snap, Public, practicels.tar.xz, practicels, Pictures, Music, Gitcommands.txt,
Downloads, Documents, Desktop, Cis106S23
lybaez@CIS-106VM:~$ ls -lx
Cis106S23      Desktop  Documents  Downloads  Gitcommands.txt  Music  Pictures  practicels
practicels.tar.xz  Public  snap      Templates  Videos
lybaez@CIS-106VM:~$
```

Practice 3

```

jybaez@CIS-106VM:~$ pwd
/home/jybaez
jybaez@CIS-106VM:~$ cd /
jybaez@CIS-106VM:/$ cd usr/share/themes
jybaez@CIS-106VM:/usr/share/themes$ cd ../../
jybaez@CIS-106VM:/usr$ ls -A ~
.bash_history  .fonts          .profile
.bash_logout  Gitcommands.txt Public
.bashrc       .gitconfig      snap
.cache       .gnupg          .ssh
.cis106.png   .lessht        Templates
Cis106S23     .local          .vboxclient-clipboard.pid
.config       Music           .vboxclient-draganddrop.pid
Desktop       Pictures        .vboxclient-seamless.pid
Documents     .pki            .vboxclient-vmvga-session-tty2.pid
.dotnet       practicels     Videos
Downloads     practicels.tar.xz .vscode
jybaez@CIS-106VM:/usr$ cd; ls -tX Cis106S23
Labs 'Week Reports' WR4.md
jybaez@CIS-106VM:~$ ls -rR ~/Cis106S23
/home/jybaez/Cis106S23:
WR4.md 'Week Reports' Labs

'/home/jybaez/Cis106S23/Week Reports':
wr4-p2.3.png wr4-p2.1.png WR3.md fs1.2.png
wr4-p2.2.png wr4-p1.png fs1.3.png fs1.1.png

/home/jybaez/Cis106S23/Labs:
Lab3 Lab2 Lab1

/home/jybaez/Cis106S23/Labs/Lab3:
q2.1.png q1.1.png Presentation.odp Lab3.pdf Lab3.md baseball.pdf

/home/jybaez/Cis106S23/Labs/Lab2:
VM.png Snapshots.png Lab2.md
'Virtualization Enabled.png' 'Laptop Specs.png'
'Ubuntu Installer.png' Lab2.pdf

/home/jybaez/Cis106S23/Labs/Lab1:
whatisubuntu.txt ubuntu-logo.png resume.png
what-is-ubuntu.pdf ubuntu-desktop.png johndoe.jpeg
what-is-ubunt-submission.pdf Resume.submission.pdf johndoeinfo.txt
what-is-ubunt-submission.md Resume.submission.md

```

```

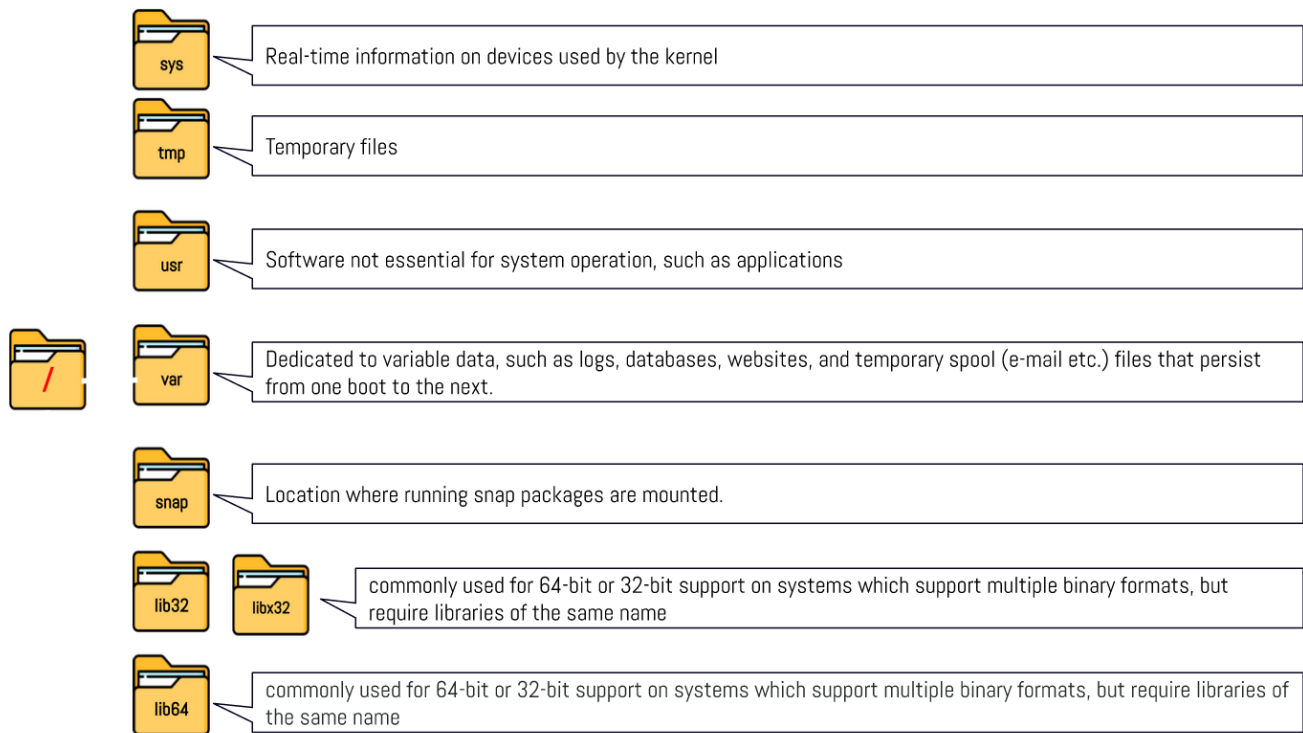
jybaez@CIS-106VM:~$ ls -lh ~
total 2.2M
drwxrwxr-x 5 jybaez jybaez 4.0K Mar 18 16:32 Cis106S23
drwxr-xr-x 2 jybaez jybaez 4.0K Mar  4 22:06 Desktop
drwxr-xr-x 2 jybaez jybaez 4.0K Mar 14 19:05 Documents
drwxr-xr-x 7 jybaez jybaez 4.0K Mar 18 16:43 Downloads
-rw-rw-r-- 1 jybaez jybaez  91 Mar  4 21:04 Gitcommands.txt
drwxr-xr-x 2 jybaez jybaez 4.0K Mar  4 19:11 Music
drwxr-xr-x 5 jybaez jybaez 4.0K Mar 18 17:15 Pictures
drwxrwxr-x 2 jybaez jybaez 4.0K Feb 27  2022 practicels
-rw-rw-r-- 1 jybaez jybaez 2.2M Feb 21 21:10 practicels.tar.xz
drwxr-xr-x 2 jybaez jybaez 4.0K Mar  4 19:11 Public
drwx----- 5 jybaez jybaez 4.0K Mar  4 20:25 snap
drwxr-xr-x 2 jybaez jybaez 4.0K Mar  4 19:11 Templates
drwxr-xr-x 3 jybaez jybaez 4.0K Mar 14 18:30 Videos

```

```
jybaez@CIS-106VM:~$ ls -lgG --full-time ~
total 2228
drwxrwxr-x 5      4096 2023-03-18 16:32:07.343155505 -0400 Cis106S23
drwxr-xr-x 2      4096 2023-03-04 22:06:49.076832433 -0500 Desktop
drwxr-xr-x 2      4096 2023-03-14 19:05:56.523836977 -0400 Documents
drwxr-xr-x 7      4096 2023-03-18 16:43:56.873743675 -0400 Downloads
-rw-rw-r-- 1       91 2023-03-04 21:04:24.278398657 -0500 Gitcommands.txt
drwxr-xr-x 2      4096 2023-03-04 19:11:07.508000000 -0500 Music
drwxr-xr-x 5      4096 2023-03-18 17:15:15.368522188 -0400 Pictures
drwxrwxr-x 2      4096 2022-02-27 13:46:18.000000000 -0500 practicels
-rw-rw-r-- 1 2229212 2023-02-21 21:10:00.000000000 -0500 practicels.tar.xz
drwxr-xr-x 2      4096 2023-03-04 19:11:07.508000000 -0500 Public
drwx----- 5      4096 2023-03-04 20:25:15.840892976 -0500 snap
drwxr-xr-x 2      4096 2023-03-04 19:11:07.508000000 -0500 Templates
drwxr-xr-x 3      4096 2023-03-14 18:30:31.083657898 -0400 Videos
jybaez@CIS-106VM:~$
```

The Linux File system directories and their purpose:





All the commands for navigating the filesystem

Command	What it does	Syntax	Example
pwd	Prints current directory	pwd	pwd
cd	Change current working directory	cd	cd
ls	Displays all files inside of a given directory	ls	ls

Basic terminology

- **File system:** The way files are stored and organized.
- **Current directory:** The directory in which you are in at that moment.
- **parent directory:** The directory above another directory.
- **the difference between your home directory and the home directory:** The home directory stores all the users home directories. Your home directory has your personal files.
- **pathname:** 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 the file starting at the root of the file system.