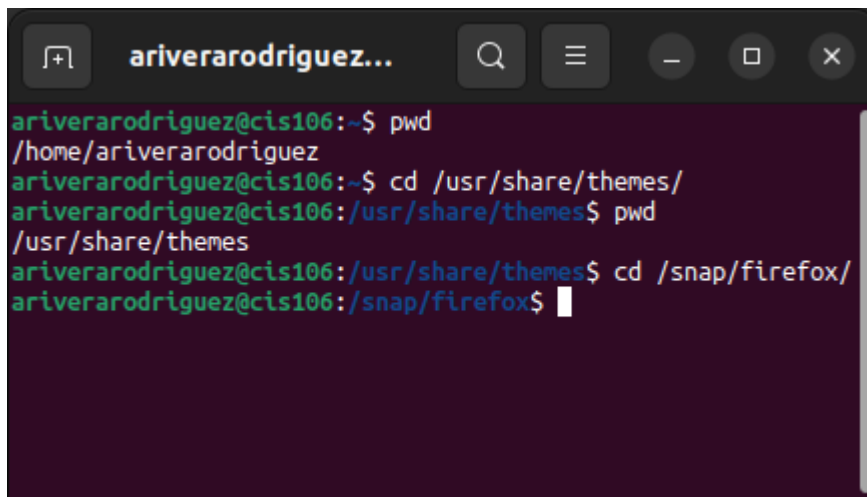
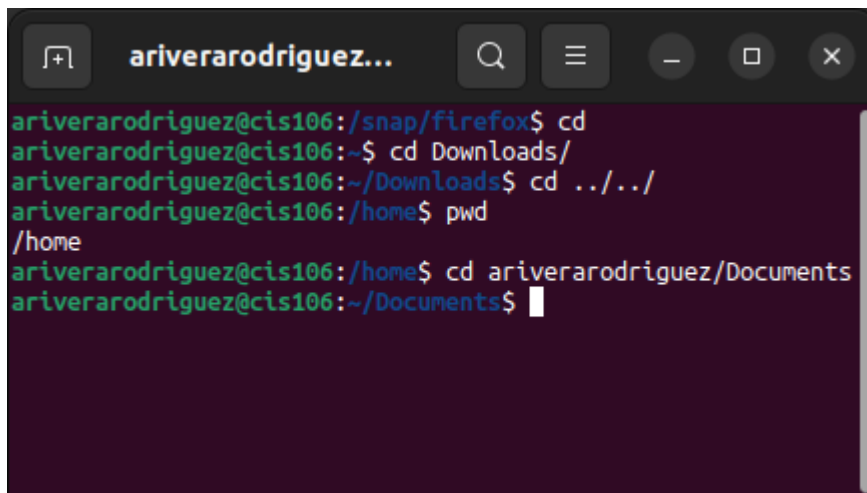


Lab 4 The Linux FS Submission

Question 1



```
ariverarodriguez@cis106:~$ pwd
/home/ariverarodriguez
ariverarodriguez@cis106:~$ cd /usr/share/themes/
ariverarodriguez@cis106:/usr/share/themes$ pwd
/usr/share/themes
ariverarodriguez@cis106:/usr/share/themes$ cd /snap/firefox/
ariverarodriguez@cis106:/snap/firefox$
```



```
ariverarodriguez@cis106:/snap/firefox$ cd
ariverarodriguez@cis106:~$ cd Downloads/
ariverarodriguez@cis106:~/Downloads$ cd ../../
ariverarodriguez@cis106:/home$ pwd
/home
ariverarodriguez@cis106:/home$ cd ariverarodriguez/Documents
ariverarodriguez@cis106:~/Documents$
```

Question 2

```

ariverarodriguez@cis106: ~/lab4files
ariverarodriguez@cis106:/usr/share$ ls /home/ariverarodriguez/lab4files/
countries.json  document.docx  helloWorld.c  sample.xls  Ubuntu.pdf
csvfile.csv     globe.avi      Linux.pdf     Tux.png     website.html
ariverarodriguez@cis106:/usr/share$ cd ~/lab4files/
ariverarodriguez@cis106:~/lab4files$ ls -l
total 6580
-rw-rw-r-- 1 ariverarodriguez ariverarodriguez 20471 Feb 22 2022 countries.json
-rw-rw-r-- 1 ariverarodriguez ariverarodriguez 284042 Feb 22 2022 csvfile.csv
-rw-rw-r-- 1 ariverarodriguez ariverarodriguez 764176 Feb 22 2022 document.docx
-rw-rw-r-- 1 ariverarodriguez ariverarodriguez 742478 Feb 22 2022 globe.avi
-rw-rw-r-- 1 ariverarodriguez ariverarodriguez 76 Feb 22 2022 helloWorld.c
-rw-rw-r-- 1 ariverarodriguez ariverarodriguez 2600138 Feb 22 2022 Linux.pdf
-rw-rw-r-- 1 ariverarodriguez ariverarodriguez 8704 Feb 22 2022 sample.xls
-rw-rw-r-- 1 ariverarodriguez ariverarodriguez 42777 Feb 22 2022 Tux.png
-rw-rw-r-- 1 ariverarodriguez ariverarodriguez 2114053 Feb 22 2022 Ubuntu.pdf
-rw-rw-r-- 1 ariverarodriguez ariverarodriguez 137453 Feb 22 2022 website.html
ariverarodriguez@cis106:~/lab4files$ ls -lh
total 6.5M
-rw-rw-r-- 1 ariverarodriguez ariverarodriguez 20K Feb 22 2022 countries.json
-rw-rw-r-- 1 ariverarodriguez ariverarodriguez 278K Feb 22 2022 csvfile.csv
-rw-rw-r-- 1 ariverarodriguez ariverarodriguez 747K Feb 22 2022 document.docx
-rw-rw-r-- 1 ariverarodriguez ariverarodriguez 726K Feb 22 2022 globe.avi
-rw-rw-r-- 1 ariverarodriguez ariverarodriguez 76 Feb 22 2022 helloWorld.c
-rw-rw-r-- 1 ariverarodriguez ariverarodriguez 2.5M Feb 22 2022 Linux.pdf
-rw-rw-r-- 1 ariverarodriguez ariverarodriguez 8.5K Feb 22 2022 sample.xls
-rw-rw-r-- 1 ariverarodriguez ariverarodriguez 42K Feb 22 2022 Tux.png
-rw-rw-r-- 1 ariverarodriguez ariverarodriguez 2.1M Feb 22 2022 Ubuntu.pdf
-rw-rw-r-- 1 ariverarodriguez ariverarodriguez 135K Feb 22 2022 website.html

```

```

ariverarodriguez@cis106: ~/lab4files
ariverarodriguez@cis106:~/lab4files$ ls -lhS
total 6.5M
-rw-rw-r-- 1 ariverarodriguez ariverarodriguez 2.5M Feb 22 2022 Linux.pdf
-rw-rw-r-- 1 ariverarodriguez ariverarodriguez 2.1M Feb 22 2022 Ubuntu.pdf
-rw-rw-r-- 1 ariverarodriguez ariverarodriguez 747K Feb 22 2022 document.docx
-rw-rw-r-- 1 ariverarodriguez ariverarodriguez 726K Feb 22 2022 globe.avi
-rw-rw-r-- 1 ariverarodriguez ariverarodriguez 278K Feb 22 2022 csvfile.csv
-rw-rw-r-- 1 ariverarodriguez ariverarodriguez 135K Feb 22 2022 website.html
-rw-rw-r-- 1 ariverarodriguez ariverarodriguez 42K Feb 22 2022 Tux.png
-rw-rw-r-- 1 ariverarodriguez ariverarodriguez 20K Feb 22 2022 countries.json
-rw-rw-r-- 1 ariverarodriguez ariverarodriguez 8.5K Feb 22 2022 sample.xls
-rw-rw-r-- 1 ariverarodriguez ariverarodriguez 76 Feb 22 2022 helloWorld.c
ariverarodriguez@cis106:~/lab4files$ ls -lhSgG
total 6.5M
-rw-rw-r-- 1 2.5M Feb 22 2022 Linux.pdf
-rw-rw-r-- 1 2.1M Feb 22 2022 Ubuntu.pdf
-rw-rw-r-- 1 747K Feb 22 2022 document.docx
-rw-rw-r-- 1 726K Feb 22 2022 globe.avi
-rw-rw-r-- 1 278K Feb 22 2022 csvfile.csv
-rw-rw-r-- 1 135K Feb 22 2022 website.html
-rw-rw-r-- 1 42K Feb 22 2022 Tux.png
-rw-rw-r-- 1 20K Feb 22 2022 countries.json
-rw-rw-r-- 1 8.5K Feb 22 2022 sample.xls
-rw-rw-r-- 1 76 Feb 22 2022 helloWorld.c
ariverarodriguez@cis106:~/lab4files$ ls -lhSgGi
total 6.5M
926609 -rw-rw-r-- 1 2.5M Feb 22 2022 Linux.pdf
926611 -rw-rw-r-- 1 2.1M Feb 22 2022 Ubuntu.pdf
926614 -rw-rw-r-- 1 747K Feb 22 2022 document.docx
926615 -rw-rw-r-- 1 726K Feb 22 2022 globe.avi
926613 -rw-rw-r-- 1 278K Feb 22 2022 csvfile.csv
926618 -rw-rw-r-- 1 135K Feb 22 2022 website.html
926610 -rw-rw-r-- 1 42K Feb 22 2022 Tux.png
926612 -rw-rw-r-- 1 20K Feb 22 2022 countries.json

```

```
926617 -rw-rw-r-- 1 8.5K Feb 22 2022 sample.xls
926616 -rw-rw-r-- 1 76 Feb 22 2022 helloWorld.c

ariverarodriguez@cis106:~/lab4files$ ls -Xr
sample.xls  Ubuntu.pdf  countries.json  document.docx  helloWorld.c
Tux.png     Linux.pdf   website.html   csvfile.csv    globe.avi
ariverarodriguez@cis106:~/lab4files$ ls -Xr1
sample.xls
Tux.png
Ubuntu.pdf
Linux.pdf
countries.json
website.html
document.docx
csvfile.csv
helloWorld.c
globe.avi
ariverarodriguez@cis106:~/lab4files$
```

Challenge Question 4

```
ariverarodriguez@cis106: /dev/disk/by-id

1 ariverarodriguez@cis106:~$ pwd
/home/ariverarodriguez
2 ariverarodriguez@cis106:~$ cd /usr/share/icons/default/
3 ariverarodriguez@cis106:/usr/share/icons/default$ cd /proc/sys/net/ipv4/
4 ariverarodriguez@cis106:/proc/sys/net/ipv4$ cd -
/usr/share/icons/default
5 ariverarodriguez@cis106:/usr/share/icons/default$ ls /usr/share/backgrounds/
Blue_flower_by_Elena_Stravoravdi.jpg
canvas_by_roytanck.jpg
Cherry_Tree_in_Lakones_by_elenastravoravdi.jpg
contest
DSC2943_by_kcpru.jpg
Jammy-Jellyfish_WP_4096x2304_Grey.png
jj_dark_by_Hiking93.jpg
jj_light_by_Hiking93.jpg
Mirror_by_Uday_Nakade.jpg
Optical_Fibers_in_Dark_by_Elena_Stravoravdi.jpg
ubuntu2_by_arman1992.jpg
ubuntu_by_arman1992.jpg

6 ariverarodriguez@cis106:/usr/share/icons/default$ ls /home/ariverarodriguez/cis106/
cheatSheets  labs  weekReports
7 ariverarodriguez@cis106:/usr/share/icons/default$ cd
ariverarodriguez@cis106:~$ ls Downloads/
'Absolute Path VS Relative Path Cheat sheet.png'  practicels.tar.xz
lab4files.zip
```

```

ariverarodriguez@cis106: /dev/disk/by-id
ariverarodriguez@cis106:~$ cd /dev/disk/by-id/
ariverarodriguez@cis106:/dev/disk/by-id$ ls -la
total 2380
drwxr-x--- 25 ariverarodriguez ariverarodriguez 4096 Oct 31 21:58 .
drwxr-xr-x  3 root              root          4096 Oct 27 10:08 ..
drwx----- 2 ariverarodriguez ariverarodriguez 4096 Oct 29 23:06 .balsa
-rw----- 1 ariverarodriguez ariverarodriguez 4977 Oct 31 22:49 .bash_history
-rw-r--r-- 1 ariverarodriguez ariverarodriguez 220 Oct 27 10:08 .bash_logout
-rw-r--r-- 1 ariverarodriguez ariverarodriguez 3771 Oct 27 10:08 .bashrc
drwx----- 23 ariverarodriguez ariverarodriguez 4096 Oct 29 23:16 .cache
drwxrwxr-x  6 ariverarodriguez ariverarodriguez 4096 Oct 27 21:44 cis106
-rw-rw-r-- 1 ariverarodriguez ariverarodriguez 3520 Oct 27 22:12 .cis106.png
drwx----- 26 ariverarodriguez ariverarodriguez 4096 Oct 31 22:33 .config
-rw-rw-r-- 1 ariverarodriguez ariverarodriguez 17952 Oct 27 22:23 cosmiclatte.odt
drwxr-xr-x  3 ariverarodriguez ariverarodriguez 4096 Oct 30 01:19 Desktop
drwxr-xr-x  2 ariverarodriguez ariverarodriguez 4096 Oct 28 01:34 Documents
drwxrwxr-x  3 ariverarodriguez ariverarodriguez 4096 Oct 27 11:10 .dotnet
drwxr-xr-x  2 ariverarodriguez ariverarodriguez 4096 Oct 31 23:44 Downloads
drwxrwxr-x  2 ariverarodriguez ariverarodriguez 12288 Oct 27 23:40 .fonts
-rw-rw-r-- 1 ariverarodriguez ariverarodriguez 91 Oct 27 11:41 gitcommands.txt
-rw-rw-r-- 1 ariverarodriguez ariverarodriguez 76 Oct 27 11:28 .gitconfig
drwx----- 2 ariverarodriguez ariverarodriguez 4096 Oct 29 23:03 .gnupg
drwxrwxr-x  2 ariverarodriguez ariverarodriguez 4096 Feb 22 2022 lab4files
-rw----- 1 ariverarodriguez ariverarodriguez 20 Oct 29 23:44 .lessht
drwx----- 4 ariverarodriguez ariverarodriguez 4096 Oct 27 11:44 .local
drwx----- 2 ariverarodriguez ariverarodriguez 4096 Oct 29 23:05 mail
-rw----- 1 ariverarodriguez ariverarodriguez 0 Oct 29 23:05 mailbox
drwxr-xr-x  2 ariverarodriguez ariverarodriguez 4096 Oct 27 10:27 Music
drwxr-xr-x  2 ariverarodriguez ariverarodriguez 4096 Oct 27 23:46 Pictures
drwx----- 3 ariverarodriguez ariverarodriguez 4096 Oct 27 11:05 .pki
drwxrwxr-x  2 ariverarodriguez ariverarodriguez 4096 Feb 27 2022 practicels
-rw-rw-r-- 1 ariverarodriguez ariverarodriguez 2229212 Oct 14 11:22 practicels.tar.xz
-rw-r--r-- 1 ariverarodriguez ariverarodriguez 807 Oct 27 10:08 .profile
drwxr-xr-x  2 ariverarodriguez ariverarodriguez 4096 Oct 27 10:27 Public
drwx----- 5 ariverarodriguez ariverarodriguez 4096 Oct 27 11:02 snap
drwx----- 2 ariverarodriguez ariverarodriguez 4096 Oct 27 11:30 .ssh
-rw-r--r-- 1 ariverarodriguez ariverarodriguez 0 Oct 27 10:35 .sudo_as_admin_successful
drwxr-xr-x  2 ariverarodriguez ariverarodriguez 4096 Oct 27 10:27 Templates
-rw-r----- 1 ariverarodriguez ariverarodriguez 6 Oct 31 21:44 .vboxclient-clipboard-tty2-control.pid
-rw-r----- 1 ariverarodriguez ariverarodriguez 5 Oct 31 21:44 .vboxclient-clipboard-tty2-service.pid
-rw-r----- 1 ariverarodriguez ariverarodriguez 6 Oct 31 21:44 .vboxclient-draganddrop-tty2-control.pid
-rw-r----- 1 ariverarodriguez ariverarodriguez 5 Oct 31 21:44 .vboxclient-draganddrop-tty2-service.pid
-rw-r----- 1 ariverarodriguez ariverarodriguez 6 Oct 31 21:44 .vboxclient-hostversion-tty2-control.pid
-rw-r----- 1 ariverarodriguez ariverarodriguez 6 Oct 31 21:44 .vboxclient-seamless-tty2-control.pid
-rw-r----- 1 ariverarodriguez ariverarodriguez 5 Oct 31 21:44 .vboxclient-seamless-tty2-service.pid
-rw-r----- 1 ariverarodriguez ariverarodriguez 6 Oct 31 21:44 .vboxclient-vmtoolsd-session-tty2-control.pid
-rw-r----- 1 ariverarodriguez ariverarodriguez 5 Oct 31 21:44 .vboxclient-vmtoolsd-session-tty2-service.pid
drwxr-xr-x  2 ariverarodriguez ariverarodriguez 4096 Oct 27 10:27 Videos
drwxrwxr-x  4 ariverarodriguez ariverarodriguez 4096 Oct 27 11:05 .vscode

```

```

ariverarodriguez@cis106: /dev/disk/by-id
ariverarodriguez@cis106:/dev/disk/by-id$ ls /usr/share/themes/ -lt
total 120
drwxr-xr-x 7 root root 4096 Aug 7 18:54 Yaru
drwxr-xr-x 5 root root 4096 Aug 7 18:54 Yaru-bark
drwxr-xr-x 5 root root 4096 Aug 7 18:54 Yaru-bark-dark
drwxr-xr-x 5 root root 4096 Aug 7 18:54 Yaru-blue
drwxr-xr-x 5 root root 4096 Aug 7 18:54 Yaru-blue-dark
drwxr-xr-x 7 root root 4096 Aug 7 18:54 Yaru-dark
drwxr-xr-x 3 root root 4096 Aug 7 18:54 Yaru-dark-hdpi
drwxr-xr-x 3 root root 4096 Aug 7 18:54 Yaru-dark-xhdpi
drwxr-xr-x 3 root root 4096 Aug 7 18:54 Yaru-hdpi
drwxr-xr-x 5 root root 4096 Aug 7 18:54 Yaru-magenta
drwxr-xr-x 5 root root 4096 Aug 7 18:54 Yaru-magenta-dark
drwxr-xr-x 5 root root 4096 Aug 7 18:54 Yaru-olive
drwxr-xr-x 5 root root 4096 Aug 7 18:54 Yaru-olive-dark
drwxr-xr-x 5 root root 4096 Aug 7 18:54 Yaru-prussiangreen
drwxr-xr-x 5 root root 4096 Aug 7 18:54 Yaru-prussiangreen-dark
drwxr-xr-x 5 root root 4096 Aug 7 18:54 Yaru-purple
drwxr-xr-x 5 root root 4096 Aug 7 18:54 Yaru-purple-dark
drwxr-xr-x 5 root root 4096 Aug 7 18:54 Yaru-red
drwxr-xr-x 5 root root 4096 Aug 7 18:54 Yaru-red-dark
drwxr-xr-x 5 root root 4096 Aug 7 18:54 Yaru-sage
drwxr-xr-x 5 root root 4096 Aug 7 18:54 Yaru-sage-dark
drwxr-xr-x 5 root root 4096 Aug 7 18:54 Yaru-viridian
drwxr-xr-x 5 root root 4096 Aug 7 18:54 Yaru-viridian-dark
drwxr-xr-x 3 root root 4096 Aug 7 18:54 Yaru-xhdpi
drwxr-xr-x 4 root root 4096 Aug 7 18:54 Default
drwxr-xr-x 4 root root 4096 Aug 7 18:54 Emacs
drwxr-xr-x 3 root root 4096 Aug 7 18:54 Raleigh
drwxr-xr-x 4 root root 4096 Aug 7 18:54 Adwaita
drwxr-xr-x 4 root root 4096 Aug 7 18:54 Adwaita-dark
drwxr-xr-x 4 root root 4096 Aug 7 18:54 HighContrast

```

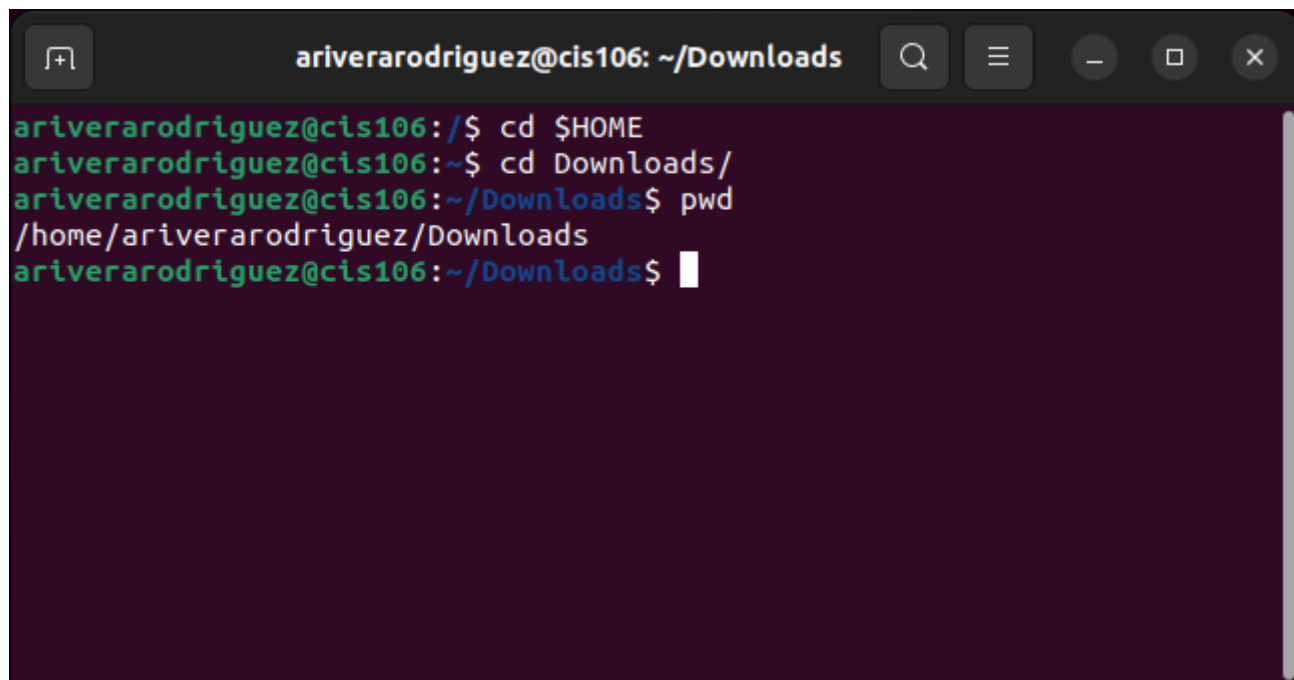


```

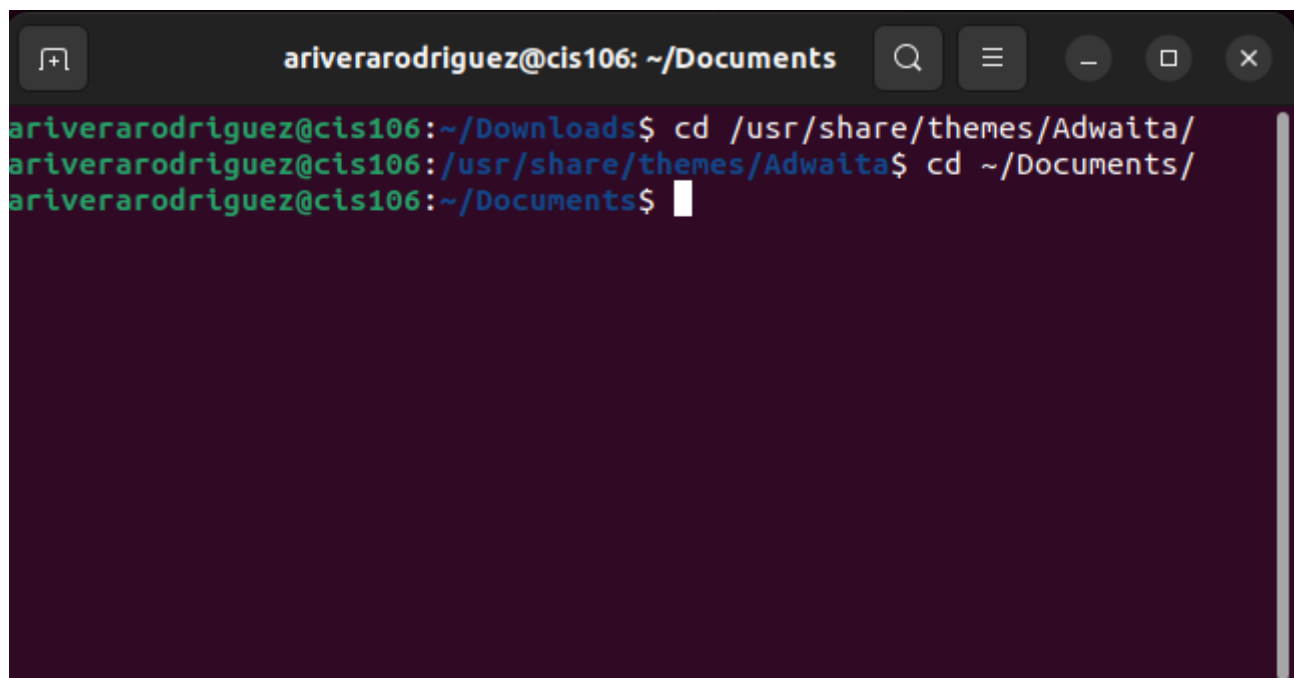
ariverarodriguez@cis106: /dev/disk/by-id
ls /usr/share/ -X
accountsservice      gcc                  libgnomekbd          rygel
aclocal              GConf               libgweather          samba
acpi-support         gdb                 libgweather-4        seahorse
adduser              gdm                 libinput              secureboot
aisleriot            geany               liblangtag            sensible-utils
alacarte             gedit              liblouis              session-migration
alsa                 GeoIP               liblouisutdm1         sgml
alsa-base            gettext            libmysofa             sgml-base
alsa-card-profile    ghostscript         libreoffice           sgml-data
appdata              git-core            librevenge            snmp
app-info             gitweb              libthai               software-properties
applications         glade               libwacom              solid
appport              glvnd               lintian               sounds
apps                 gnome               linux-sound-base      source-highlight
apturl               gnome-applets       locale                speech-dispatcher
aspell               gnome-background-properties locale                 ssl-cert
astroid              gnome-bluetooth     locale-langpack       system-config-printer
avahi                gnome-control-center locales                systemd
backgrounds          gnome-initial-setup lto-disabled-list     systemtap
balsa                gnome-logs           m2300w                tabset
base-files            gnome-mahjongg       man                   tcltk
base-passwd          gnome-panel          man-db                 terminfo
bash-completion      gnome-remote-desktop mate-panel             tex-common
binfmts              gnome-session        maven-repo            texlive
branding              gnome-settings-daemon media-player-info      texmf
brltty               gnome-shell          menu                   themes
bug                  gnome-software       mesa-demos             thumbnailers
build-essential      gnome-system-monitor metainfo               tilix
ca-certificates      gnome-todo           mfx                    totem
caffeine-indicator   gnome-tweaks         mime                   tracker3
catdoc               gnome-video-effects  misc                   tracker3-miners
cmake                 gnupg                mobile-broadband-provider-info transmission
code                  grilo-plugins        ModemManager           ubuntu
cogl                  groff                mousetweaks            ubuntu-drivers-common
color                grub                 mythes                 ubuntu-release-upgrader
colord                grub-gfxpayload-lists nano                    ubuntu-wayland
common-licenses      gst-plugins-base    nautilus                ucf
consolefonts         gtk-doc              nautilus-python        ufw
console-setup        gtk-engines          nautilus-share          unattended-upgrades
consoletrans         gtksourceview-4      nemo                   unity
cowsay               guile                netpbm                 update-manager
cups                  gupnp-av             netplan                 update-notifier
dbus-1                gvfs                 nginx                   upstart
dconf                 help                  numpy3                  usb-creator
debconf              help-langpack        open-vm-tools           usb_modeswitch
debhelper             hplip                openvpn                 vala
debianutils          hunspell              orca                    vim

```

Challenge Question 5



```
ariverarodriguez@cis106: ~/Downloads
ariverarodriguez@cis106:/$ cd $HOME
ariverarodriguez@cis106:~$ cd Downloads/
ariverarodriguez@cis106:~/Downloads$ pwd
/home/ariverarodriguez/Downloads
ariverarodriguez@cis106:~/Downloads$
```



```
ariverarodriguez@cis106:~/Downloads$ cd /usr/share/themes/Adwaita/
ariverarodriguez@cis106:/usr/share/themes/Adwaita$ cd ~/Documents/
ariverarodriguez@cis106:~/Documents$
```