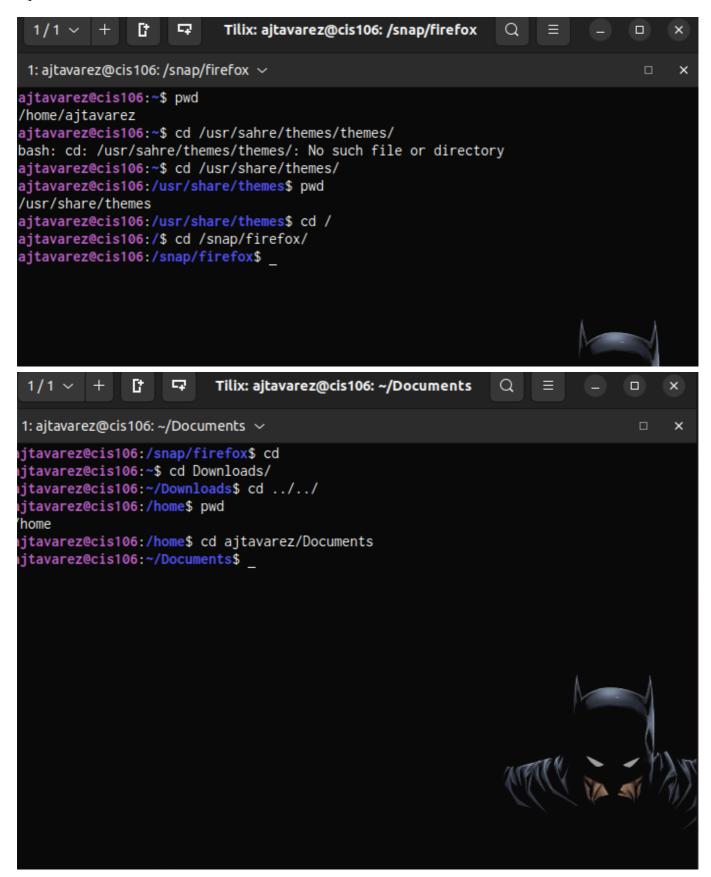
## Lab 4 The Linux FS

## Question 1



```
Tilix: ajtav
1/1 ~
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                   먁
1: ajtavarez@cis106: ~/lab4files 🗸
                                                                      A] 🗆
jtavarez@cis106:~/Documents$ cd /usr/share/
jtavarez@cis106:<mark>/usr/share$</mark> ls /home/ajtavarez/lab4files/
ountries.json document.docx helloWorld.c sample.xls Ubuntu.pdf
svfile.csv
              globe.avi
                             Linux.pdf
                                            Tux.png
                                                        website.html
itavarez@cis106:/usr/share$ cd ~/lab4files/
tavarez@cis106:~/lab4files$ ls -l
otal 6580
rw-rw-r-- 1 ajtavarez ajtavarez
                                 20471 Feb 22
                                               2022 countries.json
rw-rw-r-- 1 ajtavarez ajtavarez 284042 Feb 22
                                                2022 csvfile.csv
rw-rw-r-- 1 ajtavarez ajtavarez 764176 Feb 22 2022 document.docx
w-rw-r-- 1 ajtavarez ajtavarez 742478 Feb 22
                                                2022 globe.avi
                                     76 Feb 22
                                                2022 helloWorld.c
rw-rw-r-- 1 ajtavarez ajtavarez
rw-rw-r-- 1 ajtavarez ajtavarez 2600138 Feb 22
                                                2022 Linux.pdf
rw-rw-r-- 1 ajtavarez ajtavarez 8704 Feb 22
                                                2022 sample.xls
w-rw-r-- 1 ajtavarez ajtavarez 42777 Feb 22
                                                2022 Tux.png
rw-rw-r-- 1 ajtavarez ajtavarez 2114053 Feb 22
                                                2022 Ubuntu.pdf
rw-rw-r-- 1 ajtavarez ajtavarez 137453 Feb 22
                                                2022 website.html
jtavarez@cis106:~/lab4files$ ls -lh
otal 6.5M
rw-rw-r-- 1 ajtavarez ajtavarez 20K Feb 22
                                             2022 countries.json
rw-rw-r-- 1 ajtavarez ajtavarez 278K Feb 22
                                             2022 csvfile.csv
rw-rw-r-- 1 ajtavarez ajtavarez 747K Feb 22
                                             2022 document.docx
rw-rw-r-- 1 ajtavarez ajtavarez 726K Feb 22
                                             2022 globe.avi
rw-rw-r-- 1 ajtavarez ajtavarez
                                 76 Feb 22
                                             2022 helloWorld.c
w-rw-r-- 1 ajtavarez ajtavarez 2.5M Feb 22
                                             2022 Linux.pdf
w-rw-r-- 1 ajtavarez ajtavarez 8.5K Feb 22
                                             2022 sample.xls
rw-rw-r-- 1 ajtavarez ajtavarez 42K Feb 22
                                             2022 Tux.png
                                             2022 Ubuntu.pdf
w-rw-r-- 1 ajtavarez ajtavarez 2.1M Feb 22
w-rw-r-- 1 ajtavarez ajtavarez 135K Feb 22
                                             2022 website.html
                  다
                                                                  Tilix: ajtavarez@d
1/1 ~ | +
                                                                      A
1: ajtavarez@cis106: ~/lab4files 🗸
                                                                              ×
w-rw-r-- 1 ajtavarez ajtavarez 2.1M Feb 22 2022 Ubuntu.pdf
w-rw-r-- 1 ajtavarez ajtavarez 135K Feb 22 2022 website.html
tavarez@cis106:~/lab4files$ ls -lhS
otal 6.5M
w-rw-r-- 1 ajtavarez ajtavarez 2.5M Feb 22 2022 Linux.pdf
w-rw-r-- 1 ajtavarez ajtavarez 2.1M Feb 22
                                            2022 Ubuntu.pdf
w-rw-r-- 1 ajtavarez ajtavarez 747K Feb 22 2022 document.docx
w-rw-r-- 1 ajtavarez ajtavarez 726K Feb 22 2022 globe.avi
w-rw-r-- 1 ajtavarez ajtavarez 278K Feb 22
                                            2022 csvfile.csv
w-rw-r-- 1 ajtavarez ajtavarez 135K Feb 22 2022 website.html-
w-rw-r-- 1 ajtavarez ajtavarez 42K Feb 22
                                            2022 Tux.png
w-rw-r-- 1 ajtavarez ajtavarez 20K Feb 22 2022 countries.json
w-rw-r-- 1 ajtavarez ajtavarez 8.5K Feb 22 2022 sample.xls
w-rw-r-- 1 ajtavarez ajtavarez   76 Feb 22 2022 helloWorld.c
jtavarez@cis106:~/lab4files$ ls -lhSgG
otal 6.5M
w-rw-r-- 1 2.5M Feb 22
                        2022 Linux.pdf
w-rw-r-- 1 2.1M Feb 22
                        2022 Ubuntu.pdf
w-rw-r-- 1 747K Feb 22
                        2022 document.docx
```

```
w-rw-r-- 1 /26K Feb 22 2022 globe.avi
w-rw-r-- 1 278K Feb 22
                       2022 csvfile.csv
w-rw-r-- 1 135K Feb 22 2022 website.html
w-rw-r-- 1 42K Feb 22
                       2022 Tux.png
w-rw-r-- 1 20K Feb 22
                       2022 countries.json
w-rw-r-- 1 8.5K Feb 22
                       2022 sample.xls
            76 Feb 22 2022 helloWorld.c
tavarez@cis106:~/lab4files$ ls -Xr
ample.xls Ubuntu.pdf countries.json document.docx
                                                    helloWorld.c
                                     csvfile.csv
ıx.png
          Linux.pdf
                     website.html
                                                    globe.avi
jtavarez@cis106:~/lab4files$ ls -Xr
ample.xls Ubuntu.pdf countries.json document.docx helloWorld.c
          Linux.pdf website.html
                                      csvfile.csv
                                                     globe.avi
jtavarez@cis106:~/lab4files$ ls -Xrl
otal 6580
rw-rw-r-- 1 ajtavarez ajtavarez
                                  8704 Feb 22
                                               2022 sample.xls
rw-rw-r-- 1 ajtavarez ajtavarez
                                 42777 Feb 22
                                               2022 Tux.png
rw-rw-r-- 1 ajtavarez ajtavarez 2114053 Feb 22
                                               2022 Ubuntu.pdf
rw-rw-r-- 1 ajtavarez ajtavarez 2600138 Feb 22
                                               2022 Linux.pdf
rw-rw-r-- 1 ajtavarez ajtavarez
                                 20471 Feb 22
                                               2022 countries.json
rw-rw-r-- 1 ajtavarez ajtavarez 137453 Feb 22
                                               2022 website.html
rw-rw-r-- 1 ajtavarez ajtavarez 764176 Feb 22
                                               2022 document.docx
rw-rw-r-- 1 ajtavarez ajtavarez 284042 Feb 22 2022 csvfile.csv
                                    76 Feb 22
                                               2022 helloWorld.c
rw-rw-r-- 1 ajtavarez ajtavarez
rw-rw-r-- 1 ajtavarez ajtavarez 742478 Feb 22 2022 globe.avi
jtavarez@cis106:~/lab4files$
```

## Question 4

```
1: ajtavarez@cis106: /usr/share ~
                                                                                                AĬ □
ajtavarez@cis106:~$ pwd
/home/ajtavarez
ajtavarez@cis106:~$ cd /usr/share/icons/default
ajtavarez@cis106:/usr/share/icons/default$ cd ../../
ajtavarez@cis106:/usr/share$ cd
ajtavarez@cis106:~$ cd /proc/sys/net/ipv4
ajtavarez@cis106:/proc/sys/net/ipv4$ cd
ajtavarez@cis106:~$ ls /usr/share/bakgrounds/
ls: cannot access '/usr/share/bakgrounds/': No such file or directory
ajtavarez@cis106:~$ ls /usr/share/bakgrounds
ls: cannot access '/usr/share/bakgrounds': No such file or directory
ajtavarez@cis106:~$ ls /usr/share/backgrounds
Blue_flower_by_Elena_Stravoravdi.jpg
                                          jj_light_by_Hiking93.jpg
                                          Mirror_by_Uday_Nakade.jpg
Optical_Fibers_in_Dark_by_Elena_Stravoravdi.jpg
canvas_by_roytanck.jpg
Cherry_Tree_in_Lakones_by_elenastravoravdi.jpg
                                          ubuntu2_by_arman1992.jpg
contest
DSC2943_by_kcpru.jpg
                                          ubuntu_by_arman1992.jpg
Jammy-Jellyfish_WP_4096x2304_Grey.png
                                          ubuntu-default-greyscale-wallpaper.png
jj_dark_by_Hiking93.jpg
                                          warty-final-ubuntu.png
ajtavarez@cis106:~$ ls /home/ajtavarez/cis106/
ajtavarez@cis106:~$ pwd/
bash: pwd/: No such file or directory
ajtavarez@cis106:~$ pwd
/home/ajtavarez
ajtavarez@cis106:~$ ls /home/ajtavarez/Downloads/
Games lab4files.zip myfiles 'question 3'
                                           texture.txt
ajtavarez@cis106:~$ cd /dev/disk/by-id
ajtavarez@cis106:/dev/disk/by-id$ ls -la ~
total 3128
drwxr-x--- 25 ajtavarez ajtavarez
                                         4096 Oct 28 10:04
                                         4096 Sep 26 19:19
drwxr-xr-x 3 root
                          root
                                            0 Oct 26 18:17
             1 ajtavarez ajtavarez
             1 ajtavarez ajtavarez
                                            0 Oct 26 18:18
                                                              2
rw-rw-r--
                                            0 Oct 26 18:18
rw-rw-r--
             1 ajtavarez ajtavarez
                                         3976 Oct 27 22:23
             1 ajtavarez ajtavarez
                                                              .bash_history
rw-r--r--
             1 ajtavarez ajtavarez
                                          220 Sep 26 19:19
                                                              .bash_logout
                                         3771 Sep 26 19:19
             1 ajtavarez ajtavarez
                                                              .bashrc
drwx----- 23 ajtavarez ajtavarez
                                         4096 Oct 14 18:19
                                                              .cache
                                         4096 Oct 15 09:31
            6 ajtavarez ajtavarez
                                                              cis106
                                          111 Oct 5 18:12
             1 ajtavarez ajtavarez
                                                             'cis 106 notes'
rw-rw-r--
                                         3520 Oct 11 21:37
rw-rw-r-- 1 ajtavarez ajtavarez
                                                              .cis106.png
                                         4096 Oct 27 22:01
drwx----- 26 ajtavarez ajtavarez
                                                              .config
                                         4096 Oct 15 09:30
drwxr-xr-x 2 ajtavarez ajtavarez
                                                              Desktop
drwxr-xr-x 3 ajtavarez ajtavarez
                                         4096 Oct 26 18:32
                                                              Documents
                                         4096 Oct 19 18:39
drwxrwxr-x
             7 ajtavarez ajtavarez
                                                              dominos
drwxrwxr-x 3 ajtavarez ajtavarez
                                         4096 Sep 26 20:10
                                                              .dotnet
                                         4096 Oct 27 21:44
drwxr-xr-x 4 ajtavarez ajtavarez
                                                              Downloads
             1 ajtavarez ajtavarez
                                            0 Oct 26 18:23
                                                              file1
rw-rw-r--
                                            0 Oct 26 18:23
                                                              file2
             1 ajtavarez ajtavarez
rw-rw-r--
                                            0 Oct 26 18:23
                                                              file3
             1 ajtavarez ajtavarez
rw-rw-r--
             2 ajtavarez ajtavarez
                                        20480 Oct 14 14:57
                                                              . fonts
drwxrwxr-x
             1 ajtavarez ajtavarez
                                           87 Sep 30 14:46
                                                              gitcommands.txt
rw-rw-r--
                                           61 Sep 30 14:19
rw-rw-r--
             1 ajtavarez ajtavarez
                                                              .gitconfig
             2 ajtavarez ajtavarez
                                         4096 Oct 12 16:55
                                                              .gnupg
             1 ajtavarez ajtavarez
                                            0 Sep 28 17:59
                                                              .hidden_file
rw-rw-r--
                                         4096 Feb 22 2022
                                                              lab4files
             2 ajtavarez ajtavarez
drwxrwxr-x
                                           20 Oct 14 21:21
             1 ajtavarez ajtavarez
                                                              .lesshst
                                                              .local
                                         4096 Sep 30 15:06
drwx----
             4 ajtavarez ajtavarez
drwxr-xr-x
             2 ajtavarez ajtavarez
                                         4096 Oct 26 18:37
                                                              Music
                                         4096 Oct 19 18:50
             2 ajtavarez ajtavarez
drwxrwxr-x
                                                              myproject
                                            0 Oct 26 18:11
rw-rw-r--
             1 ajtavarez ajtavarez
                                                              orange
drwxr-xr-x 3 ajtavarez ajtavarez
                                         4096 Oct 19 18:46
                                                              Pictures
                                                              .pki
                                         4096 Sep 26 20:09
            3 ajtavarez ajtavarez
```

```
-rw-rw-r-- 1 ajtavarez ajtavarez 3000320 Oct 12 18:35 practicels.tar
-rw-r--r-- 1 ajtavarez ajtavarez 807 Sep 26 19:19 .profile
drwxr-xr-x 2 ajtavarez ajtavarez 4096 Sep 26 19:26 Public
drwx----- 5 ajtavarez ajtavarez 4096 Sep 26 20:02 snap
drwx----- 2 ajtavarez ajtavarez 4096 Sep 26 22:28 .ssh
-rw-r--- 1 ajtavarez ajtavarez 0 Sep 26 19:37 .sudo_as_admin_successful
-rw-rw-r-- 2 ajtavarez ajtavarez 0 Oct 26 18:36 sunflower.mp3
```

```
jtavarez@cis106:~$ cd /usr/share/themes
ajtavarez@cis106:/usr/share/themes$ ls -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
                               7 18:54 Yaru-prussiangreen-dark
drwxr-xr-x 5 root root 4096 Aug
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
                               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
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
                               7 18:54 Default
drwxr-xr-x 4 root root 4096 Aug
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
```

ajtavarez@cis106:/usr/share/themes\$ cd ../ ajtavarez@cis106:/usr/share\$ ls -X ccountsservice libc-bin libdebuginfod-common rubygems-integration libgnomekbd libgweather geary samba liblangtag alsa-card-profile sensible-utils appdata ghostscript session-migration git-core sgml sgml-base sgml-data snmp software-properties gmpc gnome gnome-applets gnome-background-properties source-highlight ackgrounds gnome-bluetooth ase-files speech-dispatcher gnome-control-center ase-passwd locale-langpack system-config-printer gnome-logs gnome-mahjongg randing lto-disabled-list gnome-panel tabset ug uild-essential gnome-remote-desktop gnome-session man-db a-certificates gnome-settings-daemon mate-panel tex-com affeine-indicator gnome-software media-player-info gnome-todo mesa-demos gnome-tweaks gnome-video-effects grilo-plugins groff mobile-broadband-provider-info onsole-setup grub-gfxpayload-lists ubuntu-drivers-common gst-plugins-base ubuntu-release-upgrader ubuntu-wayland gtk-doc

1: ajtavarez@cis106: ~ ~ onsoletrans grub-gfxpayload-lists ubuntu-drivers-common ubuntu-release-upgrader gtk-engines lbus-1 unattended-upgrades nautilus-share ebconf ebhelper gupnp-av update-manager esktop-directories help-langpack upstart ict hplip usb\_modeswitch listro-info hwdata os-prober nsmasq-base ibus oc-base wayland-sessions pkg ImageMagick-6 pam-configs indicator-application nacsen-common xdg-desktop-portal perl-openssl-defaults nchant-2 piphany-browser initramfs-tools pkgconfig installed-tests volution-data-server ipp-usb ile-roller iso-codes zoneinfo-icu latpak kconf\_update ontconfig gnome-bluetooth-3.0 onts-droid-fallback python3 onts-sil-abyssinica gtk-4.0 python-apt oo2qpdl qlogging-categories5 gupnp-dlna-2.0 language-support org.gnome.Characters language-tools rhythmbox ijtavarez@cis106:/usr/share\$ cd ../../ ijtavarez@cis106:/\$ cd jtavarez@cis106:~\$

## Question 5

```
ajtavarez@cis106:~$ cd /usr/share/themes/Adwaita
ajtavarez@cis106:/usr/share/themes/Adwaita$ cd
ajtavarez@cis106:~$ cd /home/ajtavarez/Documents
ajtavarez@cis106:~/Documents$ pwd
/home/ajtavarez/Documents
ajtavarez@cis106:~/Documents$ _
```