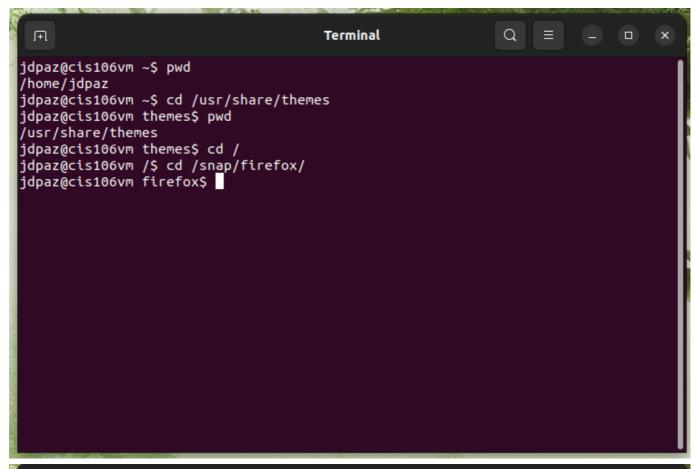
# Lab 4 - The Linux Filesystem

### Question 1



```
idpaz@cis106vm firefox$ cd ~
idpaz@cis106vm ~$ cd Downloads/
idpaz@cis106vm Downloads$ cd ../../
idpaz@cis106vm home$ pwd
/home
idpaz@cis106vm home$ cd idpaz/Documents/
idpaz@cis106vm Documents$
```

### Question 2

```
jdpaz@cis106vm Documents$ cd /usr/share/
jdpaz@cis106vm share$ ls /home/jdpaz/lab4files/
                                                         Ubuntu.pdf
countries.json document.docx helloWorld.c sample.xls
csvfile.csv
                globe.avi
                               Linux.pdf
                                             Tux.png
                                                         website.html
jdpaz@cis106vm share$ cd ~/lab4files/
jdpaz@cis106vm lab4files$ ls -lh
total 6.5M
-rw-rw-r-- 1 jdpaz jdpaz 20K Feb 22
                                      2022 countries.json
-rw-rw-r-- 1 jdpaz jdpaz 278K Feb 22
                                      2022 csvfile.csv
-rw-rw-r-- 1 jdpaz jdpaz 747K Feb 22
                                      2022 document.docx
-rw-rw-r-- 1 jdpaz jdpaz 726K Feb 22
                                      2022 globe.avi
rw-rw-r-- 1 jdpaz jdpaz 76 Feb 22
                                      2022 helloWorld.c
rw-rw-r-- 1 jdpaz jdpaz 2.5M Feb 22
                                      2022 Linux.pdf
rw-rw-r-- 1 jdpaz jdpaz 8.5K Feb 22
                                      2022 sample.xls
-rw-rw-r-- 1 jdpaz jdpaz 42K Feb 22
                                      2022 Tux.png
-rw-rw-r-- 1 jdpaz jdpaz 2.1M Feb 22
                                      2022 Ubuntu.pdf
-rw-rw-r-- 1 jdpaz jdpaz 135K Feb 22
                                      2022 website.html
jdpaz@cis106vm lab4files$ ls -lhS
total 6.5M
-rw-rw-r-- 1 jdpaz jdpaz 2.5M Feb 22
                                      2022 Linux.pdf
-rw-rw-r-- 1 jdpaz jdpaz 2.1M Feb 22
                                      2022 Ubuntu.pdf
rw-rw-r-- 1 jdpaz jdpaz 747K Feb 22
                                      2022 document.docx
rw-rw-r-- 1 jdpaz jdpaz 726K Feb 22
                                      2022 globe.avi
                                      2022 csvfile.csv
-rw-rw-r-- 1 idpaz idpaz 278K Feb 22
                                      2022 website.html
-rw-rw-r-- 1 jdpaz jdpaz 135K Feb 22
-rw-rw-r-- 1 jdpaz jdpaz
                         42K Feb 22
                                      2022 Tux.png
-rw-rw-r-- 1 jdpaz jdpaz 20K Feb 22
                                      2022 countries.json
-rw-rw-r-- 1 jdpaz jdpaz 8.5K Feb 22
                                      2022 sample.xls
-rw-rw-r-- 1 jdpaz jdpaz
                                      2022 helloWorld.c
                          76 Feb 22
jdpaz@cis106vm lab4files$ ls -lhSgGi
total 6.5M
2404563 -rw-rw-r-- 1 2.5M Feb 22
                                  2022 Linux.pdf
2404572 -rw-rw-r-- 1 2.1M Feb 22
                                  2022 Ubuntu.pdf
2404605 -rw-rw-r-- 1 747K Feb 22
                                  2022 document.docx
2404606 -rw-rw-r-- 1 726K Feb 22
                                  2022 globe.avi
2404604 -rw-rw-r-- 1 278K Feb 22
                                  2022 csvfile.csv
2404621 -rw-rw-r-- 1 135K Feb 22
                                  2022 website.html
2404566 -rw-rw-r-- 1 42K Feb 22
                                 2022 Tux.png
2404603 -rw-rw-r-- 1 20K Feb 22
                                  2022 countries.json
2404620 -rw-rw-r-- 1 8.5K Feb 22
                                  2022 sample.xls
                       76 Feb 22
                                  2022 helloWorld.c
2404607 -rw-rw-r-- 1
jdpaz@cis106vm lab4files$ ls -Xr
                      countries.json
                                                       helloWorld.c
sample.xls Ubuntu.pdf
                                        document.docx
            Linux.pdf
                        website.html
                                        csvfile.csv
                                                       globe.avi
Tux.png
jdpaz@cis106vm lab4files$
```

## Question 4

```
jdpaz@cis106vm ~$ pwd
/home/jdpaz
jdpaz@cis106vm ~$ cd /usr/share/icons/default
jdpaz@cis106vm default$ cd /proc/sys/net/ipv4
jdpaz@cis106vm ipv4$ cd
/usr/share/icons/default
jdpaz@cis106vm default$ 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
                                                  ubuntu_by_arman1992.jpg
DSC2943_by_kcpru.jpg
Jammy-Jellyfish_WP_4096x2304_Grey.png
                                                  ubuntu-default-greyscale-wallpaper.png
j_dark_by_Hiking93.jpg
                                                  warty-final-ubuntu.png
jdpaz@cis106vm default$ ls ~
jdpaz@cis106vm default$ ls ~/cis106
jdpaz@cis106vm default$ cd /home
jdpaz@cis106vm home$ ls jdpaz/Downloads/
                                   file2link
file1
                                                              question1.1.png question3.png
file2
                                                              question1.2.png
                                                                                question4.png
jdpaz@cis106vm home$ cd /dev/disk/by-id
```

```
jdpaz@cis106vm by-id$ ls -la /home/jdpaz
total 164
drwxr-x--- 25 jdpaz jdpaz 4096 Mar 28 21:10
drwxr-xr-x
            3 root
                     root 4096 Feb
                                      7 02:08
            3 jdpaz jdpaz 4096 Mar 14 18:45 <u>Backup</u>
drwxrwxr-x
            1 jdpaz jdpaz 7610 Mar 28 14:10 .bash_history
            1 jdpaz jdpaz
                                      7 02:08
- - - - - - W - F - - F - -
                           220 Feb
                                              .bash_logout
            1 jdpaz jdpaz 3790 Mar 28
- - - - - - W - F - - F - -
                                        00:17
                                               .bashrc
            1 jdpaz jdpaz 3771 Mar
                                      9 23:08 .bashrc.bak
- FW - F - - F - -
                                      9 23:41
drwx----- 21 jdpaz jdpaz 4096 Mar
            6 jdpaz jdpaz 4096 Mar
                                      9 00:10
drwxrwxr-x
            1 jdpaz jdpaz 3520 Mar
                                      б
                                        23:01
- - W - FW - F - -
                                               .cis106.png
drwx----- 27 jdpaz jdpaz 4096 Mar 28
                                        13:52
            3 jdpaz jdpaz 4096 Mar 28 00:35 Desktop
drwxr-xr-x
drwx-----
            2 jdpaz jdpaz 4096 Mar
                                      8
                                        00:50
            4 jdpaz jdpaz 4096 Mar 14 18:55 Documents
drwxr-xr-x
            3 jdpaz jdpaz 4096 Feb
                                      7 23:54
drwxrwxr-x
            7 jdpaz jdpaz 4096 Mar 28 13:38 Downloads
drwxr-xr-x
            3 jdpaz jdpaz 4096 Mar
drwx-----
                                      8 00:05
                                      7
            2 jdpaz jdpaz 4096 Mar
                                        00:33
drwxrwxr-x
            1 jdpaz jdpaz
                              59 Feb
                                      8
                                        00:56
.gitconfig
            2 jdpaz jdpaz 4096 Mar
drwx-----
                                      8
                                        00:12
            2 jdpaz jdpaz 4096 Feb 22
                                          2022 lab4files
drwxrwxr-x
            1 jdpaz jdpaz
                              20 Mar 28 00:31
                                              .lesshst
            4 jdpaz jdpaz 4096 Feb
drwx-----
                                      8 01:43
            2 jdpaz jdpaz 4096 Feb
                                      7
                                        02:15 Music
drwxr-xr-x
            4 jdpaz jdpaz 4096 Mar 28 13:51 Pictures
drwxr-xr-x
            3 jdpaz jdpaz 4096 Feb
                                      7 23:51
            1 jdpaz jdpaz
                            807 Feb
                                      7 02:08
                                               .profile
- - W - C - - C - -
            2 jdpaz jdpaz 4096 Feb
                                      7 02:15 Public
drwxr-xr-x
                                      7 23:49 snap
            5 jdpaz jdpaz 4096 Feb
drwx-----
drwx-----
            2 jdpaz jdpaz 4096 Mar
                                     28 01:11
            1 jdpaz jdpaz
                                Feb
                                        22:28
- - W - C - - C - -
                               0
                                               .sudo_as_admin_successful
                                      7 02:15 Template:
            2 jdpaz jdpaz 4096 Feb
drwxr-xr-x
            1 jdpaz jdpaz
                               5 Mar 28 21:10 .vboxclient-clipboard.pid
            1 jdpaz jdpaz
                               5 Mar 28
                                        21:10 .vboxclient-draganddrop.pid
            1
               jdpaz jdpaz
                               5 Mar 28 21:10 .vboxclient-seamless.pid
                               5 Mar 28 21:10 .vboxclient-vmsvga-session-tty2.pid
            1 jdpaz jdpaz
· FW - F - - - -
drwxr-xr-x
            4 jdpaz jdpaz 4096 Mar
                                      7 18:54 Videos
            1 jdpaz jdpaz 9844 Mar 28 00:17 .viminfo
```

# 

### Question 5

