Lab 4 The linux FS

Question 1

```
Ħ
                              atovar@cis106: /snap/firefox
                                                            Q
                                                                           atovar@cis106:~$ pwd
/home/atovar
atovar@cis106:~$ cd /usr/share/themes
atovar@cis106:/usr/share/themes$ pwd
/usr/share/themes
atovar@cis106:/usr/share/themes$ cd /
atovar@cis106:/$ cd /snap/firefox/
atovar@cis106:/snap/firefox$
 F
                             atovar@cis106: ~/Documents
                                                            Q
                                                                           atovar@cis106:/snap/firefox$ cd
atovar@cis106:~$ cd Downloads/
atovar@cis106:~/Downloads$ cd ../../
atovar@cis106:/home$ pwd
/home
atovar@cis106:/home$ cd atovar/Documents/
atovar@cis106:~/Documents$
```

Question 2

```
atovar@cis
                                                  atovar@cis106: ~/lab4files
atovar@cis106:~/Documents$ cd /usr/share/
atovar@cis106:/usr/share$ ls /home/atovar/lab4files/
countries.json document.docx helloWorld.c sample.xls Ubuntu.pdf
                                   Linux.pdf
csvfile.csv
                  globe.avi
                                                                   website.html
atovar@cis106:/usr/share$ cd ~/lab4files/
atovar@cis106:~/lab4files$ ls -l
total 6580
 rw-rw-r-- 1 atovar atovar 20471 Feb 22 2022 countries.json
 rw-rw-r-- 1 atovar atovar 284042 Feb 22 2022 csvfile.csv
 rw-rw-r-- 1 atovar atovar 764176 Feb 22
                                                  2022 document.docx
 rw-rw-r-- 1 atovar atovar
                                742478 Feb 22
                                                  2022 globe.av
-rw-rw-r-- 1 atovar atovar
                                     76 Feb 22
                                                  2022 helloWorld.c
 rw-rw-r-- 1 atovar atovar 2600138 Feb 22
                                                  2022 Linux.pdf
                                  8704 Feb 22
rw-rw-r-- 1 atovar atovar
                                                  2022 sample.xls
 rw-rw-r-- 1 atovar atovar
                                 42777 Feb 22
                                                  2022 Tux.png
rw-rw-r-- 1 atovar atovar 2114053 Feb 22
                                                  2022 Ubuntu.pdf
 rw-rw-r-- 1 atovar atovar 137453 Feb 22
                                                  2022 website.html
atovar@cis106:~/lab4files$ ls -lh
total 6.5M
-rw-rw-r-- 1 atovar atovar 20K Feb 22
                                              2022 countries.json
 rw-rw-r-- 1 atovar atovar 278K Feb 22
                                              2022 csvfile.csv
 rw-rw-r-- 1 atovar atovar 747K Feb 22
                                               2022 document.docx
 rw-rw-r-- 1 atovar atovar 726K Feb 22
                                              2022 globe.av
 rw-rw-r-- 1 atovar atovar
                                              2022 helloWorld.c
                                76 Feb 22
                                               2022 Linux.pdf
 rw-rw-r-- 1 atovar atovar 2.5M Feb 22
 rw-rw-r-- 1 atovar atovar 8.5K Feb 22
                                               2022 sample.xls
-rw-rw-r-- 1 atovar atovar 42K Feb 22
                                               2022 Tux.png
 rw-rw-r-- 1 atovar atovar 2.1M Feb 22
                                               2022 Ubuntu.pdf
-rw-rw-r-- 1 atovar atovar 135K Feb 22
                                               2022 website.html
atovar@cis106:~/lab4files$ ls -lhS
total 6.5M
 rw-rw-r-- 1 atovar atovar 2.5M Feb 22
                                               2022 Linux.pdf
rw-rw-r-- 1 atovar atovar 2.1M Feb 22
rw-rw-r-- 1 atovar atovar 747K Feb 22
                                              2022 Ubuntu.pdf
                                               2022 document.docx
-rw-rw-r-- 1 atovar atovar 726K Feb 22
                                              2022 globe.av
 rw-rw-r-- 1 atovar atovar 278K Feb 22
                                               2022 csvfile.csv
 rw-rw-r-- 1 atovar atovar 135K Feb 22
                                               2022 website.html
 rw-rw-r-- 1 atovar atovar
                               42K Feb 22
                                               2022 Tux.png
 rw-rw-r-- 1 atovar atovar 20K Feb 22
                                               2022 countries.json
 rw-rw-r-- 1 atovar atovar 8.5K Feb 22
                                               2022 sample.xls
rw-rw-r-- 1 atovar atovar
                                76 Feb 22
                                               2022 helloWorld.c
 tovar@cis106:~/lab4files$ ls -lhSqG
total 6.5M
 rw-rw-r-- 1 2.5M Feb 22
                        2022 Linux.pdf
rw-rw-r-- 1 2.1M Feb 22
rw-rw-r-- 1 747K Feb 22
                         2022 Ubuntu.pdf
                         2022 document.docx
 rw-rw-r-- 1
            726K Feb 22
                        2022 glob
            278K Feb 22
                         2022 csvfile.csv
 rw-rw-r-- 1
 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 countries.js
rw-rw-r-- 1 8.5K Feb 22 2022 sample.xls
rw-rw-r-- 1 76 Feb 22 2022 helloWorld.c
atovar@cis106:~/lab4files$ ls -lhSgGi
total 6.5M
1204283 -rw-rw-r-- 1 2.5M Feb 22 2022 Linux.pdf
1204285 -rw-rw-r-- 1 2.1M Feb 22 2022 Ubuntu.pdf
1204288 -rw-rw-r-- 1 747K Feb 22
                                 2022 document.docx
1204289 -rw-rw-r-- 1 726K Feb 22
                                 2022 globe.
                                 2022 csvfile.csv
1204287 -rw-rw-r-- 1 278K Feb 22
1204292 -rw-rw-r-- 1 135K Feb 22 2022 website.html
1204284 -rw-rw-r-- 1 42K Feb 22
1204286 -rw-rw-r-- 1 20K Feb 22
1204291 -rw-rw-r-- 1 8.5K Feb 22
                                2022 Tux.
                                 2022 countries.json
                                 2022 sample.xl
1204290 -rw-rw-r-- 1 76 Feb 22
atovar@cis106:~/lab4files$ ls -Xr
                                 2022 helloWorld.c
sample.xls Tux.png Ubuntu.pdf Linux.pdf countries.json website.html document.docx csvfile.csv helloWorld.c globe.avi
atovar@cis106:~/lab4files$ ls -Xr1
sample.xls
Ubuntu.pdf
Linux.pdf
countries.jsor
website.html
document.docx
csvfile.csv
helloWorld.c
 lobe.av
 tovar@cis106:~
              /lab4files$
```

Question 3

Question 4

```
atovar@cis106: /dev/disk/by-id
 atovar@cis106:~$ pwd
/home/atovar
atovar@cis106:~$ cd /usr/share/icons/default/
atovar@cis106:/usr/share/icons/default$ cd /proc/sys/net/ipv4/
atovar@cis106:/proc/sys/net/ipv4$ cd -
/usr/share/icons/default
atovar@cis106:/usr/share/icons/default$ ls /share/backgrounds/
ls: cannot access '/share/backgrounds/': No such file or directory
atovar@cis106:/usr/share/icons/default$ ls /usr/share/backgrounds/
                                                                        jj_light_by_Hiking93.jpg
Mirror_by_Uday_Nakade.jpg
Optical_Fibers_in_Dark_by_Elena_Stravoravdi.jpg
Blue_flower_by_Elena_Stravoravdi.jpg
canvas_by_roytanck.jpg
Cherry_Tree_in_Lakones_by_elenastravoravdi.jpg
                                                                          ubuntu2_by_arman1992.jpg
DSC2943_by_kcpru.jpg
Jammy-Jellyfish_WP_4096x2304_Grey.png
jj_dark_by_Hiking93.jpg
                                                                         ubuntu_by_arman1992.jpg
                                                                         ubuntu-default-greyscale-wallpaper.png
                                                                         warty-final-ubuntu.png
atovar@cis106:/usr/share/icons/default$ ls /home/atovar/cis106/
atovar@cis106:/usr/share/icons/default$ cd /home/
atovar@cis106:/home$ ls /home/atovar/cis106/
atovar@cis106:/home$ ls /home/atovar/Downloads/
cis106homework.docx lab4files.zip my
atovar@cis106:/home$ cd /dev/disk/by-id/
atovar@cis106:/dev/disk/by-id$ ls -la
total 0
drwxr-xr-x 2 root root 140 Oct 26 23:47
drwxr-xr-x 7 root root 140 Oct 26 23:46
lrwxrwxrwx 1 root root 9 Oct 26 23:46 ata-VBOX_CD-ROM_VB2-01700376 -> ../../sr0
lrwxrwxrwx 1 root root 9 Oct 26 23:46 ata-VBOX_HARDDISK_VB568bd1dc-984dcb67 -> ../../sda
lrwxrwxrwx 1 root root 10 Oct 26 23:46 ata-VBOX_HARDDISK_VB568bd1dc-984dcb67-part1 -> ../../sda1
lrwxrwxrwx 1 root root 10 Oct 26 23:47 ata-VBOX_HARDDISK_VB568bd1dc-984dcb67-part2 -> ../../sda2
lrwxrwxrwx 1 root root 10 Oct 26 23:46 ata-VBOX_HARDDISK_VB568bd1dc-984dcb67-part3 -> ../../sda3
atovar@cis106:/dev/disk/by-id$ ls -t /usr/share/themes/
```

faid-Dide-daik faid-	<u> </u>	dark faru-sage Deraucc	H tylicolici as t	
atovar@cis106:/dev/disk/by-id\$ ls -X /usr/share/				
accountsservice				
aclocal				
acpi-support				
adduser				
aisleriot				
alacarte				
alsa				
alsa-base				
alsa-card-profile				
appdata				
app-info				
applications				
apport				
apps				
apturl				
aspell				
avahi				
backgrounds				
base-files				
base-passwd				
bash-completion				
binfmts				
branding				
brltty				
bug				
build-essential				
ca-certificates				
caffeine-indicator				
catdoc				
cmake				
code				
cogl				
color				
colord				
common-licenses				
consolefonts				
console-setup				
consoletrans				
cowsay				
cups	gtk-engines	nautilus	ubuntu-drivers-common	

dbus-1	gtksourceview-4	nautilus-python	ubuntu-release-upgrader
dconf	guile	nautilus-share	ubuntu-wayland
debconf			
debhelper			
debianutils			
defaults			
desktop-directories			
dict			
dictionaries-common			
distro-info			
djvu			
dns			
dnsmasg-base			
doc			
doc-base			
dpkg			
emacs			
emacsen-common			
enchant-2			
eog			
epiphany-browser			
evince			
evolution-data-server			
figlet			
file			
file-roller			
fish			
flameshot			
flatpak			
fontconfig			
fonts			
fonts-droid-fallback			
fonts-font-awesome			
fonts-sil-abyssinica			
fonts-sil-padauk			
foo2qpdl			
foo2zjs			
fwupd			
gamemode			
games			
atovar@cis106:/dev/dis			

Question 5

```
atovar@cis106: ~ Cd /
atovar@cis106: ~ S cd /
atovar@cis106: / S cd / home/
atovar@cis106: / home S cd / home/atovar/
atovar@cis106: ~ S cd / home/atovar/Downloads/
atovar@cis106: ~ / Downloads S pwd
/ home/atovar/Downloads
atovar@cis106: ~ / Downloads S
```

