LAB 4 COMPLETION
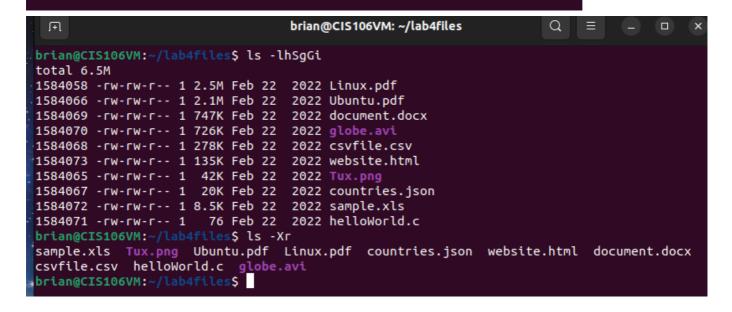
```
brian@CIS106VM:~$ pwd
/home/brian
brian@CIS106VM:~$ cd /usr/share/themes/
brian@CIS106VM:/usr/share/themes$ pwd
/usr/share/themes
brian@CIS106VM:/usr/share/themes$ cd /
brian@CIS106VM:/$ cd /snap/firefox/
brian@CIS106VM:/snap/firefox$
```

```
brian@CIS106VM:~/Downloads$ cd
brian@CIS106VM:~$ pwd
/home/brian
brian@CIS106VM:~$ cd Downloads/
brian@CIS106VM:~/Downloads$ cd ../../
brian@CIS106VM:/home$ pwd
/home
brian@CIS106VM:/home$ ls
brian
brian@CIS106VM:/home$ cd brian/
.cache/         Documents/     Music/          snap/           .vscode/
CIS106-F2022/   Downloads/     Pictures/       .ssh/
.config/        .gnupg/        .pki/           Templates/
Desktop/        .local/        Public/         Videos/
brian@CIS106VM:/home$ cd brian/Documents/
brian@CIS106VM:~/Documents$ pwd
/home/brian/Documents
brian@CIS106VM:~/Documents$
```

```
brian@CIS106VM:/usr/share$ ls /home/brian/lab4files/
countries.json  csvfile.csv  document.docx  globe.avi  helloWorld.c  Linux.pdf  sample.xls  Tux.png  Ubuntu.pdf  website.html
brian@CIS106VM:/usr/share$ cd /home/brian/lab4files/
brian@CIS106VM:~/lab4files$ ls -l
total 6580
-rw-rw-r-- 1 brian brian   20471 Feb 22  2022 countries.json
-rw-rw-r-- 1 brian brian  284042 Feb 22  2022 csvfile.csv
-rw-rw-r-- 1 brian brian  764176 Feb 22  2022 document.docx
-rw-rw-r-- 1 brian brian  742478 Feb 22  2022 globe.avi
-rw-rw-r-- 1 brian brian      76 Feb 22  2022 helloWorld.c
-rw-rw-r-- 1 brian brian 2600138 Feb 22  2022 Linux.pdf
-rw-rw-r-- 1 brian brian    8704 Feb 22  2022 sample.xls
-rw-rw-r-- 1 brian brian   42777 Feb 22  2022 Tux.png
-rw-rw-r-- 1 brian brian 2114053 Feb 22  2022 Ubuntu.pdf
-rw-rw-r-- 1 brian brian  137453 Feb 22  2022 website.html
brian@CIS106VM:~/lab4files$
```

```
brian@CIS106VM:~/lab4files$ ls -lh
total 6.5M
-rw-rw-r-- 1 brian brian  20K Feb 22  2022 countries.json
-rw-rw-r-- 1 brian brian 278K Feb 22  2022 csvfile.csv
-rw-rw-r-- 1 brian brian 747K Feb 22  2022 document.docx
-rw-rw-r-- 1 brian brian 726K Feb 22  2022 globe.avi
-rw-rw-r-- 1 brian brian   76 Feb 22  2022 helloWorld.c
-rw-rw-r-- 1 brian brian 2.5M Feb 22  2022 Linux.pdf
-rw-rw-r-- 1 brian brian 8.5K Feb 22  2022 sample.xls
-rw-rw-r-- 1 brian brian  42K Feb 22  2022 Tux.png
-rw-rw-r-- 1 brian brian 2.1M Feb 22  2022 Ubuntu.pdf
-rw-rw-r-- 1 brian brian 135K Feb 22  2022 website.html
brian@CIS106VM:~/lab4files$ ls -lhS
total 6.5M
-rw-rw-r-- 1 brian brian 2.5M Feb 22  2022 Linux.pdf
-rw-rw-r-- 1 brian brian 2.1M Feb 22  2022 Ubuntu.pdf
-rw-rw-r-- 1 brian brian 747K Feb 22  2022 document.docx
-rw-rw-r-- 1 brian brian 726K Feb 22  2022 globe.avi
-rw-rw-r-- 1 brian brian 278K Feb 22  2022 csvfile.csv
-rw-rw-r-- 1 brian brian 135K Feb 22  2022 website.html
-rw-rw-r-- 1 brian brian  42K Feb 22  2022 Tux.png
-rw-rw-r-- 1 brian brian  20K Feb 22  2022 countries.json
-rw-rw-r-- 1 brian brian 8.5K Feb 22  2022 sample.xls
-rw-rw-r-- 1 brian brian   76 Feb 22  2022 helloWorld.c
brian@CIS106VM:~/lab4files$
```

```
brian@CIS106VM: ~/lab4files

brian@CIS106VM:~/lab4files$ ls -lhSgGi
total 6.5M
1584058 -rw-rw-r-- 1 2.5M Feb 22  2022 Linux.pdf
1584066 -rw-rw-r-- 1 2.1M Feb 22  2022 Ubuntu.pdf
1584069 -rw-rw-r-- 1 747K Feb 22  2022 document.docx
1584070 -rw-rw-r-- 1 726K Feb 22  2022 globe.avi
1584068 -rw-rw-r-- 1 278K Feb 22  2022 csvfile.csv
1584073 -rw-rw-r-- 1 135K Feb 22  2022 website.html
1584065 -rw-rw-r-- 1  42K Feb 22  2022 Tux.png
1584067 -rw-rw-r-- 1  20K Feb 22  2022 countries.json
1584072 -rw-rw-r-- 1 8.5K Feb 22  2022 sample.xls
1584071 -rw-rw-r-- 1   76 Feb 22  2022 helloWorld.c
brian@CIS106VM:~/lab4files$ ls -Xr
sample.xls  Tux.png  Ubuntu.pdf  Linux.pdf  countries.json  website.html  document.docx
csvfile.csv  helloWorld.c  globe.avi
brian@CIS106VM:~/lab4files$
```

```
brian@CIS106VM:~/Downloads$ tree-tug ../lab4files/
tree-tug: command not found
brian@CIS106VM:~/Downloads$ tree -tug ../lab4files/
[brian    brian    ]  ../lab4files/
├── [brian    brian    ]  Linux.pdf
├── [brian    brian    ]  Tux.png
├── [brian    brian    ]  Ubuntu.pdf
├── [brian    brian    ]  sample.xls
├── [brian    brian    ]  globe.avi
├── [brian    brian    ]  document.docx
├── [brian    brian    ]  csvfile.csv
├── [brian    brian    ]  countries.json
├── [brian    brian    ]  website.html
└── [brian    brian    ]  helloWorld.c

0 directories, 10 files
brian@CIS106VM:~/Downloads$ exa --help
```

```
brian@CIS106VM:~/Downloads$ exa ~/lab4files/ -l
.rw-rw-r--    20k brian 22 Feb 14:16 countries.json
.rw-rw-r--   284k brian 22 Feb 14:15 csvfile.csv
.rw-rw-r--   764k brian 22 Feb 14:13 document.docx
.rw-rw-r--   742k brian 22 Feb 14:12 globe.avi
.rw-rw-r--    76 brian 22 Feb 14:18 helloWorld.c
.rw-rw-r--   2.6M brian 22 Feb 14:10 Linux.pdf
.rw-rw-r--   8.7k brian 22 Feb 14:12 sample.xls
.rw-rw-r--    43k brian 22 Feb 14:10 Tux.png
.rw-rw-r--   2.1M brian 22 Feb 14:11 Ubuntu.pdf
.rw-rw-r--   137k brian 22 Feb 14:16 website.html
brian@CIS106VM:~/Downloads$ exa ~/lab4files/ -lh
Permissions Size User   Date Modified Name
.rw-rw-r--    20k brian 22 Feb 14:16   countries.json
.rw-rw-r--   284k brian 22 Feb 14:15   csvfile.csv
.rw-rw-r--   764k brian 22 Feb 14:13   document.docx
.rw-rw-r--   742k brian 22 Feb 14:12   globe.avi
.rw-rw-r--    76 brian 22 Feb 14:18   helloWorld.c
.rw-rw-r--   2.6M brian 22 Feb 14:10   Linux.pdf
.rw-rw-r--   8.7k brian 22 Feb 14:12   sample.xls
.rw-rw-r--    43k brian 22 Feb 14:10   Tux.png
.rw-rw-r--   2.1M brian 22 Feb 14:11   Ubuntu.pdf
.rw-rw-r--   137k brian 22 Feb 14:16   website.html
brian@CIS106VM:~/Downloads$ exa ~/lab4files/ -lh --no-user -U
Permissions Size Date Created Name
.rw-rw-r--    20k 11 Oct 18:27 countries.json
.rw-rw-r--   284k 11 Oct 18:27 csvfile.csv
.rw-rw-r--   764k 11 Oct 18:27 document.docx
.rw-rw-r--   742k 11 Oct 18:27 globe.avi
.rw-rw-r--    76 11 Oct 18:27 helloWorld.c
.rw-rw-r--   2.6M 11 Oct 18:27 Linux.pdf
.rw-rw-r--   8.7k 11 Oct 18:27 sample.xls
.rw-rw-r--    43k 11 Oct 18:27 Tux.png
.rw-rw-r--   2.1M 11 Oct 18:27 Ubuntu.pdf
.rw-rw-r--   137k 11 Oct 18:27 website.html
brian@CIS106VM:~/Downloads$
```

Challange Question

```
brian@CIS106VM:~$ pwd
/home/brian
brian@CIS106VM:~$ cd /usr/share/icons/default/
brian@CIS106VM:/usr/share/icons/default$ pwd
/usr/share/icons/default
brian@CIS106VM:/usr/share/icons/default$ cd /proc/sys/net/ipv4
brian@CIS106VM:/proc/sys/net/ipv4$ pwd
/proc/sys/net/ipv4
brian@CIS106VM:/proc/sys/net/ipv4$ cd ../
brian@CIS106VM:/proc/sys/net$ exa
core  ipv4  ipv6  mptcp  netfilter  unix
brian@CIS106VM:/proc/sys/net$ exa /usr/share/backgrounds/
Blue_flower_by_Elena_Stravoravdi.jpg          jj_dark_by_Hiking93.jpg                    ubuntu_by_arman1992.jpg
canvas_by_roytanck.jpg                        jj_light_by_Hiking93.jpg                   warty-final-ubuntu.png
Cherry_Tree_in_Lakones_by_elenastravoravdi.jpg  Mirror_by_Uday_Nakade.jpg
contest                                       Optical_Fibers_in_Dark_by_Elena_Stravoravdi.jpg
DSC2943_by_kcpru.jpg                          ubuntu-default-greyscale-wallpaper.png
Jammy-Jellyfish_WP_4096x2304_Grey.png         ubuntu2_by_arman1992.jpg
brian@CIS106VM:/proc/sys/net$ exa /home/brian/CIS106-F2022/
cheatSheets  finalproject  labs  weekreports
brian@CIS106VM:/proc/sys/net$ exa /home/brian/Downloads/
game.txt  lab4files.zip  MyWallpappers  Open_Sans  Open_Sans.zip  wallpaper.jpg
brian@CIS106VM:/proc/sys/net$ cd /dev/disk/by-id/
brian@CIS106VM:/dev/disk/by-id$ exa -a
ata-VBOX_CD-ROM_VB2-01700376          ata-VBOX_HARDDISK_VBca3d2186-0e849231-part1  ata-VBOX_HARDDISK_VBca3d2186-0e849231-part3
ata-VBOX_HARDDISK_VBca3d2186-0e849231  ata-VBOX_HARDDISK_VBca3d2186-0e849231-part2
brian@CIS106VM:/dev/disk/by-id$ ls -t /usr/share/themes/
Yaru               Yaru-dark          Yaru-magenta-dark      Yaru-purple       Yaru-sage-dark     Emacs
Yaru-bark          Yaru-dark-hdpi     Yaru-olive             Yaru-purple-dark  Yaru-viridian      Raleigh
Yaru-bark-dark     Yaru-dark-xhdpi    Yaru-olive-dark        Yaru-red          Yaru-viridian-dark  Adwaita
Yaru-blue          Yaru-hdpi          Yaru-prusslangreen     Yaru-red-dark     Yaru-xhdpi         Adwaita-dark
Yaru-blue-dark     Yaru-magenta       Yaru-prusslangreen-dark  Yaru-sage       Default            HighContrast
brian@CIS106VM:/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            britty             bug
build-essential    ca-certificates     caffeine-indicator  catdoc             cmake
cogl               color               colord              common-licenses    consolefonts
console-setup      consoletrans        cowsay              cups               dbus-1
dconf              debconf             debhelper           debianutils        defaults
desktop-directories  dict              dictionaries-common  distro-info       djvu
dns                dnsmasq-base        doc                 doc-base           dpkg
```