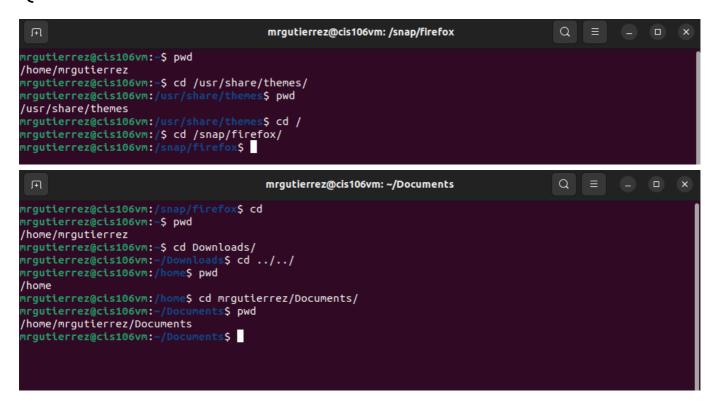
Lab 4 Submission

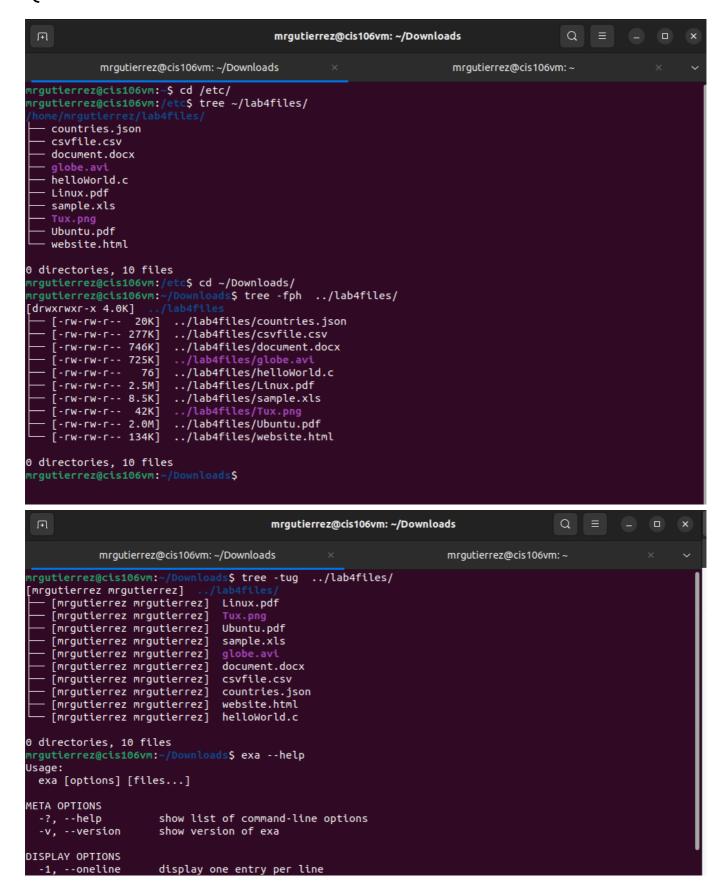
Question 1

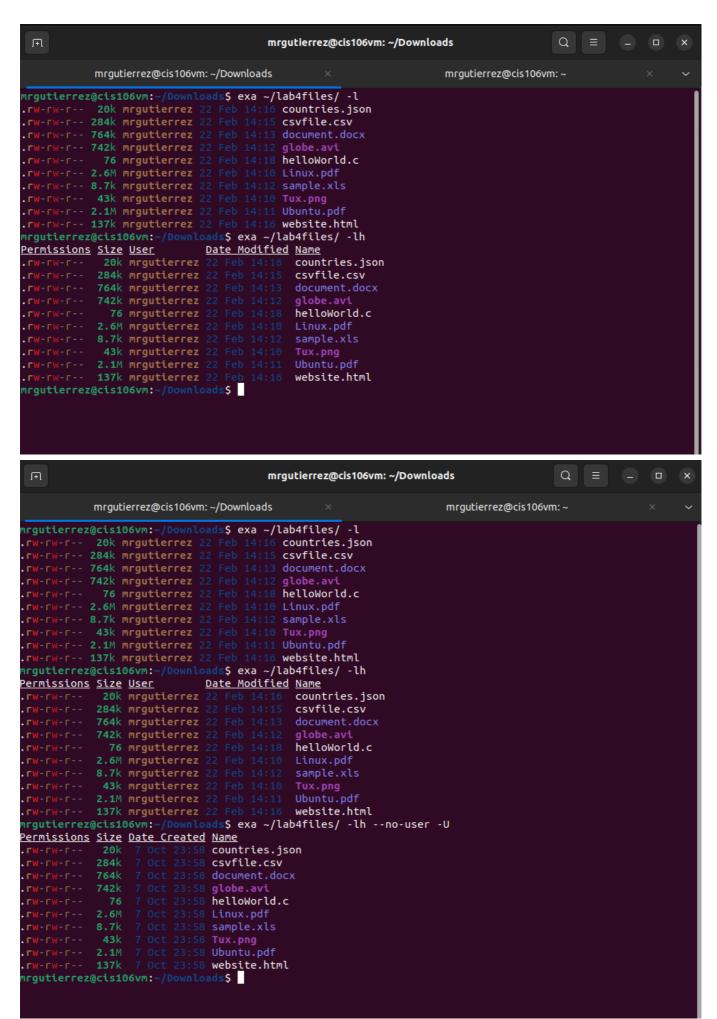


Question 2

```
/home/mrgutierrez/Documents
mrgutierrez@cis106vm:~/Documents$ cd /usr/share/
mrgutierrez@cis106vm:/usr/share$ ls /home/mrgutierrez/lab4files/
countries.json document.docx helloWorld.c sample.xls Ubuntu.pdf
                   globe.avi
                                    Linux.pdf
                                                                   website.html
                                                     Tux.png
mrgutierrez@cis106vm:/usr/share$ cd /home/mrgutierrez/lab4files/
mrgutierrez@cis106vm:~/lab4files$ ls -l
-rw-rw-r-- 1 mrqutierrez mrqutierrez
                                              20471 Feb 22
                                                               2022 countries.json
rw-rw-r-- 1 mrgutierrez mrgutierrez
                                             284042 Feb 22
                                                               2022 csvfile.csv
-rw-rw-r-- 1 mrgutierrez mrgutierrez 764176 Feb 22
                                                               2022 document.docx
rw-rw-r-- 1 mrgutierrez mrgutierrez 742478 Feb 22 2022 globe.avi
                                                  76 Feb 22 2022 helloWorld.c
rw-rw-r-- 1 mrgutierrez mrgutierrez
-rw-rw-r-- 1 mrgutierrez mrgutierrez 2600138 Feb 22  2022 Linux.pdf
-rw-rw-r-- 1 mrgutierrez mrgutierrez
                                              8704 Feb 22 2022 sample.xls
-rw-rw-r-- 1 mrgutierrez mrgutierrez
                                              42777 Feb 22 2022 Tux.png
-rw-rw-r-- 1 mrgutierrez mrgutierrez 2114053 Feb 22
                                                               2022 Ubuntu.pdf
-rw-rw-r-- 1 mrgutierrez mrgutierrez 137453 Feb 22 2022 website.html
mrqutierrez@cis106vm:~/lab4files$
                                     mrgutierrez@cis106vm: ~/lab4files
rgutierrez@cis106vm:~/lab4files$ ls -lh
total 6.5M
rw-rw-r-- 1 mrgutierrez mrgutierrez 20K Feb 22 2022 countries.json
rw-rw-r-- 1 mrgutierrez mrgutierrez 278K Feb 22
                                               2022 csvfile.csv
rw-rw-r-- 1 mrgutierrez mrgutierrez 747K Feb 22
                                                2022 document.docx
rw-rw-r-- 1 mrgutierrez mrgutierrez 726K Feb 22
                                               2022 globe.av
rw-rw-r-- 1 mrgutierrez mrgutierrez
                                   76 Feb 22
                                                2022 helloWorld.c
rw-rw-r-- 1 mrgutierrez mrgutierrez 2.5M Feb 22
                                                2022 Linux.pdf
rw-rw-r-- 1 mrgutierrez mrgutierrez 8.5K Feb 22
                                                2022 sample.xls
rw-rw-r-- 1 mrgutierrez mrgutierrez 42K Feb 22
                                                2022 Tux.png
                                                2022 Ubuntu.pdf
rw-rw-r-- 1 mrgutierrez mrgutierrez 2.1M Feb 22
rw-rw-r-- 1 mrgutierrez mrgutierrez 135K Feb 22
                                                2022 website.html
rgutierrez@cis106vm:~/lab4files$ ls -lhS
total 6.5M
rw-rw-r-- 1 mrgutierrez mrgutierrez 2.5M Feb 22
                                               2022 Linux.pdf
rw-rw-r-- 1 mrgutierrez mrgutierrez 2.1M Feb 22
                                               2022 Ubuntu.pdf
rw-rw-r-- 1 mrgutierrez mrgutierrez 747K Feb 22
                                                2022 document.docx
rw-rw-r-- 1 mrgutierrez mrgutierrez 726K Feb 22
                                                2022 globe.avi
rw-rw-r-- 1 mrgutierrez mrgutierrez 278K Feb 22
                                                2022 csvfile.csv
rw-rw-r-- 1 mrgutierrez mrgutierrez 135K Feb 22
                                                2022 website.html
-rw-rw-r-- 1 mrgutierrez mrgutierrez 42K Feb 22
-rw-rw-r-- 1 mrgutierrez mrgutierrez 20K Feb 22
                                                2022 Tux.png
                                                2022 countries.json
rw-rw-r-- 1 mrgutierrez mrgutierrez 8.5K Feb 22
                                               2022 sample.xls
rw-rw-r-- 1 mrgutierrez mrgutierrez
                                     76 Feb 22
                                               2022 helloWorld.c
rgutierrez@cis106vm:~/lab4files$
                                      mrgutierrez@cis106vm: ~/lab4files
                                                                                 Q \equiv
nrgutierrez@cis106vm:~/lab4files$ ls -lhSgGi
total 6.5M
264156 -rw-rw-r-- 1 2.5M Feb 22 2022 Linux.pdf
264158 -rw-rw-r-- 1 2.1M Feb 22
                               2022 Ubuntu.pdf
264161 -rw-rw-r-- 1 747K Feb 22
                               2022 document.docx
264162 -rw-rw-r-- 1 726K Feb 22
                               2022 globe.avi
264160 -rw-rw-r-- 1 278K Feb 22
                               2022 csvfile.csv
264165 -rw-rw-r-- 1 135K Feb 22
                               2022 website.html
264157 -rw-rw-r-- 1 42K Feb 22
                               2022 Tux.png
264159 -rw-rw-r-- 1 20K Feb 22
                               2022 countries.json
264164 -rw-rw-r-- 1 8.5K Feb 22
                               2022 sample.xls
264163 -rw-rw-r-- 1 76 Feb 22 2022 helloWorld.c
mrgutierrez@cis106vm:~/lab4files$ ls -Xr
sample.xls Ubuntu.pdf countries.json document.docx helloWorld.c
Tux.png Linux.pdf website.ht<u>m</u>l csvfile.csv globe.avi
nrgutierrez@cis106vm:~/lab4files$
```

Question 3





Question 4 Challenge Questions

