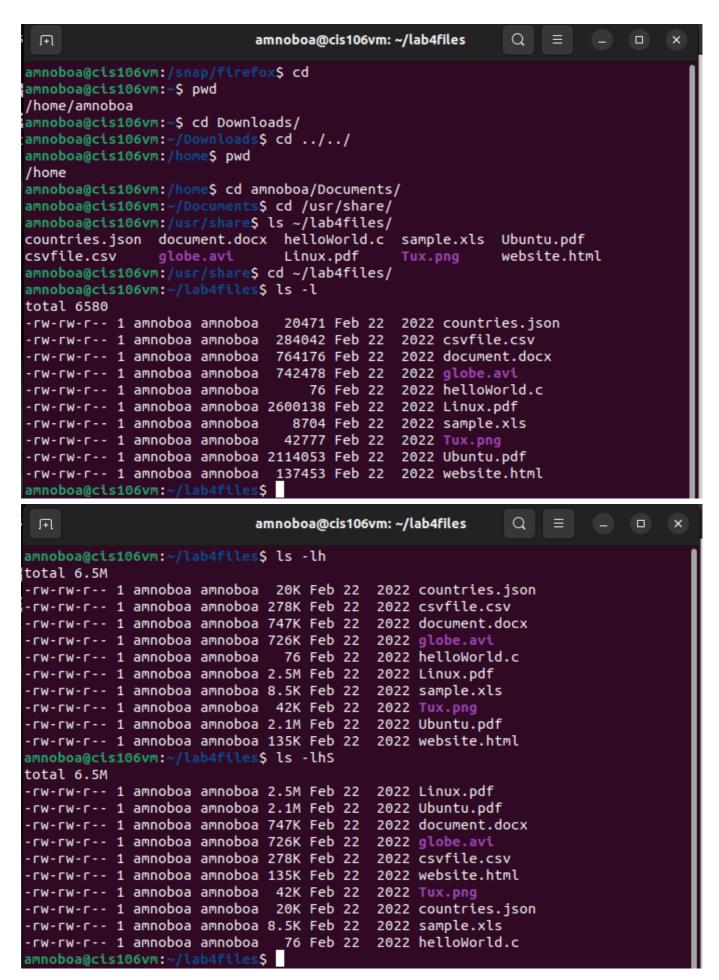
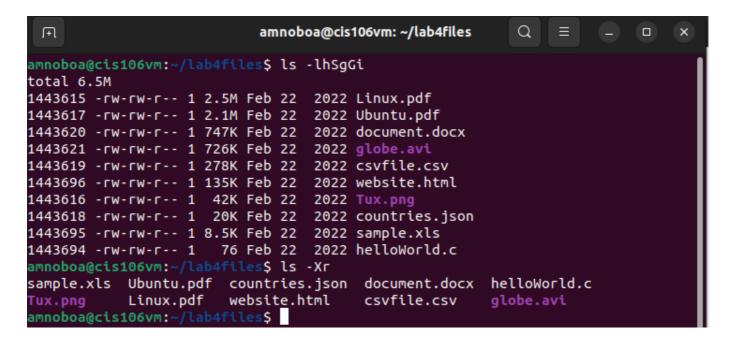
## Lab 4 Submission

## Questions 1

```
Ħ
                           amnoboa@cis106vm: /snap/firefox
                                                           Q
                                                                          amnoboa@cis106vm:~$ pwd
/home/amnoboa
amnoboa@cis106vm:~$ cd /usr/share/themes/
amnoboa@cis106vm:/usr/share/themes$ pwd
/usr/share/themes
amnoboa@cis106vm:/usr/share/themes$ cd /
amnoboa@cis106vm:/$ pwd
amnoboa@cis106vm:/$ cd /snap/firefox/
amnoboa@cis106vm:/snap/firefox$ pwd
/snap/firefox
amnoboa@cis106vm:/snap/firefox$
 Ŧ
                           amnoboa@cis106vm: ~/Documents
                                                           Q
                                                                          ×
amnoboa@cis106vm:/snap/firefox$ cd
amnoboa@cis106vm:~$ pwd
/home/amnoboa
amnoboa@cis106vm:~$ cd Downloads/
amnoboa@cis106vm:~/Downloads$ cd ../../
amnoboa@cis106vm:/home$ pwd
amnoboa@cis106vm:/home$ cd amnoboa/Documents/
amnoboa@cis106vm:~/Documents$
```

## Questions 2





## Questions 3

```
amnoboa@cis106vm: ~/Downloads
                                                                        Q
                                                                                       amnoboa@cis106vm:~$ cd /etc/
amnoboa@cis106vm:/etc$ tree ~/lab4files/
  countries.json
   csvfile.csv
   document.docx
    globe.avi
    helloWorld.c
    Linux.pdf
    sample.xls
   Ubuntu.pdf
   website.html
0 directories, 10 files
amnoboa@cis106vm:/etc$ cd ~/Downloads/
amnoboa@cis106vm:~/Downloads$ tree -fph ../lab4files/
[drwxrwxr-x 4.0K]
    [-rw-rw-r-- 20K] ../lab4files/countries.json
    [-rw-rw-r-- 277K]
                      ../lab4files/csvfile.csv
                      ../lab4files/document.docx
    [-rw-rw-r-- 746K]
    [-rw-rw-r-- 725K]
                      ../lab4files/globe.avi
                       ../lab4files/helloWorld.c
    --W-FW-F--
                 76]
     -rw-rw-r-- 2.5M]
                       ../lab4files/Linux.pdf
     -rw-rw-r-- 8.5K]
                       ../lab4files/sample.xls
    -rw-rw-r-- 42K]
                       ../lab4files/Tux.png
../lab4files/Ubuntu.pdf
    [-rw-rw-r-- 2.0M]
    [-rw-rw-r-- 134K]
                       ../lab4files/website.html
0 directories, 10 files
amnoboa@cis106vm:~/Downloads$
                                 amnoboa@cis106vm: ~/Downloads
                                                                        Q
                                                                                      amnoboa@cis106vm:~/Downloads$ tree -tug ../lab4files/
[amnoboa amnoboa]
    [amnoboa amnoboa]
                         Linux.pdf
    [amnoboa amnoboa
                         Tux.png
    [amnoboa amnoboa ]
                         Ubuntu.pdf
    [amnoboa amnoboa ]
                         sample.xls
    [amnoboa amnoboa ]
                         globe.avi
    [amnoboa amnoboa ]
                         document.docx
    [amnoboa amnoboa]
                         csvfile.csv
    [amnoboa amnoboa]
                         countries.json
    [amnoboa amnoboa ]
                        website.html
    [amnoboa amnoboa ]
                        helloWorld.c
0 directories, 10 files
amnoboa@cis106vm:~/Downloads$ exa --help
Usage:
  exa [options] [files...]
META OPTIONS
                     show list of command-line options
  -?, --help
  -v, --version
                     show version of exa
DISPLAY OPTIONS
                     display one entry per line
  -1, --oneline
  -l, --long
                     display extended file metadata as a table
  -G, --grid
                     display entries as a grid (default)
  -x, --across
                     sort the grid across, rather than downwards
  -R, --recurse
                     recurse into directories
  -T, --tree
                     recurse into directories as a tree
                     display type indicator by file names
  -F, --classify
  --colo[u]r=WHEN
                     when to use terminal colours (always, auto, never)
  --colo[u]r-scale
                     highlight levels of file sizes distinctly
  --icons
                     display icons
```

```
amnoboa@cis106vm: ~/Downloads
 FI.
amnoboa@cis106vm:~/Downloads$ exa ~/lab4files/ -l
.rw-rw-r-- 20k amnoboa 22 Feb 14:16 countries.json
  v-rw-r-- 284k amnoboa 22 Feb 14:15 csvfile.csv
   -rw-r-- 764k amnoboa 22 Feb 14:13 document.docx
   -rw-r-- 742k amnoboa 22 Feb 14:12 globe.avi
      v-r-- 76 amnoboa 22 Feb 14:18 helloWorld.c
      ---- 2.6M amnoboa 22 Feb 14:10 Linux.pdf
  v-rw-r-- 8.7k <mark>amnoboa</mark> 22 Feb 14:12 sample.xls
  w-rw-r-- 43k amnoboa 22 Feb 14:10 Tux.png
  w-rw-r-- 2.1M amnoboa 22 Feb 14:11 Ubuntu.pdf
  w-rw-r-- 137k amnoboa 22 Feb 14:16 website.html
amnoboa@cis106vm:~/Downloads$ exa ~/lab4files/ -lh
<u>Permissions</u> <u>Size</u> <u>User</u>
                         Date Modified Name
            20k amnoboa 22 Feb 14:16
                                         countries.json
           284k amnoboa 22 Feb 14:15
                                        csvfile.csv
     w-r-- 764k <mark>amnoboa</mark> 22 Feb 14:13 document.docx
   -rw-r-- 742k amnoboa 22 Feb 14:12
                                        globe.avi
            76 amnoboa 22 Feb 14:18 helloWorld.c
    rw-r-- 2.6M amnoboa 22 Feb 14:10 Linux.pdf
     w-r-- 8.7k amnoboa 22 Feb 14:12
                                         sample.xls
            43k amnoboa 22 Feb 14:10
                                         Tux.png
           2.1M amnoboa 22 Feb 14:11 137k amnoboa 22 Feb 14:16
                                         Ubuntu.pdf
                                         website.html
amnoboa@cis106vm:~/Downloads$
amnoboa@cis106vm:~/Downloads$ exa ~/lab4files/ -lh
<u>Permissions Size User</u>
                          Date Modified Name
            20k amnoboa 22 Feb 14:16 countries.json
    rw-r-- 284k amnoboa 22 Feb 14:15 csvfile.csv
    rw-r-- 764k amnoboa 22 Feb 14:13 document.docx
                                        globe.avi
      v-r-- 742k amnoboa 22 Feb 14:12
            76 amnoboa 22 Feb 14:18
                                         helloWorld.c
      v-r-- 2.6M amnoboa 22 Feb 14:10
                                         Linux.pdf
            8.7k amnoboa 22 Feb 14:12
                                         sample.xls
            43k amnoboa 22 Feb 14:10
                                         Tux.png
            2.1M amnoboa 22 Feb 14:11
                                        Ubuntu.pdf
           137k amnoboa 22 Feb 14:16
                                        website.html
amnoboa@cis106vm:~/Downloads$ exa ~/lab4files/ -lh --no-user -U
<u>Permissions Size Date Created Name</u>
            20k 22 Oct 21:29 countries.json
            284k 22 Oct 21:29 csvfile.csv
764k 22 Oct 21:29 document.docx
             76 22 Oct 21:29 helloWorld.c
     w-r-- 2.6M 22 Oct 21:29 Linux.pdf
       r-- 8.7k 22 Oct 21:29 sample.xls
            43k 22 Oct 21:29 Tux.png
            2.1M 22 Oct 21:29 Ubuntu.pdf
            137k 22 Oct 21:29 website.html
amnoboa@cis106vm:~/Downloads$
```

**Questions 4 Challenge Question** 

