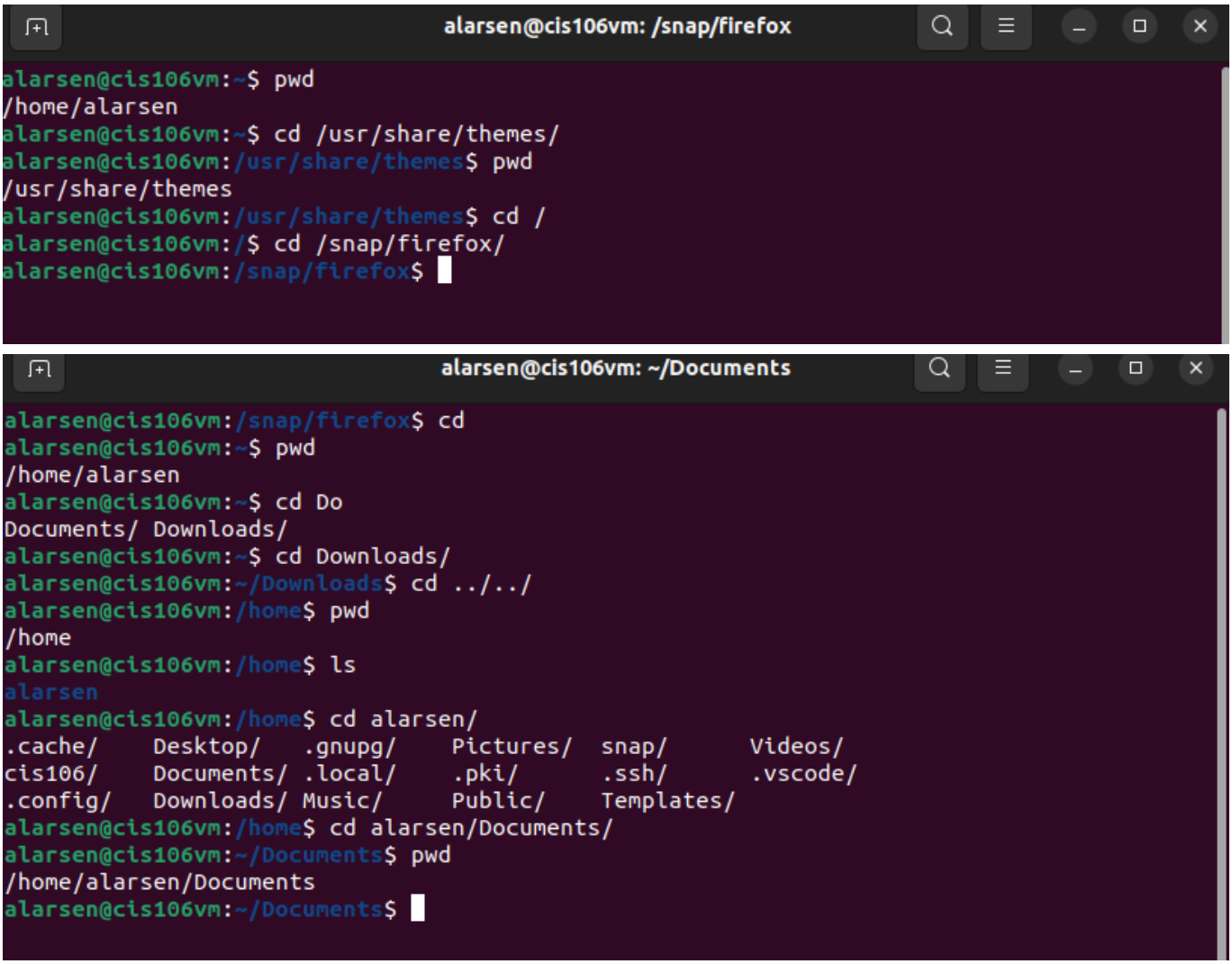
Lab 4 Submission

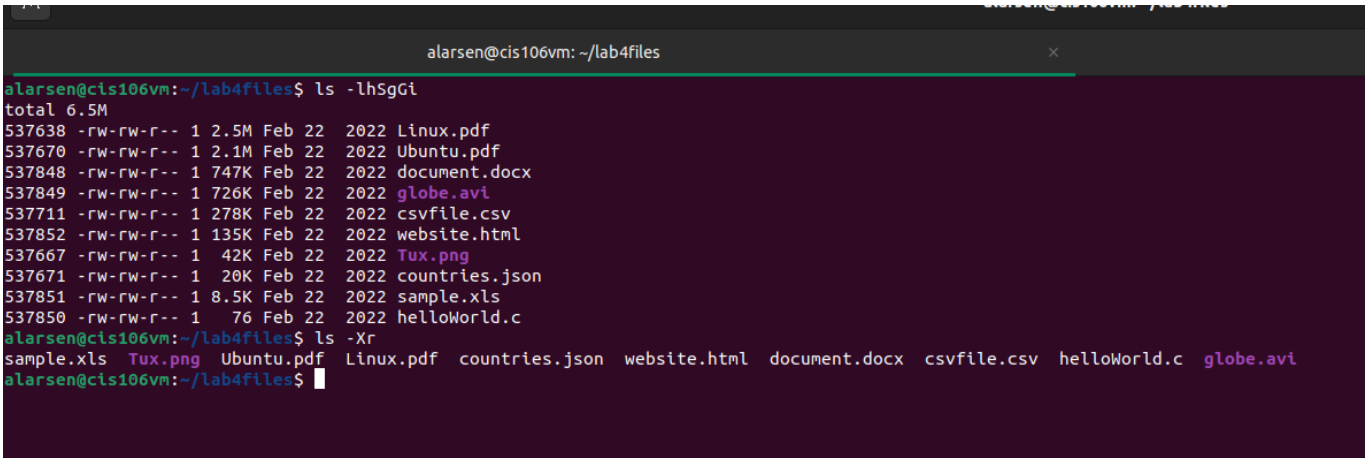
Q1



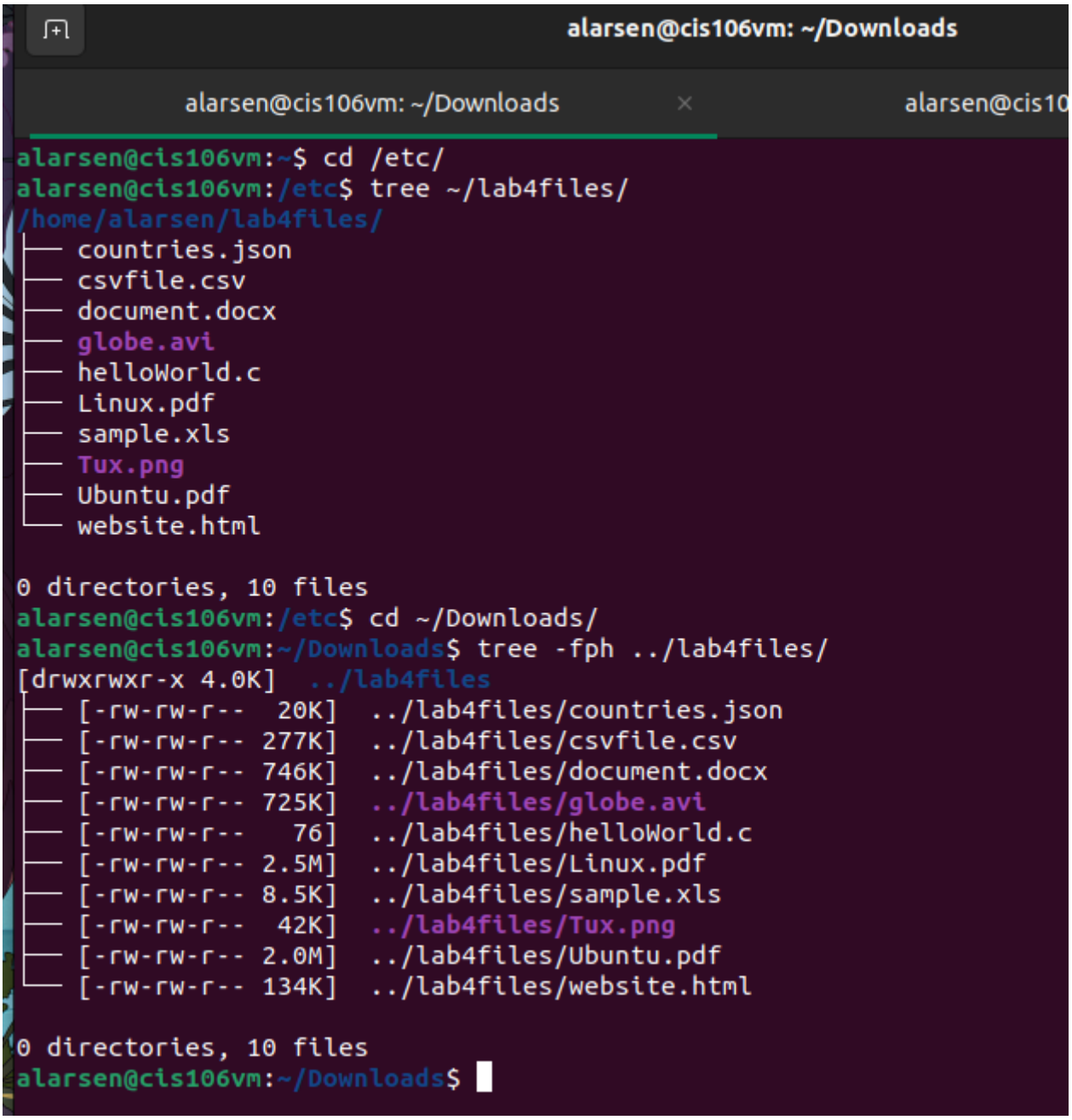
Q2

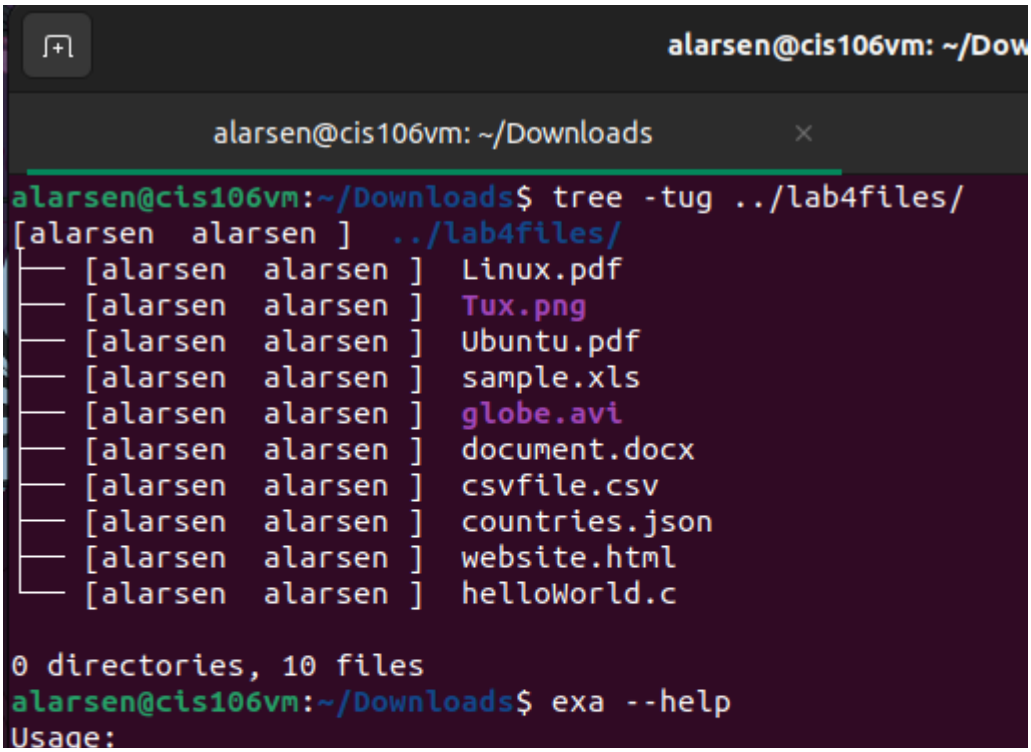
```
alarsen@cis106vm:/home$ cd alarsen/Documents/
alarsen@cis106vm:~/Documents$ pwd
/home/alarsen/Documents
alarsen@cis106vm:~/Documents$ cd /usr/share/
alarsen@cis106vm:/usr/share$ ls /home/alarsen/lab4files/
countries.json  document.docx  helloWorld.c  sample.xls  Ubuntu.pdf
csvfile.csv     globe.avi      Linux.pdf     Tux.png     website.html
alarsen@cis106vm:/usr/share$ cd /home/alarsen/lab4files/
alarsen@cis106vm:~/lab4files$ ls -l
total 6580
-rw-rw-r-- 1 alarsen alarsen   20471 Feb 22  2022 countries.json
-rw-rw-r-- 1 alarsen alarsen  284042 Feb 22  2022 csvfile.csv
-rw-rw-r-- 1 alarsen alarsen  764176 Feb 22  2022 document.docx
-rw-rw-r-- 1 alarsen alarsen  742478 Feb 22  2022 globe.avi
-rw-rw-r-- 1 alarsen alarsen      76 Feb 22  2022 helloWorld.c
-rw-rw-r-- 1 alarsen alarsen 2600138 Feb 22  2022 Linux.pdf
-rw-rw-r-- 1 alarsen alarsen    8704 Feb 22  2022 sample.xls
-rw-rw-r-- 1 alarsen alarsen   42777 Feb 22  2022 Tux.png
-rw-rw-r-- 1 alarsen alarsen 2114053 Feb 22  2022 Ubuntu.pdf
-rw-rw-r-- 1 alarsen alarsen  137453 Feb 22  2022 website.html
alarsen@cis106vm:~/lab4files$
```

```
                                        alarsen@cis106vm: ~/lab4files
alarsen@cis106vm:~/lab4files$ ls -lh
total 6.5M
-rw-rw-r-- 1 alarsen alarsen  20K Feb 22  2022 countries.json
-rw-rw-r-- 1 alarsen alarsen 278K Feb 22  2022 csvfile.csv
-rw-rw-r-- 1 alarsen alarsen 747K Feb 22  2022 document.docx
-rw-rw-r-- 1 alarsen alarsen 726K Feb 22  2022 globe.avi
-rw-rw-r-- 1 alarsen alarsen   76 Feb 22  2022 helloWorld.c
-rw-rw-r-- 1 alarsen alarsen 2.5M Feb 22  2022 Linux.pdf
-rw-rw-r-- 1 alarsen alarsen 8.5K Feb 22  2022 sample.xls
-rw-rw-r-- 1 alarsen alarsen  42K Feb 22  2022 Tux.png
-rw-rw-r-- 1 alarsen alarsen 2.1M Feb 22  2022 Ubuntu.pdf
-rw-rw-r-- 1 alarsen alarsen 135K Feb 22  2022 website.html
alarsen@cis106vm:~/lab4files$ ls -lhS
total 6.5M
-rw-rw-r-- 1 alarsen alarsen 2.5M Feb 22  2022 Linux.pdf
-rw-rw-r-- 1 alarsen alarsen 2.1M Feb 22  2022 Ubuntu.pdf
-rw-rw-r-- 1 alarsen alarsen 747K Feb 22  2022 document.docx
-rw-rw-r-- 1 alarsen alarsen 726K Feb 22  2022 globe.avi
-rw-rw-r-- 1 alarsen alarsen 278K Feb 22  2022 csvfile.csv
-rw-rw-r-- 1 alarsen alarsen 135K Feb 22  2022 website.html
-rw-rw-r-- 1 alarsen alarsen  42K Feb 22  2022 Tux.png
-rw-rw-r-- 1 alarsen alarsen  20K Feb 22  2022 countries.json
-rw-rw-r-- 1 alarsen alarsen 8.5K Feb 22  2022 sample.xls
-rw-rw-r-- 1 alarsen alarsen   76 Feb 22  2022 helloWorld.c
alarsen@cis106vm:~/lab4files$
```


alarsen@cis106vm: ~/lab4files
alarsen@cis106vm:~/lab4files$ ls -lhSgGi
total 6.5M
537638 -rw-rw-r-- 1 2.5M Feb 22 2022 Linux.pdf
537670 -rw-rw-r-- 1 2.1M Feb 22 2022 Ubuntu.pdf
537848 -rw-rw-r-- 1 747K Feb 22 2022 document.docx
537849 -rw-rw-r-- 1 726K Feb 22 2022 globe.avi
537711 -rw-rw-r-- 1 278K Feb 22 2022 csvfile.csv
537852 -rw-rw-r-- 1 135K Feb 22 2022 website.html
537667 -rw-rw-r-- 1 42K Feb 22 2022 Tux.png
537671 -rw-rw-r-- 1 20K Feb 22 2022 countries.json
537851 -rw-rw-r-- 1 8.5K Feb 22 2022 sample.xls
537850 -rw-rw-r-- 1 76 Feb 22 2022 helloWorld.c
alarsen@cis106vm:~/lab4files$ ls -Xr
sample.xls Tux.png Ubuntu.pdf Linux.pdf countries.json website.html document.docx csvfile.csv helloWorld.c globe.avi
alarsen@cis106vm:~/lab4files$

Question 3


alarsen@cis106vm: ~/Downloads
alarsen@cis106vm: ~/Downloads
alarsen@cis10
alarsen@cis106vm:~$ cd /etc/
alarsen@cis106vm:/etc$ tree ~/lab4files/
/home/alarsen/lab4files/
├── countries.json
├── csvfile.csv
├── document.docx
├── globe.avi
├── helloWorld.c
├── Linux.pdf
├── sample.xls
├── Tux.png
├── Ubuntu.pdf
└── website.html
0 directories, 10 files
alarsen@cis106vm:/etc$ cd ~/Downloads/
alarsen@cis106vm:~/Downloads$ tree -fph ../lab4files/
[drwxrwxr-x 4.0K] ../lab4files
├── [-rw-rw-r-- 20K] ../lab4files/countries.json
├── [-rw-rw-r-- 277K] ../lab4files/csvfile.csv
├── [-rw-rw-r-- 746K] ../lab4files/document.docx
├── [-rw-rw-r-- 725K] ../lab4files/globe.avi
├── [-rw-rw-r-- 76] ../lab4files/helloWorld.c
├── [-rw-rw-r-- 2.5M] ../lab4files/Linux.pdf
├── [-rw-rw-r-- 8.5K] ../lab4files/sample.xls
├── [-rw-rw-r-- 42K] ../lab4files/Tux.png
├── [-rw-rw-r-- 2.0M] ../lab4files/Ubuntu.pdf
└── [-rw-rw-r-- 134K] ../lab4files/website.html
0 directories, 10 files
alarsen@cis106vm:~/Downloads$


alarsen@cis106vm: ~/Dow
alarsen@cis106vm: ~/Downloads
alarsen@cis106vm:~/Downloads$ tree -tug ../lab4files/
[alarsen alarsen] ../lab4files/
├── [alarsen alarsen] Linux.pdf
├── [alarsen alarsen] Tux.png
├── [alarsen alarsen] Ubuntu.pdf
├── [alarsen alarsen] sample.xls
├── [alarsen alarsen] globe.avi
├── [alarsen alarsen] document.docx
├── [alarsen alarsen] csvfile.csv
├── [alarsen alarsen] countries.json
├── [alarsen alarsen] website.html
└── [alarsen alarsen] helloWorld.c
0 directories, 10 files
alarsen@cis106vm:~/Downloads$ exa --help
Usage:

```
  exa [options] [files...]

META OPTIONS
  -?, --help          show list of command-line options
  -v, --version       show version of exa

DISPLAY OPTIONS
  -1, --oneline       display one entry per line
```

```
alarsen@cis106vm: ~/Downloads
alarsen@cis106vm: ~/Downloads  alarsen@cis106vm: ~/lab4files
alarsen@cis106vm:~/Downloads$ exa ~/lab4files/ -l
.rw-rw-r--  20k alarsen 22 Feb 14:16 countries.json
.rw-rw-r-- 284k alarsen 22 Feb 14:15 csvfile.csv
.rw-rw-r-- 764k alarsen 22 Feb 14:13 document.docx
.rw-rw-r-- 742k alarsen 22 Feb 14:12 globe.avi
.rw-rw-r--   76 alarsen 22 Feb 14:18 helloWorld.c
.rw-rw-r-- 2.6M alarsen 22 Feb 14:10 Linux.pdf
.rw-rw-r-- 8.7k alarsen 22 Feb 14:12 sample.xls
.rw-rw-r--  43k alarsen 22 Feb 14:10 Tux.png
.rw-rw-r-- 2.1M alarsen 22 Feb 14:11 Ubuntu.pdf
.rw-rw-r-- 137k alarsen 22 Feb 14:16 website.html
alarsen@cis106vm:~/Downloads$ exa ~/lab4files/ -lh
Permissions Size User    Date Modified Name
.rw-rw-r--   20k alarsen 22 Feb 14:16  countries.json
.rw-rw-r--  284k alarsen 22 Feb 14:15  csvfile.csv
.rw-rw-r--  764k alarsen 22 Feb 14:13  document.docx
.rw-rw-r--  742k alarsen 22 Feb 14:12  globe.avi
.rw-rw-r--   76 alarsen 22 Feb 14:18  helloWorld.c
.rw-rw-r--  2.6M alarsen 22 Feb 14:10  Linux.pdf
.rw-rw-r--  8.7k alarsen 22 Feb 14:12  sample.xls
.rw-rw-r--   43k alarsen 22 Feb 14:10  Tux.png
.rw-rw-r--  2.1M alarsen 22 Feb 14:11  Ubuntu.pdf
.rw-rw-r--  137k alarsen 22 Feb 14:16  website.html
alarsen@cis106vm:~/Downloads$
```

```
Permissions Size User    Date Modified Name
.rw-rw-r--   20k alarsen 22 Feb 14:16  countries.json
.rw-rw-r--  284k alarsen 22 Feb 14:15  csvfile.csv
.rw-rw-r--  764k alarsen 22 Feb 14:13  document.docx
.rw-rw-r--  742k alarsen 22 Feb 14:12  globe.avi
.rw-rw-r--   76 alarsen 22 Feb 14:18  helloWorld.c
.rw-rw-r--  2.6M alarsen 22 Feb 14:10  Linux.pdf
.rw-rw-r--  8.7k alarsen 22 Feb 14:12  sample.xls
.rw-rw-r--   43k alarsen 22 Feb 14:10  Tux.png
.rw-rw-r--  2.1M alarsen 22 Feb 14:11  Ubuntu.pdf
.rw-rw-r--  137k alarsen 22 Feb 14:16  website.html
alarsen@cis106vm:~/Downloads$ exa ~/lab4files/ -lh --no-user -U
Permissions Size Date Created  Name
.rw-rw-r--   20k 14 Oct 09:35 countries.json
.rw-rw-r--  284k 14 Oct 09:35 csvfile.csv
.rw-rw-r--  764k 14 Oct 09:35 document.docx
.rw-rw-r--  742k 14 Oct 09:35 globe.avi
.rw-rw-r--   76 14 Oct 09:35 helloWorld.c
.rw-rw-r--  2.6M 14 Oct 09:35 Linux.pdf
.rw-rw-r--  8.7k 14 Oct 09:35 sample.xls
.rw-rw-r--   43k 14 Oct 09:35 Tux.png
.rw-rw-r--  2.1M 14 Oct 09:35 Ubuntu.pdf
.rw-rw-r--  137k 14 Oct 09:35 website.html
alarsen@cis106vm:~/Downloads$
```

Question 4: Challenge Question