Lab 4 Submission

Question 1

```
sskisijara@CIS106vm: /snap/firefox
sskisijara@CIS106vm:~$ pwd
/home/sskisijara
sskisijara@CIS106vm:~$ cd /usr/share/themes/
sskisijara@CIS106vm:/usr/share/themes$ pwd
/usr/share/themes
sskisijara@CIS106vm:/usr/share/themes$ cd /
sskisijara@CIS106vm:/$ cd /snap/firefox/
sskisijara@CIS106vm:/snap/firefox$ [
                                          sskisijara@CIS106vm: ~/Documents
sskisijara@CIS106vm:/snap/firefox$ cd
sskisijara@CIS106vm:~$ pwd
/home/sskisijara
sskisijara@CIS106vm:~$ cd Do
bash: cd: Do: No such file or directory
sskisijara@CIS106vm:~$ cd Downloads/
sskisijara@CIS106vm:~/Downloads$ cd ../../
sskisijara@CIS106vm:/home$ pwd
/home
sskisijara@CIS106vm:/home$ ls
sskisijara@CIS106vm:/home$ cd sskisijara/
.cache/
              Desktop/
                              .gnupg/
                                             Music/
                                                            practicels/
                                                                           .ssh/
                                                                                          Videos/
                                                            .
Public/
cis-106-f22/ Documents/
                                             Pictures/
                              .local/
                                                                           Templates/
                                                                                          .vscode/
                              .mozilla/
                                                                           .thunderbird/ website/
.config/
                                             .pki/
              Downloads/
                                                            snap/
sskisijara@CIS106vm:/home$ cd sskisijara/Documents/
sskisijara@CIS106vm:~/Documents$ pwd
/home/sskisijara/Documents
sskisijara@CIS106vm:~/Documents$
```

Question 2

```
skisijara@CIS106vm:~/Documents$ pwd
/home/sskisijara/Documents
sskisijara@CIS106vm:~/Documents$ cd /usr/share/
sskisijara@CIS106vm:/usr/share$ ls /home/sskisijara/lab4files/
countries.json document.docx helloWorld.c sample.xls Ubuntu.pdf
                                                                 website.html
csvfile.csv
                                   Linux.pdf
sskisijara@CIS106vm:/usr/share$ cd /home/sskisijara/lab4files/
sskisijara@CIS106vm:~/lab4files$ ls -l
total 6588
                                         20471 Feb 22 2022 countries.json
-rw-rw-r-- 1 sskisijara sskisijara
 rw-rw-r-- 1 sskisijara sskisijara 284042 Feb 22 2022 csvfile.csv
-rw-rw-r-- 1 sskisijara sskisijara 764176 Feb 22 2022 document.
-rw-rw-r-- 1 sskisijara sskisijara 742478 Feb 22 2022 globe.avi
                                                         2022 document.docx
 rw-rw-r-- 1 sskisijara sskisijara
                                            76 Feb 22
                                                         2022 helloWorld.c
 rw-rw-r-- 1 sskisijara sskisijara 2600138 Feb 22 2022 Linux.pdf
 rw-rw-r-- 1 sskisijara sskisijara
                                         8704 Feb 22
                                                          2022 sample.xls
-rw-rw-r-- 1 sskisijara sskisijara
                                          42777 Feb 22
                                                         2022 Tux.png
-rw-rw-r-- 1 sskisijara sskisijara 2114053 Feb 22 2022 Ubuntu.pdf
-rw-rw-r-- 1 sskisijara sskisijara 137453 Feb 22 2022 website.html
sskisijara@CIS106vm:~/lab4files$ ls -lh
total 6.5M
 rw-rw-r-- 1 sskisijara sskisijara 20K Feb 22 2022 countries.json
 rw-rw-r-- 1 sskisijara sskisijara 278K Feb 22
                                                      2022 csvfile.csv
-rw-rw-r-- 1 sskisijara sskisijara 747K Feb 22 2022 document.docx
-rw-rw-r-- 1 sskisijara sskisijara 726K Feb 22
                                                      2022 globe.av
                                                      2022 helloWorld.c
 rw-rw-r-- 1 sskisijara sskisijara - 76 Feb 22
                                                      2022 Linux.pdf
-rw-rw-r-- 1 sskisijara sskisijara 2.5M Feb 22
 rw-rw-r-- 1 sskisijara sskisijara 8.5K Feb 22
                                                       2022 sample.xls
-rw-rw-r-- 1 sskisijara sskisijara 42K Feb 22
-rw-rw-r-- 1 sskisijara sskisijara 2.1M Feb 22
                                                      2022 Tux.png
                                                      2022 Ubuntu.pdf
-rw-rw-r-- 1 sskisijara sskisijara 135K Feb 22 2022 website.html
sskisijara@CIS106vm:~/lab4files$ []
                                              sskisijara@CIS106vm: ~/lab4files
sskisijara@CIS106vm:~/lab4files$ ls -lh
total 6.5M
-rw-rw-r-- 1 sskisijara sskisijara 20K Feb 22 2022 countries.json
rw-rw-r-- 1 sskisijara sskisijara 278K Feb 22
                                                     2022 csvfile.csv
-rw-rw-r-- 1 sskisijara sskisijara 747K Feb 22
                                                      2022 document.docx
 rw-rw-r-- 1 sskisijara sskisijara 726K Feb 22
                                                      2022 globe.av
rw-rw-r-- 1 sskisijara sskisijara 76 Feb 22
                                                      2022 helloWorld.c
 rw-rw-r-- 1 sskisijara sskisijara 2.5M Feb 22
                                                      2022 Linux.pdf
rw-rw-r-- 1 sskisijara sskisijara 8.5K Feb 22
-rw-rw-r-- 1 sskisijara sskisijara 42K Feb 22
                                                      2022 sample.xls
                                                      2022 Tux.png
rw-rw-r-- 1 sskisijara sskisijara 2.1M Feb 22
                                                      2022 Ubuntu.pdf
-rw-rw-r-- 1 sskisijara sskisijara 135K Feb 22
                                                      2022 website.html
sskisijara@CIS106vm:~/lab4files$ ls -lhS
total 6.5M
-rw-rw-r-- 1 sskisijara sskisijara 2.5M Feb 22 2022 Linux.pdf
 rw-rw-r-- 1 sskisijara sskisijara 2.1M Feb 22
                                                      2022 Ubuntu.pdf
                                                      2022 document.docx
-rw-rw-r-- 1 sskisijara sskisijara 747K Feb 22
```

2022 globe.avi

2022 Tux.png

76 Feb 22 2022 helloWorld.c

2022 csvfile.csv 2022 website.html

2022 sample.xls

2022 countries.json

rw-rw-r-- 1 sskisijara sskisijara 726K Feb 22

-rw-rw-r-- 1 sskisijara sskisijara 278K Feb 22 -rw-rw-r-- 1 sskisijara sskisijara 135K Feb 22

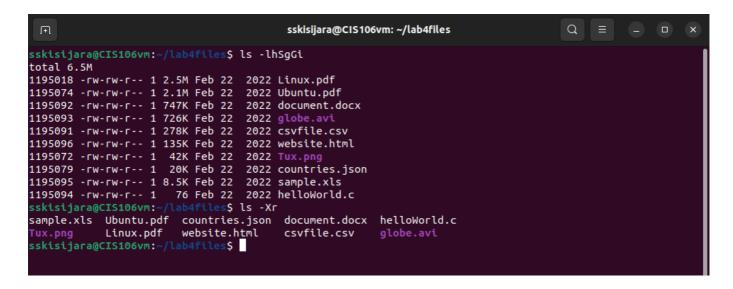
rw-rw-r-- 1 sskisijara sskisijara 42K Feb 22

rw-rw-r-- 1 sskisijara sskisijara 20K Feb 22

rw-rw-r-- 1 sskisijara sskisijara 8.5K Feb 22

rw-rw-r-- 1 sskisijara sskisijar<u>a</u>

sskisijara@CIS106vm:~/lab4files\$



Question 3

```
sskisijara@CIS106vm: ~/Downloads
sskisijara@CIS106vm:~$ cd /etc/
sskisijara@CIS106vm:/etc$ tree /home/sskisijara/lab4files/
    countries.json
   csvfile.csv
   document.docx
    alobe.av
   helloWorld.c
   Linux.pdf
   sample.xls
    Tux.png
   Ubuntu.pdf
   website.html
0 directories, 10 files
sskisijara@CIS106vm:/etc$ cd ~/Downloads/
sskisijara@CIS106vm:~/Downloads$ tree -fph ../lab4files/
drwxrwxr-x 4.0K]
                      ../lab4files/countries.json
    [-rw-rw-r-- 20K]
     -rw-rw-r-- 277K]
                       ../lab4files/csvfile.csv
                       ../lab4files/document.docx
     -rw-rw-r-- 746K]
    [-rw-rw-r-- 725K]
                       ../lab4files/helloWorld.c
    [-rw-rw-r--
                 76]
     -rw-rw-r-- 2.5M]
                       ../lab4files/Linux.pdf
     -rw-rw-r-- 8.5K]
                       ../lab4files/sample.xls
    [-rw-rw-r-- 42K]
     -rw-rw-r-- 2.0M]
                       ../lab4files/Ubuntu.pdf
    [-rw-rw-r-- 134K]
                       ../lab4files/website.html
0 directories, 10 files
sskisijara@CIS106vm:~/Downloads$
                                         sskisijara@CIS106vm: ~/Downloads
sskisijara@CIS106vm:~/Downloads$ tree -tug ../lab4files/
sskisijara sskisijara]
   [sskisijara sskisijara]
                             Linux.pdf
    [sskisijara sskisijara]
                             Tux.png
    [sskisijara sskisijara]
                             Ubuntu.pdf
    [sskisijara sskisijara]
                             sample.xls
    [sskisijara sskisijara]
    [sskisijara sskisijara]
                            document.docx
    [sskisijara sskisijara]
                             csvfile.csv
    [sskisijara sskisijara]
                             countries.json
    [sskisijara sskisijara]
                             website.html
   [sskisijara sskisijara] helloWorld.c
 directories, 10 files
sskisijara@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 display extended file metadata as a table
 -l, --long
 -G, --grid
                     display entries as a grid (default)
 -x, --across
                     sort the grid across, rather than downwards
                     recurse into directories
 -R, --recurse
 -T, --tree
-F, --classify
                     recurse into directories as a tree
                     display type indicator by file names
 --colo[u]r=WHEN
                     when to use terminal colours (always, auto, never)
                     highlight levels of file sizes distinctly
 --colo[u]r-scale
 --icons
                     display icons
 --no-icons
                     don't display icons (always overrides --icons)
FILTERING AND SORTING OPTIONS
 -a, --all
                              show hidden and 'dot' files
 -d, --list-dirs
                              list directories as files; don't list their contents
 -L, --level DEPTH
                              limit the depth of recursion
 -r, --reverse
                              reverse the sort order
 -s, --sort SORT_FIELD
                              which field to sort by
  --group-directories-first
                             list directories before other files
 -D, --only-dirs
                              list only directories
```

```
Valid sort fields:
                                                   name, Name, extension, Extension, size, type,
                                                   modified, accessed, created, inode, and none. date, time, old, and new all refer to modified.
                                                                       sskisijara@CIS106vm: ~/Downloads
sskisijara@CIS106vm:~/Downloads$ exa ~/lab4files/ -l
   w-rw-r-- 20k sskisijara 22 Feb 14:16 countries.json
w-rw-r-- 284k sskisijara 22 Feb 14:15 csvfile.csv
   w-rw-r-- 742k sskisijara 22 Feb 14:12 globe.avi
w-rw-r-- 76 sskisijara 22 Feb 14:18 helloWorld.c
w-rw-r-- 2.6M sskisijara 22 Feb 14:10 Linux.pdf
   w-rw-r-- 8.7k sskisijara 22 Feb 14:12 sample.xls
w-rw-r-- 43k sskisijara 22 Feb 14:10 Tux.png
w-rw-r-- 2.1M sskisijara 22 Feb 14:11 Ubuntu.pdf
     -rw-r-- 137k sskisijara 22 Feb 14:16 website.html
sskisijara@CIS106vm:~/Downloads$
sskisijara@CIS106vm:~/Downloads$ exa ~/lab4files/ -lh
<u>Permissions Size User</u> <u>Date Modified Name</u>
     -rw-r-- 20k sskisijara 22 Feb 14:16 countries.j
-rw-r-- 284k sskisijara 22 Feb 14:15 csvfile.csv
                                                                           countries.json
    w-rw-r-- 742k sskisijara 22 Feb 14:12 globe.avi
w-rw-r-- 76 sskisijara 22 Feb 14:18 helloWorld.c
w-rw-r-- 2.6M sskisijara 22 Feb 14:10 Linux.pdf
    w-rw-r-- 8.7k sskisijara 22 Feb 14:12 sample.xls
w-rw-r-- 43k sskisijara 22 Feb 14:10 Tux.png
w-rw-r-- 2.1M sskisijara 22 Feb 14:11 Ubuntu.pdf
      -rw-r-- 137k sskisijara 22 Feb 14:16 website.html
sskisijara@CIS106vm:~/Downloads$ exa ~/lab4files/ -lh --no-user -U
<u>Permissions Size Date Created Name</u>
    w-rw-r-- 20k 14 Oct 16:43 countries.json
w-rw-r-- 284k 14 Oct 16:43 csvfile.csv
w-rw-r-- 764k 14 Oct 16:43 document.docx
w-rw-r-- 742k 14 Oct 16:43 globe.avi
     76 14 Oct 16:43 helloWorld.c

7-rw-r-- 2.6M 14 Oct 16:43 Linux.pdf

7-rw-r-- 8.7k 14 Oct 16:43 sample.xls

7-rw-r-- 43k 14 Oct 16:43 Tux.png
     /-rw-r-- 2.1M 14 Oct 16:43 Ubuntu.pdf
/-rw-r-- 137k 14 Oct 16:43 website.html
sskisijara@CIS106vm:~/Downloads$
```

Question 4 Challenge Question

