

# Lab 4 Submission

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## Question 1

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1/1 v + [ ] [ ] Tilix: raalberto@cis106vm: /snap/firefox
1: raalberto@cis106vm: /snap/firefox v
raalberto@cis106vm:~$ pwd
/home/raalberto
raalberto@cis106vm:~$ cd /usr/share/themes/
raalberto@cis106vm:/usr/share/themes$ pwd
/usr/share/themes
raalberto@cis106vm:/usr/share/themes$ cd /
raalberto@cis106vm:/$ cd /snap/firefox/
raalberto@cis106vm:/snap/firefox$

1/1 v + [ ] [ ] Tilix: raalberto@cis106vm: ~/Documents
1: raalberto@cis106vm: ~/Documents v
raalberto@cis106vm:/snap/firefox$ cd
raalberto@cis106vm:~$ pwd
/home/raalberto
raalberto@cis106vm:~$ cd Do
Documents/ Downloads/
raalberto@cis106vm:~$ cd Downloads/
raalberto@cis106vm:~/Downloads$ cd ../../
raalberto@cis106vm:/home$ pwd
/home
raalberto@cis106vm:/home$ ls
raalberto
raalberto@cis106vm:/home$ cd raalberto/
.cache/ Desktop/ .fontconfig/ Music/ Public/ Templates/
cis106f22/ Documents/ .gnupg/ Pictures/ snap/ Videos/
.config/ Downloads/ .local/ .pki/ .ssh/ .vscode/
raalberto@cis106vm:/home$ cd raalberto/Documents/
raalberto@cis106vm:~/Documents$ pwd
/home/raalberto/Documents
raalberto@cis106vm:~/Documents$
```

## Question 2

```
1/1  +  [icons]  Tilix: raalberto@cis106vm: ~/lab4files  [search] [menu] [window controls]

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

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

```
1/1 + [ ] [ ] Tilix: raalberto@cis106vm: ~/lab4files
1: raalberto@cis106vm: ~/lab4files
raalberto@cis106vm:~/lab4files$ ls -lhSgGi
total 6.5M
2490783 -rw-rw-r-- 1 2.5M Feb 22 2022 Linux.pdf
2490785 -rw-rw-r-- 1 2.1M Feb 22 2022 Ubuntu.pdf
2490788 -rw-rw-r-- 1 747K Feb 22 2022 document.docx
2490789 -rw-rw-r-- 1 726K Feb 22 2022 globe.avi
2490787 -rw-rw-r-- 1 278K Feb 22 2022 csvfile.csv
2490792 -rw-rw-r-- 1 135K Feb 22 2022 website.html
2490784 -rw-rw-r-- 1 42K Feb 22 2022 Tux.png
2490786 -rw-rw-r-- 1 20K Feb 22 2022 countries.json
2490791 -rw-rw-r-- 1 8.5K Feb 22 2022 sample.xls
2490790 -rw-rw-r-- 1 76 Feb 22 2022 helloWorld.c
raalberto@cis106vm:~/lab4files$ ls -Xr
sample.xls  Ubuntu.pdf  countries.json  document.docx  helloWorld.c
Tux.png     Linux.pdf   website.html   csvfile.csv    globe.avi
raalberto@cis106vm:~/lab4files$
```

### Question 3



```
1/1 v + [T] [C] Tilix: raalberto@cis106vm: ~/Downloads
1: raalberto@cis106vm: ~/Downloads v AI □ x

raalberto@cis106vm:/etc$ tree ~/lab4files/
/home/raalberto/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
raalberto@cis106vm:/etc$ cd ~/Downloads/
raalberto@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

1/1 v + [T] [C] Tilix: raalberto@cis106vm: ~/Downloads
1: raalberto@cis106vm: ~/Downloads v AI □ x

raalberto@cis106vm:~/Downloads$ tree -tug ../lab4files/
[raalberto raalberto] ../lab4files/
├── [raalberto raalberto] Linux.pdf
├── [raalberto raalberto] Tux.png
├── [raalberto raalberto] Ubuntu.pdf
├── [raalberto raalberto] sample.xls
├── [raalberto raalberto] globe.avi
├── [raalberto raalberto] document.docx
├── [raalberto raalberto] csvfile.csv
├── [raalberto raalberto] countries.json
├── [raalberto raalberto] website.html
└── [raalberto raalberto] helloWorld.c

0 directories, 10 files
raalberto@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 --one-line         display one entry per line
```

```
Tilix: raalberto@cis106vm: ~/Downloads
1: raalberto@cis106vm: ~/Downloads
Permissions Size User Date Modified Name
.rw-rw-r-- 20k raalberto 22 Feb 14:16 countries.json
.rw-rw-r-- 284k raalberto 22 Feb 14:15 csvfile.csv
.rw-rw-r-- 764k raalberto 22 Feb 14:13 document.docx
.rw-rw-r-- 742k raalberto 22 Feb 14:12 globe.avi
.rw-rw-r-- 76 raalberto 22 Feb 14:18 helloWorld.c
.rw-rw-r-- 2.6M raalberto 22 Feb 14:10 Linux.pdf
.rw-rw-r-- 8.7k raalberto 22 Feb 14:12 sample.xls
.rw-rw-r-- 43k raalberto 22 Feb 14:10 Tux.png
.rw-rw-r-- 2.1M raalberto 22 Feb 14:11 Ubuntu.pdf
.rw-rw-r-- 137k raalberto 22 Feb 14:16 website.html
raalberto@cis106vm:~/Downloads$ exa ~/lab4files/ -lh --no-user -U
Permissions Size Date Created Name
.rw-rw-r-- 20k 3 Oct 21:56 countries.json
.rw-rw-r-- 284k 3 Oct 21:56 csvfile.csv
.rw-rw-r-- 764k 3 Oct 21:56 document.docx
.rw-rw-r-- 742k 3 Oct 21:56 globe.avi
.rw-rw-r-- 76 3 Oct 21:56 helloWorld.c
.rw-rw-r-- 2.6M 3 Oct 21:56 Linux.pdf
.rw-rw-r-- 8.7k 3 Oct 21:56 sample.xls
.rw-rw-r-- 43k 3 Oct 21:56 Tux.png
.rw-rw-r-- 2.1M 3 Oct 21:56 Ubuntu.pdf
.rw-rw-r-- 137k 3 Oct 21:56 website.html
raalberto@cis106vm:~/Downloads$
```

## Question 4 Challenge Question