

Lab 4 Submission

Question 1

```
djnunez43983@CIS106VM:~$ pwd
/home/djnunez43983
djnunez43983@CIS106VM:~$ /usr/share/themes
bash: /usr/share/themes: Is a directory
djnunez43983@CIS106VM:~$ pwd
/home/djnunez43983
djnunez43983@CIS106VM:~$ cd /usr/share/themes/
djnunez43983@CIS106VM:/usr/share/themes$ pwd
/usr/share/themes
djnunez43983@CIS106VM:/usr/share/themes$ cd/
bash: cd/: No such file or directory
djnunez43983@CIS106VM:/usr/share/themes$ cd /
djnunez43983@CIS106VM:/$ cd /snap/firefox/
djnunez43983@CIS106VM:/snap/firefox$ █

djnunez43983@CIS106VM:/snap/firefox$ cd
djnunez43983@CIS106VM:~$ cd Downloads/
djnunez43983@CIS106VM:~/Downloads$ cd ../../
djnunez43983@CIS106VM:/home$ pwd
/home
djnunez43983@CIS106VM:/home$ ls
djnunez43983
djnunez43983@CIS106VM:/home$ cd djnunez43983
djnunez43983@CIS106VM:~$ cd djnunez43983/
bash: cd: djnunez43983/: No such file or directory
djnunez43983@CIS106VM:~$ pwd
/home/djnunez43983
djnunez43983@CIS106VM:~$ cd
djnunez43983@CIS106VM:~$ pwd
/home/djnunez43983
djnunez43983@CIS106VM:~$ cd ../
djnunez43983@CIS106VM:/home$ cd djnunez43983/
djnunez43983@CIS106VM:~$ ls
cis106  Documents  gitcommands.txt  Music  Public  Templates
Desktop Downloads  installPrograms.sh Pictures snap  Videos
djnunez43983@CIS106VM:~$ cd djnunez43983/Documents/
bash: cd: djnunez43983/Documents/: No such file or directory
djnunez43983@CIS106VM:~$ cd ../
djnunez43983@CIS106VM:/home$ cd djnunez43983/Documents/
djnunez43983@CIS106VM:~/Documents$ pwd
/home/djnunez43983/Documents
djnunez43983@CIS106VM:~/Documents$ █
```

Question 2


```

djnunez43983@CIS106VM:~$ cd Downloads/
djnunez43983@CIS106VM:~/Downloads$ cd ../../
djnunez43983@CIS106VM:/home$ pwd
/home
djnunez43983@CIS106VM:/home$ ls
djnunez43983
djnunez43983@CIS106VM:/home$ cd djnunez43983
djnunez43983@CIS106VM:~$ cd djnunez43983/
bash: cd: djnunez43983/: No such file or directory
djnunez43983@CIS106VM:~$ pwd
/home/djnunez43983
djnunez43983@CIS106VM:~$ cd
djnunez43983@CIS106VM:~$ pwd
/home/djnunez43983
djnunez43983@CIS106VM:~$ cd ../
djnunez43983@CIS106VM:/home$ cd djnunez43983/
djnunez43983@CIS106VM:~$ ls
cis106  Documents  gitcommands.txt  Music  Public  Templates
Desktop Downloads  installPrograms.sh  Pictures  snap  Videos
djnunez43983@CIS106VM:~$ cd djnunez43983/Documents/
bash: cd: djnunez43983/Documents/: No such file or directory
djnunez43983@CIS106VM:~$ cd ../
djnunez43983@CIS106VM:/home$ cd djnunez43983/Documents/
djnunez43983@CIS106VM:~/Documents$ pwd
/home/djnunez43983/Documents
djnunez43983@CIS106VM:~/Documents$ cd /usr/share/
djnunez43983@CIS106VM:/usr/share$ ls /home/djnunez43983/lab4files/
countries.json  document.docx  helloWorld.c  sample.xls  Ubuntu.pdf
csvfile.csv    globe.avi      Linux.pdf     Tux.png     website.html
djnunez43983@CIS106VM:/usr/share$ cd /home/djnunez43983/lab4files/
djnunez43983@CIS106VM:~/lab4files$ ls -l
total 6580
-rw-rw-r-- 1 djnunez43983 djnunez43983 20471 Feb 22 2022 countries.json
-rw-rw-r-- 1 djnunez43983 djnunez43983 284042 Feb 22 2022 csvfile.csv
-rw-rw-r-- 1 djnunez43983 djnunez43983 764176 Feb 22 2022 document.docx
-rw-rw-r-- 1 djnunez43983 djnunez43983 742478 Feb 22 2022 globe.avi
-rw-rw-r-- 1 djnunez43983 djnunez43983 76 Feb 22 2022 helloWorld.c
-rw-rw-r-- 1 djnunez43983 djnunez43983 2600138 Feb 22 2022 Linux.pdf
-rw-rw-r-- 1 djnunez43983 djnunez43983 8704 Feb 22 2022 sample.xls
-rw-rw-r-- 1 djnunez43983 djnunez43983 42777 Feb 22 2022 Tux.png
-rw-rw-r-- 1 djnunez43983 djnunez43983 2114053 Feb 22 2022 Ubuntu.pdf
-rw-rw-r-- 1 djnunez43983 djnunez43983 137453 Feb 22 2022 website.html
djnunez43983@CIS106VM:~/lab4files$

```

Show Applications

```

djnunez43983@CIS106VM:~/lab4files$ ls -lh
total 6.5M
-rw-rw-r-- 1 djnunez43983 djnunez43983 20K Feb 22 2022 countries.json
-rw-rw-r-- 1 djnunez43983 djnunez43983 278K Feb 22 2022 csvfile.csv
-rw-rw-r-- 1 djnunez43983 djnunez43983 747K Feb 22 2022 document.docx
-rw-rw-r-- 1 djnunez43983 djnunez43983 726K Feb 22 2022 globe.avi
-rw-rw-r-- 1 djnunez43983 djnunez43983 76 Feb 22 2022 helloWorld.c
-rw-rw-r-- 1 djnunez43983 djnunez43983 2.5M Feb 22 2022 Linux.pdf
-rw-rw-r-- 1 djnunez43983 djnunez43983 8.5K Feb 22 2022 sample.xls
-rw-rw-r-- 1 djnunez43983 djnunez43983 42K Feb 22 2022 Tux.png
-rw-rw-r-- 1 djnunez43983 djnunez43983 2.1M Feb 22 2022 Ubuntu.pdf
-rw-rw-r-- 1 djnunez43983 djnunez43983 135K Feb 22 2022 website.html
djnunez43983@CIS106VM:~/lab4files$ ls -lhs
total 6.5M
-rw-rw-r-- 1 djnunez43983 djnunez43983 2.5M Feb 22 2022 Linux.pdf
-rw-rw-r-- 1 djnunez43983 djnunez43983 2.1M Feb 22 2022 Ubuntu.pdf
-rw-rw-r-- 1 djnunez43983 djnunez43983 747K Feb 22 2022 document.docx
-rw-rw-r-- 1 djnunez43983 djnunez43983 726K Feb 22 2022 globe.avi

```

```
-rw-rw-r-- 1 djnunez43983 djnunez43983 726K Feb 22 2022 globe.avi
-rw-rw-r-- 1 djnunez43983 djnunez43983 278K Feb 22 2022 csvfile.csv
-rw-rw-r-- 1 djnunez43983 djnunez43983 135K Feb 22 2022 website.html
-rw-rw-r-- 1 djnunez43983 djnunez43983 42K Feb 22 2022 Tux.png
-rw-rw-r-- 1 djnunez43983 djnunez43983 20K Feb 22 2022 countries.json
-rw-rw-r-- 1 djnunez43983 djnunez43983 8.5K Feb 22 2022 sample.xls
-rw-rw-r-- 1 djnunez43983 djnunez43983 76 Feb 22 2022 helloWorld.c
djnunez43983@CIS106VM:~/lab4files$

-rw-rw-r-- 1 djnunez43983 djnunez43983 20K Feb 22 2022 countries.json
-rw-rw-r-- 1 djnunez43983 djnunez43983 8.5K Feb 22 2022 sample.xls
-rw-rw-r-- 1 djnunez43983 djnunez43983 76 Feb 22 2022 helloWorld.c
djnunez43983@CIS106VM:~/lab4files$ ls -lhSgGi
total 6.5M
1580696 -rw-rw-r-- 1 2.5M Feb 22 2022 Linux.pdf
1580699 -rw-rw-r-- 1 2.1M Feb 22 2022 Ubuntu.pdf
1580701 -rw-rw-r-- 1 747K Feb 22 2022 document.docx
1580702 -rw-rw-r-- 1 726K Feb 22 2022 globe.avi
1580700 -rw-rw-r-- 1 278K Feb 22 2022 csvfile.csv
1580705 -rw-rw-r-- 1 135K Feb 22 2022 website.html
1580698 -rw-rw-r-- 1 42K Feb 22 2022 Tux.png
1580697 -rw-rw-r-- 1 20K Feb 22 2022 countries.json
1580704 -rw-rw-r-- 1 8.5K Feb 22 2022 sample.xls
1580703 -rw-rw-r-- 1 76 Feb 22 2022 helloWorld.c
djnunez43983@CIS106VM:~/lab4files$ ls -Xr
sample.xls Tux.png Ubuntu.pdf Linux.pdf countries.json website.html document.docx csvfile.csv helloWorld.c globe.avi
djnunez43983@CIS106VM:~/lab4files$
```

Question 3

```

0 directories, 10 files
djnunez43983@CIS106VM:~/Downloads$ tree -tug ../lab4files/
[djnunez43983 djnunez43983] ../lab4files/
├── [djnunez43983 djnunez43983] Linux.pdf
├── [djnunez43983 djnunez43983] Tux.png
├── [djnunez43983 djnunez43983] Ubuntu.pdf
├── [djnunez43983 djnunez43983] sample.xls
├── [djnunez43983 djnunez43983] globe.avi
├── [djnunez43983 djnunez43983] document.docx
├── [djnunez43983 djnunez43983] csvfile.csv
├── [djnunez43983 djnunez43983] countries.json
├── [djnunez43983 djnunez43983] website.html
└── [djnunez43983 djnunez43983] helloWorld.c

```

```

0 directories, 10 files
djnunez43983@CIS106VM:~/Downloads$ exa --help
Usage:
  exa [options] [files...]

```

META OPTIONS

```

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

```

```

djnunez43983@CIS106VM:~/Downloads$ exa /home/djnunez43983/lab4files/ -l
.rw-rw-r-- 20k djnunez43983 22 Feb 14:16 countries.json
.rw-rw-r-- 284k djnunez43983 22 Feb 14:15 csvfile.csv
.rw-rw-r-- 764k djnunez43983 22 Feb 14:13 document.docx
.rw-rw-r-- 742k djnunez43983 22 Feb 14:12 globe.avi
.rw-rw-r-- 76 djnunez43983 22 Feb 14:18 helloWorld.c
.rw-rw-r-- 2.6M djnunez43983 22 Feb 14:10 Linux.pdf
.rw-rw-r-- 8.7k djnunez43983 22 Feb 14:12 sample.xls
.rw-rw-r-- 43k djnunez43983 22 Feb 14:10 Tux.png
.rw-rw-r-- 2.1M djnunez43983 22 Feb 14:11 Ubuntu.pdf
.rw-rw-r-- 137k djnunez43983 22 Feb 14:16 website.html
djnunez43983@CIS106VM:~/Downloads$ exa /home/djnunez43983/lab4files/ -lh
Permissions Size User Date Modified Name
.rw-rw-r-- 20k djnunez43983 22 Feb 14:16 countries.json
.rw-rw-r-- 284k djnunez43983 22 Feb 14:15 csvfile.csv
.rw-rw-r-- 764k djnunez43983 22 Feb 14:13 document.docx
.rw-rw-r-- 742k djnunez43983 22 Feb 14:12 globe.avi
.rw-rw-r-- 76 djnunez43983 22 Feb 14:18 helloWorld.c
.rw-rw-r-- 2.6M djnunez43983 22 Feb 14:10 Linux.pdf
.rw-rw-r-- 8.7k djnunez43983 22 Feb 14:12 sample.xls
.rw-rw-r-- 43k djnunez43983 22 Feb 14:10 Tux.png
.rw-rw-r-- 2.1M djnunez43983 22 Feb 14:11 Ubuntu.pdf
.rw-rw-r-- 137k djnunez43983 22 Feb 14:16 website.html
djnunez43983@CIS106VM:~/Downloads$ █

```



```
djnunez43983@CIS106VM:~/Downloads$ exa /home/djnunez43983/lab4files/ -l
.rw-rw-r-- 20k djnunez43983 22 Feb 14:16 countries.json
.rw-rw-r-- 284k djnunez43983 22 Feb 14:15 csvfile.csv
.rw-rw-r-- 764k djnunez43983 22 Feb 14:13 document.docx
.rw-rw-r-- 742k djnunez43983 22 Feb 14:12 globe.avi
.rw-rw-r-- 76 djnunez43983 22 Feb 14:18 helloWorld.c
.rw-rw-r-- 2.6M djnunez43983 22 Feb 14:10 Linux.pdf
.rw-rw-r-- 8.7k djnunez43983 22 Feb 14:12 sample.xls
.rw-rw-r-- 43k djnunez43983 22 Feb 14:10 Tux.png
.rw-rw-r-- 2.1M djnunez43983 22 Feb 14:11 Ubuntu.pdf
.rw-rw-r-- 137k djnunez43983 22 Feb 14:16 website.html
djnunez43983@CIS106VM:~/Downloads$ exa /home/djnunez43983/lab4files/ -lh
Permissions Size User Date Modified Name
.rw-rw-r-- 20k djnunez43983 22 Feb 14:16 countries.json
.rw-rw-r-- 284k djnunez43983 22 Feb 14:15 csvfile.csv
.rw-rw-r-- 764k djnunez43983 22 Feb 14:13 document.docx
.rw-rw-r-- 742k djnunez43983 22 Feb 14:12 globe.avi
.rw-rw-r-- 76 djnunez43983 22 Feb 14:18 helloWorld.c
.rw-rw-r-- 2.6M djnunez43983 22 Feb 14:10 Linux.pdf
.rw-rw-r-- 8.7k djnunez43983 22 Feb 14:12 sample.xls
.rw-rw-r-- 43k djnunez43983 22 Feb 14:10 Tux.png
.rw-rw-r-- 2.1M djnunez43983 22 Feb 14:11 Ubuntu.pdf
.rw-rw-r-- 137k djnunez43983 22 Feb 14:16 website.html
djnunez43983@CIS106VM:~/Downloads$ exa /home/djnunez43983/lab4files/ -lh --no-user -U
Permissions Size Date Created Name
.rw-rw-r-- 20k 15 Oct 20:25 countries.json
.rw-rw-r-- 284k 15 Oct 20:25 csvfile.csv
.rw-rw-r-- 764k 15 Oct 20:25 document.docx
.rw-rw-r-- 742k 15 Oct 20:25 globe.avi
.rw-rw-r-- 76 15 Oct 20:25 helloWorld.c
.rw-rw-r-- 2.6M 15 Oct 20:25 Linux.pdf
.rw-rw-r-- 8.7k 15 Oct 20:25 sample.xls
.rw-rw-r-- 43k 15 Oct 20:25 Tux.png
.rw-rw-r-- 2.1M 15 Oct 20:25 Ubuntu.pdf
.rw-rw-r-- 137k 15 Oct 20:25 website.html
djnunez43983@CIS106VM:~/Downloads$
```

Question 4

```
djnunez43983@CIS106VM:~/Downloads$ pwd
/home/djnunez43983/Downloads
djnunez43983@CIS106VM:~/Downloads$ cd
djnunez43983@CIS106VM:~$ pwd
/home/djnunez43983
djnunez43983@CIS106VM:~$ ls
cis106  Documents  gitcommands.txt  lab4files  Pictures  snap  Videos
Desktop  Downloads  installPrograms.sh  Music  Public  Templates
djnunez43983@CIS106VM:~$ cd /usr/share/icons/default/
djnunez43983@CIS106VM:/usr/share/icons/default$ pwd
/usr/share/icons/default
djnunez43983@CIS106VM:/usr/share/icons/default$ cd
djnunez43983@CIS106VM:~$ cd /proc/sys/ipv4
bash: cd: /proc/sys/ipv4: No such file or directory
djnunez43983@CIS106VM:~$ cd /proc/sys/net/ipv4
/home/djnunez43983
djnunez43983@CIS106VM:~$ cd /usr/share/icons/default/
djnunez43983@CIS106VM:/usr/share/icons/default$ cd /proc/sys/net/ipv4
djnunez43983@CIS106VM:/proc/sys/net/ipv4$ cd -
/usr/share/icons/default
djnunez43983@CIS106VM:/usr/share/icons/default$ ls /usr/share/backgrounds
Blue_flower_by_Elena_Stravoravdi.jpg      jj_light_by_Hiking93.jpg
canvas_by_roytanck.jpg                    Mirror_by_Uday_Nakade.jpg
Cherry_Tree_in_Lakones_by_elenastravoravdi.jpg  Optical_Fibers_in_Dark_by_Elena_Stravoravdi.jpg
contest                                   ubuntu2_by_arman1992.jpg
DSC2943_by_kcpru.jpg                     ubuntu_by_arman1992.jpg
Jammy-Jellyfish_WP_4096x2304_Grey.png      ubuntu-default-greyscale-wallpaper.png
jj_dark_by_Hiking93.jpg                   warty-final-ubuntu.png
djnunez43983@CIS106VM:/usr/share/icons/default$ ls /home/djnunez43983/cis106/
cheatSheets  finalproject  labs  weekreports
```

```
djnunez43983@CIS106VM:/dev/disk/by-id$ ls -lt /usr/share/themes/
Yaru          Yaru-dark      Yaru-magenta-dark    Yaru-purple        Yaru-sage-dark     Emacs
Yaru-bark     Yaru-dark-hdpi Yaru-olive            Yaru-purple-dark   Yaru-viridian      Raleigh
Yaru-bark-dark Yaru-dark-xhdpi Yaru-olive-dark       Yaru-red           Yaru-iridian-dark  Adwaita
Yaru-blue     Yaru-hdpi      Yaru-prussiangreen    Yaru-red-dark      Yaru-xhdpi         Adwaita-dark
Yaru-blue-dark Yaru-magenta    Yaru-prussiangreen-dark Yaru-sage          Default            HighContrast
djnunez43983@CIS106VM:/dev/disk/by-id$ ls -lx /usr/share/
accountsservice      aclocal             acpi-support         adduser
aisleriot             alacarte            alsa                 alsa-base
alsa-card-profile    appdata             app-info             applications
appport              apps                apturl               aspell
avahi                 backgrounds         base-files           base-passwd
bash-completion      binfmts             branding             brltty
bug                   build-essential    ca-certificates     caffeine-indicator
catdoc                cmake               cogl                  color
colord                common-licenses    consolefonts         console-setup
consoletrans         cowsay              cups                 dbus-1
dconf                 debconf             debhelper            debianutils
defaults             desktop-directories dict                  dictionaries-common
distro-info           djvu                dns                   dnsmasq-base
doc                  doc-base            dpkg                 drirc.d
emacs                 emacsen-common     enchant-2            eog
evince                evolution-data-server figlet                file
file-roller           fish                flameshot            flatpak
fontconfig            fonts               fonts-droid-fallback fonts-sil-abysynica
fonts-sil-padauk      foo2qpdf            foo2zjs              fwupd
gamemode              games               gcc                  GConf
gdb                   gdm                 geany                 gedit
GeoIP                 gettext            ghostscript           gir-1.0
git-core              gitweb              glade                 glib-2.0
glvnd                 gnome               gnome-applets         gnome-background-properties
gnome-bluetooth       gnome-bluetooth-3.0 gnome-control-center  gnome-initial-setup
gnome-logs            gnome-mahjongg      gnome-panel           gnome-remote-desktop
gnome-session         gnome-settings-daemon gnome-shell            gnome-software
gnome-system-monitor  gnome-todo          gnome-tweaks          gnome-video-effects
gnupg                 goa-1.0             grilo-plugins         groff
grub                  grub-gfxpayload-lists gst-plugins-base      gstreamer-1.0
gtk-4.0               gtk-doc             gtk-engines           gtksourceview-2.0
gtksourceview-3.0     gtksourceview-4     guile                 gupnp-av
gupnp-dlna-2.0        gvfs                help                  help-langpack
hplip                 hwpdata             hyphen                icons
i18n                  ibus                indicator-application installed-tests
ImageMagick-6         im-config            initramfs-tools       java
inotifywait           info                 iso-codes             language-selector
inkscape               intel-media-driver  kevinras
```