Sydney Gilmore Class: CIS 106

Lab 4

Question 1

```
/sgilmore@cis106:~$ pwd
/home/sgilmore
sgilmore@cis106:~$ cd /usr/share/themes/
sgilmore@cis106:/usr/share/themes$ pwd
/usr/share/themes
sgilmore@cis106:/usr/share/themes$ cd ../../
sgilmore@cis106:/$ cd /snap/firefox/
sgilmore@cis106:/snap/firefox$ cd
sgilmore@cis106:/snap/firefox$ cd
sgilmore@cis106:~$ cd ~/Downloads/
sgilmore@cis106:/home$ pwd
/home
sgilmore@cis106:/home$ cd ~/Documents/
sgilmore@cis106:/home$ cd ~/Documents/
sgilmore@cis106:/home$
```

Question 2

```
sgilmore@cis106:~$ cd /usr/share/
sgilmore@cis106:/usr/share$ ls /home/sgilmore/lab4files
countries.json
               document.docx
                               helloWorld.c
                                             sample.xls
                                                         Ubuntu.pdf
               globe.avi
                                                         website.html
csvfile.csv
                               Linux.pdf
                                             Tux.pnq
sgilmore@cis106:~/lab4files$ ls -lh
total 6.5M
-rw-rw-r-- 1 sqilmore sqilmore 20K Feb 22
                                            2022 countries.json
-rw-rw-r-- 1 sgilmore sgilmore 278K Feb 22
                                            2022 csvfile.csv
-rw-rw-r-- 1 sgilmore sgilmore 747K Feb 22
                                            2022 document.docx
-rw-rw-r-- 1 sgilmore sgilmore 726K Feb 22
                                            2022 globe.avi
-rw-rw-r-- 1 sgilmore sgilmore
                                 76 Feb 22
                                            2022 helloWorld.c
-rw-rw-r-- 1 sgilmore sgilmore 2.5M Feb 22
                                            2022 Linux.pdf
-rw-rw-r-- 1 sgilmore sgilmore 8.5K Feb 22
                                            2022 sample.xls
rw-rw-r-- 1 sgilmore sgilmore 42K Feb 22
                                            2022 Tux.png
rw-rw-r-- 1 sgilmore sgilmore 2.1M Feb 22
                                            2022 Ubuntu.pdf
-rw-rw-r-- 1 sgilmore sgilmore 135K Feb 22  2022 website.html
```

```
sgilmore@cis106:~/lab4files$ ls -lhS
total 6.5M
-rw-rw-r-- 1 sgilmore sgilmore 2.5M Feb 22 2022 Linux.pdf
-rw-rw-r-- 1 sgilmore sgilmore 2.1M Feb 22
                                            2022 Ubuntu.pdf
-rw-rw-r-- 1 sgilmore sgilmore 747K Feb 22
                                            2022 document.docx
-rw-rw-r-- 1 sqilmore sqilmore 726K Feb 22
                                            2022 globe.avi
-rw-rw-r-- 1 sgilmore sgilmore 278K Feb 22
                                            2022 csvfile.csv
-rw-rw-r-- 1 sgilmore sgilmore 135K Feb 22
                                            2022 website.html
-rw-rw-r-- 1 sgilmore sgilmore 42K Feb 22
                                            2022 Tux.png
-rw-rw-r-- 1 sgilmore sgilmore 20K Feb 22
                                           2022 countries.json
-rw-rw-r-- 1 sgilmore sgilmore 8.5K Feb 22
                                            2022 sample.xls
-rw-rw-r-- 1 sgilmore sgilmore 76 Feb 22 2022 helloWorld.c
sgilmore@cis106:~/lab4files$ ls -lhSGgi
total 6.5M
2100128 -rw-rw-r-- 1 2.5M Feb 22
                                  2022 Linux.pdf
2105183 -rw-rw-r-- 1 2.1M Feb 22
                                  2022 Ubuntu.pdf
2105186 -rw-rw-r-- 1 747K Feb 22
                                  2022 document.docx
2105187 -rw-rw-r-- 1 726K Feb 22
                                  2022 globe.avi
2105185 -rw-rw-r-- 1 278K Feb 22
                                  2022 csvfile.csv
2105190 -rw-rw-r-- 1 135K Feb 22
                                  2022 website.html
2100129 -rw-rw-r-- 1 42K Feb 22
                                  2022 Tux.png
2105184 -rw-rw-r-- 1 20K Feb 22
                                  2022 countries.json
2105189 -rw-rw-r-- 1 8.5K Feb 22
                                  2022 sample.xls
2105188 -rw-rw-r-- 1 76 Feb 22
                                  2022 helloWorld.c
sgilmore@cis106:~/lab4files$ ls -Xr
sample.xls Ubuntu.pdf
                       countries.json
                                        document.docx
                                                       helloWorld.c
Tux.png
            Linux.pdf
                        website.html
                                        csvfile.csv
                                                       globe.avi
```

Question 3

```
sgilmore@cis106:~$ cd /etc/
sgilmore@cis106:/etc$ tree /home/sgilmore/lab4files
   - countries.json
   csvfile.csv
   document.docx
    qlobe.avi
   helloWorld.c
   · Linux.pdf
   sample.xls
    Tux.png
   - Ubuntu.pdf
   - website.html
0 directories, 10 files
sgilmore@cis106:/etc$
sgilmore@cis106:~/Downloads$ tree -fph ../lab4files
[drwxrwxr-x 4.0K] ../lab4files
    [-rw-rw-r-- 20K]
                       ../lab4files/countries.json
                      ../lab4files/csvfile.csv
     -rw-rw-r-- 277K]
    [-rw-rw-r-- 746K]
                       ../lab4files/document.docx
     -rw-rw-r-- 725K]
                       ../lab4files/globe.avi
                       ../lab4files/helloWorld.c
                  76]
     -rw-rw-r-- 2.5M]
                       ../lab4files/Linux.pdf
                       ../lab4files/sample.xls
     -rw-rw-r-- 8.5K]
                       ../lab4files/Tux.png
    [-rw-rw-r-- 42K]
                       ../lab4files/Ubuntu.pdf
     -rw-rw-r-- 2.0M]
                       ../lab4files/website.html
    [-rw-rw-r-- 134K]
0 directories, 10 files
sgilmore@cis106:~/Downloads$ tree -tug ../lab4files
[sgilmore sgilmore] ../lab4files
   ·[sgilmore sgilmore]
                         Linux.pdf
    [sgilmore sgilmore]
                         Tux.png
    [sgilmore sgilmore]
                         Ubuntu.pdf
   [sqilmore sqilmore]
                        sample.xls
                         globe.avi
    [sgilmore sgilmore]
                        document.docx
  - [sgilmore sgilmore]
    [sgilmore sgilmore] csvfile.csv
    [sgilmore sgilmore]
                        countries.json
    [sgilmore sgilmore] website.html
    [sgilmore sgilmore] helloWorld.c
0 directories, 10 files
```

```
sgilmore@cis106:~/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
-T, --tree
                     recurse into directories
                     recurse into directories as a tree
 -F, --classify
                     display type indicator by file names
  --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
                     don't display icons (always overrides --icons)
  --no-icons
FILTERING AND SORTING OPTIONS
                             show hidden and 'dot' files
  -a, --all
  -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
  -I, --ignore-glob GLOBS
                             glob patterns (pipe-separated) of files to ignore
  --git-ignore
                             ignore files mentioned in '.gitignore'
 Valid sort fields:
                             name, Name, extension, Extension, size, type,
                             modified, accessed, created, inode, and none.
                             date, time, old, and new all refer to modified.
```

```
sgilmore@cis106:~/Downloads$ exa -l ../lab4files
.rw-rw-r-- 20k sgilmore 22 Feb 14:16 countries.json
.rw-rw-r-- 284k sgilmore 22 Feb 14:15 csvfile.csv
.rw-rw-r-- 764k sgilmore 22 Feb 14:13 document.docx
.rw-rw-r-- 742k sgilmore 22 Feb 14:12 globe.avi
.rw-rw-r-- 76 sgilmore 22 Feb 14:18 helloWorld.c
.rw-rw-r-- 2.6M sgilmore 22 Feb 14:10 Linux.pdf
.rw-rw-r-- 8.7k sgilmore 22 Feb 14:12 sample.xls
.rw-rw-r-- 43k sgilmore 22 Feb 14:10 Tux.png
.rw-rw-r-- 2.1M sgilmore 22 Feb 14:11 Ubuntu.pdf
.rw-rw-r-- 137k sgilmore 22 Feb 14:16 website.html
sgilmore@cis106:~/Downloads$
```

Question 4

```
sqilmore@cis106:~$ pwd
/home/sgilmore
sgilmore@cis106:~$ cd /usr/share/icons/default/
sgilmore@cis106:/usr/share/icons/default$ cd /proc/sys/net/ipv4
sgilmore@cis106:/proc/sys/net/ipv4$ cd -
/usr/share/icons/default
sgilmore@cis106:/usr/share/icons/default$ ls /usr/share/backgrounds/
Blue_flower_by_Elena_Stravoravdi.jpg
canvas by roytanck.jpg
Cherry_Tree_in_Lakones_by_elenastravoravdi.jpg
DSC2943_by_kcpru.jpg
Jammy-Jellyfish_WP_4096x2304_Grey.png
jj dark by Hiking93.jpg
jj_light_by_Hiking93.jpg
Mirror_by_Uday_Nakade.jpg
Optical_Fibers_in_Dark_by_Elena_Stravoravdi.jpg
ubuntu2_by_arman1992.jpg
ubuntu_by_arman1992.jpg
ubuntu-default-greyscale-wallpaper.png
warty-final-ubuntu.png
sgilmore@cis106:/usr/share/icons/default$
```

```
gilmore@cis106:/usr/share/icons/default$ cd
sgilmore@cis106:~$ ls ~/cis106/
sgilmore@cis106:~$ ls ~/cis106/
sqilmore@cis106:~$ pwd
/home/sgilmore
sgilmore@cis106:~$ ls ~/Downloads/
devhints-io-markdown.pdf
 Linux Workshop Ubuntu Software installation cheat sheet.png'
 SWTM-2088_Atlassian-Git-Cheatsheet.pdf
sgilmore@cis106:~$ cd /dev/disk/by-id/
sgilmore@cis106:/dev/disk/by-id$ ls -la
drwxr-xr-x 2 root root 140 Oct 11 14:39
drwxr-xr-x 7 root root 140 Oct 11 14:39
                          9 Oct 11 14:39 ata-VBOX_CD-ROM_VB1-1a2b3c4d -> .../../sr0
lrwxrwxrwx 1 root root
                          9 Oct 11 14:39 ata-VBOX_HARDDISK_VB17214ef0-f191398e -> ../../sda
lrwxrwxrwx 1 root root
lrwxrwxrwx 1 root root 10 Oct 11 14:39 ata-VBOX_HARDDISK_VB17214ef0-f191398e-part1 -> ../../sda1
lrwxrwxrwx 1 root root 10 Oct 11 14:39 ata-VBOX_HARDDISK_VB17214ef0-f191398e-part2 -> ../../sda2
lrwxrwxrwx 1 root root 10 Oct 11_14:39 ata-VBOX_HARDDISK_VB17214ef0-f191398e-part3 -> ../../sda3
sgilmore@cis106:/dev/disk/by-id$
```

sgilmore@cis106:/dev/disk/by-id\$ ls -t /usr/share/themes/
Yaru Yaru-hdpi Yaru-purple-dark Default
Yaru-bark Yaru-magenta Yaru-red Emacs
Yaru-bark-dark Yaru-magenta-dark Yaru-red-dark Raleigh
Yaru-blue Yaru-olive Yaru-sage Adwaita
Yaru-blue-dark Yaru-olive-dark Yaru-sage-dark Adwaita-dark
Yaru-dark Yaru-prussiangreen Yaru-viridian HighContrast
Yaru-dark-hdpi Yaru-prussiangreen-dark Yaru-viridian-dark
Yaru-dark-xhdpi Yaru-purple Yaru-xhdpi
sgilmore@cis106:/dev/disk/by-id\$ ls -X /usr/share/
accountsservice libgnomekbd
aclocal libgweather
acpi-support libgweather-4
adduser liblouis
alsa liblouisutdml
alsa-base libmysofa
alsa-card-profile libreoffice
appdata librevenge
app-info libthai
applications libwacom
apport lightdm
apps lintian
apturl linux-sound-base
aspell