name: Fiorella Alarcon class: cis106 semester: spring 22

Lab 4 The Linux Filesystem

Question 1

Table 1

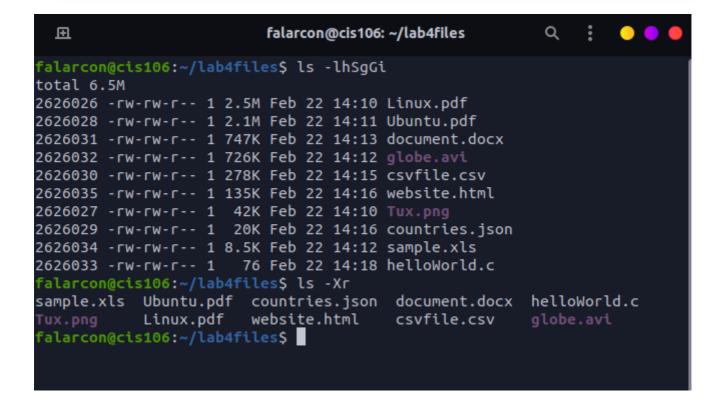
Directory	Function		
bin	essential commands		
dev	device files		
etc	system configuration files		
home	user home directories		
media	mount point for removable media, such as DVDs and floppy disks		
opt	add-on software packages		
ргос	kernel information, process control, system hardware information.		
SrV	information relating to services that run on the system		
usr	software not essential for system operation, such as applications		
var	dedicated to variable data, such as logs, databases, websites, and temp spool files that persist from one boot to the next		

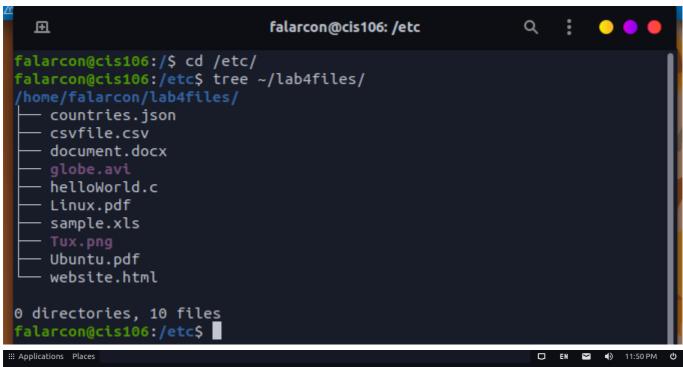
Table 2

Command	What it does	Syntax	Example
cd	changes the current directory	cd + destination	cd + \$HOME
pwd	displays current working directory	pwd	pwd
ls	displays all the files inside a given directory	ls	ls + -a



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                          falarcon@cis106: ~/lab4files
falarcon@cis106:~$ cd /usr/share
falarcon@cis106:/usr/share$ ls /home/falarcon/lab4files/
countries.json document.docx helloWorld.c sample.xls
                                                         Ubuntu.pdf
                globe.avi
csvfile.csv
                               Linux.pdf
                                                         website.html
falarcon@cis106:/usr/share$ cd ~/lab4files/
falarcon@cis106:~/lab4files$ ls -lh
-rw-rw-r-- 1 falarcon falarcon 20K Feb 22 14:16 countries.json
-rw-rw-r-- 1 falarcon falarcon 278K Feb 22 14:15 csvfile.csv
-rw-rw-r-- 1 falarcon falarcon 747K Feb 22 14:13 document.docx
-rw-rw-r-- 1 falarcon falarcon 726K Feb 22 14:12 globe.avi
-rw-rw-r-- 1 falarcon falarcon
                               76 Feb 22 14:18 helloWorld.c
-rw-rw-r-- 1 falarcon falarcon 2.5M Feb 22 14:10 Linux.pdf
-rw-rw-r-- 1 falarcon falarcon 8.5K Feb 22 14:12 sample.xls
-rw-rw-r-- 1 falarcon falarcon 42K Feb 22 14:10 Tux.png
-rw-rw-r-- 1 falarcon falarcon 2.1M Feb 22 14:11 Ubuntu.pdf
-rw-rw-r-- 1 falarcon falarcon 135K Feb 22 14:16 website.html
falarcon@cis106:~/lab4files$ ls -lhS
total 6.5M
-rw-rw-r-- 1 falarcon falarcon 2.5M Feb 22 14:10 Linux.pdf
-rw-rw-r-- 1 falarcon falarcon 2.1M Feb 22 14:11 Ubuntu.pdf
-rw-rw-r-- 1 falarcon falarcon 747K Feb 22 14:13 document.docx
-rw-rw-r-- 1 falarcon falarcon 726K Feb 22 14:12 globe.avi
-rw-rw-r-- 1 falarcon falarcon 278K Feb 22 14:15 csvfile.csv
-rw-rw-r-- 1 falarcon falarcon 135K Feb 22 14:16 website.html
-rw-rw-r-- 1 falarcon falarcon 42K Feb 22 14:10 Tux.png
-rw-rw-r-- 1 falarcon falarcon 20K Feb 22 14:16 countries.json
-rw-rw-r-- 1 falarcon falarcon 8.5K Feb 22 14:12 sample.xls
-rw-rw-r-- 1 falarcon falarcon 76 Feb 22 14:18 helloWorld.c
falarcon@cis106:~/lab4files$
```





```
Q : 0 0
                                                                                                                                                                               falarcon@cis106: ~/Downloads
alarcon@cis106:~$ cd ~/Downloads/
alarcon@cis106:~/Downloads$ tree ../lab4files/ -fph
./lab4files
       [-rw-rw-r-- 20K]
[-rw-rw-r-- 27K]
[-rw-rw-r-- 746K]
[-rw-rw-r-- 725K]
[-rw-rw-r-- 2.5M]
[-rw-rw-r-- 8.5K]
[-rw-rw-r-- 42K]
[-rw-rw-r-- 134K]
                                                                ../lab4files/csvfile.csv
../lab4files/document.docx
                                                                ../lab4files/helloWorld.c
../lab4files/Linux.pdf
../lab4files/sample.xls
                                                                ../lab4files/Ubuntu.pdf
../lab4files/website.html
 directories, 10 files
alarcon@cis106:~/Downloads$ tree ../lab4files/ -tug
       [falarcon falarcon]
[falarcon falarcon]
[falarcon falarcon]
[falarcon falarcon]
                                                                       sample.xls
        [falarcon falarcon]
[falarcon falarcon]
                                                                       document.docx
                                                                     csvfile.csv
        [falarcon falarcon]
[falarcon falarcon]
[falarcon falarcon]
                                                                     countries.json
website.html
 directories, 10 files
alarcon@cis106:~/Downloads$ tree ../lab4files/ -X
?xml version="1.0" encoding="UTF-8"?>
 <file name="csvfile.csv"></file>
<file name="document.docx"></file>
<file name="globe.avi"></file>
<file name="lelloWorld.c"></file>
<file name="Linux.pdf"></file>
<file name="sample.xls"></file>
<file name="sample.xls"></file>
<file name="Tux.png"></file>
<file name="buntu.pdf"></file>
<file name="website.html"></file>
<file name="website.html"></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></file></ti>
  </directory>
   <report>
       <directories>0</directories>
<files>10</files>
  </report>
/tree>
 alarcon@cis106:~/Downloads$
```



```
falarcon@cis106: ~
   alarcon@cis106:~$ exa --help
Usage:
exa [options] [files...]
META OPTIONS
    -?, --help
-v, --version
                                                               show version of exa
DISPLAY OPTIONS
                                                             display one entry per line
display extended file metadata as a table
display entries as a grid (default)
sort the grid across, rather than downwards
recurse into directories
recurse into directories as a tree
display type indicator by file names
when to use terminal colours (always, auto, never)
highlight levels of file sizes distinctly
display icons
don't display icons (always overrides --icons)
   -1, --oneline
-l, --long
-G, --grid
-x, --across
-R, --recurse
     -R, --recurse
-T, --tree
-F, --classify
--colo[u]r=WHEN
--colo[u]r-scale
     --no-icons
                                                                                       S
show hidden and 'dot' files
list directories as files; don't list their content
limit the depth of recursion
reverse the sort order
which field to sort by
list directories before other files
list only directories
alob patterns (pipe-separated) of files to ignore
     -a, --all
-d, --list-dirs
                 --level DEPTH
      -r, --reverse
-s, --sort SORT_FIELD
--group-directories-first
     -D, --only-dirs
-I, --ignore-glob GLOBS
                                                                                       glob patterns (pipe-separated) of files to ignore ignore files mentioned in '.gitignore' name, Name, extension, Extension, size, type, modified, accessed, created, inode, and none.
     --git-ignore
Valid sort fields:
```

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## Applications Places

## Falarcon@cis106:~$

## Falarcon 22 Feb 14:16 countries.json

## Falarcon 22 Feb 14:15 csvfile.csv

## Falarcon 22 Feb 14:13 document.docx

## Falarcon 22 Feb 14:13 document.docx

## Falarcon 22 Feb 14:13 lelloworld.c

## Falarcon 22 Feb 14:14 Linux.pdf

## Falarcon 22 Feb 14:16 Tux.png

## Falarcon 22 Feb 14:16 Tux.png

## Falarcon 22 Feb 14:16 website.html

## Falarcon@cis106:~$ exa -T lab4files/

## Linux.pdf

## Countries.json

## csyfile.csv

## document.docx

## docum
```

