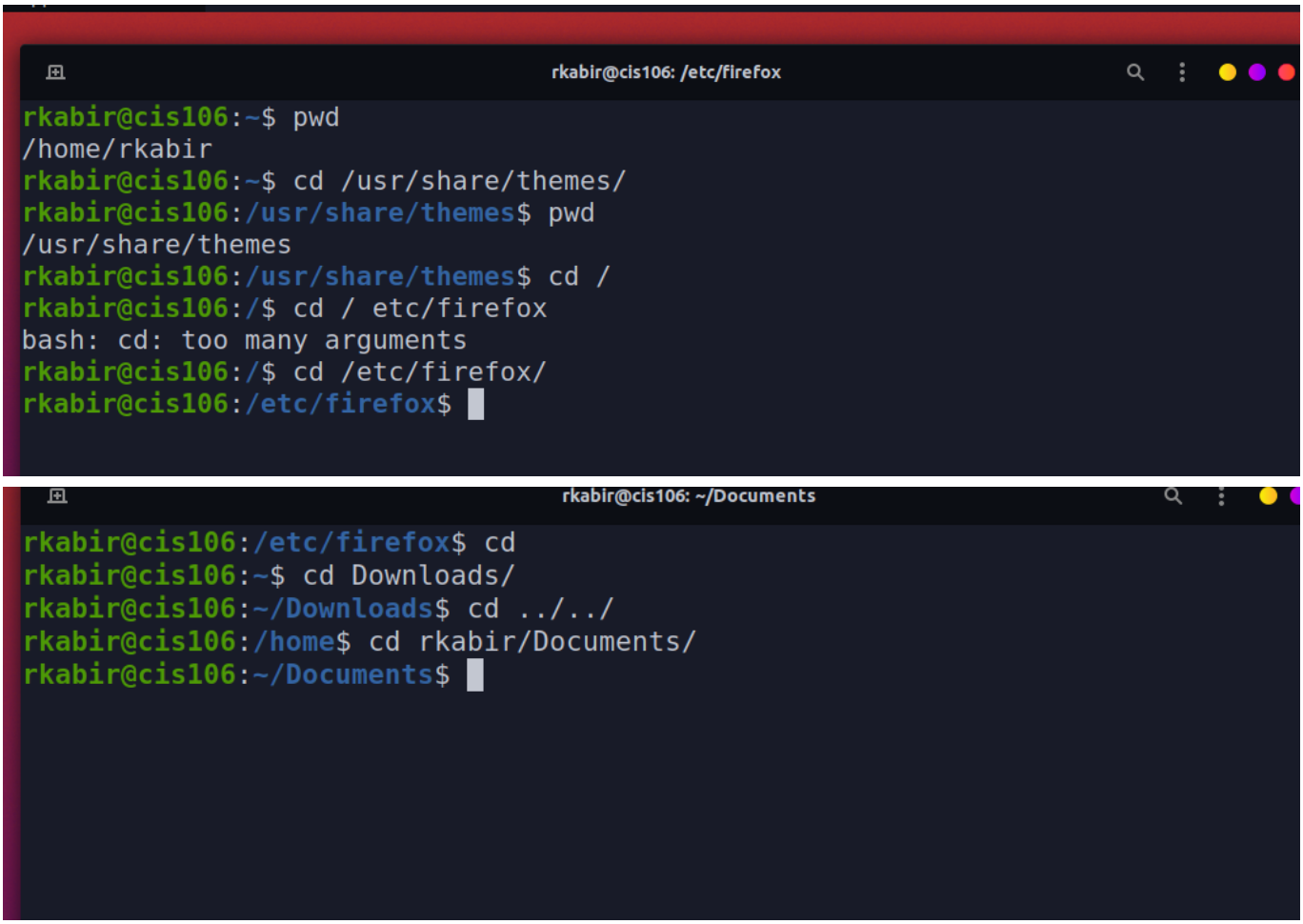
Lab 4 The Linux fs

Question 1

Table 1

Table 2

Question 2



Question 3

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

```
rkabir@cis106: ~/lab4files
rkabir@cis106: ~/lab4files                    rkabir@cis106: ~/lab4files
rkabir@cis106:~/lab4files$ ls -lhSgGi
total 6.5M
2489134 -rw-rw-r-- 1 2.5M Feb 22 14:10 Linux.pdf
2489136 -rw-rw-r-- 1 2.1M Feb 22 14:11 Ubuntu.pdf
2489139 -rw-rw-r-- 1 747K Feb 22 14:13 document.docx
2489140 -rw-rw-r-- 1 726K Feb 22 14:12 globe.avi
2489138 -rw-rw-r-- 1 278K Feb 22 14:15 csvfile.csv
2489143 -rw-rw-r-- 1 135K Feb 22 14:16 website.html
2489135 -rw-rw-r-- 1  42K Feb 22 14:10 Tux.png
2489137 -rw-rw-r-- 1  20K Feb 22 14:16 countries.json
2489142 -rw-rw-r-- 1 8.5K Feb 22 14:12 sample.xls
2489141 -rw-rw-r-- 1   76 Feb 22 14:18 helloWorld.c
rkabir@cis106:~/lab4files$ ls -Xr
sample.xls  Ubuntu.pdf  countries.json  document.docx  helloWorld.c
Tux.png     Linux.pdf   website.html    csvfile.csv    globe.avi
rkabir@cis106:~/lab4files$
```

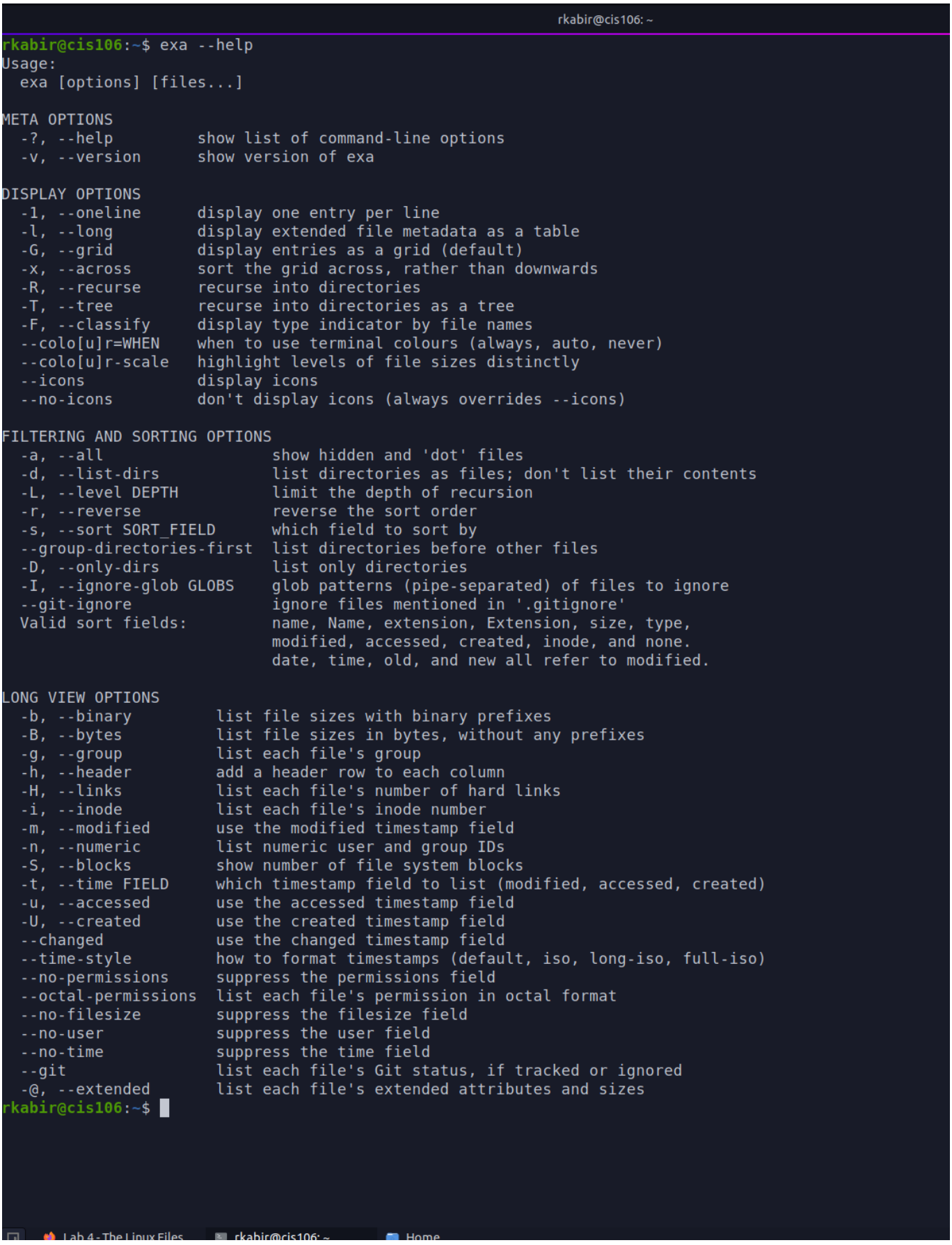
Question 4

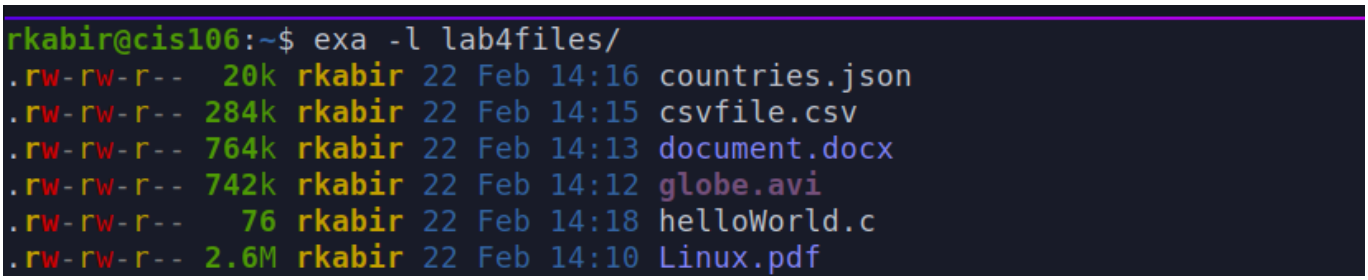
```
rkabir@cis106:~/lab4files$ cd /etc/
rkabir@cis106:/etc$ tree ~/lab4files/
/home/rkabir/lab4files/
├── countries.json
├── csvfile.csv
├── document.docx
├── globe.avi
├── helloWorld.c
├── Linux.pdf
├── sample.xls
├── Tux.png
├── Ubuntu.pdf
└── website.html

0 directories, 10 files
rkabir@cis106:/etc$
```

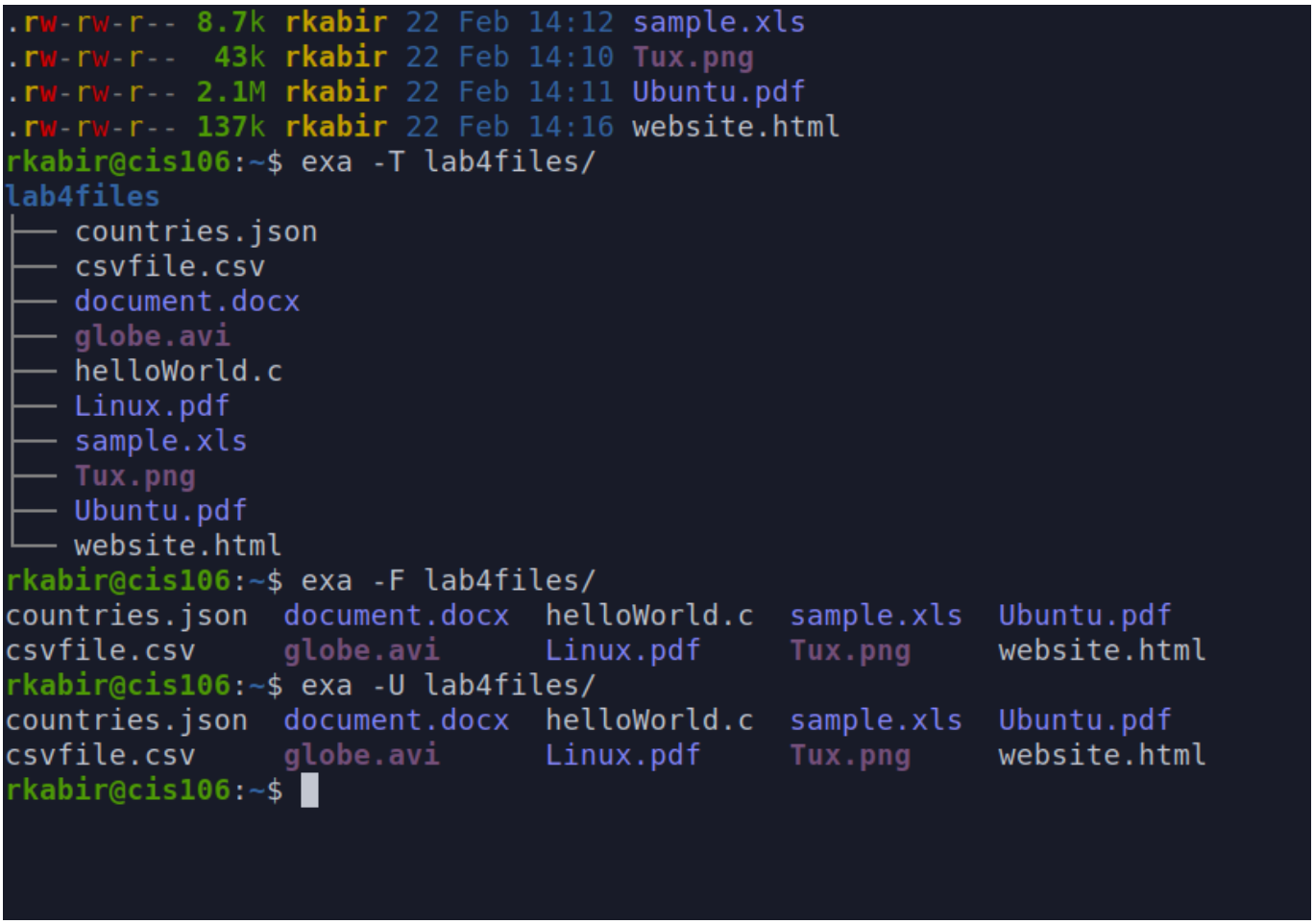
```
                                                    rkabir@cis106: ~/Downloads
kabir@cis106:~/Downloads$ tree ../lab4files/ -fph
./lab4files
├── [-rw-rw-r--  20K]  ../lab4files/countries.json
├── [-rw-rw-r-- 277K]  ../lab4files/csvfile.csv
├── [-rw-rw-r-- 746K]  ../lab4files/document.docx
├── [-rw-rw-r-- 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
├── [-rw-rw-r--  42K]  ../lab4files/Tux.png
├── [-rw-rw-r-- 2.0M]  ../lab4files/Ubuntu.pdf
└── [-rw-rw-r-- 134K]  ../lab4files/website.html

 directories, 10 files
kabir@cis106:~/Downloads$ tree ../lab4files/ -fhu
./lab4files
├── [rkabir    20K]  ../lab4files/countries.json
├── [rkabir   277K]  ../lab4files/csvfile.csv
├── [rkabir   746K]  ../lab4files/document.docx
├── [rkabir   725K]  ../lab4files/globe.avi
├── [rkabir     76]  ../lab4files/helloWorld.c
├── [rkabir   2.5M]  ../lab4files/Linux.pdf
├── [rkabir   8.5K]  ../lab4files/sample.xls
├── [rkabir    42K]  ../lab4files/Tux.png
├── [rkabir   2.0M]  ../lab4files/Ubuntu.pdf
└── [rkabir   134K]  ../lab4files/website.html

 directories, 10 files
kabir@cis106:~/Downloads$ tree ../lab4files/ -X
?xml version="1.0" encoding="UTF-8"?>
tree>
 <directory name="../lab4files/">
   <file name="countries.json"></file>
   <file name="csvfile.csv"></file>
   <file name="document.docx"></file>
   <file name="globe.avi"></file>
   <file name="helloWorld.c"></file>
   <file name="Linux.pdf"></file>
   <file name="sample.xls"></file>
   <file name="Tux.png"></file>
   <file name="Ubuntu.pdf"></file>
   <file name="website.html"></file>
```

<file name="website.html"></file>
</directory>
<report>
<directories>0</directories>
<files>10</files>
</report>
/tree>
kabir@cis106:~/Downloads$ tree ../lab4files/ -J
{"type":"directory","name":"../lab4files/","contents":[
{"type":"file","name":"countries.json"},
{"type":"file","name":"csvfile.csv"},
{"type":"file","name":"document.docx"},
Lab 4 - The Linux Files...
rkabir@cis106: ~/Do...
Home

Question 5


rkabir@cis106: ~
rkabir@cis106:~$ 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
  -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   recurse into directories
  -T, --tree   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
  --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
  -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.
LONG VIEW OPTIONS
  -b, --binary   list file sizes with binary prefixes
  -B, --bytes   list file sizes in bytes, without any prefixes
  -g, --group   list each file's group
  -h, --header   add a header row to each column
  -H, --links   list each file's number of hard links
  -i, --inode   list each file's inode number
  -m, --modified   use the modified timestamp field
  -n, --numeric   list numeric user and group IDs
  -S, --blocks   show number of file system blocks
  -t, --time FIELD   which timestamp field to list (modified, accessed, created)
  -u, --accessed   use the accessed timestamp field
  -U, --created   use the created timestamp field
  --changed   use the changed timestamp field
  --time-style   how to format timestamps (default, iso, long-iso, full-iso)
  --no-permissions   suppress the permissions field
  --octal-permissions list each file's permission in octal format
  --no-filesize   suppress the filesize field
  --no-user   suppress the user field
  --no-time   suppress the time field
  --git   list each file's Git status, if tracked or ignored
  -@, --extended   list each file's extended attributes and sizes
rkabir@cis106:~$
Lab 4 - The Linux Files
rkabir@cis106: ~
Home


rkabir@cis106:~$ exa -l lab4files/
.rw-rw-r-- 20k rkabir 22 Feb 14:16 countries.json
.rw-rw-r-- 284k rkabir 22 Feb 14:15 csvfile.csv
.rw-rw-r-- 764k rkabir 22 Feb 14:13 document.docx
.rw-rw-r-- 742k rkabir 22 Feb 14:12 globe.avi
.rw-rw-r--   76 rkabir 22 Feb 14:18 helloWorld.c
.rw-rw-r-- 2.6M rkabir 22 Feb 14:10 Linux.pdf


.rw-rw-r-- 8.7k rkabir 22 Feb 14:12 sample.xls
.rw-rw-r-- 43k rkabir 22 Feb 14:10 Tux.png
.rw-rw-r-- 2.1M rkabir 22 Feb 14:11 Ubuntu.pdf
.rw-rw-r-- 137k rkabir 22 Feb 14:16 website.html
rkabir@cis106:~$ exa -T lab4files/
lab4files
├── countries.json
├── csvfile.csv
├── document.docx
├── globe.avi
├── helloWorld.c
├── Linux.pdf
├── sample.xls
├── Tux.png
├── Ubuntu.pdf
└── website.html
rkabir@cis106:~$ exa -F lab4files/
countries.json document.docx helloWorld.c sample.xls Ubuntu.pdf
csvfile.csv globe.avi Linux.pdf Tux.png website.html
rkabir@cis106:~$ exa -U lab4files/
countries.json document.docx helloWorld.c sample.xls Ubuntu.pdf
csvfile.csv globe.avi Linux.pdf Tux.png website.html
rkabir@cis106:~$