Lab 4 The Linux fs

Question 1

Table 1

Directory	Function	
bin	bin is short for binary. It generally refers to the built applications	
dev	directory contains the special device files for all the devices. The device files are created during installation	
etc	contain all your system configuration files in it	
home	a directory for a particular user of the system and consists of individual files	
media	This directory contains subdirectories which are used as mount points for removable media such as floppy disks, cdroms and zip disks	
opt	The installation of add-on application software packages.	
proc	contains a hierarchy of special files which represent the current state of the kernel	
srv	contains site-specific data which is served by this system	
usr	consists of several subdirectories that contain additional UNIX commands and data files	
var	contains files to which the system writes data during the course of its operation	

Table 2

Command	What it does	Syntax	Example
cd	change directory	cd directory_name	cd +Path
pdw	Print name of current/working	pwd + directory	pwd + L
ls	lists files and directories within the file system, and shows detailed information about them	ls + options	ls -ls

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cis106@cis106-standardpci440fxpiix1996:~/.mozilla...
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[cis106@cis106-standardpci440fxpiix1996 ~]$ pwd
/home/cis106
[cis106@cis106-standardpci440fxpiix1996 ~]$ cd /usr/share/themes/
[cis106@cis106-standardpci440fxpiix1996 themes]$ pwd
/usr/share/themes
[cis106@cis106-standardpci440fxpiix1996 themes]$ cd /
[cis106@cis106-standardpci440fxpiix1996 /]$ cd ~/.mozilla/firefox/
[cis106@cis106-standardpci440fxpiix1996 firefox]$
                      cis106@cis106-standardpci440fxpiix1996:~/Docume...
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[cis106@cis106-standardpci440fxpiix1996 firefox]$ cd
[cis106@cis106-standardpci440fxpiix1996 ~]$ cd Downloads/
[cis106@cis106-standardpci440fxpiix1996 Downloads]$ cd ../../
[cis106@cis106-standardpci440fxpiix1996 home]$ pwd
[cis106@cis106-standardpci440fxpiix1996 home]$ cd cis106/Documents/
[cis106@cis106-standardpci440fxpiix1996 Documents]$
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cis106@cis106-standardpci440fxpiix1996:~/lab4files
[cis106@cis106-standardpci440fxpiix1996 ~]$ cd /usr/share/
[cis106@cis106-standardpci440fxpiix1996 share]$ ls /home/cis106/lab4files
countries.json csvfile.csv document.docx globe.avi helloWorld.c Linux.pdf sample.xls Tux.png Ubuntu.pdf website.html
[cis106@cis106-standardpci440fxpiix1996 share]$ cd ~/lab4files/
[cis106@cis106-standardpci440fxpiix1996 lab4files]$ ls -lh
total 6.5M
-rw-rw-r-- 1 cis106 cis106 20K Feb 22 14:16 countries.json
rw-rw-r-- 1 cis106 cis106 278K Feb 22 14:15 csvfile.csv
rw-rw-r-- 1 cis106 cis106 747K Feb 22 14:13 document.docx
-rw-rw-r-- 1 cis106 cis106 726K Feb 22 14:12 globe.avi
rw-rw-r-- 1 cis106 cis106 76 Feb 22 14:18 helloWorld.c
 rw-rw-r-- 1 cis106 cis106 2.5M Feb 22 14:10 Linux.pdf
rw-rw-r-- 1 cis106 cis106 8.5K Feb 22 14:12 sample.xls
rw-rw-r-- 1 cis106 cis106 42K Feb 22 14:10 Tux.png
rw-rw-r-- 1 cis106 cis106 2.1M Feb 22 14:11 Ubuntu.pdf
rw-rw-r-- 1 cis106 cis106 135K Feb 22 14:16 website.html
[cis106@cis106-standardpci440fxpiix1996 lab4files]$ ls -lhs
total 6.5M
20K -rw-rw-r-- 1 cis106 cis106 20K Feb 22 14:16 countries.json
280K -rw-rw-r-- 1 cis106 cis106 278K Feb 22 14:15 csvfile.csv
748K -rw-rw-r-- 1 cis106 cis106 747K Feb 22 14:13 document.docx
728K -rw-rw-r-- 1 cis106 cis106 726K Feb 22 14:12 globe.avi
4.0K -rw-rw-r-- 1 cis106 cis106   76 Feb 22 14:18 helloWorld.c
2.5M -rw-rw-r-- 1 cis106 cis106 2.5M Feb 22 14:10 Linux.pdf
12K -rw-rw-r-- 1 cis106 cis106 8.5K Feb 22 14:12 sample.xls
44K -rw-rw-r-- 1 cis106 cis106 42K Feb 22 14:10 Tux.png
2.1M -rw-rw-r-- 1 cis106 cis106 2.1M Feb 22 14:11 Ubuntu.pdf
136K -rw-rw-r-- 1 cis106 cis106 135K Feb 22 14:16 website.html
[cis106@cis106-standardpci440fxpiix1996 lab4files]$
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cis106@cis106-standardpci440fxpiix1996:~/lab4files
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[cis106@cis106-standardpci440fxpiix1996 lab4files]$ ls -lhSgGi
total 6.5M
74568 -rw-rw-r-- 1 2.5M Feb 22 14:10 Linux.pdf
74572 -rw-rw-r-- 1 2.1M Feb 22 14:11 Ubuntu.pdf
74575 -rw-rw-r-- 1 747K Feb 22 14:13 document.docx
74576 -rw-rw-r-- 1 726K Feb 22 14:12 globe.avi
74574 -rw-rw-r-- 1 278K Feb 22 14:15 csvfile.csv
74579 -rw-rw-r-- 1 135K Feb 22 14:16 website.html
74571 -rw-rw-r-- 1 42K Feb 22 14:10 Tux.png
74573 -rw-rw-r-- 1 20K Feb 22 14:16 countries.json
74578 -rw-rw-r-- 1 8.5K Feb 22 14:12 sample.xls
74577 -rw-rw-r-- 1 76 Feb 22 14:18 helloWorld.c
[cis106@cis106-standardpci440fxpiix1996 lab4files]$ ls -Xr
sample.xls Ubuntu.pdf countries.json document.docx
                                                       helloWorld.c
                                        csvfile.csv
            Linux.pdf
                       website.html
                                                       globe.avi
[cis106@cis106-standardpci440fxpiix1996 lab4files]$
```

```
[cis106@cis106-standardpci440fxpiix1996 lab4files]$ cd /etc/
[cis106@cis106-standardpci440fxpiix1996 etc]$ tree ~/lab4files
/home/cis106/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
[cis106@cis106-standardpci440fxpiix1996 etc]$
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```
cis106@cis106-standardpci440fxpiix1996:~/Downloads
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[cis106@cis106-standardpci440fxpiix1996 Downloads]$ tree ../lab4files/ -fph
[drwxrwxr-x 214] ../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
0 directories, 10 files
[cis106@cis106-standardpci440fxpiix1996 Downloads]$ tree ../lab4files/ -tug
[cis106 cis106 ] ../lab4files/
   - [cis106 cis106 ] Linux.pdf
    [cis106 cis106 ] Tux.png
[cis106 cis106 ] Ubuntu.pdf
    [cis106 cis106 ] sample.xls
  — [cis106 cis106 ] sampte.xts
— [cis106 cis106 ] globe.avi
— [cis106 cis106 ] document.docx
— [cis106 cis106 ] countries.json
— [cis106 cis106 ] website.html
  — [cis106 cis106 ] helloWorld.c
0 directories, 10 files
[cis106@cis106-standardpci440fxpiix1996 Downloads]$
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                                                              cis106@cis106-standardpci440fxpiix1996:~/Downloads
[cisl06@cisl06-standardpci440fxpiixl996 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>
 </directory>
 <report>
   <directories>0</directories>
   <files>10</files>
 </report>
/tree>
[cis106@cis106-standardpci440fxpiix1996 Downloads]$
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cis106@cis106-standardpci440fxplix1996;~

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[cis106@cis106-standardpci440fxpiix1996 ~]$ exa -l lab4files/
.rw-rw-r-- 20k cis106 22 Feb 14:16 countries.json
.rw-rw-r-- 284k cis106 22 Feb 14:15 csvfile.csv
  -rw-r-- 764k cis106 22 Feb 14:13 document.docx
.rw-rw-r-- 742k cis106 22 Feb 14:12 globe.avi
           76 cis106 22 Feb 14:18 helloWorld.c
.rw-rw-r-- 8.7k cis106 22 Feb 14:12 sample.xls
.rw-rw-r-- 2.1M cis106 22 Feb 14:11 Ubuntu.pdf
  w-rw-r-- 137k cis106 22 Feb 14:16 website.html
[cis106@cis106-standardpci440fxpiix1996 ~]$ exa -T lab4files/
 — countries.json
  - csvfile.csv
 — helloWorld.c
  sample.xls
 website.html
[cis106@cis106-standardpci440fxpiix1996 ~]$
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         cis106@cis106-standardpci440fxpiix1996:~
                                                            cis106@cis106-standardpci440fx
[cis106@cis106-standardpci440fxpiix1996 ~]$ exa -lh lab4files/
Permissions Size User Date Modified Name
.rw-rw-r-- 20k cis106 22 Feb 14:16 countries.json
   -rw-r-- 284k cis106 22 Feb 14:15 csvfile.csv
           76 cis106 22 Feb 14:18 helloWorld.c
   -rw-r-- 2.6M cis106 22 Feb 14:10
     -r-- 8.7k cis106 22 Feb 14:12
                                   sample.xls
v-rw-r-- 137k cis106 22 Feb 14:16 website.html
[cis106@cis106-standardpci440fxpiix1996 ~]$ exa -lht created --no-user lab4files/
Permissions Size Date Created Name
.rw-rw-r-- 20k 6 Mar 17:13 countries.json
.rw-rw-r-- 284k 6 Mar 17:13 csvfile.csv
  -rw-r-- 764k 6 Mar 17:13 document.docx
          742k
  w-rw-r-- 76 6 Mar 17:13 helloWorld.c
  -rw-r-- 8.7k 6 Mar 17:13 sample.xls
  w-rw-r-- 137k 6 Mar 17:13 website.html
[cis106@cis106-standardpci440fxpiix1996 ~]$
```