

Lab 6

Question 1

```

brian@CIS106VM:~$ ls lab6/*
lab6/25Games.lst          lab6/file_00.sh          lab6/luatex.log
lab6/88_Application-log.log lab6/file_01.sh          lab6/mf.log
lab6/alternatives.log     lab6/file_02.sh          lab6/pdfetex.log
lab6/apache01-error.log   lab6/file_03.sh          lab6/pdftex.log
lab6/apache03.err         lab6/file_04.sh          lab6/term.log
lab6/apache22.log         lab6/file_05.sh          lab6/tex.log
lab6/apport.log           lab6/fontconfig.log      lab6/trip22-info.doc
lab6/auth.log             lab6/gpu-manager.log     lab6/ubuntu-advantage.log
lab6/bootstrap.log        lab6/history.log         lab6/ubuntu-advantage-timer.log
lab6/casper.log           lab6/http404.log         lab6/unattended-upgrades-dpkg.log
lab6/Document.doc         lab6/kern.log            lab6/unattended-upgrades.log
lab6/dpkg.log             lab6/last.txt            lab6/unattended-upgrades-shutdown.log
lab6/dvluatex.log         lab6/list.txt            lab6/updmap.log
lab6/etex.log             lab6/lost.txt            lab6/vboxadd-install.log
lab6/Expenses.xls         lab6/luahbtex.log        lab6/vboxadd-setup.log
brian@CIS106VM:~$ ls lab6/*.log
lab6/88_Application-log.log lab6/fontconfig.log      lab6/tex.log
lab6/alternatives.log       lab6/gpu-manager.log    lab6/ubuntu-advantage.log
lab6/apache01-error.log     lab6/history.log        lab6/ubuntu-advantage-timer.log
lab6/apache22.log           lab6/http404.log        lab6/unattended-upgrades-dpkg.log
lab6/apport.log             lab6/kern.log           lab6/unattended-upgrades.log
lab6/auth.log               lab6/luahbtex.log       lab6/unattended-upgrades-shutdown.log
lab6/bootstrap.log          lab6/luatex.log         lab6/updmap.log
lab6/casper.log             lab6/mf.log              lab6/vboxadd-install.log
lab6/dpkg.log               lab6/pdfetex.log        lab6/vboxadd-setup.log
lab6/dvluatex.log           lab6/pdftex.log
lab6/etex.log               lab6/term.log
brian@CIS106VM:~$ mkdir lab6/log-files
brian@CIS106VM:~$ mv lab6/*.log lab6/log-files/
brian@CIS106VM:~$ ls /etc/*.conf
/etc/adduser.conf          /etc/fuse.conf           /etc/libaudit.conf       /etc/rygel.conf
/etc/apg.conf              /etc/gai.conf            /etc/logrotate.conf      /etc/sensors3.conf
/etc/appstream.conf        /etc/hdparm.conf         /etc/mke2fs.conf         /etc/sudo.conf
/etc/brltty.conf           /etc/host.conf           /etc/nftables.conf       /etc/sudo_logsrvd.conf
/etc/ca-certificates.conf  /etc/inxi.conf           /etc/nsswitch.conf        /etc/sysctl.conf
/etc/debconf.conf          /etc/kernel-img.conf     /etc/pam.conf             /etc/ucf.conf
/etc/deluser.conf          /etc/kernelloops.conf    /etc/pnm2ppa.conf        /etc/usb_modeswitch.conf
/etc/e2scrub.conf          /etc/ld.so.conf           /etc/resolv.conf          /etc/xattr.conf
/etc/fprintd.conf          /etc/libao.conf          /etc/rsyslog.conf
brian@CIS106VM:~$ ls -lsgGh --time-style=+%D /etc/h*.conf /etc/p*.conf
8.0K -rw-r--r-- 1 4.4K 12/15/20 /etc/hdparm.conf
4.0K -rw-r--r-- 1 92 10/15/21 /etc/host.conf
4.0K -rw-r--r-- 1 552 08/11/20 /etc/pam.conf
8.0K -rw-r--r-- 1 7.5K 08/09/22 /etc/pnm2ppa.conf
brian@CIS106VM:~$

```

Question 2

```

brian@CIS106VM:~/lab6$ ls .??*
.appveyor.yml      .eslintrc.js      .prettierrc.yaml
.auto-changelog    .eslintrc.json    .profile
.babelrc           .eslintrc.yml     .sudo_as_admin_successful
.bash_history      .gitattributes     .tern-project
.bash_logout       .gitconfig        .testignore
.bashrc            .gitignore        .tm_properties
.changed           .gitkeep          .tonic_example.js
.cis106.png        .gitmodules       .travis.yml
.coveralls.yml     .gsd-keyboard.settings-ported
.dir-locals.el     .hidden           .uuid
.editorconfig      .htaccess         .vboxclient-clipboard.pid
.envrc             .istanbul.yml     .vboxclient-display-svg-x11.pid
.eslintignore      .jscs.json        .vboxclient-draganddrop.pid
.eslintrc          .jscsrc           .vboxclient-seamless.pid
                  .jshintignore     .vsixmanifest
                  .jshintrc
                  .keep
                  .last_revision
                  .lessht
                  .lint
                  .metadata-v2
                  .meta.isrunning
                  .min-wd
                  .npmignore
                  .nycrc
                  .padding
                  .parentlock
                  .prettierignore

```

```

brian@CIS106VM:~/lab6$ ls -A *.??
file_00.sh file_01.sh file_02.sh file_03.sh file_04.sh file_05.sh
brian@CIS106VM:~/lab6$ ls l?st*
last.txt list.txt lost.txt
brian@CIS106VM:~/lab6$ ls *_??.*
file_00.sh file_01.sh file_02.sh file_03.sh file_04.sh file_05.sh
brian@CIS106VM:~/lab6$

```

Question 3

```

brian@CIS106VM:~/lab6$ ls [A-Z]*
Document.doc Expenses.xls
brian@CIS106VM:~/lab6$ ls [A-Z0-9]*
25Games.lst Document.doc Expenses.xls
brian@CIS106VM:~/lab6$ ls *[0-9]*
25Games.lst file_00.sh file_02.sh file_04.sh trip22-info.doc
apache03.err file_01.sh file_03.sh file_05.sh
brian@CIS106VM:~/lab6$ ls [a-z]*[0-9].*
apache03.err file_00.sh file_01.sh file_02.sh file_03.sh file_04.sh file_05.sh
brian@CIS106VM:~/lab6$

```

Question 4

```
brian@CIS106VM:~/lab6$ mkdir -p wallpappers/cars/{1080p,2k,4k}
brian@CIS106VM:~/lab6$ tree wallpappers
wallpappers
├── cars
│   ├── 1080p
│   ├── 2k
│   └── 4k
```

4 directories, 0 files

```
brian@CIS106VM:~/lab6$ ps I know i spelled it wrong --
error: unsupported option (BSD syntax)
```

Usage:

ps [options]

Try 'ps --help <simple|list|output|threads|misc|all>'
or 'ps --help <s|l|o|t|m|a>'
for additional help text.

For more details see ps(1).

```
brian@CIS106VM:~/lab6$
```

```
brian@CIS106VM:~/lab6$ mkdir -p assets/{imgs,videos}/{large,small}
brian@CIS106VM:~/lab6$ tree assets/
```

```
assets/
├── imgs
│   ├── large
│   └── small
└── videos
    ├── large
    └── small
```

6 directories, 0 files

```
brian@CIS106VM:~/lab6$ mkdir -p docs/books/{history,math}/{fall,spring}
brian@CIS106VM:~/lab6$ touch docs/books/{history,math}/{fall,spring}/book.pdf
brian@CIS106VM:~/lab6$ tree docs/
```

```
docs/
├── books
│   ├── history
│   │   ├── fall
│   │   │   └── book.pdf
│   │   └── spring
│   │       └── book.pdf
│   └── math
│       ├── fall
│       │   └── book.pdf
│       └── spring
│           └── book.pdf
```

7 directories, 4 files

```
brian@CIS106VM:~/lab6$
```

Challenge Question

```
brian@CIS106VM:~/challenge-Lab6$ mkdir ~/challenge-Lab6/{audio,docs,images}
brian@CIS106VM:~/challenge-Lab6$ exa
audio      docs1.pdf  image1.gif image2.gif images      program.rb  song1.mp3
docs       docs2.docx image1.jpg image2.jpg  program.go  program.sh  song2.aac
docs1.docx docs2.pdf  image1.png image2.png  program.py  song1.aac   song2.mp3
brian@CIS106VM:~/challenge-Lab6$ cd audio/
brian@CIS106VM:~/challenge-Lab6/audio$ mkdir acc,mp3
brian@CIS106VM:~/challenge-Lab6/audio$ exa
acc,mp3
brian@CIS106VM:~/challenge-Lab6/audio$ rm -r acc,mp3/
brian@CIS106VM:~/challenge-Lab6/audio$ cd ../
brian@CIS106VM:~/challenge-Lab6$ mkdir ~/challenge-Lab6/audio/{acc,mp3}
brian@CIS106VM:~/challenge-Lab6$ mkdir ~/challenge-Lab6/docs/{docx,xls}
brian@CIS106VM:~/challenge-Lab6$ mkdir ~/challenge-Lab6/docs/pdf
brian@CIS106VM:~/challenge-Lab6$ mkdir ~/challenge-Lab6/images/{jpg,png}

brian@CIS106VM:~/challenge-Lab6$ mv *.aac ~/challenge-Lab6/audio/acc/
brian@CIS106VM:~/challenge-Lab6$ mv *.mp3 ~/challenge-Lab6/audio/mp3/
brian@CIS106VM:~/challenge-Lab6$ exa
audio docs1.docx docs2.docx image1.gif image1.png image2.jpg images      program.py  program.sh
docs  docs1.pdf  docs2.pdf image1.jpg image2.gif image2.png  program.go  program.rb
brian@CIS106VM:~/challenge-Lab6$ tree
.
├── audio
│   ├── acc
│   │   ├── song1.aac
│   │   └── song2.aac
│   └── mp3
│       ├── song1.mp3
│       └── song2.mp3
├── docs
│   ├── docx
│   ├── pdf
│   └── xls
├── docs1.docx
├── docs1.pdf
├── docs2.docx
├── docs2.pdf
├── image1.gif
├── image1.jpg
├── image1.png
└── image2.gif
```

```
brian@CIS106VM:~/challenge-Lab6$ mv *.docx ~/challenge-Lab6/docs
docs/      docs1.docx docs1.pdf  docs2.docx docs2.pdf
brian@CIS106VM:~/challenge-Lab6$ mv *.docx ~/challenge-Lab6/docs/docx/
brian@CIS106VM:~/challenge-Lab6$ mv *.pdf ~/challenge-Lab6/docs
docs/      docs1.pdf docs2.pdf
brian@CIS106VM:~/challenge-Lab6$ mv *.pdf ~/challenge-Lab6/docs/pdf/
brian@CIS106VM:~/challenge-Lab6$ mv *.jpg ~/challenge-Lab6/images/jpg/
mv: target '/home/brian/challenge-Lab6/images/jpg/' is not a directory
brian@CIS106VM:~/challenge-Lab6$ mv *.jpg ~/challenge-Lab6/images/{jpg.png}
brian@CIS106VM:~/challenge-Lab6$ mv *.png ~/challenge-Lab6/images/png/
brian@CIS106VM:~/challenge-Lab6$ mv *gif ~/challenge-Lab6/images/
brian@CIS106VM:~/challenge-Lab6$ mv *.go ~/challenge-Lab6/docs/xls/
brian@CIS106VM:~/challenge-Lab6$ mv *.py ~/challenge-Lab6/docs/xls/
brian@CIS106VM:~/challenge-Lab6$ mv *.rb ~/challenge-Lab6/docs/xls/
brian@CIS106VM:~/challenge-Lab6$ mv *.sh ~/challenge-Lab6/docs/xls/
brian@CIS106VM:~/challenge-Lab6$ tree
```

```
├── audio
│   ├── acc
│   │   ├── song1.aac
│   │   └── song2.aac
│   └── mp3
│       ├── song1.mp3
│       └── song2.mp3
├── docs
│   ├── docx
│   │   ├── docs1.docx
│   │   └── docs2.docx
│   ├── pdf
│   │   ├── docs1.pdf
│   │   └── docs2.pdf
│   └── xls
│       ├── program.go
│       ├── program.py
│       ├── program.rb
│       └── program.sh
└── images
    ├── image1.gif
    ├── image2.gif
    ├── jpg
    │   ├── image1.jpg
    │   └── image2.jpg
    └── png
        ├── image1.png
        └── image2.png
```

10 directories, 18 files

```
brian@CIS106VM:~/challenge-Lab6$
```