Lab 6

Question 1

```
jhopkinswalker@cis106:~$ ls lab6/*.log
lab6/88_Application-log.log  lab6/dpkg.log       lab6/kern.log        lab6/tex.log
lab6/alternatives.log        lab6/dviluatex.log  lab6/luahbtex.log    lab6/ubuntu-advantage.log
lab6/apache01-error.log      lab6/etex.log       lab6/luatex.log      lab6/unattended-upgrades-dpkg.log
lab6/apache22.log            lab6/fontconfig.log lab6/mf.log          lab6/unattended-upgrades.log
lab6/auth.log                lab6/gpu-manager.log lab6/pdfetex.log    lab6/unattended-upgrades-shutdown.log
lab6/bootstrap.log           lab6/history.log    lab6/pdftex.log      lab6/updmap.log
lab6/casper.log              lab6/http404.log    lab6/term.log        lab6/vboxadd-setup.log
jhopkinswalker@cis106:~$ mkdir lab6/log-files
jhopkinswalker@cis106:~$ mv lab6/*.log lab6/log-files/
jhopkinswalker@cis106:~$ ls /etc/*.conf/
ls: cannot access '/etc/*.conf/': No such file or directory
jhopkinswalker@cis106:~$ ls /etc*.conf
ls: cannot access '/etc*.conf': No such file or directory
jhopkinswalker@cis106:~$ ls /etc/*.conf
/etc/adduser.conf            /etc/fprintd.conf   /etc/libao.conf      /etc/rsyslog.conf
/etc/apg.conf                /etc/fuse.conf      /etc/libaudit.conf   /etc/rygel.conf
/etc/appstream.conf          /etc/gai.conf       /etc/logrotate.conf  /etc/sensors3.conf
/etc/brltty.conf             /etc/hdparm.conf    /etc/mke2fs.conf     /etc/sudo.conf
/etc/ca-certificates.conf    /etc/host.conf      /etc/nftables.conf   /etc/sudo_logsrvd.conf
/etc/dante.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/kerneloops.conf /etc/pnm2ppa.conf   /etc/usb_modeswitch.conf
/etc/e2scrub.conf            /etc/ld.so.conf     /etc/resolv.conf     /etc/xattr.conf
jhopkinswalker@cis106:~$ ls -lSgGh --time-style=+%D /etc/h*.conf /etc/p*.conf
-rw-r--r-- 1 7.5K 08/07/23 /etc/pnm2ppa.conf
-rw-r--r-- 1 4.4K 12/15/20 /etc/hdparm.conf
-rw-r--r-- 1  552 08/11/20 /etc/pam.conf
-rw-r--r-- 1   92 10/15/21 /etc/host.conf
jhopkinswalker@cis106:~$
```

Question 2

```
jhopkinswalker@cis106:~/lab6$ ls .??*
.auto-changelog  .gitconfig          .keep              .textFiles
.babelrc         .gitignore          .last_revision     .tm_properties
.bash_aliases    .gitkeep            .lesshst           .tonic_example.js
.bash_history    .gitmodules         .lint              .travis.yml
.bash_logout     .gsd-keyboard.settings-ported .lock    .uuid
.bashrc          .hidden             .metadata-v2       .vboxclient-clipboard-tty2-control.pid
.changed         .hidden1.doc        .meta.isrunning    .vboxclient-clipboard-tty2-service.pid
.cis106.png      .hidden1.py         .migrated          .vboxclient-draganddrop-tty2-control.pid
.coveralls.yml   .hidden2.doc        .min-wd            .vboxclient-draganddrop-tty2-service.pid
.dir-locals.el   .hidden2.py         .npmignore         .vboxclient-hostversion-tty2-control.pid
.editorconfig    .hiddenFile.txt     .nycrc             .vboxclient-seamless-tty2-control.pid
.eslintignore    .htaccess           .padding           .vboxclient-seamless-tty2-service.pid
.eslintrc        .istanbul.yml       .parentlock        .vboxclient-vmsvga-session-tty2-control.pid
.eslintrc.js     .jscs.json          .profile           .vboxclient-vmsvga-session-tty2-service.pid
.eslintrc.json   .jscsrc             .sudo_as_admin_successful .vsixmanifest
.eslintrc.yml    .jshintignore       .tern-project
.gitattributes   .jshintrc           .testignore
jhopkinswalker@cis106:~/lab6$ ls -A *.??
file_00.sh  file_01.sh  file_02.sh  file_03.sh  file_04.sh  file_05.sh
jhopkinswalker@cis106:~/lab6$ ls l?st*
last.txt  list.txt  lost.txt
jhopkinswalker@cis106:~/lab6$ ls *_??.*
file_00.sh  file_01.sh  file_02.sh  file_03.sh  file_04.sh  file_05.sh
jhopkinswalker@cis106:~/lab6$
```

Question 3

```
jhopkinswalker@cis106:~/lab6$ ls [A-Z]*
Document.doc  Expenses.xls
jhopkinswalker@cis106:~/lab6$ ls [A-Z0-9]*
25Games.lst  Document.doc  Expenses.xls
jhopkinswalker@cis106:~/lab6$ ls *[0-9]*
25Games.lst  apache03.err  file_00.sh  file_01.sh  file_02.sh  file_03.sh  file_04.sh  file_05.sh  trip22-info.doc
jhopkinswalker@cis106:~/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
jhopkinswalker@cis106:~/lab6$ _
```

Question 4

```
jhopkinswalker@cis106:~/lab6$ rm -r wallpapers/
jhopkinswalker@cis106:~/lab6$ mkdir -p wallpapers/cars/{1080p,2k,4k}
jhopkinswalker@cis106:~/lab6$ tree wallpapers/
wallpapers/
└── cars
    ├── 1080p
    ├── 2k
    └── 4k

4 directories, 0 files
```

```
jhopkinswalker@cis106:~/lab6$ mkdir -p assets/{imgs,videos}/{large,small}
jhopkinswalker@cis106:~/lab6$ tree assets
assets
├── imgs
│   ├── large
│   └── small
└── videos
    ├── large
    └── small

6 directories, 0 files
```

```
jhopkinswalker@cis106:~/lab6$ mkdir -p docs/{history,math}/{fall,spring}
jhopkinswalker@cis106:~/lab6$ rm -r docs
jhopkinswalker@cis106:~/lab6$ mr  docs/books/{history,math}/{fall,spring}
Command 'mr' not found, but can be installed with:
sudo apt install myrepos
jhopkinswalker@cis106:~/lab6$ mkdir -p docs/books/{history,math}/{fall,spring}
jhopkinswalker@cis106:~/lab6$ touch docs/books/{history,math}/{fall,spring}/book.pdf
jhopkinswalker@cis106:~/lab6$ tree docs/
docs/
└── books
    ├── history
    │   ├── fall
    │   │   └── book.pdf
    │   └── spring
    │       └── book.pdf
    └── math
        ├── fall
        │   └── book.pdf
        └── spring
            └── book.pdf

7 directories, 4 files
jhopkinswalker@cis106:~/lab6$ _
```

```
jhopkinswalker@cis106:~/lab6$ mkdir ~/lab6-q5
jhopkinswalker@cis106:~/lab6$ cd /
jhopkinswalker@cis106:/$ touch ~/lab6-q5/{program.py,people.csv,data.xls}
jhopkinswalker@cis106:/$ cd usr/share
jhopkinswalker@cis106:/usr/share$ mkdir ~/lab6-q5/movies
jhopkinswalker@cis106:/usr/share$ touch ~/lab6-q5/movies/{movies.lst,marvel.txt,disney.doc}
jhopkinswalker@cis106:/usr/share$ rm ~/lab6-q5/
rm: cannot remove '/home/jhopkinswalker/lab6-q5/': Is a directory
jhopkinswalker@cis106:/usr/share$ ls ~/lab6-q5
data.xls  movies  people.csv  program.py
jhopkinswalker@cis106:/usr/share$ rm ~/lab6-q5/{program.py,people.csv,/movies/{disney.doc,marvel.txt}
rm: cannot remove '/home/jhopkinswalker/lab6-q5/{program.py,people.csv,/movies/disney.doc': No such file or directory
rm: cannot remove '/home/jhopkinswalker/lab6-q5/{program.py,people.csv,/movies/marvel.txt': No such file or directory
jhopkinswalker@cis106:/usr/share$ rm ~/lab6-q5/{program.py,people.csv,/movies/{disney.doc,marvel.txt}}
jhopkinswalker@cis106:/usr/share$ tree ~/lab6-q5/
/home/jhopkinswalker/lab6-q5/
├── data.xls
└── movies
    └── movies.lst

1 directory, 2 files
jhopkinswalker@cis106:/usr/share$ _
```

Question 5 - Challenge

```
3: jhopkinswalker@cis106: ~ ∨                                                    A⌷ ◻ ✕

jhopkinswalker@cis106:~$ curl https://cis106.com/assets/lab6cq.sh | bash
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
100   165  100   165    0     0    478       0 --:--:-- --:--:-- --:--:--   479
jhopkinswalker@cis106:~$ mkdir -p challenge-Lab6/{audio/{aac,mp3}/files,docs/{docx,pdf,xls,programs}/files,images/{jpg,
png,gifs}/files}
jhopkinswalker@cis106:~$ mv challenge-Lab6/*.aac challenge-Lab6/audio/aac/files
jhopkinswalker@cis106:~$ mv challenge-Lab6/*??.mp3 challenge-Lab6/audio/mp3/files
jhopkinswalker@cis106:~$ mv challenge-Lab6/*[0-9].docx challenge-Lab6/docs/docx/files
jhopkinswalker@cis106:~$ mv challenge-Lab6/*.pdf challenge-Lab6/docs/pdf/files
jhopkinswalker@cis106:~$ mv challenge-Lab6/programs* challenge-Lab6/docs/programs/files
mv: cannot stat 'challenge-Lab6/programs*': No such file or directory
jhopkinswalker@cis106:~$ mv challenge-Lab6/programs.??* challenge-Lab6/docs/programs/files
mv: cannot stat 'challenge-Lab6/programs.??*': No such file or directory
jhopkinswalker@cis106:~$ mv challenge-Lab6/*programs.??* challenge-Lab6/docs/programs/files
mv: cannot stat 'challenge-Lab6/*programs.??*': No such file or directory
jhopkinswalker@cis106:~$ mv challenge-Lab6/programs.* challenge-Lab6/docs/programs/files
mv: cannot stat 'challenge-Lab6/programs.*': No such file or directory
jhopkinswalker@cis106:~$ mv challenge-Lab6/program.* challenge-Lab6/docs/programs/files
jhopkinswalker@cis106:~$ mv challenge-Lab6/*[a-z]??[0-9].jpg challenge-Lab6/images/jpg/files
jhopkinswalker@cis106:~$ mv challenge-Lab6/*.png challenge-Lab6/images/png/files
```

```
3: jhopkinswalker@cis106: ~ ∨                                                    A⌷ ◻

jhopkinswalker@cis106:~$ mv challenge-Lab6/*.gif challenge-Lab6/images/gifs/files
jhopkinswalker@cis106:~$ tree challenge-Lab6
challenge-Lab6
├── audio
│   ├── aac
│   │   └── files
│   │       ├── song1.aac
│   │       └── song2.aac
│   └── mp3
│       └── files
│           ├── song1.mp3
│           └── song2.mp3
├── docs
│   ├── docx
│   │   └── files
│   │       ├── docs1.docx
│   │       └── docs2.docx
│   ├── pdf
│   │   └── files
│   │       ├── docs1.pdf
│   │       └── docs2.pdf
│   ├── programs
│   │   └── files
│   │       ├── program.go
│   │       ├── program.py
│   │       ├── program.rb
│   │       └── program.sh
│   └── xls
│       └── files
└── images
    ├── gifs
    │   └── files
    │       ├── image1.gif
    │       └── image2.gif
    ├── jpg
    │   └── files
    │       ├── image1.jpg
    │       └── image2.jpg
    └── png
        └── files
            ├── image1.png
            └── image2.png
```