Question 1

```
1: chris@CIS106: ~  ⌄                                                      □    ✕
lab6/casper.log              lab6/http404.log      lab6/term.log      lab6/vboxadd-setup.log
chris@CIS106:~$ mkdir lab6/log.files
chris@CIS106:~$ mv lab6/*.log lab6/log.files/
chris@CIS106:~$ ls /etc/*.conf
/etc/adduser.conf           /etc/e2scrub.conf   /etc/kernel-img.conf   /etc/nftables.conf   /etc/sensors3.conf
/etc/apg.conf               /etc/fprintd.conf   /etc/kerneloops.conf   /etc/nsswitch.conf   /etc/sudo.conf
/etc/appstream.conf         /etc/fuse.conf      /etc/ld.so.conf        /etc/pam.conf        /etc/sudo_logsrvd.conf
/etc/brltty.conf            /etc/gai.conf       /etc/libao.conf        /etc/pnm2ppa.conf    /etc/sysctl.conf
/etc/ca-certificates.conf   /etc/hdparm.conf    /etc/libaudit.conf     /etc/resolv.conf     /etc/ucf.conf
/etc/debconf.conf           /etc/host.conf      /etc/logrotate.conf    /etc/rsyslog.conf    /etc/usb_modeswitch.conf
/etc/deluser.conf           /etc/inxi.conf      /etc/mke2fs.conf       /etc/rygel.conf      /etc/xattr.conf
chris@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
chris@CIS106:~$ _
```

```
2: chris@CIS106: ~/lab6  ⌄                                                 □    ✕
chris@CIS106:~$ cd lab6/
chris@CIS106:~/lab6$ ls
25Games.lst             Document.doc    file_04.sh      lost.txt        ubuntu-advantage.log
88_Application-log.log  dpkg.log        file_05.sh      luahbtex.log    unattended-upgrades-dpkg.log
alternatives.log        dviluatex.log   fontconfig.log  luatex.log      unattended-upgrades.log
apache01-error.log      etex.log        gpu-manager.log mf.log          unattended-upgrades-shutdown.log
apache03.err            Expenses.xls    history.log     pdfetex.log     updmap.log
apache22.log            file_00.sh      http404.log     pdftex.log      vboxadd-setup.log
auth.log                file_01.sh      kern.log        term.log
bootstrap.log           file_02.sh      last.txt        tex.log
casper.log              file_03.sh      list.txt        trip22-info.doc
chris@CIS106:~/lab6$ ls _
```
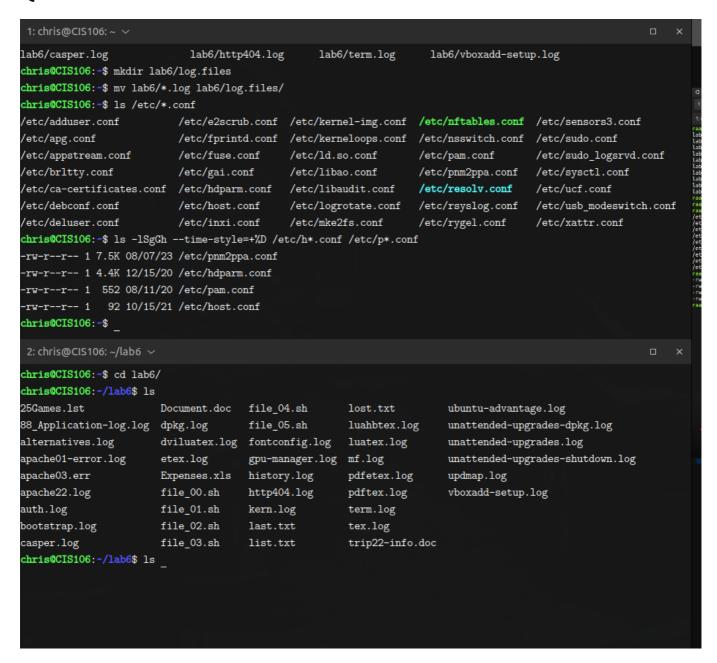
Question 2

```
1: chris@CIS106: ~/lab6 ∨

chris@CIS106:~/lab6$ ls .??*
.auto-changelog                 .lint
.babelrc                        .metadata-v2
.bash_aliases                   .meta.isrunning
.bash_history                   .min-wd
.bash_logout                    .npmignore
.bashrc                         .nycrc
.changed                        .org.chromium.Chromium.B76vX0
.cis106.png                     .org.chromium.Chromium.MBQPZ4
.coveralls.yml                  .padding
.dir-locals.el                  .parentlock
.editorconfig                   .prettierignore
.eslintignore                   .prettierrc.yaml
.eslintrc                       .profile
.eslintrc.js                    .releaserc.json
.eslintrc.json                  .spmignore
.eslintrc.yml                   .sudo_as_admin_successful
.gitattributes                  .tern-project
.gitconfig                      .testignore
.gitignore                      .textFiles
.gitkeep                        .tm_properties
.gitmodules                     .tonic_example.js
.gsd-keyboard.settings-ported   .travis.yml
.hidden                         .uuid
.htaccess                       .vboxclient-clipboard-tty2-control.pid
.ignore                         .vboxclient-clipboard-tty2-service.pid
.istanbul.yml                   .vboxclient-draganddrop-tty2-control.pid
.jscs.json                      .vboxclient-draganddrop-tty2-service.pid
.jscsrc                         .vboxclient-hostversion-tty2-control.pid
.jshintignore                   .vboxclient-seamless-tty2-control.pid
.jshintrc                       .vboxclient-seamless-tty2-service.pid
.keep                           .vboxclient-vmsvga-session-tty2-control.pid
.last_revision                  .vboxclient-vmsvga-session-tty2-service.pid
.lesshst                        .vsixmanifest
chris@CIS106:~/lab6$ ls -A *.??
file_00.sh  file_01.sh  file_02.sh  file_03.sh  file_04.sh  file_05.sh
```

```
.gitkeep                          .tm_properties
.gitmodules                       .tonic_example.js
.gsd-keyboard.settings-ported     .travis.yml
.hidden                           .uuid
.htaccess                         .vboxclient-clipboard-tty2-control.pid
.ignore                           .vboxclient-clipboard-tty2-service.pid
.istanbul.yml                     .vboxclient-draganddrop-tty2-control.pid
.jscs.json                        .vboxclient-draganddrop-tty2-service.pid
.jscsrc                           .vboxclient-hostversion-tty2-control.pid
.jshintignore                     .vboxclient-seamless-tty2-control.pid
.jshintrc                         .vboxclient-seamless-tty2-service.pid
.keep                             .vboxclient-vmsvga-session-tty2-control.pid
.last_revision                    .vboxclient-vmsvga-session-tty2-service.pid
.lesshst                          .vsixmanifest
chris@CIS106:~/lab6$ ls -A *.??
file_00.sh  file_01.sh  file_02.sh  file_03.sh  file_04.sh  file_05.sh
chris@CIS106:~/lab6$ la l?st*
last.txt  list.txt  lost.txt
chris@CIS106:~/lab6$ *ls _??.*
Expenses.xls: command not found
chris@CIS106:~/lab6$ ls _??.*
ls: cannot access '_??.*': No such file or directory
chris@CIS106:~/lab6$ ls * _??.*
ls: cannot access '_??.*': No such file or directory
25Games.lst    Document.doc   file_00.sh   file_02.sh   file_04.sh   last.txt   lost.txt
apache03.err   Expenses.xls   file_01.sh   file_03.sh   file_05.sh   list.txt   trip22-info.doc

log.files:
88_Application-log.log  dpkg.log          kern.log       tex.log
alternatives.log        dviluatex.log     luahbtex.log   ubuntu-advantage.log
apache01-error.log      etex.log          luatex.log     unattended-upgrades-dpkg.log
apache22.log            fontconfig.log    mf.log         unattended-upgrades.log
auth.log                gpu-manager.log   pdfetex.log    unattended-upgrades-shutdown.log
bootstrap.log           history.log       pdftex.log     updmap.log
casper.log              http404.log       term.log       vboxadd-setup.log
chris@CIS106:~/lab6$
```

Question 3

```
1: chris@CIS106: ~/lab6  ∨

chris@CIS106:~/lab6$ ls [A-Z]*
Document.doc  Expenses.xls
chris@CIS106:~/lab6$ ls [A-Z0-9]*
25Games.lst  Document.doc  Expenses.xls
chris@CIS106:~/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
chris@CIS106:~/lab6$ ls [A-Z]*[0-9].*
ls: cannot access '[A-Z]*[0-9].*': No such file or directory
chris@CIS106:~/lab6$ ls [a-z]*[0-9].*\
> ls [a-z]*[0-9].
ls: cannot access '[a-z]*[0-9].*ls': No such file or directory
ls: cannot access '[a-z]*[0-9].': No such file or directory
chris@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
chris@CIS106:~/lab6$ _
```

Question 4

```
chris@CIS106:~/lab6$  mkdir -p wallpapers/cars/{1080, 2k, 4k}
chris@CIS106:~/lab6$ tree wallpapers/
wallpapers/
└── cars
    └── {1080,


2 directories, 0 files
chris@CIS106:~/lab6$ rm wallpapers/cars/\{1080\,/
rm: cannot remove 'wallpapers/cars/{1080,/': Is a directory
chris@CIS106:~/lab6$ rm -r wallpapers/cars/\{1080\,/
chris@CIS106:~/lab6$ mkdir -p wallpapers/cars/{1080p,2k,4k}
chris@CIS106:~/lab6$ tree wallpapers/
wallpapers/
└── cars
    ├── 1080p
    ├── 2k
    └── 4k


4 directories, 0 files
chris@CIS106:~/lab6$ mkdir -p assets/{imgs,videos}/{large,small}
chris@CIS106:~/lab6$ tree assets/
assets/
├── imgs
│   ├── large
│   └── small
└── videos
    ├── large
    └── small


6 directories, 0 files
chris@CIS106:~/lab6$ mkdir docs/books/{history,math}/{fall,spring}
mkdir: cannot create directory 'docs/books/history/fall': No such file or directory
mkdir: cannot create directory 'docs/books/history/spring': No such file or directory
mkdir: cannot create directory 'docs/books/math/fall': No such file or directory
mkdir: cannot create directory 'docs/books/math/spring': No such file or directory
chris@CIS106:~/lab6$ touch docs/books/{history,math}/{fall,spring}
```

```
chris@CIS106:~/lab6$ touch docs/books/{history,math}/{fall,spring}.pdf/book.pdf
touch: cannot touch 'docs/books/history/fall.pdf/book.pdf': No such file or directory
touch: cannot touch 'docs/books/history/spring.pdf/book.pdf': No such file or directory
touch: cannot touch 'docs/books/math/fall.pdf/book.pdf': No such file or directory
touch: cannot touch 'docs/books/math/spring.pdf/book.pdf': No such file or directory
chris@CIS106:~/lab6$ touch docs/books/{history,math}/{fall,spring}/book.pdf
touch: cannot touch 'docs/books/history/fall/book.pdf': No such file or directory
touch: cannot touch 'docs/books/history/spring/book.pdf': No such file or directory
touch: cannot touch 'docs/books/math/fall/book.pdf': No such file or directory
touch: cannot touch 'docs/books/math/spring/book.pdf': No such file or directory
chris@CIS106:~/lab6$ touch docs/books/{history,math}/{fall,spring}/book.pdf
touch: cannot touch 'docs/books/history/fall/book.pdf': No such file or directory
touch: cannot touch 'docs/books/history/spring/book.pdf': No such file or directory
touch: cannot touch 'docs/books/math/fall/book.pdf': No such file or directory
touch: cannot touch 'docs/books/math/spring/book.pdf': No such file or directory
chris@CIS106:~/lab6$ touch docs/
touch: setting times of 'docs/': No such file or directory
chris@CIS106:~/lab6$ cd docs/
bash: cd: docs/: No such file or directory
chris@CIS106:~/lab6$ mkdir docs
chris@CIS106:~/lab6$ touch docs/books/{history,math}/{fall,spring}/book.pdf
touch: cannot touch 'docs/books/history/fall/book.pdf': No such file or directory
touch: cannot touch 'docs/books/history/spring/book.pdf': No such file or directory
touch: cannot touch 'docs/books/math/fall/book.pdf': No such file or directory
touch: cannot touch 'docs/books/math/spring/book.pdf': No such file or directory
chris@CIS106:~/lab6$ touch Documents/books/{history,math}/{fall,spring}/book.pdf
touch: cannot touch 'Documents/books/history/fall/book.pdf': No such file or directory
touch: cannot touch 'Documents/books/history/spring/book.pdf': No such file or directory
touch: cannot touch 'Documents/books/math/fall/book.pdf': No such file or directory
touch: cannot touch 'Documents/books/math/spring/book.pdf': No such file or directory
chris@CIS106:~/lab6$ touch docs/books/{history,math}/{fall,spring}/book.pdf
touch: cannot touch 'docs/books/history/fall/book.pdf': No such file or directory
touch: cannot touch 'docs/books/history/spring/book.pdf': No such file or directory
touch: cannot touch 'docs/books/math/fall/book.pdf': No such file or directory
touch: cannot touch 'docs/books/math/spring/book.pdf': No such file or directory
```

```
1: chris@CIS106: /usr/share ∨

chris@CIS106:~/lab6$ mkdir ~/lab6-q5
chris@CIS106:~/lab6$ cd /
chris@CIS106:/$ touch ~/lab6-q5/{program.py,people.csv,data.xls}
chris@CIS106:/$ cd /usr/share/
chris@CIS106:/usr/share$ mkdir ~/lab6-q5/movies
chris@CIS106:/usr/share$ touch ~/lab6-q5/movies/{movies.lst,marvel.txt,disney.doc}
chris@CIS106:/usr/share$ rm ~/lab6-q5/{program.py,people.csv,/movies/{marvel.txt,disney.doc}
chris@CIS106:/usr/share$ tree ~/lab6-q5/
/home/chris/lab6-q5/
├── data.xls
└── movies
    └── movies.lst

1 directory, 2 files
chris@CIS106:/usr/share$
```