Lab 6 The Linux File System

Question 1

```
amejia40854@cis106:~$ ls lab6/*.log
lab6/88_Application-log.log   lab6/kern.log
lab6/alternatives.log         lab6/luahbtex.log
lab6/apache01-error.log       lab6/luatex.log
lab6/apache22.log             lab6/mf.log
lab6/auth.log                 lab6/pdfetex.log
lab6/bootstrap.log            lab6/pdftex.log
lab6/casper.log               lab6/term.log
lab6/dpkg.log                 lab6/tex.log
lab6/dviluatex.log            lab6/ubuntu-advantage.log
lab6/etex.log                 lab6/unattended-upgrades-dpkg.log
lab6/fontconfig.log           lab6/unattended-upgrades.log
lab6/gpu-manager.log          lab6/unattended-upgrades-shutdown.log
lab6/history.log              lab6/updmap.log
lab6/http404.log              lab6/vboxadd-setup.log
amejia40854@cis106:~$ mkdir lab6/log-files; mv lab6/*.log lab6/log-files
amejia40854@cis106:~$ ls /etc/*.conf
/etc/adduser.conf          /etc/host.conf          /etc/pnm2ppa.conf
/etc/apg.conf              /etc/inxi.conf          /etc/resolv.conf
/etc/appstream.conf        /etc/kernel-img.conf    /etc/rsyslog.conf
/etc/brltty.conf           /etc/kerneloops.conf    /etc/rygel.conf
/etc/ca-certificates.conf  /etc/ld.so.conf         /etc/sensors3.conf
/etc/debconf.conf          /etc/libao.conf         /etc/sudo.conf
/etc/deluser.conf          /etc/libaudit.conf      /etc/sudo_logsrvd.conf
/etc/e2scrub.conf          /etc/logrotate.conf     /etc/sysctl.conf
/etc/fprintd.conf          /etc/mke2fs.conf        /etc/ucf.conf
/etc/fuse.conf             /etc/nftables.conf      /etc/usb_modeswitch.conf
/etc/gai.conf              /etc/nsswitch.conf      /etc/xattr.conf
/etc/hdparm.conf           /etc/pam.conf
amejia40854@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
amejia40854@cis106:~$
```

Question 2

```
1/1 ∨  +  ⬚  ⬚                    Tilix: amejia40854@cis106: ~/lab6                           Q  ≡  –  ⬚  ✕
1: amejia40854@cis106: ~/lab6 ∨                                                                      ⬚  ✕
amejia40854@cis106:~/lab6$ ls .??*
.auto-changelog   .eslintrc                   .keep                         .profile
.babelrc          .eslintrc.js                .last_revision                .python_history
.bash_aliases     .eslintrc.json              .lesshst                      .sudo_as_admin_successful
.bash_history     .eslintrc.yml               .lint                         .tern-project
.bash_logout      .gitattributes              .metadata-v2                  .testignore
.bashrc           .gitconfig                  .meta.isrunning               .textFiles
.changed          .gitkeep                    .mh_sequences                 .tm_properties
cis106.png        .gitmodules                 .min-wd                       .tonic_example.js
.claws_cache      .gsd-keyboard.settings-ported  .npmignore                 .travis.yml
.claws_mark       .htaccess                   .nycrc                        .uuid
.claws_tags       .istanbul.yml               .obsolete                     .vboxclient-clipboard.pid
.coveralls.yml    .jscs.json                  .org.chromium.Chromium.nIswp5 .vboxclient-draganddrop.pid
.dir-locals.el    .jscsrc                     .org.chromium.Chromium.U1cEMe .vboxclient-seamless.pid
.editorconfig     .jshintignore               .padding                      .vboxclient-vmsvga-session-tty2.pid
.eslintignore     .jshintrc                   .parentlock                   .vsixmanifest
amejia40854@cis106:~/lab6$ ls *.??
file_00.sh  file_01.sh  file_02.sh  file_03.sh  file_04.sh  file_05.sh
amejia40854@cis106:~/lab6$ ls l?st*
last.txt  list.txt  lost.txt
amejia40854@cis106:~/lab6$ ls *_??.*
file_00.sh  file_01.sh  file_02.sh  file_03.sh  file_04.sh  file_05.sh
amejia40854@cis106:~/lab6$
```
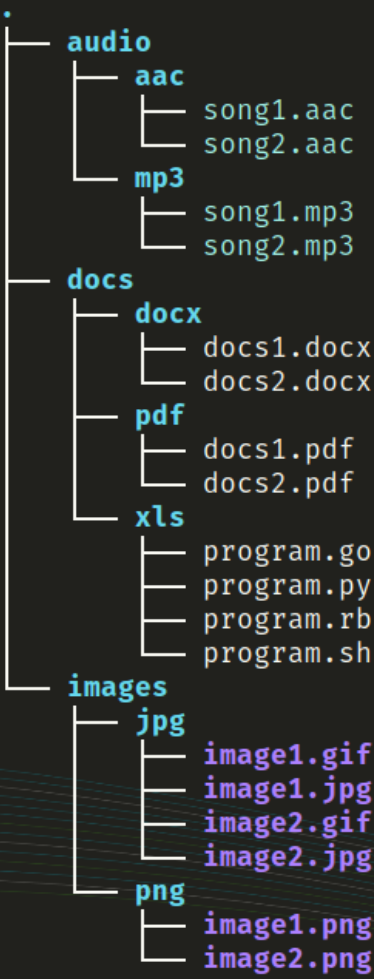
Question 3

```
amejia40854@cis106:~/lab6$ ls [A-Z]*
Document.doc   Expenses.xls
amejia40854@cis106:~/lab6$ ls [A-Z0-9]*
25Games.lst   Document.doc   Expenses.xls
amejia40854@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
amejia40854@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
```

Question 4

```
amejia40854@cis106:~/lab6$ mkdir -p wallpaper/cars/{1080p,2k,4k}
amejia40854@cis106:~/lab6$ tree wallpaper/
wallpaper/
└── cars
    ├── 1080p
    ├── 2k
    └── 4k

4 directories, 0 files
amejia40854@cis106:~/lab6$
```

```
amejia40854@cis106:~/lab6$ mkdir -p assets/{imgs,videos}/{large,small}
amejia40854@cis106:~/lab6$ tree assets/
assets/
├── imgs
│   ├── large
│   └── small
└── videos
    ├── large
    └── small

6 directories, 0 files
amejia40854@cis106:~/lab6$
```

```
amejia40854@cis106:~/lab6$ mkdir -p docs/books/{history,math}/{fall,spring}
amejia40854@cis106:~/lab6$ touch docs/books/{history,math}/{fall,spring}/book.pdf
amejia40854@cis106:~/lab6$ tree docs/
docs/
└── books
    ├── history
    │   ├── fall
    │   │   └── book.pdf
    │   └── spring
    │       └── book.pdf
    └── math
        ├── fall
        │   └── book.pdf
        └── spring
            └── book.pdf

7 directories, 4 files
amejia40854@cis106:~/lab6$
```

```
amejia40854@cis106:~/lab6$ mkdir ~/lab6-q5; cd /; touch ~/lab6-q5/{program.py,people.csv,data.xls}
amejia40854@cis106:/$ cd /usr/share; mkdir ~/lab6-q5/movies; touch ~/lab6-q5/movies/{movies.lst,marvel.txt,disney.doc}
amejia40854@cis106:/usr/share$ rm ~/lab6-q5/{program.py,people.csv,/movies/{disney.doc,marvel.txt}}
amejia40854@cis106:/usr/share$ tree ~/lab6-q5/
/home/amejia40854/lab6-q5/
├── data.xls
└── movies
    └── movies.lst

1 directory, 2 files
amejia40854@cis106:/usr/share$
```

Question 5

```
amejia40854@cis106:~$ cd challenge-Lab6/
amejia40854@cis106:~/challenge-Lab6$ mkdir -p {audio,audio/{aac,mp3},docs,docs/{
docx,pdf,xls},images,images/{jpg,png}}
amejia40854@cis106:~/challenge-Lab6$ mv *.aac audio/aac && mv *.mp3 audio/mp3
amejia40854@cis106:~/challenge-Lab6$ mv *.docx docs/docx && mv *.pdf docs/pdf &&
 mv program* docs/
amejia40854@cis106:~/challenge-Lab6$ mv *.jpg images/jpg && mv *.png images/png
&& mv *.gif images/jpg/
amejia40854@cis106:~/challenge-Lab6$ mv docs/pro* docs/xls/
amejia40854@cis106:~/challenge-Lab6$ tree
.
├── audio
│   ├── aac
│   │   ├── 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
    ├── jpg
    │   ├── image1.gif
    │   ├── image1.jpg
    │   ├── image2.gif
    │   └── image2.jpg
    └── png
        ├── image1.png
        └── image2.png

10 directories, 18 files
amejia40854@cis106:~/challenge-Lab6$
```