

Question #1

```

katy@cis106:/$ ls -A etc/*.conf
etc/adduser.conf      etc/debconf.conf    etc/gai.conf         etc/kerneloops.conf  etc/ltrace.conf      etc/pnm2ppa.conf      etc/sensors3.conf
etc/appg.conf         etc/deluser.conf    etc/hdparm.conf      etc/ld.so.conf       etc/mke2fs.conf      etc/popularity-contest.conf  etc/sysctl.conf
etc/appstream.conf    etc/e2scrub.conf    etc/host.conf        etc/libao.conf       etc/mtools.conf      etc/resolv.conf        etc/ucf.conf
etc/brltty.conf       etc/fprintd.conf    etc/inxi.conf        etc/libaudit.conf    etc/nsswitch.conf    etc/rsyslog.conf       etc/usb_modeswitch.conf
etc/ca-certificates.conf  etc/fuse.conf       etc/kernel-img.conf  etc/logrotate.conf   etc/pam.conf         etc/rygel.conf         etc/xattr.conf
katy@cis106:/$

katy@cis106: /
katy@cis106: /
katy@cis106:/$ ls -lgHs --time-style=+%D etc/h*.conf etc/p*.conf
-rw-r--r-- 1 7.5K 08/19/21 etc/pnm2ppa.conf
-rw-r--r-- 1 5.0K 08/21/19 etc/hdparm.conf
-rw-r--r-- 1 552 12/17/19 etc/pam.conf
-rw-rw-r-- 1 350 02/19/22 etc/popularity-contest.conf
-rw-r--r-- 1 92 12/05/19 etc/host.conf
katy@cis106:/$

katy@cis106: /
katy@cis106:/$ ls -R /usr/share/themes/*/*.theme
/usr/share/themes/Adwaita-dark/index.theme /usr/share/themes/HighContrast/index.theme /usr/share/themes/Yaru/index.theme
/usr/share/themes/Adwaita/index.theme /usr/share/themes/Yaru-dark/index.theme /usr/share/themes/Yaru-light/index.theme
katy@cis106:/$

katy@cis106: ~/lab6
katy@cis106:~/lab6$ mkdir lab6/log-files
katy@cis106:~/lab6$ ls
1tutorial.txt  Downloads      lab5ChallengeQuestion  Music      snap
2tutorial.txt  lab4files      lab5-docs              Pictures    Templates
cis106         lab4files.zip  lab5-imgs              practicels  Videos
Desktop        lab-5          lab5-video             Public      website
Documents      lab5-audio     lab6                   share
katy@cis106:~/lab6$ cd lab6
katy@cis106:~/lab6$ ls
25Games.lst      Expenses.xls    kern.log
88_Application-log.log  file_00.sh     last.txt
alternatives.log  file_01.sh     list.txt
apache01-error.log file_02.sh     log-files
apache03.err      file_03.sh     lost.txt
apache22.log      file_04.sh     make.log
auth.log          file_05.sh     term.log
bootstrap.log     fontconfig.log trip22_info.doc
deluged.log       gpu-manager.log unattended-upgrades-dpkg.log
Document.doc      history.log     unattended-upgrades.log
dpkg.log          http404.log    unattended-upgrades-shutdown.log
katy@cis106:~/lab6$ mv *.log log-files
katy@cis106:~/lab6$ ls log-files
88_Application-log.log  apache01-error.log  auth.log      deluged.log  fontconfig.log  history.log  kern.log  term.log  unattended-upgrades.log
alternatives.log        apache22.log        bootstrap.log  dpkg.log     gpu-manager.log  http404.log  make.log  unattended-upgrades-dpkg.log  unattended-upgrades-shutdown.log
katy@cis106:~/lab6$

```

Question #2

```
katy@cis106: ~  
katy@cis106:~$ ls -A lab6/.??**  
lab6/.appveyor.yml      lab6/.gitattributes    lab6/.npmignore  
lab6/.auto-changelog    lab6/.gitconfig        lab6/.nycrc  
lab6/.bash_history      lab6/.gitignore        lab6/.obsolete  
lab6/.bash_logout      lab6/.gitkeep          lab6/.padding  
lab6/.bashrc            lab6/.gitmodules       lab6/.parentlock  
lab6/.blocks-log        lab6/.hidden           lab6/.prettierignore  
lab6/.blocks-progress  lab6/.htaccess         lab6/.prettierrc.yaml  
lab6/.changed           lab6/.istanbul.yml     lab6/.profile  
lab6/.cis106.png        lab6/.jscs.json        lab6/.sudo_as_admin_successful  
lab6/.coveralls.yml    lab6/.jscsrc           lab6/.tern-project  
lab6/.dir-locals.el     lab6/.jshintignore     lab6/.tm_properties  
lab6/.editorconfig     lab6/.jshintrc         lab6/.tonic_example.js  
lab6/.envrc             lab6/.keep             lab6/.travis.yml  
lab6/.eslintignore     lab6/.last_revision    lab6/.vboxclient-clipboard.pid  
lab6/.eslintrc         lab6/.lessht           lab6/.vboxclient-display-svgx-x11.pid  
lab6/.eslintrc.js       lab6/.metadata-v2      lab6/.vboxclient-draganddrop.pid  
lab6/.eslintrc.json     lab6/.meta.isrunning  lab6/.vboxclient-seamless.pid  
lab6/.eslintrc.yml      lab6/.min-wd           lab6/.vsixmanifest  
katy@cis106:~$
```

```
katy@cis106: ~  
katy@cis106:~$ ls -A lab6/*.??  
lab6/file_00.sh  lab6/file_02.sh  lab6/file_04.sh  
lab6/file_01.sh  lab6/file_03.sh  lab6/file_05.sh  
katy@cis106:~$
```

```

katy@cis106: ~
katy@cis106:~$ ls lab6
25Games.lst    Expenses.xls    file_02.sh    file_05.sh    log-files
apache03.err   file_00.sh     file_03.sh    last.txt      lost.txt
Document.doc   file_01.sh     file_04.sh    list.txt      trip22-info.doc
katy@cis106:~$ ls -A lab6/l?st*
lab6/last.txt  lab6/list.txt  lab6/lost.txt
katy@cis106:~$

```

```

katy@cis106: ~
katy@cis106:~$ ls -A lab6
25Games.lst      .eslintrc.js    .jscs.json      .parentlock
apache03.err     .eslintrc.json  .jscsrc         .prettierrignore
.appveyor.yml    .eslintrc.yml   .jshintignore    .prettierrc.yaml
.auto-changelog  Expenses.xls     .jshintrc       .profile
.bash_history    file_00.sh      .keep           .sudo_as_admin_successful
.bash_logout     file_01.sh      .last_revision  .tern-project
.bashrc          file_02.sh      last.txt        .tm_properties
.blocks-log       file_03.sh      .lessht        .tonic_example.js
.blocks-progress file_04.sh      list.txt        .travis.yml
.changed         file_05.sh      log-files       trip22-info.doc
.cis106.png      .gitattributes  lost.txt        .vboxclient-clipboard.pid
.coveralls.yml   .gitconfig      .metadata-v2    .vboxclient-display-svga-x11.pid
.dir-locals.el   .gitignore      .meta.isrunning.vboxclient-draganddrop.pid
Document.doc     .gitkeep        .min-wd         .vboxclient-seamless.pid
.editorconfig    .gitmodules     .npmignore      .vsixmanifest
.envrc           .hidden         .nycrc
.eslintignore    .htaccess       .obsolete
.eslintrc        .istanbul.yml   .padding
katy@cis106:~$ ls -A lab6/* ??.*
lab6/file_00.sh  lab6/file_02.sh  lab6/file_04.sh
lab6/file_01.sh  lab6/file_03.sh  lab6/file_05.sh
katy@cis106:~$

```

Question #3

```

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

katy@cis106: ~
katy@cis106:~$ ls lab6
25Games.lst  apache03.err  Document.doc  Expenses.xls  file_00.sh  file_01.sh  file_02.sh  file_03.sh  file_04.sh  file_05.sh  last.txt  list.txt  log-files  lost.txt  trip22-info.doc
katy@cis106:~$ ls lab6/[a-z]*[0-9]*
lab6/apache03.err  lab6/file_00.sh  lab6/file_01.sh  lab6/file_02.sh  lab6/file_03.sh  lab6/file_04.sh  lab6/file_05.sh
katy@cis106:~$

```

Question #4

```
katy@cis106: ~/lab6 x katy@c  
katy@cis106:~/lab6$ mkdir -p wallpapers/cars/{1080p,2k,4k}  
katy@cis106:~/lab6$ tree wallpapers  
wallpapers  
├── cars  
│   ├── 1080p  
│   ├── 2k  
│   └── 4k  
  
4 directories, 0 files  
katy@cis106:~/lab6$
```

```
katy@cis106: ~/lab6 x katy@ci  
katy@cis106:~/lab6$ mkdir -p assets/{imgs,videos}/{large,small}  
katy@cis106:~/lab6$ tree assets  
assets  
├── imgs  
│   ├── large  
│   └── small  
└── videos  
    ├── large  
    └── small  
  
6 directories, 0 files  
katy@cis106:~/lab6$
```

```
katy@cis106: ~/lab6 x katy@cis106: /
katy@cis106:~/lab6$ mkdir -p docs/books/{history,math}/{fall,spring}
katy@cis106:~/lab6$ tree docs
docs
├── books
│   ├── history
│   │   ├── fall
│   │   └── spring
│   └── math
│       ├── fall
│       └── spring
7 directories, 0 files
katy@cis106:~/lab6$ touch -p docs/books/{history,math}/{fall,spring}/book.pdf
touch: invalid option -- 'p'
Try 'touch --help' for more information.
katy@cis106:~/lab6$ touch docs/books/{history,math}/{fall,spring}/book.pdf
katy@cis106:~/lab6$ tree docs
docs
├── books
│   ├── history
│   │   ├── fall
│   │   │   └── book.pdf
│   │   └── spring
│   │       └── book.pdf
│   └── math
│       ├── fall
│       │   └── book.pdf
│       └── spring
│           └── book.pdf
7 directories, 4 files
katy@cis106:~/lab6$
```

```
katy@cis106: ~/lab6 x katy@cis106: /
katy@cis106:~/lab6$ mkdir -p research/{books/{math,science}/{epub,pdf},magazines/{computers,running,videogames}/{fanmade,official}}/
katy@cis106:~/lab6$ tree research
research
├── books
│   ├── math
│   │   ├── epub
│   │   └── pdf
│   └── science
│       ├── epub
│       └── pdf
└── magazines
    ├── computers
    │   ├── fanmade
    │   └── official
    ├── running
    │   ├── fanmade
    │   └── official
    └── videogames
        ├── fanmade
        └── official
17 directories, 0 files
katy@cis106:~/lab6$
```

Question #5

```
katy@cis106: /usr/share × katy@cis106: /
katy@cis106:~$ mkdir lab6-q5
katy@cis106:~$ cd /
katy@cis106:/$ touch ~/lab6-q5/{program.py,people.csv,data.xls}
katy@cis106:/$ tree ~/lab6-q5/
/home/katy/lab6-q5/
├── data.xls
├── people.csv
└── program.py

0 directories, 3 files
katy@cis106:/$ cd /usr/share
katy@cis106:/usr/share$ mkdir ~/lab6-q5/movies
katy@cis106:/usr/share$ touch ~/lab6-q5/movies/{movies.lst,marvel.txt,disney.doc}
katy@cis106:/usr/share$ tree ~/lab6-q5/movies/
/home/katy/lab6-q5/movies/
├── disney.doc
├── marvel.txt
└── movies.lst

0 directories, 3 files
katy@cis106:/usr/share$ 
katy@cis106:/usr/share$ rm ~/lab6-q5/{program.py,people.csv} ~/lab6-q5/movies/{marvel.txt,disney.doc}
katy@cis106:/usr/share$ tree ~/lab6-q5/movies/
/home/katy/lab6-q5/movies/
└── movies.lst

0 directories, 1 file
katy@cis106:/usr/share$
```

Challenge Question


```
katy@cis106: ~/challenge-Lab6
katy@cis106:~/challenge-Lab6$ mkdir -p {audio/{aac,mp3},docs/{docx,pdf,xls},images/{jpg,png}}
katy@cis106:~/challenge-Lab6$ mv *.aac audio/aac
katy@cis106:~/challenge-Lab6$ mv *.mp3 audio/mp3
katy@cis106:~/challenge-Lab6$ mv *.doc* docs/docx
katy@cis106:~/challenge-Lab6$ mv *.pdf docs/pdf
katy@cis106:~/challenge-Lab6$ mv *.xls docs/xls
mv: cannot stat '*.xls': No such file or directory
katy@cis106:~/challenge-Lab6$ mv *.jpg images/jpg
katy@cis106:~/challenge-Lab6$ mv *.png images/png
katy@cis106:~/challenge-Lab6$ tree
.
├── audio
│   ├── aac
│   │   ├── song1.aac
│   │   ├── song2.aac
│   │   └── song3.aac
│   └── mp3
│       ├── song1.mp3
│       ├── song2.mp3
│       └── song3.mp3
├── docs
│   ├── docx
│   │   ├── docs1.doc
│   │   ├── docs1.docx
│   │   ├── docs2.doc
│   │   ├── docs2.docx
│   │   ├── docs3.doc
│   │   └── docs3.docx
│   ├── pdf
│   │   ├── docs1.pdf
│   │   ├── docs2.pdf
│   │   └── docs3.pdf
│   └── xls
├── image1.gif
├── image2.gif
└── image3.gif
```

```
katy@cis106:~/challenge-Lab6$ tree
.
├── audio
│   ├── aac
│   │   ├── song1.aac
│   │   ├── song2.aac
│   │   └── song3.aac
│   └── mp3
│       ├── song1.mp3
│       ├── song2.mp3
│       └── song3.mp3
├── docs
│   ├── docx
│   │   ├── docs1.doc
│   │   ├── docs1.docx
│   │   ├── docs2.doc
│   │   ├── docs2.docx
│   │   ├── docs3.doc
│   │   └── docs3.docx
│   └── pdf
│       ├── docs1.pdf
│       ├── docs2.pdf
│       └── docs3.pdf
├── image1.gif
├── image2.gif
└── image3.gif
```



```
├── docs3.pdf
├── xls
├── image1.gif
├── image2.gif
├── image3.gif
├── images
│   ├── jpg
│   │   ├── image1.jpg
│   │   ├── image2.jpg
│   │   └── image3.jpg
│   └── png
│       ├── image1.png
│       ├── image2.png
│       └── image3.png
├── programs.go
├── programs.py
├── programs.rb
└── programs.sh
```