

Lab 6

Question 1

```
sgilmore@cis106:~$ curl https://cis106.com/assets/lab6.sh | bash
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left   Speed
100  425  100  425    0     0  1107      0  --:--:--  --:--:--  --:--:--  1106
sgilmore@cis106:~$ cd ~/lab6/
sgilmore@cis106:~/lab6$ ls *.lo
ls: cannot access '*.lo': No such file or directory
sgilmore@cis106:~/lab6$ ls *.log
88_Application-log.log  etex.log          pdftex.log
alternatives.log        fontconfig.log     term.log
apache01-error.log      gpu-manager.log    tex.log
apache22.log            history.log         ubuntu-advantage.log
apport.log              http404.log         ubuntu-advantage-timer.log
auth.log                kern.log            unattended-upgrades-shutdown.log
bootstrap.log           luahtex.log         updmap.log
casper.log              luatex.log          vboxadd-install.log
dpkg.log                mf.log             vboxadd-setup.log
dviluatex.log           pdfetex.log
sgilmore@cis106:~/lab6$ mkdir log-files
sgilmore@cis106:~/lab6$ mv *.log ~/lab6/log-files/

sgilmore@cis106:~/lab6$ cd
sgilmore@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
```

```
sgilmore@cis106:~$ ls -lSgH --time-style=+%D /etc/[hp]*.conf
-rw-r--r-- 1 7.5K 08/09/22 /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
sgilmore@cis106:~$
```

Question 2

```

sgilmore@cis106:~$ cd ~/lab6/
sgilmore@cis106:~/lab6$ ls .??*
.appveyor.yml      .eslintrc.js      .htaccess          .parentlock
.auto-changelog    .eslintrc.json    .istanbul.yml      .prettierignore
.babelrc           .eslintrc.yml     .jscs.json         .prettierrc.yaml
.bash_history      .gitattributes    .jscsrc            .profile
.bash_logout       .gitconfig        .jshintignore       .sudo_as_admin_successful
.bashrc            .github.png       .jshintrc          .tern-project
.blackboard.png    .gitignore        .keep              .testignore
.changed           .gitkeep          .last_revision     .tm_properties
.cis106.png        .gitmodules       .lint              .tonic_example.js
.coveralls.yml     .gsd-keyboard.settings-ported .metadata-v2       .travis.yml
.dir-locals.el     .hidden1.doc      .meta.isrunning   .vboxclient-clipboard.pid
.editorconfig      .hidden1.py       .min-wd            .vboxclient-display-svg-x11.pid
.envrc             .hidden2.doc      .npmignore         .vboxclient-draganddrop.pid
.eslintignore      .hidden2.py       .nycrc             .vboxclient-seamless.pid
.eslintrc          .hiddenFile.txt   .padding           .vsixmanifest

sgilmore@cis106:~/lab6$ ls *.??
file_00.sh  file_01.sh  file_02.sh  file_03.sh  file_04.sh  file_05.sh
sgilmore@cis106:~/lab6$ ls l?st*
last.txt  list.txt  lost.txt
sgilmore@cis106:~/lab6$ ls *_??.*
file_00.sh  file_01.sh  file_02.sh  file_03.sh  file_04.sh  file_05.sh

```

Question 3

```

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

```

sgilmore@cis106:~/lab6$ mkdir -p wallpapers/cars/{1080p,2k,4k}
sgilmore@cis106:~/lab6$ tree wallpapers/
wallpapers/
├── cars
│   ├── 1080p
│   ├── 2k
│   └── 4k

```

```

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

```

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

6 directories, 4 files
```

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

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

0 directories, 3 files
```

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

1 directory, 2 files
```

Challenge Question

```

% Total      % Received % Xferd  Average Speed   Time    Time       Time    Current
                             Dload  Upload   Total     Spent      Left     Speed
100  165  100  165    0    0   743      0 --:--:-- --:--:-- --:--:--   746
sgilmore@cis106:~$ cd ~/challenge-Lab6/
sgilmore@cis106:~/challenge-Lab6$ ls -l
docs1.docx
docs1.pdf
docs2.docx
docs2.pdf
image1.gif
image1.jpg
image1.png
image2.gif
image2.jpg
image2.png
program.go
program.py
program.rb
program.sh
song1.aac
song1.mp3
song2.aac
song2.mp3

sgilmore@cis106:~/challenge-Lab6$ mkdir -p audio/{aac,mp3} docs/{docx,pdf,xls} images/{gif,jpg,png} program/{go,py,rb,sh}
sgilmore@cis106:~/challenge-Lab6$ mv song1.aac song2.aac audio/aac/
sgilmore@cis106:~/challenge-Lab6$ mv song1.mp3 song2.mp3 audio/mp3/
sgilmore@cis106:~/challenge-Lab6$ mv docs1.docx docs2.docx docs/docx/
sgilmore@cis106:~/challenge-Lab6$ mv docs1.pdf docs2.pdf docs/pdf/
sgilmore@cis106:~/challenge-Lab6$ mv image1.gif image2.gif images/gif/
sgilmore@cis106:~/challenge-Lab6$ mv image1.jpg image2.jpg images/jpg/
sgilmore@cis106:~/challenge-Lab6$ mv image1.png image2.png images/png/
sgilmore@cis106:~/challenge-Lab6$ mv program.go program/go/
sgilmore@cis106:~/challenge-Lab6$ mv program.py program/py/
sgilmore@cis106:~/challenge-Lab6$ mv program.rb program/rb/
sgilmore@cis106:~/challenge-Lab6$ mv program.sh program/sh/

```

```
sgilmore@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
├── images
│   ├── gif
│   │   ├── image1.gif
│   │   └── image2.gif
│   ├── jpg
│   │   ├── image1.jpg
│   │   └── image2.jpg
│   └── png
│       ├── image1.png
│       └── image2.png
└── program
    ├── go
    │   └── program.go
    ├── py
    │   └── program.py
    ├── rb
    │   └── program.rb
    └── sh
        └── program.sh
```

```
16 directories, 18 files
```