

Question 1

```
1: esantos@cis106desktop: ~/lab6/q1 ~  
esantos@cis106desktop:~$ curl https://cis106.com/assets/lab6/lab6.sh | bash  
 % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current  
                               Dload  Upload  Total   Spent    Left   Speed  
100  471    100  471    0    0    2979    0  --:--:--  --:--:--  --:--:-- 3000  
esantos@cis106desktop:~$ cd lab6/  
esantos@cis106desktop:~/lab6$ ls  
q1 q2 q3  
esantos@cis106desktop:~/lab6$ cd q1  
esantos@cis106desktop:~/lab6/q1$ ls  
access.log app.cfg ftp.log game.cfg ssh.log zebra.cnf  
apache.log error.log fuse.conf simple.cnf sudo.conf  
esantos@cis106desktop:~/lab6/q1$ ls *.log  
access.log apache.log error.log ftp.log ssh.log  
esantos@cis106desktop:~/lab6/q1$ mkdir ../log-files  
esantos@cis106desktop:~/lab6/q1$ mv *.log ../log-files/  
esantos@cis106desktop:~/lab6/q1$  
2: esantos@cis106desktop: ~ ~  
esantos@cis106desktop:~$ ls -l lab6/q1/*.c*  
lab6/q1/app.cfg  
lab6/q1/fuse.conf  
lab6/q1/game.cfg  
lab6/q1/simple.cnf  
lab6/q1/sudo.conf  
lab6/q1/zebra.cnf  
esantos@cis106desktop:~$ ls -lgHs lab6/q1/*.c*  
0 -rw-rw-r-- 1 0 Nov 9 21:30 lab6/q1/app.cfg  
0 -rw-rw-r-- 1 0 Nov 9 21:30 lab6/q1/fuse.conf  
0 -rw-rw-r-- 1 0 Nov 9 21:30 lab6/q1/game.cfg  
0 -rw-rw-r-- 1 0 Nov 9 21:30 lab6/q1/simple.cnf  
0 -rw-rw-r-- 1 0 Nov 9 21:30 lab6/q1/sudo.conf  
0 -rw-rw-r-- 1 0 Nov 9 21:30 lab6/q1/zebra.cnf  
esantos@cis106desktop:~$ ls -lgHs --time-style=%D lab6/q1/*.c*  
0 -rw-rw-r-- 1 0 11/09/24 lab6/q1/app.cfg  
0 -rw-rw-r-- 1 0 11/09/24 lab6/q1/fuse.conf  
0 -rw-rw-r-- 1 0 11/09/24 lab6/q1/game.cfg  
0 -rw-rw-r-- 1 0 11/09/24 lab6/q1/simple.cnf  
0 -rw-rw-r-- 1 0 11/09/24 lab6/q1/sudo.conf  
0 -rw-rw-r-- 1 0 11/09/24 lab6/q1/zebra.cnf  
esantos@cis106desktop:~$
```

Question 2

```
Tilix: esantos@cis106desktop: ~  
1: esantos@cis106desktop: ~  
esantos@cis106desktop:~/lab6/q1$ cd  
esantos@cis106desktop:~$ mkdir lab6/hidden-files/  
esantos@cis106desktop:~$ ls lab6/q2/.??*  
lab6/q2/.code lab6/q2/.helper lab6/q2/.index lab6/q2/.unit_test  
esantos@cis106desktop:~$ cp lab6/q2/.??* lab6/hidden-files/  
esantos@cis106desktop:~$ ls lab6/q2/.??  
ls: cannot access 'lab6/q2/.??': No such file or directory  
esantos@cis106desktop:~$ ls lab6/q2/*.*  
lab6/q2/code.go lab6/q2/code.js lab6/q2/code.py lab6/q2/code.rb lab6/q2/code.sh  
esantos@cis106desktop:~$ rm lab6/q2/*.*  
esantos@cis106desktop:~$ ls lab6/q2/T*.*  
lab6/q2/Trip_doc.docx lab6/q2/Trip_doc.vsd  
lab6/q2/Trip_doc.pptx lab6/q2/Trip_doc.xlsx  
esantos@cis106desktop:~$ rm lab6/q2/T*.*  
esantos@cis106desktop:~$ ls lab6/q2/[lr][aeiou]*[0-9].*  
lab6/q2/rest_0.txt lab6/q2/rest_1.txt lab6/q2/rust_0.txt lab6/q2/rust_1.txt  
esantos@cis106desktop:~$ ls lab6/q2/[lr][aeiou]*[0-9].*  
lab6/q2/last_0.txt lab6/q2/list_0.txt lab6/q2/lost_0.txt lab6/q2/rest_0.txt  
lab6/q2/last_1.txt lab6/q2/list_1.txt lab6/q2/lost_1.txt lab6/q2/rest_1.txt  
lab6/q2/last_2.txt lab6/q2/list_2.txt lab6/q2/lost_2.txt lab6/q2/rust_0.txt  
lab6/q2/last_3.txt lab6/q2/list_3.txt lab6/q2/lost_3.txt lab6/q2/rust_1.txt  
esantos@cis106desktop:~$ mkdir lab6/random  
esantos@cis106desktop:~$ mv lab6/q2/[lr][aeiou]*[0-9].* lab6/random/  
esantos@cis106desktop:~$ ls lab6/random/  
last_0.txt last_3.txt list_2.txt lost_1.txt rest_0.txt rust_1.txt  
last_1.txt list_0.txt list_3.txt lost_2.txt rest_1.txt  
last_2.txt list_1.txt lost_0.txt lost_3.txt rust_0.txt  
esantos@cis106desktop:~$  
2: esantos@cis106desktop: ~  
esantos@cis106desktop:~$ tree -a lab6/hidden-files/  
lab6/hidden-files/  
├── .code  
├── .helper  
├── .index  
└── .unit_test  
  
1 directory, 4 files  
esantos@cis106desktop:~$ ls lab6/q2/  
last_0.txt list_2.txt rest_0.txt  
last_1.txt list_3.txt rest_1.txt  
last_2.txt lost_0.txt rust_0.txt  
last_3.txt lost_1.txt rust_1.txt  
list_0.txt lost_2.txt  
list_1.txt lost_3.txt  
esantos@cis106desktop:~$  
3: esantos@cis106desktop: ~  
esantos@cis106desktop:~$ tree lab6/q2/  
lab6/q2/  
├── code.go  
├── code.js  
├── code.py  
├── code.rb  
├── code.sh  
├── last_0.txt  
├── last_1.txt  
├── last_2.txt  
├── last_3.txt  
├── list_0.txt  
├── list_1.txt  
├── list_2.txt  
├── list_3.txt  
├── lost_0.txt  
├── lost_1.txt  
├── lost_2.txt  
├── lost_3.txt  
├── rust_0.txt  
├── rust_1.txt  
├── rust_2.txt  
├── rust_3.txt  
├── rest_0.txt  
├── rest_1.txt  
├── rest_2.txt  
├── rest_3.txt  
├── rust_0.docx  
├── rust_0.pptx  
├── rust_0.vsd  
├── rust_0.xlsx  
  
1 directory, 25 files  
esantos@cis106desktop:~$
```

Question 3

Tilix: esantos@cis106desktop: ~/lab6

1: esantos@cis106desktop: ~

```
esantos@cis106desktop:~$ cd lab6/
esantos@cis106desktop:~/lab6$ mkdir -p wallpapers/cars/{1080p,2k,4k}
esantos@cis106desktop:~/lab6$ tree wallpapers/
wallpapers/
├── cars
│   ├── 1080p
│   ├── 2k
│   └── 4k
└── 5 directories, 0 files

esantos@cis106desktop:~/lab6$ mkdir -p assets/{imgs,video}/{large,small}
esantos@cis106desktop:~/lab6$ tree assets/
assets/
├── imgs
│   ├── large
│   └── small
└── video
    ├── large
    └── small
└── 7 directories, 0 files

esantos@cis106desktop:~/lab6$ cd ~
esantos@cis106desktop:~$ tree ~/lab6/q3
/home/esantos/lab6/q3
├── _file0.old
├── _file1.old
└── _file2.old
└── 1 directory, 3 files

esantos@cis106desktop:~$ touch ~/lab6/q3/{program.py,people.csv,data.xls}
esantos@cis106desktop:~$ tree ~/lab6/q3
/home/esantos/lab6/q3
├── data.xls
├── _file0.old
├── _file1.old
├── _file2.old
├── people.csv
└── program.py
└── 1 directory, 6 files

esantos@cis106desktop:~$ rm ~/lab6/q3/{_file0.old,_file1.old,_file2.old}
rm: cannot remove '/home/esantos/lab6/q3/_file0.old': No such file or directory
rm: cannot remove '/home/esantos/lab6/q3/_file1.old': No such file or directory
rm: cannot remove '/home/esantos/lab6/q3/_file2.old': No such file or directory
esantos@cis106desktop:~$ rm -i ~/lab6/q3/{_file0.old,_file1.old,_file2.old}
rm: cannot remove '/home/esantos/lab6/q3/_file0.old': No such file or directory
rm: cannot remove '/home/esantos/lab6/q3/_file1.old': No such file or directory
rm: cannot remove '/home/esantos/lab6/q3/_file2.old': No such file or directory
esantos@cis106desktop:~$ rm ~/lab6/q3/{_file0.old,_file1.old,_file2.old}
esantos@cis106desktop:~$ tree ~/lab6/q3
/home/esantos/lab6/q3
├── data.xls
├── people.csv
└── program.py
└── 1 directory, 3 files

esantos@cis106desktop:~$
```

2: esantos@cis106desktop: ~/lab6

```
esantos@cis106desktop:~/lab6$ cd lab6/
esantos@cis106desktop:~/lab6$ mkdir -p docs/books/{history/{fall,spring},math/{2024,2025}}
esantos@cis106desktop:~/lab6$ tree docs/
docs/
├── books
│   ├── history
│   │   ├── fall
│   │   └── spring
│   └── math
│       ├── 2024
│       └── 2025
└── 8 directories, 0 files

esantos@cis106desktop:~/lab6$ touch docs/books/history/fall/book.pdf
esantos@cis106desktop:~/lab6$ touch docs/books/history/spring/book.pdf
esantos@cis106desktop:~/lab6$ touch docs/books/math/2024/book.pdf
esantos@cis106desktop:~/lab6$ touch docs/books/math/2025/book.pdf
esantos@cis106desktop:~/lab6$ tree docs/
docs/
├── books
│   ├── history
│   │   ├── fall
│   │   │   └── book.pdf
│   │   └── spring
│   │       └── book.pdf
│   └── math
│       ├── 2024
│       │   └── book.pdf
│       └── 2025
│           └── book.pdf
└── 8 directories, 4 files

esantos@cis106desktop:~/lab6$
```

Challenge Question

1/1 + [] []

Tilix: esantos@cis106desktop: ~/challenge-Lab6

Q [] [] []

1: esantos@cis106desktop: ~/challenge-Lab6

2: esantos@cis106desktop: ~

```
esantos@cis106desktop:~/challenge-Lab6$ tree challenge/
challenge/
├── audio
│   ├── mp3
│   └── mp4
├── docs
│   ├── code
│   ├── doc
│   └── pdf
├── images
│   ├── gif
│   └── jpg
└── 
```

11 directories, 0 files

```
esantos@cis106desktop:~/challenge-Lab6$ mv {*.png,*.jpg} challenge/images/jpg/
esantos@cis106desktop:~/challenge-Lab6$ mv {*.gif} challenge/images/gif/

mv: cannot stat '{*.gif}': No such file or directory
esantos@cis106desktop:~/challenge-Lab6$ mv *.gif challenge/images/gif/

esantos@cis106desktop:~/challenge-Lab6$ mv {*.mp3,*.wav} challenge/audio/mp3/
esantos@cis106desktop:~/challenge-Lab6$ mv {*.mp4,*.ogg} challenge/audio/mp4/
esantos@cis106desktop:~/challenge-Lab6$ mv {*.py,*.pl,*.rb,*.sh} challenge/docs/code/
esantos@cis106desktop:~/challenge-Lab6$ mv {*.doc,*.odt} challenge/docs/doc/
esantos@cis106desktop:~/challenge-Lab6$ mv {*.pdf} challenge/docs/pdf/
mv: cannot stat '{*.pdf}': No such file or directory
esantos@cis106desktop:~/challenge-Lab6$ mv *.pdf challenge/docs/pdf/
esantos@cis106desktop:~/challenge-Lab6$ tree challenge/
challenge/
├── audio
│   ├── mp3
│   │   ├── music.mp3
│   │   └── track.wav
│   └── mp4
│       ├── Breakers1.mp4
│       ├── Sonicwings2.mp4
│       └── sound_track.ogg
├── docs
│   ├── code
│   │   ├── helloWorld.pl
│   │   ├── helloWorld.py
│   │   ├── helloWorld.rb
│   │   └── helloWorld.sh
│   ├── doc
│   │   ├── file-sample_100kB.odt
│   │   └── file-sample_1MB.doc
│   └── pdf
│       └── file-sample_150kB.pdf
├── images
│   ├── gif
│   │   └── 2e1n.gif
│   └── jpg
│       ├── 1e1n.png
│       └── 3e1n.jpg
└── 
```

11 directories, 15 files

```
esantos@cis106desktop:~/challenge-Lab6$
```

```
esantos@cis106desktop:~$ ls ~/challenge-Lab6/
Breakers1.mp4
challenge
file-sample_100kB.odt
file-sample_150kB.pdf
file-sample_1MB.doc
helloWorld.pl
helloWorld.py
helloWorld.rb
helloWorld.sh
music.mp3
Sonicwings2.mp4
sound_track.ogg
track.wav
esantos@cis106desktop:~$ tree ~/challenge-Lab6/
/home/esantos/challenge-Lab6/
├── Breakers1.mp4
├── challenge
│   ├── audio
│   │   ├── mp3
│   │   └── mp4
│   ├── docs
│   │   ├── code
│   │   ├── doc
│   │   └── pdf
│   ├── images
│   │   ├── gif
│   │   │   └── 2e1n.gif
│   │   └── jpg
│   │       ├── 1e1n.png
│   │       └── 3e1n.jpg
├── file-sample_100kB.odt
├── file-sample_150kB.pdf
├── file-sample_1MB.doc
├── helloWorld.pl
├── helloWorld.py
├── helloWorld.rb
├── helloWorld.sh
├── music.mp3
├── Sonicwings2.mp4
├── sound_track.ogg
└── track.wav

12 directories, 15 files
esantos@cis106desktop:~$
```