

Question 1

```
student@student-VirtualBox:~$ 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    28      0  0:00:15  0:00:15  --:--:--  100
student@student-VirtualBox:~$ ls /etc/*.conf
/etc/adduser.conf      /etc/brltty.conf      /etc/deluser.conf     /etc/fuse.conf        /etc/host.conf        /etc/kerneloops.conf  /et
c/libaudit.conf       /etc/mke2fs.conf      /etc/pam.conf         /etc/resolv.conf      /etc/sensors3.conf   /etc/usb_modeswitch.conf
/etc/apg.conf         /etc/ca-certificates.conf /etc/e2scrub.conf     /etc/gai.conf         /etc/inxi.conf        /etc/ld.so.conf       /et
c/logrotate.conf     /etc/mtools.conf      /etc/pnm2ppa.conf     /etc/rsyslog.conf     /etc/sysctl.conf     /etc/xattr.conf
/etc/appstream.conf  /etc/debconf.conf     /etc/fprintd.conf     /etc/hdparm.conf     /etc/kernel-img.conf /etc/libao.conf       /et
c/ltrace.conf        /etc/nsswitch.conf    /etc/popularity-contest.conf /etc/rygel.conf       /etc/ucf.conf
student@student-VirtualBox:~$ 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 02/22/22 /etc/popularity-contest.conf
-rw-r--r-- 1 92 12/05/19 /etc/host.conf
student@student-VirtualBox:~$ ls -R /usr/share/themes/*.theme
ls: cannot access '/usr/share/themes/*.theme': No such file or directory
student@student-VirtualBox:~$ ls ~/lab6/*.log
/home/student/lab6/88_Application-log.log /home/student/lab6/dpkg.log /home/student/lab6/make.log
/home/student/lab6/alternatives.log /home/student/lab6/fontconfig.log /home/student/lab6/term.log
/home/student/lab6/apache01-error.log /home/student/lab6/gpu-manager.log /home/student/lab6/unattended-upgrades-dpkg.log
/home/student/lab6/apache22.log /home/student/lab6/history.log /home/student/lab6/unattended-upgrades.log
/home/student/lab6/auth.log /home/student/lab6/httpd04.log /home/student/lab6/unattended-upgrades-shutdown.log
/home/student/lab6/bootstrap.log /home/student/lab6/kern.log
student@student-VirtualBox:~$ mkdir lab6/log-files
student@student-VirtualBox:~$ mv lab6/*.log lab6/log-files
student@student-VirtualBox:~$
```

Question 2

```
student@student-VirtualBox:~$ ls -A lab6/.*
lab6/.appveyor.yml lab6/.eslintrc lab6/.jshintignore lab6/.sudo_as_admin_successful
lab6/.auto-changelog lab6/.eslintrc.js lab6/.jshintrc lab6/.templdir.cache
lab6/.bash_history lab6/.eslintrc.json lab6/.keep lab6/.tern-project
lab6/.bash_logout lab6/.eslintrc.yml lab6/.last_revision lab6/.tm_properties
lab6/.bashrc lab6/.gitattributes lab6/.metadata-v2 lab6/.tonic_example.js
lab6/.blocks-log lab6/.gitconfig lab6/.meta.isrunning lab6/.travis.yml
lab6/.blocks-progress lab6/.gitignore lab6/.min-wd lab6/.vboxclient-clipboard.pid
lab6/.changed lab6/.gitkeep lab6/.npmignore lab6/.vboxclient-display-svg-x11.pid
lab6/.cis106.png lab6/.gitmodules lab6/.nycrc lab6/.vboxclient-draganddrop.pid
lab6/.coveralls.yml lab6/.hidden lab6/.obsolete lab6/.vboxclient-seamless.pid
lab6/.dir-locales.el lab6/.htaccess lab6/.parentlock lab6/.vsixmanifest
lab6/.editorconfig lab6/.istanbul.yml lab6/.prettierrignore
lab6/.envrc lab6/.jscs.json lab6/.prettierrc.yaml
lab6/.eslintignore lab6/.jscsrc lab6/.profile
student@student-VirtualBox:~$ ls -A lab6/*.*
lab6/file_00.sh lab6/file_01.sh lab6/file_02.sh lab6/file_03.sh lab6/file_04.sh lab6/file_05.sh
student@student-VirtualBox:~$ ls -A lab6/l?st*
lab6/last.txt lab6/list.txt lab6/lost.txt
student@student-VirtualBox:~$ ls -A lab6/_??.*
ls: cannot access 'lab6/_??.*': No such file or directory
student@student-VirtualBox:~$ ls -A lab6/*_??.*
lab6/file_00.sh lab6/file_01.sh lab6/file_02.sh lab6/file_03.sh lab6/file_04.sh lab6/file_05.sh
student@student-VirtualBox:~$
```

Question 3

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

Question 4

```
student@student-VirtualBox:~$ cd lab6
student@student-VirtualBox:~/lab6$ mkdir -p wallpapers/cars/{1080p,2k,4k}
student@student-VirtualBox:~/lab6$ tree wallpapers
wallpapers
├── cars
│   ├── 1080p
│   ├── 2k
│   └── 4k

```

4 directories, 0 files

```
student@student-VirtualBox:~/lab6$
```

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

```

6 directories, 0 files

```
student@student-VirtualBox:~/lab6$
```

```

student@student-VirtualBox:~/lab6$ mkdir -p docs/books/{history,math}/{fall,spring}
student@student-VirtualBox:~/lab6$ tree docs
docs
├── books
│   ├── history
│   │   ├── fall
│   │   └── spring
│   └── math
│       ├── fall
│       └── spring
└── 7 directories, 0 files

student@student-VirtualBox:~/lab6$ touch docs/books/{history,math}/{fall,spring}/book.pdf
student@student-VirtualBox:~/lab6$ tree
.
├── 25Games.lst
├── apache03.err
├── assets
│   ├── imgs
│   │   ├── large
│   │   └── small
│   └── video
│       ├── large
│       └── small
├── docs
│   ├── books
│   │   ├── history
│   │   │   ├── fall
│   │   │   │   └── book.pdf
│   │   │   └── spring
│   │   │       └── book.pdf
│   │   └── math
│   │       ├── fall
│   │       │   └── book.pdf
│   │       └── spring
│   │           └── book.pdf
└── 17 directories, 0 files

```

```

student@student-VirtualBox:~/lab6$ mkdir -p Research/{books/{math,science}/{epub,pdf},magazines/{computers,running,videogames}/{fanmade,official}}
student@student-VirtualBox:~/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

```

Question 5

```

student@student-VirtualBox:~$ mkdir lab6-q5
student@student-VirtualBox:~$ cd /
student@student-VirtualBox:/$ touch ~/lab6-q5/{program.py,people.csv,data.xls}
student@student-VirtualBox:/$ cd /usr/share
bash: cd: /usr/share: No such file or directory
student@student-VirtualBox:/$ cd /usr/share
student@student-VirtualBox:/usr/share$ mkdir ~/lab6-q5/movies
student@student-VirtualBox:/usr/share$ touch ~/lab6-q5/movies/{movies.lst,movie.txt,disney.doc}
student@student-VirtualBox:/usr/share$ rm ~/lab6-q5/{program.py,people.csv,movies/{disney.doc,movie.txt}}
student@student-VirtualBox:/usr/share$ tree ~/lab6-q5
/home/student/lab6-q5
├── data.xls
├── movies
│   └── movies.lst
└── 1 directory, 2 files

student@student-VirtualBox:/usr/share$

```

Challenge Question

```

student@student-VirtualBox:~/challenge-Lab6$ ls
docs1.doc  docs2.doc  docs3.doc  image1.gif  image2.gif  image3.gif  programs.go  programs.sh  song2.aac  song3.mp3
docs1.docx docs2.docx docs3.docx  image1.jpg  image2.jpg  image3.jpg  programs.py  song1.aac   song2.mp3
docs1.pdf  docs2.pdf  docs3.pdf  image1.png  image2.png  image3.png  programs.rb  song1.mp3   song3.aac
student@student-VirtualBox:~/challenge-Lab6$ mkdir -p {audio/{aac,mp3},docs/{docx,pdf,xls},images/{jpg,png}}
student@student-VirtualBox:~/challenge-Lab6$ tree

```

```

.
├── audio
│   ├── aac
│   └── mp3
├── docs
│   ├── docx
│   ├── pdf
│   └── xls
├── docs1.doc
├── docs1.docx
├── docs1.pdf
├── docs2.doc
├── docs2.docx
├── docs2.pdf
├── docs3.doc
├── docs3.docx
├── docs3.pdf
├── image1.gif
├── image1.jpg
├── image1.png
├── image2.gif
├── image2.jpg
├── image2.png
├── image3.gif
├── image3.jpg
├── image3.png
├── images
│   ├── jpg
│   └── png
├── programs.go
├── programs.py
├── programs.rb
├── programs.sh
├── song1.aac
├── song1.mp3
├── song2.aac
├── song2.mp3
├── song3.aac
└── song3.mp3

```

10 directories, 28 files

```

student@student-VirtualBox:~/challenge-Lab6$ mv *.doc* docs/docx
student@student-VirtualBox:~/challenge-Lab6$ mv *.aac audio/aac
student@student-VirtualBox:~/challenge-Lab6$ mv *.mp3 audio/mp3
student@student-VirtualBox:~/challenge-Lab6$ mv *.pdf docs/pdf
student@student-VirtualBox:~/challenge-Lab6$ mv *.jpg images/jpg
student@student-VirtualBox:~/challenge-Lab6$ mv *.png images/
student@student-VirtualBox:~/challenge-Lab6$ mv images/*.png images/png
student@student-VirtualBox:~/challenge-Lab6$ mkdir -p images/gifs
student@student-VirtualBox:~/challenge-Lab6$ mkdir -p programs/
student@student-VirtualBox:~/challenge-Lab6$ mv programs.* programs/
student@student-VirtualBox:~/challenge-Lab6$ mv *.gif images/gifs
student@student-VirtualBox:~/challenge-Lab6$ tree

```

was unsure if you wanted us to sort the gifs and programs
so i did it after the fact

```

.
├── 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

```

