

Problem 1

```
jcpachtinger@cis106:~$ ls lab6/*.log
lab6/88_Application-log.log  lab6/gpu-manager.log
lab6/alternatives.log       lab6/history.log
lab6/apache01-error.log     lab6/http404.log
lab6/apache22.log           lab6/kern.log
lab6/apport.log             lab6/subiquity-server-debug.log
lab6/auth.log               lab6/subiquity-server-info.log
lab6/bootstrap.log          lab6/term.log
lab6/cloud-init.log         lab6/ubuntu-advantage.log
lab6/cloud-init-output.log  lab6/ubuntu_desktop_installer.log
lab6/curtin-install.log     lab6/unattended-upgrades-dpkg.log
lab6/discover.log           lab6/unattended-upgrades.log
lab6/dpkg.log               lab6/unattended-upgrades-shutdown.log
lab6/fontconfig.log         lab6/vboxadd-setup.log
jcpachtinger@cis106:~$ mkdir lab6/log_files
jcpachtinger@cis106:~$ mv lab6/*.log lab6/log-files
mv: target 'lab6/log-files': No such file or directory
jcpachtinger@cis106:~$ mv lab6/*.log lab6/log_files
jcpachtinger@cis106:~$ ls /etc/*.conf
/etc/adduser.conf      /etc/host.conf      /etc/pam.conf
/etc/apg.conf          /etc/inxi.conf      /etc/pnm2ppa.conf
/etc/appstream.conf    /etc/kernel-img.conf /etc/resolv.conf
/etc/brltty.conf       /etc/kernelloops.conf /etc/rsyslog.conf
/etc/ca-certificates.conf /etc/ld.so.conf     /etc/rygel.conf
/etc/debconf.conf      /etc/libao.conf     /etc/sensors3.conf
/etc/deluser.conf      /etc/libaudit.conf  /etc/sudo.conf
/etc/e2scrub.conf       /etc/logrotate.conf /etc/sudo_logsrvd.conf
/etc/fprintd.conf      /etc/mke2fs.conf    /etc/sysctl.conf
/etc/fuse.conf          /etc/mpd.conf        /etc/ucf.conf
/etc/gai.conf           /etc/nftables.conf  /etc/usb_modeswitch.conf
/etc/hdparm.conf        /etc/nsswitch.conf  /etc/xattr.conf
jcpachtinger@cis106:~$ _

jcpachtinger@cis106:~$ lsGh --time-style=+%D -ls /etc/h*.conf /etc/p*.conf
lsGh: command not found
jcpachtinger@cis106:~$ -lsGh --time-style=+%D -ls /etc/h*.conf /etc/p*.conf
-lsGh: command not found
jcpachtinger@cis106:~$ ls -lsGh --time-style=+%D -ls /etc/h*.conf /etc/p*.conf
8.0K -rw-r--r-- 1 7.5K 04/18/23 /etc/pnm2ppa.conf
8.0K -rw-r--r-- 1 4.4K 10/06/22 /etc/hdparm.conf
4.0K -rw-r--r-- 1 552 08/18/22 /etc/pam.conf
4.0K -rw-r--r-- 1 92 10/17/22 /etc/host.conf
jcpachtinger@cis106:~$ _
```

Problem 2

```

Tilix: jcpachtinger@cis106: ~/lab6
jcpachtinger@cis106:~/lab6$ ls .??*
auto-changelog      .eslintrc.json      .htaccess           .min-wd             .tonic_example.js
babelrc             .eslintrc.yml       .istanbul.yml       .npmignore          .travis.yml
bash_aliases        .gitattributes       .jscs.json          .nycrc              .vboxclient-clipboard-tty2-control.pid
bash_history        .gitconfig          .jshintrc           .org.chromium.Chromium.QxrUOD .vboxclient-clipboard-tty2-service.pid
bash_logout         .gitkeep            .jshintignore        .padding            .vboxclient-draganddrop-tty2-control.pid
bashrc              .gitmodules         .jshintrc           .parentlock         .vboxclient-draganddrop-tty2-service.pid
changed             .gsd-keyboard.settings-ported .keep               .profile            .vboxclient-hostversion-tty2-control.pid
coveralls.yml       .hidden             .last_revision      .sudo_as_admin_successful .vboxclient-seamless-tty2-control.pid
dir-locals.el       .hidden1.doc        .lessht             .templdir.cache     .vboxclient-seamless-tty2-service.pid
editorconfig        .hidden1.py         .lint               .tern-project       .vboxclient-vmtoolsd-session-tty2-control.pid
eslintignore        .hidden2.doc        .metadata-v2        .testignore         .vboxclient-vmtoolsd-session-tty2-service.pid
eslintrc            .hidden2.py         .meta.lsrunning     .textFiles          .vsixmanifest
eslintrc.js         .hiddenFile.txt     .migrated           .tm_properties
jcpachtinger@cis106:~/lab6$ ls -A *.??
file_00.sh file_01.sh file_02.sh file_03.sh file_04.sh file_05.sh
jcpachtinger@cis106:~/lab6$ ls l?st*
ast.txt list.txt lost.txt
jcpachtinger@cis106:~/lab6$ ls *_??.*
file_00.sh file_01.sh file_02.sh file_03.sh file_04.sh file_05.sh
jcpachtinger@cis106:~/lab6$ _

```

Problem 3

```

Tilix: jcpachtinger@cis106: ~/lab6
jcpachtinger@cis106:~/lab6$ ls [[:upper:]]*
Document.doc Expenses.xls
jcpachtinger@cis106:~/lab6$ ls [[:upper:]][[:digit:]]*
25Games.lst Document.doc Expenses.xls
jcpachtinger@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
jcpachtinger@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
jcpachtinger@cis106:~/lab6$ _

```

Problem 4

```
1/1  +  [ ]  [ ]  Tilix: jcpachtinger@cis106: ~/lab6
jcpachtinger@cis106: ~/lab6
jcpachtinger@cis106:~/lab6$ mkdir -p wallpapers/cars/{1080p,2k,4k}
jcpachtinger@cis106:~/lab6$ tree wallpapers/
wallpapers/
├── cars
│   ├── 1080p
│   ├── 2k
│   └── 4k
└── 5 directories, 0 files
jcpachtinger@cis106:~/lab6$ _

jcpachtinger@cis106:~/lab6$ mkdir -p assets/{imgs,videos}/{large,small}
jcpachtinger@cis106:~/lab6$ tree assets
assets
├── imgs
│   ├── large
│   └── small
└── videos
    ├── large
    └── small
└── 7 directories, 0 files
jcpachtinger@cis106:~/lab6$ _
```

```
1:jcpachtinger@cis106: ~/lab6
jcpachtinger@cis106:~/lab6$ mkdir -p docs/books/{his,math}/{fall,spring}
jcpachtinger@cis106:~/lab6$ mkdir -p docs/books/{his,math}/{fall,spring}/book.pdf
jcpachtinger@cis106:~/lab6$ tree docs/
docs/
├── books
│   ├── his
│   │   ├── fall
│   │   │   └── book.pdf
│   │   └── spring
│   │       └── book.pdf
│   └── math
│       ├── fall
│       │   └── book.pdf
│       └── spring
│           └── book.pdf
12 directories, 0 files
jcpachtinger@cis106:~/lab6$ _
```

```
1:jcpachtinger@cis106: /usr/share
jcpachtinger@cis106:~/lab6$ mkdir ~/lab6-q5
jcpachtinger@cis106:~/lab6$ cd /
jcpachtinger@cis106:/$ touch ~/lab6-q5/{program.py,people.csv,data.xls}
jcpachtinger@cis106:/$ cs /usr/share/
Command 'cs' not found, but can be installed with:
sudo apt install csound
jcpachtinger@cis106:/$ cd /usr/share/
jcpachtinger@cis106:/usr/share$ mkdir ~/lab6-q5/movies
jcpachtinger@cis106:/usr/share$ touch ~/lab6-q5/movies/{movies.lst,movie.txt,disney.doc}
jcpachtinger@cis106:/usr/share$ rm ~/lab6-q5/{program.py,people.csv,/movies/{disney.doc,movie.txt}}
jcpachtinger@cis106:/usr/share$ tree ~/lab6-q5/
/home/jcpachtinger/lab6-q5/
├── data.xls
└── movies
    └── movies.lst
2 directories, 2 files
jcpachtinger@cis106:/usr/share$ _
```

Challenge Question

```
jcpachtinger@cis106: ~/challenge-Lab6
jcpachtinger@cis106:~$ curl https://cis106.com/assets/lab6cq.sh | bash
% Total    % Received % Xferd  Average Speed   Time    Time     Time    Current
             Dload  Upload   Total   Spent    Left     Speed
100 165    100 165    0    0    879    0 --:--:-- --:--:-- --:--:--    882
jcpachtinger@cis106:~$ mkdir -p challenge-Lab6/{audio/{aac,mp3},docs/{docx,pdf,program},images/{jpg,png,gif}}
jcpachtinger@cis106:~$ mv *.aac audio/aac/
mv: cannot stat '*.aac': No such file or directory
jcpachtinger@cis106:~$ cd challenge-Lab6/
jcpachtinger@cis106:~/challenge-Lab6$ mv *.aac audio/aac/
jcpachtinger@cis106:~/challenge-Lab6$ mv *.mp3 audio/mp3/
jcpachtinger@cis106:~/challenge-Lab6$ mv *.gif images/gif/
jcpachtinger@cis106:~/challenge-Lab6$ mv *.jpg images/jpg/
jcpachtinger@cis106:~/challenge-Lab6$ mv *.png image/png/
mv: target 'image/png/': No such file or directory
jcpachtinger@cis106:~/challenge-Lab6$ mv *.png images/png/
jcpachtinger@cis106:~/challenge-Lab6$ mv *.?? docs/program/
jcpachtinger@cis106:~/challenge-Lab6$ mv *.docx docs/docx/
jcpachtinger@cis106:~/challenge-Lab6$ mv *.pdf docs/pdf/
jcpachtinger@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
│   └── program
│       ├── program.go
│       ├── program.py
│       ├── program.rb
│       └── program.sh
└── images
    ├── gif
    │   ├── image1.gif
    │   └── image2.gif
    ├── jpg
    │   ├── image1.jpg
    │   └── image2.jpg
    └── png
        ├── image1.png
        └── image2.png

12 directories, 18 files
jcpachtinger@cis106:~/challenge-Lab6$
```