

# Lab 6

## Question 1

```
1 / 1 + [icons] Tilix: mebrinkmann@cis106: ~ [search] [menu] [window controls]

1: mebrinkmann@cis106: ~ [close]
mebrinkmann@cis106:~$ ls lab6/*.log
lab6/88_Application-log.log  lab6/dpkg.log          lab6/luahbtex.log      lab6/ubuntu-advantage-timer.log
lab6/alternatives.log       lab6/dvluatex.log      lab6/luatex.log        lab6/unattended-upgrades-dpkg.log
lab6/apache01-error.log     lab6/etex.log          lab6/mf.log            lab6/unattended-upgrades.log
lab6/apache22.log           lab6/fontconfig.log    lab6/pdfetex.log       lab6/unattended-upgrades-shutdown.log
lab6/apport.log             lab6/gpu-manager.log   lab6/pdftex.log        lab6/updmap.log
lab6/auth.log               lab6/history.log       lab6/term.log          lab6/vboxadd-setup.log
lab6/bootstrap.log          lab6/http404.log       lab6/tex.log
lab6/casper.log             lab6/kern.log          lab6/ubuntu-advantage.log
mebrinkmann@cis106:~$ mkdir lab6/log-files
mebrinkmann@cis106:~$ mv lab6/*.log lab6/log-files/
mebrinkmann@cis106:~$ ls /etc/*.conf
/etc/adduser.conf      /etc/fprintd.conf     /etc/libao.conf        /etc/rsyslog.conf
/etc/apg.conf          /etc/fuse.conf        /etc/libaudit.conf     /etc/rygel.conf
/etc/appstream.conf    /etc/gai.conf         /etc/logrotate.conf    /etc/sensors3.conf
/etc/brltty.conf       /etc/hdparm.conf      /etc/mke2fs.conf       /etc/sudo.conf
/etc/ca-certificates.conf /etc/host.conf        /etc/nftables.conf     /etc/sudo_logsrvd.conf
/etc/dante.conf        /etc/inxi.conf        /etc/nsswitch.conf     /etc/sysctl.conf
/etc/debconf.conf      /etc/kernel-img.conf  /etc/pam.conf          /etc/ucf.conf
/etc/deluser.conf      /etc/kernelloops.conf /etc/pnm2ppa.conf      /etc/usb_modeswitch.conf
/etc/e2scrub.conf      /etc/ld.so.conf       /etc/resolv.conf       /etc/xattr.conf
mebrinkmann@cis106:~$ ls -lSgGh --time-style=+%D /etc/h*.conf /etc/p*.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
mebrinkmann@cis106:~$
```

## Question 2

```
1 / 1  +  [ ]  [ ]  Tilix: mebrinkmann@cis106: ~/lab6  [Q]  [≡]

1: mebrinkmann@cis106: ~/lab6  v
mebrinkmann@cis106:~/lab6$ ls .??*
.appveyor.yml      .eslinttrc.yml      .jscsrc             .profile
.auto-changelog    .formatter.sh.swp   .jshintignore       .startup-incomplete
.babelrc           .gitattributes      .jshintrc          .sudo_as_admin_successful
.bash_history      .gitconfig         .keep              .tern-project
.bash_logout       .gitignore         .last_revision     .testignore
.bashrc            .gitkeep           .lessht           .tm_properties
.changed           .gitmodules        .lint              .tonic_example.js
.cis106.png        .gsd-keyboard.settings-ported .metadata-v2       .travis.yml
.cis106.png.png    .hidden            .meta.isrunning   .uuid
.coveralls.yml     .hidden1.doc       .migrated          .vboxclient-clipboard.pid
.dir-locals.el     .hidden1.py        .min-wd           .vboxclient-draganddrop.pid
.editorconfig      .hidden2.doc       .npmignore        .vboxclient-seamless.pid
.envrc             .hidden2.py        .nycrc            .vboxclient-vmvga-session-tty2.pid
.eslintignore      .hiddenFile.txt    .padding          .viminfo
.eslinttrc         .htaccess          .parentlock       .vsixmanifest
.eslinttrc.js      .istanbul.yml      .prettierignore   .wget-hsts
.eslinttrc.json    .jscs.json         .prettierrc.yaml

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

### Question 3

```
1 / 1  +  [ ]  [ ]  Tilix: mebrinkmann@cis106: ~/lab6  [Q]  [≡]  [ ]  [ ]

1: mebrinkmann@cis106: ~/lab6  v
mebrinkmann@cis106:~/lab6$ ls [A-Z]*
Document.doc Expenses.xls
mebrinkmann@cis106:~/lab6$ ls [A-Z0-9]*
25Games.lst Document.doc Expenses.xls
mebrinkmann@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
mebrinkmann@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
mebrinkmann@cis106:~/lab6$ _
```

### Question 4

```
1 / 1  +  [ ]  [ ]  Tilix: mebrinkmann@cis106: ~

1: mebrinkmann@cis106: ~/lab6  v

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

4 directories, 0 files
mebrinkmann@cis106:~/lab6$ _
```

Part 1

```
1 / 1  +  [ ]  [ ]  Tilix: mebrinkmann@cis106: ~

1: mebrinkmann@cis106: ~/lab6  v

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

6 directories, 0 files
mebrinkmann@cis106:~/lab6$ _
```

Part 2

## Part 3

```
1: mebrinkmann@cis106: ~/lab6 ▾  
  
mebrinkmann@cis106:~/lab6$ mkdir -p docs/books/{history,math}/{fall,spring}  
mebrinkmann@cis106:~/lab6$ touch docs/books/{history,math}/{fall,spring}/book.pdf  
mebrinkmann@cis106:~/lab6$ tree docs/  
docs/  
├── books  
│   ├── history  
│   │   ├── fall  
│   │   │   └── book.pdf  
│   │   └── spring  
│   │       └── book.pdf  
│   └── math  
│       ├── fall  
│       │   └── book.pdf  
│       └── spring  
│           └── book.pdf  
  
7 directories, 4 files  
mebrinkmann@cis106:~/lab6$ _
```

## Part 4

```
1 / 1 ▾ + [ ] [ ] Tilix: mebrinkmann@cis106: ~ [Q] [≡]  
  
1: mebrinkmann@cis106: ~ ▾  
  
mebrinkmann@cis106:~/lab6$ mkdir ~/lab6-q5  
mebrinkmann@cis106:~/lab6$ cd /  
mebrinkmann@cis106:/$ touch ~/lab6-q5/{program.py,people.csv,data.xls}  
mebrinkmann@cis106:/$ cd /usr/share  
mebrinkmann@cis106:/usr/share$ mkdir ~/lab6-q5/movies  
mebrinkmann@cis106:/usr/share$ touch ~/lab6-q5/movies/{movies.lst,movie.txt,disney.doc}  
mebrinkmann@cis106:/usr/share$ rm ~/lab6-q5/  
rm: cannot remove '/home/mebrinkmann/lab6-q5/': Is a directory  
mebrinkmann@cis106:/usr/share$ rm ~/lab6-q5/{program.py,people.csv,/movies/{disney.doc,movie.txt}}  
mebrinkmann@cis106:/usr/share$ tree ~/lab6-q5/  
/home/mebrinkmann/lab6-q5/  
├── data.xls  
└── movies  
    └── movies.lst  
  
1 directory, 2 files  
mebrinkmann@cis106:/usr/share$ cd  
mebrinkmann@cis106:~$ _
```

## Challenge Question

```
1/1 + [icons] Tilix: mebrinkmann@cis106: ~  
1: mebrinkmann@cis106: ~/challenge-Lab6  
mebrinkmann@cis106:~$ cd challenge-Lab6/  
mebrinkmann@cis106:~/challenge-Lab6$ mkdir -p {audio,docs,images}  
mebrinkmann@cis106:~/challenge-Lab6$ mkdir -p audio/{aac,mp3}  
mebrinkmann@cis106:~/challenge-Lab6$ mkdir -p docs/{docx,pdf,xls}  
mebrinkmann@cis106:~/challenge-Lab6$ mkdir -p images/{jpg,png,gif}  
mebrinkmann@cis106:~/challenge-Lab6$ mv *.docx docs/docx  
mebrinkmann@cis106:~/challenge-Lab6$ mv *.pdf docs/pdf  
mebrinkmann@cis106:~/challenge-Lab6$ mv *.xls docs/xls  
mv: cannot stat '*.xls': No such file or directory  
mebrinkmann@cis106:~/challenge-Lab6$ mv *.aac audio/aac  
mebrinkmann@cis106:~/challenge-Lab6$ mv *.mp3 audio/mp3  
mebrinkmann@cis106:~/challenge-Lab6$ mkdir images/gif  
mebrinkmann@cis106:~/challenge-Lab6$ mv *.jpg images/jpg  
mebrinkmann@cis106:~/challenge-Lab6$ mv *.png images/png  
mebrinkmann@cis106:~/challenge-Lab6$ mv *.gif images/gif  
mebrinkmann@cis106:~/challenge-Lab6$ mkdir programs/{go,py,rb,sh}  
mkdir: cannot create directory 'programs/go': No such file or directory  
mkdir: cannot create directory 'programs/py': No such file or directory  
mkdir: cannot create directory 'programs/rb': No such file or directory  
mkdir: cannot create directory 'programs/sh': No such file or directory  
mebrinkmann@cis106:~/challenge-Lab6$ mkdir -p programs/{go,py,rb,sh}  
mebrinkmann@cis106:~/challenge-Lab6$ mv *.go programs/go  
mebrinkmann@cis106:~/challenge-Lab6$ mv *.py programs/py  
mebrinkmann@cis106:~/challenge-Lab6$ mv *.rb programs/rb  
mebrinkmann@cis106:~/challenge-Lab6$ mv *.sh programs/sh  
mebrinkmann@cis106:~/challenge-Lab6$ _  
2: mebrinkmann@cis106: ~  
mebrinkmann@cis106:~$ tree challenge-Lab6/  
challenge-Lab6/  
├── 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  
└── programs  
    ├── go  
    │   └── program.go  
    ├── py  
    │   └── program.py  
    ├── rb  
    │   └── program.rb  
    └── sh  
        └── program.sh  
  
16 directories, 18 files  
mebrinkmann@cis106:~$ _
```