

Lab 6

Question 1

```
mthamdan@cis106:~$ ls lab6/*.log
lab6/88_Application-log.log  lab6/casper.log      lab6/history.log      lab6/pdfetex.log      lab6/unattended-upgrades.log
lab6/alternatives.log      lab6/dpkg.log        lab6/http404.log     lab6/pdfetex.log      lab6/unattended-upgrades-shutdown.log
lab6/apache01-error.log    lab6/dvluatex.log    lab6/kern.log        lab6/term.log         lab6/updmap.log
lab6/apache22.log          lab6/etex.log        lab6/luahbtex.log    lab6/tex.log          lab6/vboxadd-setup.log
lab6/auth.log              lab6/fontconfig.log  lab6/luatex.log      lab6/ubuntu-advantage.log
lab6/bootstrap.log         lab6/gpu-manager.log lab6/mf.log           lab6/unattended-upgrades-dpkg.log

mthamdan@cis106:~$ mkdir lab6/log-files
mthamdan@cis106:~$ mv lab6/*.log lab6/log-files/
mthamdan@cis106:~$ ls /etc/*.conf
/etc/adduser.conf      /etc/debconf.conf    /etc/gai.conf        /etc/kerneloops.conf  /etc/mke2fs.conf      /etc/resolv.conf      /etc/sudo_logsrvd.conf
/etc/apg.conf          /etc/deluser.conf    /etc/hdparm.conf     /etc/ld.so.conf        /etc/nftables.conf    /etc/rsyslog.conf     /etc/sysctl.conf
/etc/appstream.conf    /etc/e2scrub.conf    /etc/host.conf       /etc/libao.conf        /etc/nsswitch.conf    /etc/rygel.conf       /etc/ucf.conf
/etc/brltty.conf       /etc/fprintd.conf    /etc/inxi.conf       /etc/libaudit.conf     /etc/pam.conf         /etc/sensors3.conf    /etc/usb_modeswitch.conf
/etc/ca-certificates.conf /etc/fuse.conf       /etc/kernel-img.conf /etc/logrotate.conf    /etc/pnm2ppa.conf     /etc/sudo.conf        /etc/xattr.conf

mthamdan@cis106:~$ ls -l /etc/h*.conf /etc/p*.conf
-rw-r--r-- 1 root root 4436 Dec 15 2020 /etc/hdparm.conf
-rw-r--r-- 1 root root 92 Oct 15 2021 /etc/host.conf
-rw-r--r-- 1 root root 552 Aug 11 2020 /etc/pam.conf
-rw-r--r-- 1 root root 7649 Aug 7 18:55 /etc/pnm2ppa.conf
mthamdan@cis106:~$ ls -lSgGh --time-style=%D /etc/h*.conf /etc/p*.conf
-rw-r--r-- 1 7.5K 08/07/23 /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
mthamdan@cis106:~$
```

Question 2

```
mthamdan@cis106:~/lab6$ ls -l??*
auto-changelog      .eslintrc.json      .htaccess           .npmignore          .vboxclient-clipboard-tty2-service.pid
babelrc             .eslintrc.yml       .istanbul.yml       .nycrc              .vboxclient-draganddrop-tty2-control.pid
bash_history        .gitattributes      .jscs.json          .padding            .vboxclient-draganddrop-tty2-service.pid
bash_logout         .gitconfig          .jscsrc            .parentlock         .vboxclient-hostversion-tty2-control.pid
bashrc              .gitkeep            .jshintignore       .profile            .vboxclient-seamless-tty2-control.pid
changed             .gitmodules         .jshintintrc        .startup-incomplete .vboxclient-seamless-tty2-service.pid
cis106.png          .gsd-keyboard.settings-ported .keep               .sudo_as_admin_successful .vboxclient-vmsvga-session-tty2-control.pid
coveralls.yml       .hidden             .last_revision     .testignore         .vboxclient-vmsvga-session-tty2-service.pid
dir-locals.el       .hidden1.doc        .lint              .testsignore        .vsixmanifest
editorconfig        .hidden1.py         .metadata-v2       .tm_properties
eslintrc            .hidden2.doc        .meta.isrunning   .tonic_example.js
eslintrc            .hidden2.py         .migrated          .travis.yml
eslintrc.js         .hiddenFile.txt     .min-wd           .vboxclient-clipboard-tty2-control.pid

mthamdan@cis106:~/lab6$ ls -A *.??*
ls: cannot access '*.?': No such file or directory
file_00.sh file_01.sh file_02.sh file_03.sh file_04.sh file_05.sh
mthamdan@cis106:~/lab6$ ls -A *.??*
file_00.sh file_01.sh file_02.sh file_03.sh file_04.sh file_05.sh
mthamdan@cis106:~/lab6$ ls -l?st*
ast.txt list.txt lost.txt
mthamdan@cis106:~/lab6$ ls -l??*
ls: cannot access '._??.*': No such file or directory
mthamdan@cis106:~/lab6$ ls -l*??*
file_00.sh file_01.sh file_02.sh file_03.sh file_04.sh file_05.sh
mthamdan@cis106:~/lab6$
```

Question 3

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

Question 4

```
mthamdan@cis106:~/lab6$ mkdir -p wallpapers/{cars}/{1080p,2k,4k}
mthamdan@cis106:~/lab6$ tree wallpapers/
wallpapers/
├── cars
│   ├── 1080p
│   ├── 2k
│   └── 4k
└── 4 directories, 0 files

mthamdan@cis106:~/lab6$ rm -r wallpapers/
mthamdan@cis106:~/lab6$ mkdir -p wallpapers/cars/{1080p,2k,4k}
mthamdan@cis106:~/lab6$ tree wallpapers/
wallpapers/
├── cars
│   ├── 1080p
│   ├── 2k
│   └── 4k
└── 4 directories, 0 files

mthamdan@cis106:~/lab6$ rm -r wallpapers/cars/{2k,4k}
mthamdan@cis106:~/lab6$ tree wallpapers/
wallpapers/
├── cars
│   └── 1080p
└── 2 directories, 0 files

mthamdan@cis106:~/lab6$
```

```
mthamdan@cis106:~/lab6$ rm -r wallpapers/
mthamdan@cis106:~/lab6$ mkdir -p wallpapers/cars/{1080p,2k,4k+}
mthamdan@cis106:~/lab6$ tree wallpapers/
wallpapers/
├── cars
│   ├── 1080p
│   ├── 2k
│   └── 4k+
└── 4 directories, 0 files

mthamdan@cis106:~/lab6$ mkdir -p assets/{imgs,video}/{large,small}
mthamdan@cis106:~/lab6$ tree assets/
assets/
├── imgs
│   ├── large
│   └── small
└── video
    ├── large
    └── small
└── 6 directories, 0 files

mthamdan@cis106:~/lab6$
```

```
mthamdan@cis106:~/lab6$ mkdir -p docs/books/{his,math}/{fall,spring}
mthamdan@cis106:~/lab6$ touch docs/books/{his,math}/{fall,spring}/book.pdf
touch: cannot touch 'docs/books/his/fall/book.pdf': No such file or directory
touch: cannot touch 'docs/books/his/spring/book.pdf': No such file or directory
touch: cannot touch 'docs/books/math/fall/book.pdf': No such file or directory
touch: cannot touch 'docs/books/math/spring/book.pdf': No such file or directory
mthamdan@cis106:~/lab6$ ouch docs/books/{his,math}/{fall,spring}/book.pdf
Command 'ouch' not found, did you mean:
  command 'touch' from deb coreutils (8.32-4.1ubuntu1)
Try: sudo apt install <deb name>
mthamdan@cis106:~/lab6$ touch docs/books/{his,math}/{fall,spring}/book.pdf
touch: cannot touch 'docs/books/his/fall/book.pdf': No such file or directory
touch: cannot touch 'docs/books/his/spring/book.pdf': No such file or directory
touch: cannot touch 'docs/books/math/fall/book.pdf': No such file or directory
touch: cannot touch 'docs/books/math/spring/book.pdf': No such file or directory
```

```

mthamdan@cis106:~/lab6$ touch docs/books/{his,math}/{fall/spring}/book.pdf
mthamdan@cis106:~/lab6$ tree docs
docs
├── books
│   ├── his
│   │   ├── fall
│   │   └── spring
│   │       └── book.pdf
│   └── math
│       ├── fall
│       └── spring
│           └── book.pdf
7 directories, 2 files
mthamdan@cis106:~/lab6$

mthamdan@cis106:~/lab6$ mkdir ~/lab6-q5
mthamdan@cis106:~/lab6$ cd /
mthamdan@cis106:/$ touch ~/lab6-q5/{program.py,people.csv,data.xls}
touch: cannot touch '~/lab6-q5/program.py': No such file or directory
touch: cannot touch '~/lab6-q5/people.csv': No such file or directory
touch: cannot touch '~/lab6-q5/data.xls': No such file or directory
mthamdan@cis106:/$ touch ~/lab6-q5/{program.py,people.csv,data.xls}
mthamdan@cis106:/$ cd /usr/share/
mthamdan@cis106:/usr/share$ mkdir ~/lab6-q5/movies
mthamdan@cis106:/usr/share$ touch ~/lab6-q5/movies/{movies.lst,mарvel.txt,disney.doc}
mthamdan@cis106:/usr/share$ rm ~/lab6-q5/{program.py,people.csv,/movies/{disney.doc,mарvel.txt}}
mthamdan@cis106:/usr/share$ tree ~/lab6-q5/
~/lab6-q5/ [error opening dir]

0 directories, 0 files
mthamdan@cis106:/usr/share$ tree ~/lab6-q5/
/home/mthamdan/lab6-q5/
├── data.xls
└── movies
    └── movies.lst

1 directory, 2 files
mthamdan@cis106:/usr/share$

```

Challenge Question

```

mthamdan@cis106:/usr/share$ cd
mthamdan@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 0 962 0 --:--:-- --:--:-- --:--:-- 964
mthamdan@cis106:~$ mkdir -p challenge-Lab6/{audio/{aac,mp3},docs/{docx,pdf,xls},images/{jpg,png}}
mthamdan@cis106:~$ tree challenge-Lab6/
challenge-Lab6/
├── audio
│   ├── aac
│   └── mp3
├── docs
│   ├── docx
│   ├── pdf
│   └── xls
├── docs1.docx
├── docs1.pdf
├── docs2.docx
├── docs2.pdf
├── image1.gif
├── image1.jpg
├── image1.png
├── image2.gif
├── image2.jpg
├── image2.png
├── images
│   ├── jpg
│   └── png
├── program.go
├── program.py
├── program.rb
├── program.sh
├── song1.aac
├── song1.mp3
├── song2.aac
└── song2.mp3

10 directories, 18 files
mthamdan@cis106:~$

```