Lab 6

Question 1

Activities   ⊡ Terminal   No

```
srrozier@cis106vm: ~
srrozier@cis106vm:~$ ls lab6/*.log
lab6/88_Application-log.log  lab6/fontconfig.log     lab6/tex.log
lab6/alternatives.log        lab6/gpu-manager.log    lab6/ubuntu-advantage.log
lab6/apache01-error.log      lab6/history.log        lab6/ubuntu-advantage-timer.log
lab6/apache22.log            lab6/http404.log        lab6/unattended-upgrades-dpkg.log
lab6/apport.log              lab6/kern.log           lab6/unattended-upgrades.log
lab6/auth.log                lab6/luahbtex.log       lab6/unattended-upgrades-shutdown.log
lab6/bootstrap.log           lab6/luatex.log         lab6/updmap.log
lab6/casper.log              lab6/mf.log             lab6/vboxadd-install.log
lab6/dpkg.log                lab6/pdfetex.log        lab6/vboxadd-setup.log
lab6/dviluatex.log           lab6/pdftex.log
lab6/etex.log                lab6/term.log
srrozier@cis106vm:~$ mkdir lab6/log-files
srrozier@cis106vm:~$ mv lab6/*.log lab6/log-files/
srrozier@cis106vm:~$ ls /etc/*.comf
ls: cannot access '/etc/*.comf': No such file or directory
srrozier@cis106vm:~$ ls /etc/ *.comf
ls: cannot access '*.comf': No such file or directory
/etc/:
acpi                 dpkg            kernel            opt            speech-dispatcher
adduser.conf         e2scrub.conf    kernel-img.conf   os-release     ssh
alsa                 emacs           kerneloops.conf   PackageKit     ssl
alternatives         environment     ldap              pam.conf       subgid
anacrontab           environment.d   ld.so.cache       pam.d          subgid-
apache2              ethertypes      ld.so.conf        papersize      subuid
apg.conf             firefox         ld.so.conf.d      passwd         subuid-
apm                  fonts           legal             passwd-        sudo.conf
apparmor             fprintd.conf    libao.conf        pcmcia         sudoers
apparmor.d           fstab           libaudit.conf     perl           sudoers.d
```

```
srrozier@cis106vm: ~
apparmor.d           fstab           libaudit.conf     perl           sudoers.d
apport               fuse.conf       libblockdev       pki            sudo_logsrvd.conf
appstream.conf       fwupd           libibverbs.d      pm             sysctl.conf
apt                  gai.conf        libnl-3           pnm2ppa.conf   sysctl.d
avahi                gdb             libpaper.d        polkit-1       systemd
bash.bashrc          gdm3            libreoffice       ppp            terminfo
bash_completion      geoclue         lighttpd          profile        texmf
bash_completion.d    ghostscript     locale.alias      profile.d      thermald
bindresvport.blacklist glvnd         locale.gen        protocols      thunderbird
binfmt.d             gnome           localtime         pulse          timezone
bluetooth            groff           logcheck          python3        timidity
boxes                group           login.defs        python3.10     tmpfiles.d
brlapi.key           group-          logrotate.conf    rc0.d          ubuntu-advantage
brltty               grub.d          logrotate.d       rc1.d          ucf.conf
brltty.conf          gshadow         lsb-release       rc2.d          udev
ca-certificates      gshadow-        machine-id        rc3.d          udisks2
ca-certificates.conf gss             magic             rc4.d          ufw
catdocrc             gtk-2.0         magic.mime        rc5.d          update-manager
chatscripts          gtk-3.0         mailcap           rc6.d          update-motd.d
compizconfig         hdparm.conf     mailcap.order     rcS.d          update-notifier
console-setup        host.conf       manpath.config    resolv.conf    UPower
cracklib             hostid          mime.types        rmt            usb_modeswitch.conf
cron.d               hostname        mke2fs.conf       rpc            usb_modeswitch.d
cron.daily           hosts           ModemManager      rsyslog.conf   vdpau_wrapper.cfg
cron.hourly          hosts.allow     modprobe.d        rsyslog.d      vim
cron.monthly         hosts.deny      modules           rygel.conf     vmware-tools
crontab              hp              modules-load.d    samba          vtrgb
cron.weekly          ifplugd         mtab              sane.d         vulkan
cups                 ImageMagick-6   nanorc            security       w3m
cupshelpers          init            netconfig         selinux        wgetrc
dbus-1               init.d          netplan           sensors3.conf  wpa_supplicant
dconf                initramfs-tools network           sensors.d      X11
debconf.conf         inputrc         networkd-dispatcher services      xattr.conf
debian_version       insserv.conf.d  NetworkManager    sgml           xdg
default              inxi.conf       networks          shadow         xml
deluser.conf         ipp-usb         newt              shadow-        zsh_command_not_found
depmod.d             iproute2        nftables.conf     shells
dhcp                 issue           nsswitch.conf     skel
dictionaries-common  issue.net       openvpn           snmp
srrozier@cis106vm:~$ 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
```

```
srrozier@cis106vm:~$ █
```

Question 2

```
                                    srrozier@cis106vm: ~/lab6                    Q    ≡    ─

srrozier@cis106vm:~/lab6$ ls .??*
.appveyor.yml      .eslintrc.json           .jshintrc              .sudo_as_admin_successful
.auto-changelog    .eslintrc.yml            .keep                  .tern-project
.babelrc           .gitattributes           .last_revision         .testignore
.bash_history      .gitconfig               .lesshst               .tm_properties
.bash_logout       .gitignore               .lint                  .tonic_example.js
.bashrc            .gitkeep                  .metadata-v2           .travis.yml
.cis106.png        .gitmodules               .meta.isrunning        .uuid
.coveralls.yml     .gsd-keyboard.settings-ported  .min-wd          .vboxclient-clipboard.pid
.dir-locals.el     .hidden                   .npmignore             .vboxclient-display-svga-x11.pid
.editorconfig      .htaccess                 .nycrc                 .vboxclient-draganddrop.pid
.envrc             .istanbul.yml             .parentlock            .vboxclient-seamless.pid
.eslintignore      .jscs.json                .prettierignore        .vsixmanifest
.eslintrc          .jscsrc                   .prettierrc.yaml
.eslintrc.js       .jshintignore             .profile
srrozier@cis106vm:~/lab6$ ls -A *.??
file_00.sh  file_01.sh  file_02.sh  file_03.sh  file_04.sh  file_05.sh
srrozier@cis106vm:~/lab6$ ls l?st*
last.txt  list.txt  lost.txt
srrozier@cis106vm:~/lab6$ ls *_??.*
file_00.sh  file_01.sh  file_02.sh  file_03.sh  file_04.sh  file_05.sh
srrozier@cis106vm:~/lab6$ █
```

Question 3

```
srrozier@cis106vm:~/lab6$ ls [A-Z]*
Document.doc  Expenses.xls
srrozier@cis106vm:~/lab6$ ls [A-Z0-9]*
25Games.lst  Document.doc  Expenses.xls
srrozier@cis106vm:~/lab6$ ls *[0-9]*
25Games.lst   file_00.sh  file_02.sh  file_04.sh  trip22-info.doc
apache03.err  file_01.sh  file_03.sh  file_05.sh
srrozier@cis106vm:~/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
srrozier@cis106vm:~/lab6$
```

Question 4

```
                                          srrozier@cis106vm: ~/lab6

srrozier@cis106vm:~/lab6$ rm -r wallpapers/
srrozier@cis106vm:~/lab6$ mkdir -p wallpapers/cars/{1080p,2k,4k}
srrozier@cis106vm:~/lab6$ tree wallpapers
wallpapers
└── cars
    ├── 1080p
    ├── 2k
    └── 4k

4 directories, 0 files
srrozier@cis106vm:~/lab6$ mkdir -p assets/{imgs,videos}/{large,small}
srrozier@cis106vm:~/lab6$ tree assets/
assets/
├── imgs
│   ├── large
│   └── small
└── videos
    ├── large
    └── small

6 directories, 0 files
srrozier@cis106vm:~/lab6$ mkdir -p docs/books/{his,math}/{fall,spring}
srrozier@cis106vm:~/lab6$ touch -p docs/books/{his,math}/{fall,spring}/book.pdf
touch: invalid option -- 'p'
Try 'touch --help' for more information.
srrozier@cis106vm:~/lab6$ touch docs/books/{his,math}/{fall,spring}/book.pdf
srrozier@cis106vm:~/lab6$ tree docs/
docs/
└── books
    ├── his
    │   ├── fall
    │   │   └── book.pdf
    │   └── spring
    │       └── book.pdf
    └── math
        ├── fall
        │   └── book.pdf
        └── spring
            └── book.pdf

7 directories, 4 files
srrozier@cis106vm:~/lab6$ █
```

```
                                          srrozier@cis106vm: /usr/share

srrozier@cis106vm:~/lab6$ mkdir ~/Lab6-q5
srrozier@cis106vm:~/lab6$ cd /
srrozier@cis106vm:/$ touch ~/Lab6-q5/{program.py,people.csv,data.xls}
srrozier@cis106vm:/$ cd /usr/share/
srrozier@cis106vm:/usr/share$ mkdir ~/Lab6-q5/movies
srrozier@cis106vm:/usr/share$ touch ~/Lab6-q5/movies/{movies.lst,marvel.txt,disney.doc}
srrozier@cis106vm:/usr/share$ rm ~/Lab6-q5/{program.py,people.csv,/movies/{disney.doc,marvel.txt}}
srrozier@cis106vm:/usr/share$ tree Lab6-q5/
Lab6-q5/  [error opening dir]

0 directories, 0 files
srrozier@cis106vm:/usr/share$ tree ~/Lab6-q5/
/home/srrozier/Lab6-q5/
├── data.xls
└── movies
    └── movies.lst

1 directory, 2 files
srrozier@cis106vm:/usr/share$ █
```

Question 5

```
                          srrozier@cis106vm: /usr/share

mkdir: cannot create directory '/home/srrozier/challenge-Lab6/audio/mp3': No such file or directory
mkdir: cannot create directory '/home/srrozier/challenge-Lab6/docs/docx': No such file or directory
mkdir: cannot create directory '/home/srrozier/challenge-Lab6/docs/pdf': No such file or directory
mkdir: cannot create directory '/home/srrozier/challenge-Lab6/docs/xls': No such file or directory
mkdir: cannot create directory '/home/srrozier/challenge-Lab6/images/jpg': No such file or directory
mkdir: cannot create directory '/home/srrozier/challenge-Lab6/images/png': No such file or directory
srrozier@cis106vm:/usr/share$ mkdir ~/challenge-Lab6/{audio,docs,images}
srrozier@cis106vm:/usr/share$ mkdir ~/challenge-Lab6/{audio/{aac,mp3},docs/{docx,pdf,xls},images/{jpg,png
}}
srrozier@cis106vm:/usr/share$ mv ~/challenge-Lab6/*.aac ~/challenge-Lab6/audio/aac/
srrozier@cis106vm:/usr/share$ mv ~/challenge-Lab6/*.mp3 ~/challenge-Lab6/audio/mp3/
srrozier@cis106vm:/usr/share$ mv ~/challenge-Lab6/*.docx ~/challenge-Lab6/docs/docx/
srrozier@cis106vm:/usr/share$ mv ~/challenge-Lab6/*.pdf ~/challenge-Lab6/docs/pdf/
srrozier@cis106vm:/usr/share$ mv ~/challenge-Lab6/*.xls ~/challenge-Lab6/docs/xls/
mv: cannot stat '/home/srrozier/challenge-Lab6/*.xls': No such file or directory
srrozier@cis106vm:/usr/share$ mv ~/challenge-Lab6/*.jpg ~/challenge-Lab6/images/jpg/
srrozier@cis106vm:/usr/share$ mv ~/challenge-Lab6/*.png ~/challenge-Lab6/images/png/
srrozier@cis106vm:/usr/share$ tree ~/challenge-Lab6/
/home/srrozier/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
├── image1.gif
├── image2.gif
├── images
│   ├── jpg
│   │   ├── image1.jpg
│   │   └── image2.jpg
│   └── png
│       ├── image1.png
│       └── image2.png
├── program.go
├── program.py
```