Lab 8

Question 1

| 1/1 ∨ | + | ☐ | ☐ | Tilix: richard@cis106: ~ |

1: richard@cis106: ~/cis106/labs/lab8 ∨

```
richard@cis106:~$ cd cis106/labs/lab8
richard@cis106:~/cis106/labs/lab8$ echo "All files in my home directory" > file_report.txt
richard@cis106:~/cis106/labs/lab8$ ls -Am ~ >> file_report.txt
richard@cis106:~/cis106/labs/lab8$ cat file_report.txt
All files in my home directory
.ansi_codes.sh, .bash_aliases, .bash_history, .bash_logout, .bashrc, .cache,
challenge-Lab6, cis106, .config, Desktop, Documents, .dotnet, Downloads,
error.log, everything.txt, .fontconfig, games, George.csv, .gitconfig, .gnupg,
lab4files, Lab-5, lab5-audio, lab5ChallengeQuestion, lab5-docs, lab5-imgs,
lab5-video, lab6, lab6-q5, .lesshst, .local, Music, myfiles2.txt, Nicholas.csv,
Pictures, pizza-mania, .pki, potato, practicels, practicels.tar.xz, .profile,
Public, scripts, script.sh, ShellScripting, snap, .ssh, Stephen.csv,
success.txt, .sudo_as_admin_successful, Suzanne.csv, Templates, test.sh,
.textFiles.sh, tfi.sh, .vboxclient-clipboard-tty2-control.pid,
.vboxclient-clipboard-tty2-service.pid,
.vboxclient-draganddrop-tty2-control.pid,
.vboxclient-draganddrop-tty2-service.pid,
.vboxclient-hostversion-tty2-control.pid, .vboxclient-seamless-tty2-control.pid,
.vboxclient-seamless-tty2-service.pid,
.vboxclient-vmsvga-session-tty2-control.pid,
.vboxclient-vmsvga-session-tty2-service.pid, Videos, .vscode, website,
website.js, .wget-hsts, wildcardpractice
richard@cis106:~/cis106/labs/lab8$ ☐
```

Question 2

| 1/1 ∨ | + | ☐ | ☐ | Tilix: richard@cis106: ~/cis106/labs/lab8 |

1: richard@cis106: ~/cis106/labs/lab8 ∨

```
richard@cis106:~/cis106/labs/lab8$ echo "Total number of files in my home directory" >> file_report.txt
richard@cis106:~/cis106/labs/lab8$ ls -lA ~ | grep "^-" | wc -l
34
richard@cis106:~/cis106/labs/lab8$ ls -lA ~ | grep "^-" | wc -l >> file_report.txt
richard@cis106:~/cis106/labs/lab8$ echo "Total number of directories in my home directory" >> file_report.txt
richard@cis106:~/cis106/labs/lab8$ ls -lA ~ | grep "^d" | wc -l >> file_report.txt
richard@cis106:~/cis106/labs/lab8$ tail file_report.txt
.vboxclient-draganddrop-tty2-service.pid,
.vboxclient-hostversion-tty2-control.pid, .vboxclient-seamless-tty2-control.pid,
.vboxclient-seamless-tty2-service.pid,
.vboxclient-vmsvga-session-tty2-control.pid,
.vboxclient-vmsvga-session-tty2-service.pid, Videos, .vscode, website,
website.js, .wget-hsts, wildcardpractice
Total number of files in my home directory
34
Total number of directories in my home directory
36
richard@cis106:~/cis106/labs/lab8$ ☐
```

Question 3

```
1/1 ∨   +    ⯗    ⬚                                    Tilix: richard@cis106: ~/cis106/labs/lab8

1: richard@cis106: ~/cis106/labs/lab8 ∨

uuidd /usr/sbin/nologin
systemd-oom /usr/sbin/nologin
tcpdump /usr/sbin/nologin
avahi-autoipd /usr/sbin/nologin
usbmux /usr/sbin/nologin
dnsmasq /usr/sbin/nologin
kernoops /usr/sbin/nologin
avahi /usr/sbin/nologin
cups-pk-helper /usr/sbin/nologin
rtkit /usr/sbin/nologin
whoopsie /bin/false
sssd /usr/sbin/nologin
speech-dispatcher /bin/false
fwupd-refresh /usr/sbin/nologin
nm-openvpn /usr/sbin/nologin
saned /usr/sbin/nologin
colord /usr/sbin/nologin
geoclue /usr/sbin/nologin
pulse /usr/sbin/nologin
gnome-initial-setup /bin/false
hplip /bin/false
gdm /bin/false
richard /bin/bash
vboxadd /bin/false
_flatpak /usr/sbin/nologin
richard@cis106:~/cis106/labs/lab8$ awk -F ":" '{print $1, $NF}' /etc/passwd
```

```
1/1 ∨   +    ⯗    ⬚                                    Tilix: richard@cis106: ~/cis106/labs/lab8

1: richard@cis106: ~/cis106/labs/lab8 ∨

uuidd /usr/sbin/nologin /run/uuidd
systemd-oom /usr/sbin/nologin /run/systemd
tcpdump /usr/sbin/nologin /nonexistent
avahi-autoipd /usr/sbin/nologin /var/lib/avahi-autoipd
usbmux /usr/sbin/nologin /var/lib/usbmux
dnsmasq /usr/sbin/nologin /var/lib/misc
kernoops /usr/sbin/nologin /
avahi /usr/sbin/nologin /run/avahi-daemon
cups-pk-helper /usr/sbin/nologin /home/cups-pk-helper
rtkit /usr/sbin/nologin /proc
whoopsie /bin/false /nonexistent
sssd /usr/sbin/nologin /var/lib/sss
speech-dispatcher /bin/false /run/speech-dispatcher
fwupd-refresh /usr/sbin/nologin /run/systemd
nm-openvpn /usr/sbin/nologin /var/lib/openvpn/chroot
saned /usr/sbin/nologin /var/lib/saned
colord /usr/sbin/nologin /var/lib/colord
geoclue /usr/sbin/nologin /var/lib/geoclue
pulse /usr/sbin/nologin /run/pulse
gnome-initial-setup /bin/false /run/gnome-initial-setup/
hplip /bin/false /run/hplip
gdm /bin/false /var/lib/gdm3
richard /bin/bash /home/richard
vboxadd /bin/false /var/run/vboxadd
_flatpak /usr/sbin/nologin /nonexistent
richard@cis106:~/cis106/labs/lab8$ awk -F ":" '{print $1, $NF,$6}' /etc/passwd
```
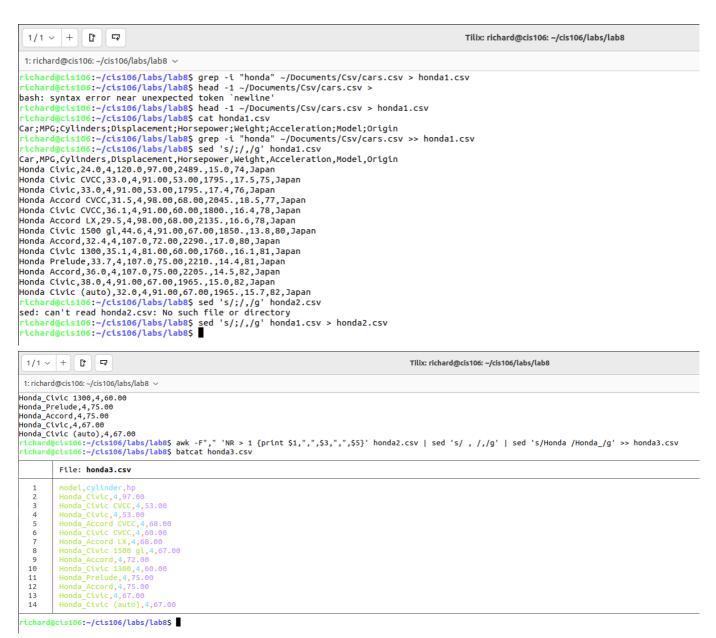
```
1/1 ⌄   +   ⧉   ⊡                                         Tilix: richard@cis106: ~/cis106/labs/lab8
```

```
1: richard@cis106: ~/cis106/labs/lab8 ⌄
```

```
The user uuidd logs in with: /usr/sbin/nologin and its home dir is: /run/uuidd
The user systemd-oom logs in with: /usr/sbin/nologin and its home dir is: /run/systemd
The user tcpdump logs in with: /usr/sbin/nologin and its home dir is: /nonexistent
The user avahi-autoipd logs in with: /usr/sbin/nologin and its home dir is: /var/lib/avahi-autoipd
The user usbmux logs in with: /usr/sbin/nologin and its home dir is: /var/lib/usbmux
The user dnsmasq logs in with: /usr/sbin/nologin and its home dir is: /var/lib/misc
The user kernoops logs in with: /usr/sbin/nologin and its home dir is: /
The user avahi logs in with: /usr/sbin/nologin and its home dir is: /run/avahi-daemon
The user cups-pk-helper logs in with: /usr/sbin/nologin and its home dir is: /home/cups-pk-helper
The user rtkit logs in with: /usr/sbin/nologin and its home dir is: /proc
The user whoopsie logs in with: /bin/false and its home dir is: /nonexistent
The user sssd logs in with: /usr/sbin/nologin and its home dir is: /var/lib/sss
The user speech-dispatcher logs in with: /bin/false and its home dir is: /run/speech-dispatcher
The user fwupd-refresh logs in with: /usr/sbin/nologin and its home dir is: /run/systemd
The user nm-openvpn logs in with: /usr/sbin/nologin and its home dir is: /var/lib/openvpn/chroot
The user saned logs in with: /usr/sbin/nologin and its home dir is: /var/lib/saned
The user colord logs in with: /usr/sbin/nologin and its home dir is: /var/lib/colord
The user geoclue logs in with: /usr/sbin/nologin and its home dir is: /var/lib/geoclue
The user pulse logs in with: /usr/sbin/nologin and its home dir is: /run/pulse
The user gnome-initial-setup logs in with: /bin/false and its home dir is: /run/gnome-initial-setup/
The user hplip logs in with: /bin/false and its home dir is: /run/hplip
The user gdm logs in with: /bin/false and its home dir is: /var/lib/gdm
The user richard logs in with: /bin/bash and its home dir is: /home/richard
The user vboxadd logs in with: /bin/false and its home dir is: /var/run/vboxadd
The user _flatpak logs in with: /usr/sbin/nologin and its home dir is: /nonexistent
richard@cis106:~/cis106/labs/lab8$ awk -F ":" '{print "The user "$1, "logs in with: "$NF,"and its home dir is: "$6}' /etc/passwd
```

```
nm-openvpn = /usr/sbin/nologin
saned = /usr/sbin/nologin
colord = /usr/sbin/nologin
geoclue = /usr/sbin/nologin
pulse = /usr/sbin/nologin
gnome-initial-setup = /bin/false
hplip = /bin/false
gdm = /bin/false
richard = /bin/bash
vboxadd = /bin/false
_flatpak = /usr/sbin/nologin
richard@cis106:~/cis106/labs/lab8$ awk -F":" '{print $1" = "$NF}' /etc/passwd | grep "/bin/bash"
root = /bin/bash
richard = /bin/bash
richard@cis106:~/cis106/labs/lab8$ awk -F":" '{print $1" = "$NF}' /etc/passwd | grep "/bin/bash" >> report_users.txt
richard@cis106:~/cis106/labs/lab8$ ▯
```

```
The user speech-dispatcher logs in with: /bin/false and its home dir is: /run/speech-dispatcher
The user fwupd-refresh logs in with: /usr/sbin/nologin and its home dir is: /run/systemd
The user nm-openvpn logs in with: /usr/sbin/nologin and its home dir is: /var/lib/openvpn/chroot
The user saned logs in with: /usr/sbin/nologin and its home dir is: /var/lib/saned
The user colord logs in with: /usr/sbin/nologin and its home dir is: /var/lib/colord
The user geoclue logs in with: /usr/sbin/nologin and its home dir is: /var/lib/geoclue
The user pulse logs in with: /usr/sbin/nologin and its home dir is: /run/pulse
The user gnome-initial-setup logs in with: /bin/false and its home dir is: /run/gnome-initial-setup/
The user hplip logs in with: /bin/false and its home dir is: /run/hplip
The user gdm logs in with: /bin/false and its home dir is: /var/lib/gdm3
The user richard logs in with: /bin/bash and its home dir is: /home/richard
The user vboxadd logs in with: /bin/false and its home dir is: /var/run/vboxadd
The user _flatpak logs in with: /usr/sbin/nologin and its home dir is: /nonexistent
root = /bin/bash
richard = /bin/bash
richard@cis106:~/cis106/labs/lab8$ cat report_users.txt ▯
```

Question 4

```
1/1 ⌄  +  ⬚  ⬚                                    Tilix: richard@cis106: ~/cis106/labs/lab8

1: richard@cis106: ~/cis106/labs/lab8 ⌄
richard@cis106:~/cis106/labs/lab8$ grep -i "honda" ~/Documents/Csv/cars.csv > honda1.csv
richard@cis106:~/cis106/labs/lab8$ head -1 ~/Documents/Csv/cars.csv >
bash: syntax error near unexpected token `newline'
richard@cis106:~/cis106/labs/lab8$ head -1 ~/Documents/Csv/cars.csv > honda1.csv
richard@cis106:~/cis106/labs/lab8$ cat honda1.csv
Car;MPG;Cylinders;Displacement;Horsepower;Weight;Acceleration;Model;Origin
richard@cis106:~/cis106/labs/lab8$ grep -i "honda" ~/Documents/Csv/cars.csv >> honda1.csv
richard@cis106:~/cis106/labs/lab8$ sed 's/;/,/g' honda1.csv
Car,MPG,Cylinders,Displacement,Horsepower,Weight,Acceleration,Model,Origin
Honda Civic,24.0,4,120.0,97.00,2489.,15.0,74,Japan
Honda Civic CVCC,33.0,4,91.00,53.00,1795.,17.5,75,Japan
Honda Civic,33.0,4,91.00,53.00,1795.,17.4,76,Japan
Honda Accord CVCC,31.5,4,98.00,68.00,2045.,18.5,77,Japan
Honda Civic CVCC,36.1,4,91.00,60.00,1800.,16.4,78,Japan
Honda Accord LX,29.5,4,98.00,68.00,2135.,16.6,78,Japan
Honda Civic 1500 gl,44.6,4,91.00,67.00,1850.,13.8,80,Japan
Honda Accord,32.4,4,107.0,72.00,2290.,17.0,80,Japan
Honda Civic 1300,35.1,4,81.00,60.00,1760.,16.1,81,Japan
Honda Prelude,33.7,4,107.0,75.00,2210.,14.4,81,Japan
Honda Accord,36.0,4,107.0,75.00,2205.,14.5,82,Japan
Honda Civic,38.0,4,91.00,67.00,1965.,15.0,82,Japan
Honda Civic (auto),32.0,4,91.00,67.00,1965.,15.7,82,Japan
richard@cis106:~/cis106/labs/lab8$ sed 's/;/,/g' honda2.csv
sed: can't read honda2.csv: No such file or directory
richard@cis106:~/cis106/labs/lab8$ sed 's/;/,/g' honda1.csv > honda2.csv
richard@cis106:~/cis106/labs/lab8$ █
```

```
1/1 ⌄  +  ⬚  ⬚                                    Tilix: richard@cis106: ~/cis106/labs/lab8

1: richard@cis106: ~/cis106/labs/lab8 ⌄
Honda_Civic 1300,4,60.00
Honda_Prelude,4,75.00
Honda_Accord,4,75.00
Honda_Civic,4,67.00
Honda_Civic (auto),4,67.00
richard@cis106:~/cis106/labs/lab8$ awk -F"," 'NR > 1 {print $1","$3","$5}' honda2.csv | sed 's/ , /,/g' | sed 's/Honda /Honda_/g' >> honda3.csv
richard@cis106:~/cis106/labs/lab8$ batcat honda3.csv

       File: honda3.csv

   1   model,cylinder,hp
   2   Honda_Civic,4,97.00
   3   Honda_Civic CVCC,4,53.00
   4   Honda_Civic,4,53.00
   5   Honda_Accord CVCC,4,68.00
   6   Honda_Civic CVCC,4,60.00
   7   Honda_Accord LX,4,68.00
   8   Honda_Civic 1500 gl,4,67.00
   9   Honda_Accord,4,72.00
  10   Honda_Civic 1300,4,60.00
  11   Honda_Prelude,4,75.00
  12   Honda_Accord,4,75.00
  13   Honda_Civic,4,67.00
  14   Honda_Civic (auto),4,67.00

richard@cis106:~/cis106/labs/lab8$ █
```

Challenge Question

```
  597  mkdir css
  598  mkdir js
  599  mkdir img
  600  mv styles.css css/
  601  mv scripts.js js/
  602  mv profile.png img/
  603  sed -i 's/src="image.png"/src="img\/image.png"/g' index.html
  604  sed -i 's/src="image.png"/src="img\/profile.png"/g' index.html
  605  clear
  606  history 10
  607  history 20
richard@cis106:~/cis106/labs/lab8/broken$ █
```

```
richard@cis106:~/cis106/labs/lab8/broken$ firefox index.html
Gtk-Message: 20:32:14.871: Failed to load module "xapp-gtk3-module"
Gtk-Message: 20:32:14.881: Not loading module "atk-bridge": The functionality is provided by GTK natively. Please try to not load it.
[10325, Main Thread] WARNING: GTK+ module /snap/firefox/4136/gnome-platform/usr/lib/gtk-2.0/modules/libcanberra-gtk-module.so cannot be loaded.
GTK+ 2.x symbols detected. Using GTK+ 2.x and GTK+ 3 in the same process is not supported.: 'glib warning', file /build/firefox/parts/firefox/build/tool

(firefox:10325): Gtk-WARNING **: 20:32:15.074: GTK+ module /snap/firefox/4136/gnome-platform/usr/lib/gtk-2.0/modules/libcanberra-gtk-module.so cannot be
GTK+ 2.x symbols detected. Using GTK+ 2.x and GTK+ 3 in the same process is not supported.
Gtk-Message: 20:32:15.074: Failed to load module "canberra-gtk-module"
[10325, Main Thread] WARNING: GTK+ module /snap/firefox/4136/gnome-platform/usr/lib/gtk-2.0/modules/libcanberra-gtk-module.so cannot be loaded.
GTK+ 2.x symbols detected. Using GTK+ 2.x and GTK+ 3 in the same process is not supported.: 'glib warning', file /build/firefox/parts/firefox/build/tool

(firefox:10325): Gtk-WARNING **: 20:32:15.081: GTK+ module /snap/firefox/4136/gnome-platform/usr/lib/gtk-2.0/modules/libcanberra-gtk-module.so cannot be
GTK+ 2.x symbols detected. Using GTK+ 2.x and GTK+ 3 in the same process is not supported.
Gtk-Message: 20:32:15.081: Failed to load module "canberra-gtk-module"
richard@cis106:~/cis106/labs/lab8/broken$ ▯
```