Lab

Question 1

```
delane-smith@cis106:~/lab8$ echo "All files in my home directory" > file_report.txt
delane-smith@cis106:~/lab8$ ls -Am ~ >> file_report.txt
delane-smith@cis106:~/lab8$ cat file_report.txt
ll files in my home directory
bsolute Path VS Relative Path Cheat sheet.png, .ansi_codes.sh, .bash_aliases,
bash_history, .bash_logout, .bashrc, bbq.jpeg, book-list-main.zip, .cache,
ar123, cat, challenge-Lab6, cis106, .config, dance.gif, Desktop, .dmrc, docs,
ocuments, .dotnet, Downloads, favicon.ico, final-exam-submission,
inal-exam-submmison, Final Spring 24.pdf, .fontconfig, .gitconfig,
ithub_cheat_sheet.txt, .gnupg, "inal-exam-submission, index.html, lab4files,
ab-5, lab5-audio, lab5ChallengeQuestion, lab5-docs, lab5-imgs, lab5-video,
ab6, lab6-q5, lab8, .lesshst, .local, margherita.webp, modified.css, Music,
rderform.html, Param1-practice.sh, pepperoni.webp, Pictures, pizza.jpeg, .pki,
```

Question 2

```
  command 'taql' from deb casacore-tools (3.4.0-2build1)
See 'snap info <snapname>' for additional versions.
tdelane-smith@cis106:~/lab8$ tail file_report.txt
.vboxclient-vmsvga-session-tty7-service.pid, Videos, .vscode, website,
WILDCARDS_FILE GLOBBING CHEAT SHEET(1).png, .Xauthority, .xsession-errors,
.xsession-errors.old
Total number of files in my home directory
56
Total number of directories in my home directory
total number of files in my home directory
56
```

Question 3

```
eoclue:x:124:131::/var/lib/geoclue:/usr/sbin/nologin geoclue:x:124:131::/var/lib/geoclue:/usr/sbin/nologin
ulse:x:125:132:PulseAudio daemon,,,:/run/pulse:/usr/sbin/nologin pulse:x:125:132:PulseAudio daemon,,,:/run/pulse:/usr/sbin/nologin
nome-initial-setup:x:126:65534::/run/gnome-initial-setup/:/bin/false gnome-initial-setup:x:126:65534::/run/gnome-initial-setup/:/bin/false
plip:x:127:7:HPLIP system user,,,:/run/hplip:/bin/false hplip:x:127:7:HPLIP system user,,,:/run/hplip:/bin/false
dm:x:128:134:Gnome Display Manager:/var/lib/gdm3:/bin/false gdm:x:128:134:Gnome Display Manager:/var/lib/gdm3:/bin/false
delane-smith:x:1000:1000:tdelane-smith,,,:/home/tdelane-smith:/bin/bash tdelane-smith:x:1000:1000:tdelane-smith,,,:/home/tdelane-smith:/bin/bash
boxadd:x:999:1::/var/run/vboxadd:/bin/false vboxadd:x:999:1::/var/run/vboxadd:/bin/false
flatpak:x:129:138:Flatpak system-wide installation helper,,,:/nonexistent:/usr/sbin/nologin _flatpak:x:129:138:Flatpak system-wide installation helper,,,:/nonexistent:/usr/sbin/nologin
ightdm:x:130:139:Light Display Manager:/var/lib/lightdm:/bin/false lightdm:x:130:139:Light Display Manager:/var/lib/lightdm:/bin/false
delane-smith@cis106:~/lab8$ awk -F";" '{print $1,$NF}' /etc/passwd
```

```
geoclue:x:124:131::/var/lib/geoclue:/usr/sbin/nologin geoclue:x:124:131::/var/lib/geoclue:/usr/sbin/nologin
pulse:x:125:132:PulseAudio daemon,,,:/run/pulse:/usr/sbin/nologin pulse:x:125:132:PulseAudio daemon,,,:/run/pulse:/usr/sbin/nologin
gnome-initial-setup:x:126:65534::/run/gnome-initial-setup/:/bin/false gnome-initial-setup:x:126:65534::/run/gnome-initial-setup/:/bin/false
hplip:x:127:7:HPLIP system user,,,:/run/hplip:/bin/false hplip:x:127:7:HPLIP system user,,,:/run/hplip:/bin/false
gdm:x:128:134:Gnome Display Manager:/var/lib/gdm3:/bin/false gdm:x:128:134:Gnome Display Manager:/var/lib/gdm3:/bin/false
tdelane-smith:x:1000:1000:tdelane-smith,,,:/home/tdelane-smith:/bin/bash tdelane-smith:x:1000:1000:tdelane-smith,,,:/home/tdelane-smith:/bin/bash
vboxadd:x:999:1::/var/run/vboxadd:/bin/false vboxadd:x:999:1::/var/run/vboxadd:/bin/false
_flatpak:x:129:138:Flatpak system-wide installation helper,,,:/nonexistent:/usr/sbin/nologin _flatpak:x:129:138:Flatpak system-wide installation helper,,,:/nonexistent:/usr/sbin/nologin
lightdm:x:130:139:Light Display Manager:/var/lib/lightdm:/bin/false lightdm:x:130:139:Light Display Manager:/var/lib/lightdm:/bin/false
tdelane-smith@cis106:~/lab8$ awk -F";" '{print $1,$NF,$6}' /etc/passwd
```

```
he user pulse:x:125:132:PulseAudio daemon,,,:/run/pulse:/usr/sbin/nologin logs in with: 1 snd its home dir is:
he user gnome-initial-setup:x:126:65534::/run/gnome-initial-setup/:/bin/false logs in with: 1 snd its home dir is:
he user hplip:x:127:7:HPLIP system user,,,:/run/hplip:/bin/false logs in with: 1 snd its home dir is:
he user gdm:x:128:134:Gnome Display Manager:/var/lib/gdm3:/bin/false logs in with: 1 snd its home dir is:
he user tdelane-smith:x:1000:1000:tdelane-smith,,,:/home/tdelane-smith:/bin/bash logs in with: 1 snd its home dir is:
he user vboxadd:x:999:1::/var/run/vboxadd:/bin/false logs in with: 1 snd its home dir is:
he user _flatpak:x:129:138:Flatpak system-wide installation helper,,,:/nonexistent:/usr/sbin/nologin logs in with: 1 snd its home dir is:
he user lightdm:x:130:139:Light Display Manager:/var/lib/lightdm:/bin/false logs in with: 1 snd its home dir is:
tdelane-smith@cis106:~/lab8$ awk -F";" '{print "The user "$1, "logs in with: "NF, "snd its home dir is: "$6}' /etc/passwd
```

```
he user tdelane-smith:x:1000:1000:tdelane-smith,,,:/home/tdelane-smith:/bin/bash logs in with: 1 snd its home dir is:
he user vboxadd:x:999:1::/var/run/vboxadd:/bin/false logs in with: 1 snd its home dir is:
he user _flatpak:x:129:138:Flatpak system-wide installation helper,,,:/nonexistent:/usr/sbin/nologin logs in with: 1 snd its home dir is:
he user lightdm:x:130:139:Light Display Manager:/var/lib/lightdm:/bin/false logs in with: 1 snd its home dir is:
delane-smith@cis106:~/lab8$ awk -F";" '{print $1 = $NF}' /etc/passwd | grep "/bin/bash"
oot:x:0:0:root:/root:/bin/bash
delane-smith:x:1000:1000:tdelane-smith,,,:/home/tdelane-smith:/bin/bash
delane-smith@cis106:~/lab8$ awk -F";" '{print $1 = $NF}' /etc/passwd | grep "/bin/bash" report_users.txt
rep: report_users.txt: No such file or directory
delane-smith@cis106:~/lab8$ awk -F";" '{print $1 = $NF}' /etc/passwd | grep "/bin/bash" >> report_users.txt
delane-smith@cis106:~/lab8$
```

Question 4

```
tdelane-smith@cis106:~/lab8$ grep -i "honda" ~/Documents/Csv/cars.csv > honda1.csv
tdelane-smith@cis106:~/lab8$ head -1 ~/Documents/Csv/cars.csv > honda1.csv
tdelane-smith@cis106:~/lab8$ cat honda1.csv
ar;MPG;Cylinders;Displacement;Horsepower;Weight;Acceleration;Model;Origin
tdelane-smith@cis106:~/lab8$ grep -i "honda" ~/Documents/Csv/cars.csv >> honda1.csv
tdelane-smith@cis106:~/lab8$ sed 's/i/,/g' honda1.csv
ar;MPG;Cyl,nders;D,splacement;Horsepower;We,ght;Accelerat,on;Model;Or,g,n
Honda C,v,c;24.0;4;120.0;97.00;2489.;15.0;74;Japan
Honda C,v,c CVCC;33.0;4;91.00;53.00;1795.;17.5;75;Japan
Honda C,v,c;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 C,v,c 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 C,v,c 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 C,v,c 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 C,v,c;38.0;4;91.00;67.00;1965.;15.0;82;Japan
Honda C,v,c (auto);32.0;4;91.00;67.00;1965.;15.7;82;Japan
tdelane-smith@cis106:~/lab8$ sed 's/i/,/g' honda1.csv > honda2.csv
tdelane-smith@cis106:~/lab8$
```

```
 ,nda_C ,c 1500 gl;44.6;4;91.00;67.00;1850.;13.8;80;Japan
 ,,nda_Accord;32.4;4;107.0;72.00;2290.;17.0;80;Japan
 ,nda_C ,c 1300;35.1;4;81.00;60.00;1760.;16.1;81;Japan
 ,,nda_Prelude;33.7;4;107.0;75.00;2210.;14.4;81;Japan
 ,,nda_Accord;36.0;4;107.0;75.00;2205.;14.5;82;Japan
 ,nda_C ,c;38.0;4;91.00;67.00;1965.;15.0;82;Japan
 ,nda_C ,c (auto);32.0;4;91.00;67.00;1965.;15.7;82;Japan
tdelane-smith@cis106:~/lab8$ awk -F"," 'NR > 1 {print $1","$3","$5}' honda2.csv | sed 's/ , /,/g' | sed 's/Honda /Honda_/g' >> honda.csv
tdelane-smith@cis106:~/lab8$ batcat honda3.csv
```

```
       File: honda3.csv
   1   model,cylinder,hp
```

```
tdelane-smith@cis106:~/lab8$
```

```
2: tdelane-smith@cis106: ~/Documents/Csv ▼                                          □   ×
tdelane-smith@cis106:~/Documents/Csv$
```