Lab 7 submission

Question 1

```
rdeida@cis106vm:~$ mkdir lab8
rdeida@cis106vm:~$ cd lab8/
rdeida@cis106vm:~/lab8$ echo "All my fi
les in my home directory" > file_report
.txt
rdeida@cis106vm:~/lab8$ ls -Am ~ >> fil
e_report.txt
rdeida@cis106vm:~/lab8$ cat file_report
.txt
All my files in my home directory
Applications, .bash_aliases, .bash_hist
ory, .bash_logout, .bashrc, book-list,
.cache, .cargo, cis106, cis106.zip, .co
nfig, Desktop, Documents, .dotnet,
Downloads, final-exam-submission, final
-exam-submission.zip, .gitconfig, .gnup
g,
lab8, .lesshst, .local, Music, Pictures
, pizza-mania, .pki, .profile, Public,
.rustup, scripts, share, snap, .ssh, .s
udo_as_admin_successful, Templates,
.textFiles, .var, .vboxclient-clipboard
-tty2-control.pid,
.vboxclient-clipboard-tty2-service.pid,
.vboxclient-draganddrop-tty2-control.pi
d,
.vboxclient-draganddrop-tty2-service.pi
d,
.vboxclient-hostversion-tty2-control.pi
d, .vboxclient-seamless-tty2-control.pi
d,
.vboxclient-seamless-tty2-service.pid,
.vboxclient-vmsvga-session-tty2-control
.pid,
.vboxclient-vmsvga-session-tty2-service
.pid, Videos, .viminfo, .vscode
rdeida@cis106vm:~/lab8$
```

Question 2

```
1: rdeida@cis106vm: ~/lab8 ⌄                    □    ✕
rdeida@cis106vm:~/lab8$ ls -lA ~ | grep
 "^-" | grep wc -l >> file_report.txt
rdeida@cis106vm:~/lab8$ echo "Total num
ber of directories in my home directory
" >> file_report.txt
rdeida@cis106vm:~/lab8$ ls -lA ~ | grep
 "^d" | grep wc -l >> file_report.txt
rdeida@cis106vm:~/lab8$ tail file_repor
t.txt
.textFiles, .var, .vboxclient-clipboard
-tty2-control.pid,
.vboxclient-clipboard-tty2-service.pid,
.vboxclient-draganddrop-tty2-control.pi
d,
.vboxclient-draganddrop-tty2-service.pi
d,
.vboxclient-hostversion-tty2-control.pi
d, .vboxclient-seamless-tty2-control.pi
d,
.vboxclient-seamless-tty2-service.pid,
.vboxclient-vmsvga-session-tty2-control
.pid,
.vboxclient-vmsvga-session-tty2-service
.pid, Videos, .viminfo, .vscode
Total number of files in my home direct
ory
Total number of directories in my home
directory
rdeida@cis106vm:~/lab8$ █
```

Question 3

```
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
rdeida /bin/bash
vboxadd /bin/false
_flatpak /usr/sbin/nologin
rdeida@cis106vm:~/lab8$
```

```
saned /usr/sbin/nologin /var/lib/saned
colord /usr/sbin/nologin /var/lib/color
d
geoclue /usr/sbin/nologin /var/lib/geoc
lue
pulse /usr/sbin/nologin /run/pulse
gnome-initial-setup /bin/false /run/gno
me-initial-setup/
hplip /bin/false /run/hplip
gdm /bin/false /var/lib/gdm3
rdeida /bin/bash /home/rdeida
vboxadd /bin/false /var/run/vboxadd
_flatpak /usr/sbin/nologin /nonexistent
rdeida@cis106vm:~/lab8$
```

```
The user hplip logs in with: /bin/false
  and their home dir is: /run/hplip
The user gdm logs in with: /bin/false
and their home dir is: /var/lib/gdm3
The user rdeida logs in with: /bin/bash
  and their home dir is: /home/rdeida
The user vboxadd logs in with: /bin/fal
se  and their home dir is: /var/run/vbo
xadd
The user _flatpak logs in with: /usr/sb
in/nologin  and their home dir is: /non
existent
rdeida@cis106vm:~/lab8$
```

```
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
rdeida = /bin/bash
vboxadd = /bin/false
_flatpak = /usr/sbin/nologin
rdeida@cis106vm:~/lab8$ awk -F":" '{pri
nt $1" = "$NF}' /etc/passwd | grep "/bi
n/bash" >> report_users.txt
rdeida@cis106vm:~/lab8$
```

```
un/speech-dispatcher
The user fwupd-refresh logs in with: /u
sr/sbin/nologin  and their home dir is:
 /run/systemd
The user nm-openvpn logs in with: /usr/
sbin/nologin  and their home dir is: /v
ar/lib/openvpn/chroot
The user saned logs in with: /usr/sbin/
nologin  and their home dir is: /var/li
b/saned
The user colord logs in with: /usr/sbin
/nologin  and their home dir is: /var/l
ib/colord
The user geoclue logs in with: /usr/sbi
n/nologin  and their home dir is: /var/
lib/geoclue
The user pulse logs in with: /usr/sbin/
nologin  and their home dir is: /run/pu
lse
The user gnome-initial-setup logs in wi
th: /bin/false  and their home dir is:
/run/gnome-initial-setup/
The user hplip logs in with: /bin/false
  and their home dir is: /run/hplip
The user gdm logs in with: /bin/false
and their home dir is: /var/lib/gdm3
The user rdeida logs in with: /bin/bash
  and their home dir is: /home/rdeida
The user vboxadd logs in with: /bin/fal
se  and their home dir is: /var/run/vbo
xadd
The user _flatpak logs in with: /usr/sb
in/nologin  and their home dir is: /non
existent
root = /bin/bash
rdeida = /bin/bash
rdeida@cis106vm:~/lab8$
```

Question 4

```
1: rdeida@cis106vm: ~/lab8 ⌄           □   ✕      2: rdeida@cis106vm: ~ ⌄                 □   ✕
 ~/Documents/Csv/cars.csv                        rdeida@cis106vm:~$ cat ~/lab8/honda1.cs
Honda Civic;24.0;4;120.0;97.00;2489.;15          v
.0;74;Japan                                      Car;MPG;Cylinders;Displacement;Horsepow
Honda Civic CVCC;33.0;4;91.00;53.00;179          er;Weight;Acceleration;Model;Origin
5.;17.5;75;Japan                                 Honda Civic;24.0;4;120.0;97.00;2489.;15
Honda Civic;33.0;4;91.00;53.00;1795.;17          .0;74;Japan
.4;76;Japan                                      Honda Civic CVCC;33.0;4;91.00;53.00;179
Honda Accord CVCC;31.5;4;98.00;68.00;20          5.;17.5;75;Japan
45.;18.5;77;Japan                                Honda Civic;33.0;4;91.00;53.00;1795.;17
Honda Civic CVCC;36.1;4;91.00;60.00;180          .4;76;Japan
0.;16.4;78;Japan                                 Honda Accord CVCC;31.5;4;98.00;68.00;20
Honda Accord LX;29.5;4;98.00;68.00;2135          45.;18.5;77;Japan
.;16.6;78;Japan                                  Honda Civic CVCC;36.1;4;91.00;60.00;180
Honda Civic 1500 gl;44.6;4;91.00;67.00;          0.;16.4;78;Japan
1850.;13.8;80;Japan                              Honda Accord LX;29.5;4;98.00;68.00;2135
Honda Accord;32.4;4;107.0;72.00;2290.;1          .;16.6;78;Japan
7.0;80;Japan                                     Honda Civic 1500 gl;44.6;4;91.00;67.00;
Honda Civic 1300;35.1;4;81.00;60.00;176          1850.;13.8;80;Japan
0.;16.1;81;Japan                                 Honda Accord;32.4;4;107.0;72.00;2290.;1
Honda Prelude;33.7;4;107.0;75.00;2210.;          7.0;80;Japan
14.4;81;Japan                                    Honda Civic 1300;35.1;4;81.00;60.00;176
Honda Accord;36.0;4;107.0;75.00;2205.;1          0.;16.1;81;Japan
4.5;82;Japan                                     Honda Prelude;33.7;4;107.0;75.00;2210.;
Honda Civic;38.0;4;91.00;67.00;1965.;15          14.4;81;Japan
.0;82;Japan                                      Honda Accord;36.0;4;107.0;75.00;2205.;1
Honda Civic (auto);32.0;4;91.00;67.00;1          4.5;82;Japan
965.;15.7;82;Japan                               Honda Civic;38.0;4;91.00;67.00;1965.;15
rdeida@cis106vm:~/lab8$ grep -i "honda"          .0;82;Japan
 ~/Documents/Csv/cars.csv > honda1.csv           Honda Civic (auto);32.0;4;91.00;67.00;1
rdeida@cis106vm:~/lab8$ head -1 ~/Docum          965.;15.7;82;Japan
ents/Csv/cars.csv > honda1.csv                   rdeida@cis106vm:~$ █
rdeida@cis106vm:~/lab8$ cat honda1.csv
Car;MPG;Cylinders;Displacement;Horsepow
er;Weight;Acceleration;Model;Origin
rdeida@cis106vm:~/lab8$ grep -i "honda"
 ~/Documents/Csv/cars.csv >> honda1.csv
rdeida@cis106vm:~/lab8$ ▯
```

```
rdeida@cis106vm:~/lab8$ sed 's/;/,/g' h
onda1.csv
Car,MPG,Cylinders,Displacement,Horsepow
er,Weight,Acceleration,Model,Origin
Honda Civic,24.0,4,120.0,97.00,2489.,15
.0,74,Japan
Honda Civic CVCC,33.0,4,91.00,53.00,179
5.,17.5,75,Japan
Honda Civic,33.0,4,91.00,53.00,1795.,17
.4,76,Japan
Honda Accord CVCC,31.5,4,98.00,68.00,20
45.,18.5,77,Japan
Honda Civic CVCC,36.1,4,91.00,60.00,180
0.,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
```

```
Honda Civic 1300 gt,44.0,4,91.00,67.00,
1850.,13.8,80,Japan
Honda Accord,32.4,4,107.0,72.00,2290.,1
7.0,80,Japan
Honda Civic 1300,35.1,4,81.00,60.00,176
0.,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.,1
4.5,82,Japan
Honda Civic,38.0,4,91.00,67.00,1965.,15
.0,82,Japan
Honda Civic (auto),32.0,4,91.00,67.00,1
965.,15.7,82,Japan
rdeida@cis106vm:~/lab8$ sed 's/;/,/g' h
onda1.csv > honda2.csv
rdeida@cis106vm:~/lab8$
```

```
1: rdeida@cis106vm: ~/lab8 ∨        □   ×    2: rdeida@cis106vm: ~ ∨        □   ×
> 1 {print $1," , ",$3," , ",$5}' honda   rdeida@cis106vm:~$ cat ~/lab8/honda3.cs
2.csv | sed 's/ , /,/g'                   v
Honda Civic , 4 , 97.00                   model,cylinder,hp
Honda Civic CVCC , 4 , 53.00             Honda_Civic , 4 , 97.00
Honda Civic , 4 , 53.00                  Honda_Civic CVCC , 4 , 53.00
Honda Accord CVCC , 4 , 68.00            Honda_Civic , 4 , 53.00
Honda Civic CVCC , 4 , 60.00             Honda_Accord CVCC , 4 , 68.00
Honda Accord LX , 4 , 68.00              Honda_Civic CVCC , 4 , 60.00
Honda Civic 1500 gl , 4 , 67.00          Honda_Accord LX , 4 , 68.00
Honda Accord , 4 , 72.00                 Honda_Civic 1500 gl , 4 , 67.00
Honda Civic 1300 , 4 , 60.00             Honda_Accord , 4 , 72.00
Honda Prelude , 4 , 75.00                Honda_Civic 1300 , 4 , 60.00
Honda Accord , 4 , 75.00                 Honda_Prelude , 4 , 75.00
Honda Civic , 4 , 67.00                  Honda_Accord , 4 , 75.00
Honda Civic (auto) , 4 , 67.00           Honda_Civic , 4 , 67.00
rdeida@cis106vm:~/lab8$ awk -F"," ' NR   Honda_Civic (auto) , 4 , 67.00
> 1 {print $1," , ",$3," , ",$5}' honda  rdeida@cis106vm:~$
2.csv | sed 's/ , /,/g' | sed 's/Honda
/Honda_/g'
Honda_Civic , 4 , 97.00
Honda_Civic CVCC , 4 , 53.00
Honda_Civic , 4 , 53.00
Honda_Accord CVCC , 4 , 68.00
Honda_Civic CVCC , 4 , 60.00
Honda_Accord LX , 4 , 68.00
Honda_Civic 1500 gl , 4 , 67.00
Honda_Accord , 4 , 72.00
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
rdeida@cis106vm:~/lab8$ awk -F"," ' NR
> 1 {print $1," , ",$3," , ",$5}' honda
2.csv | sed 's/ , /,/g' | sed 's/Honda
/Honda_/g' >> honda3.csv
rdeida@cis106vm:~/lab8$
```

```
rdeida@cis106vm:~/lab8$ batcat honda3.c
sv
```

```
       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 , 67.0
       0
  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
```

```
rdeida@cis106vm:~/lab8$
```