Lab 8

q1

q2

```
1/1 ˅   +   [↗   ⤢                    Tilix: adriktech25@cis106: ~/lab8                    🔍  ☰  —  ⧉  ✕

1: adriktech25@cis106: ~/lab8 ˅                                                                      ⬜  ✕
adriktech25@cis106:~/lab8$ echo "Total number of files in my home directory" >> file_report.txt
adriktech25@cis106:~/lab8$ ls -lA ~ | grep "^-" | wc -l
20
adriktech25@cis106:~/lab8$ ls -lA ~ | grep "^-" | wc -l >> file_report.txt
adriktech25@cis106:~/lab8$ echo "Total number of directories in my home directory" >> file_report.txt
adriktech25@cis106:~/lab8$ ls -lA ~ | grep "^d" | wc -l >> file_report.txt
adriktech25@cis106:~/lab8$ tail file_report.txt
.vboxclient-display-svga-x11-tty2-control.pid,
.vboxclient-display-svga-x11-tty2-service.pid,
.vboxclient-draganddrop-tty2-control.pid,
.vboxclient-hostversion-tty2-control.pid, .vboxclient-seamless-tty2-control.pid,
.vboxclient-vmsvga-session-tty2-control.pid, Videos, .vscode, website,
.wget-hsts, wildcardpractice
Total number of files in my home directory
20
Total number of directories in my home directory
27
adriktech25@cis106:~/lab8$ ▮



2: adriktech25@cis106: ~ ˅                                                                          ⬜  ✕
adriktech25@cis106:~$ ▯
```
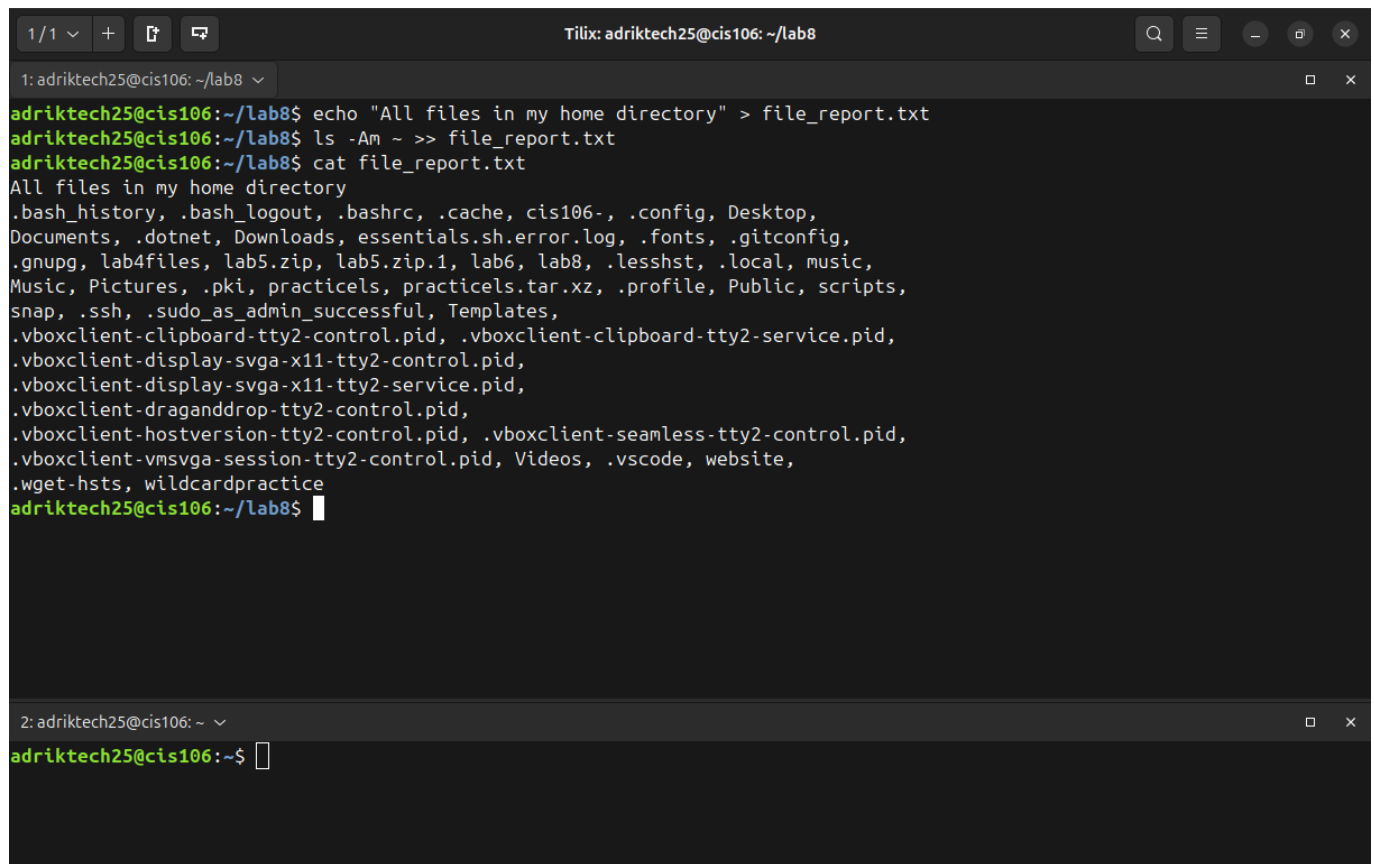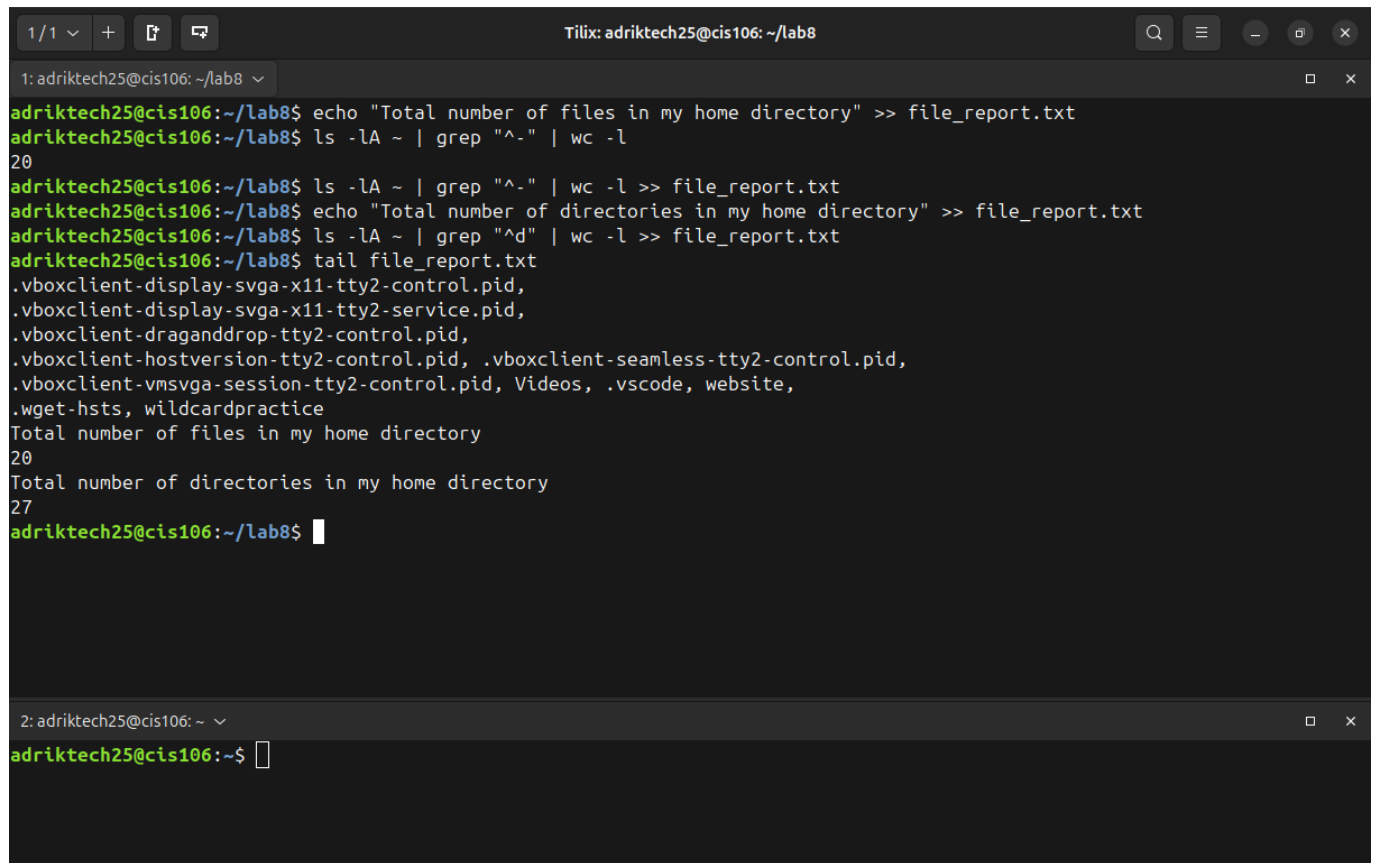
q3

```
1/1 ∨    +    ⊡    ⊟                 Tilix: adriktech25@cis106: ~              ⚲  ☰  –  ⟳  ✕

1: adriktech25@cis106: ~/lab8 ∨                    AI  ▢  ✕   2: adriktech25@cis106: ~ ∨              AI  ▢  ✕
adriktech25@cis106:~/lab8$ awk -F":" '{print $1}' /etc/passwd   adriktech25@cis106:~$ awk -F":" '{print $1, $NF}'
root                                                            /etc/passwd
daemon                                                          root /bin/bash
bin                                                             daemon /usr/sbin/nologin
sys                                                             bin /usr/sbin/nologin
sync                                                            sys /usr/sbin/nologin
games                                                           sync /bin/sync
man                                                             games /usr/sbin/nologin
lp                                                              man /usr/sbin/nologin
mail                                                            lp /usr/sbin/nologin
news                                                            mail /usr/sbin/nologin
uucp                                                            news /usr/sbin/nologin
proxy                                                           uucp /usr/sbin/nologin
www-data                                                        proxy /usr/sbin/nologin
backup                                                          www-data /usr/sbin/nologin
list                                                            backup /usr/sbin/nologin
irc                                                             list /usr/sbin/nologin
_apt                                                            irc /usr/sbin/nologin
nobody                                                          _apt /usr/sbin/nologin
systemd-network                                                 nobody /usr/sbin/nologin
systemd-timesync                                                systemd-network /usr/sbin/nologin
dhcpcd                                                          systemd-timesync /usr/sbin/nologin
messagebus                                                      dhcpcd /bin/false
syslog                                                          messagebus /usr/sbin/nologin
systemd-resolve                                                 syslog /usr/sbin/nologin
uuidd                                                           systemd-resolve /usr/sbin/nologin
usbmux                                                          uuidd /usr/sbin/nologin
tss                                                             usbmux /usr/sbin/nologin
systemd-oom                                                     tss /bin/false
kernoops                                                        systemd-oom /usr/sbin/nologin
whoopsie                                                        kernoops /usr/sbin/nologin
```

```
1/1 ∨    +    ⊡    ⊟                 Tilix: adriktech25@cis106: ~/lab8           ⚲  ☰  –  ⟳  ✕

1: adriktech25@cis106: ~/lab8 ∨                                             AI  ▢  ✕
adriktech25@cis106:~/lab8$ awk -F":" '{print $1,$NF,$6}' /etc/passwd
root /bin/bash /root
daemon /usr/sbin/nologin /usr/sbin
bin /usr/sbin/nologin /bin
sys /usr/sbin/nologin /dev
sync /bin/sync /bin
games /usr/sbin/nologin /usr/games
man /usr/sbin/nologin /var/cache/man
lp /usr/sbin/nologin /var/spool/lpd
mail /usr/sbin/nologin /var/mail
news /usr/sbin/nologin /var/spool/news
uucp /usr/sbin/nologin /var/spool/uucp
proxy /usr/sbin/nologin /bin
www-data /usr/sbin/nologin /var/www
backup /usr/sbin/nologin /var/backups
list /usr/sbin/nologin /var/list
irc /usr/sbin/nologin /run/ircd
_apt /usr/sbin/nologin /nonexistent
nobody /usr/sbin/nologin /nonexistent
systemd-network /usr/sbin/nologin /
systemd-timesync /usr/sbin/nologin /
dhcpcd /bin/false /usr/lib/dhcpcd
messagebus /usr/sbin/nologin /nonexistent
syslog /usr/sbin/nologin /nonexistent
systemd-resolve /usr/sbin/nologin /
uuidd /usr/sbin/nologin /run/uuidd
usbmux /usr/sbin/nologin /var/lib/usbmux
tss /bin/false /var/lib/tpm
systemd-oom /usr/sbin/nologin /
kernoops /usr/sbin/nologin /
whoopsie /bin/false /nonexistent
```

```
1/1 ∨  +  ▯  ▭              Tilix: adriktech25@cis106: ~/lab8           🔍  ☰  ─  ▣  ✕

1: adriktech25@cis106: ~/lab8 ∨                                        AI  ▢  ✕

adriktech25@cis106:~/lab8$ awk -F":" '{print "The user "$1,"logs in with: "$NF,"and its home dir is: "$6}' /etc/passwd
The user root logs in with: /bin/bash and its home dir is: /root
The user daemon logs in with: /usr/sbin/nologin and its home dir is: /usr/sbin
The user bin logs in with: /usr/sbin/nologin and its home dir is: /bin
The user sys logs in with: /usr/sbin/nologin and its home dir is: /dev
The user sync logs in with: /bin/sync and its home dir is: /bin
The user games logs in with: /usr/sbin/nologin and its home dir is: /usr/games
The user man logs in with: /usr/sbin/nologin and its home dir is: /var/cache/man
The user lp logs in with: /usr/sbin/nologin and its home dir is: /var/spool/lpd
The user mail logs in with: /usr/sbin/nologin and its home dir is: /var/mail
The user news logs in with: /usr/sbin/nologin and its home dir is: /var/spool/news
The user uucp logs in with: /usr/sbin/nologin and its home dir is: /var/spool/uucp
The user proxy logs in with: /usr/sbin/nologin and its home dir is: /bin
The user www-data logs in with: /usr/sbin/nologin and its home dir is: /var/www
The user backup logs in with: /usr/sbin/nologin and its home dir is: /var/backups
The user list logs in with: /usr/sbin/nologin and its home dir is: /var/list
The user irc logs in with: /usr/sbin/nologin and its home dir is: /run/ircd
The user _apt logs in with: /usr/sbin/nologin and its home dir is: /nonexistent
The user nobody logs in with: /usr/sbin/nologin and its home dir is: /nonexistent
The user systemd-network logs in with: /usr/sbin/nologin and its home dir is: /
The user systemd-timesync logs in with: /usr/sbin/nologin and its home dir is: /
The user dhcpcd logs in with: /bin/false and its home dir is: /usr/lib/dhcpcd
The user messagebus logs in with: /usr/sbin/nologin and its home dir is: /nonexistent
The user syslog logs in with: /usr/sbin/nologin and its home dir is: /nonexistent
The user systemd-resolve logs in with: /usr/sbin/nologin and its home dir is: /
The user uuidd logs in with: /usr/sbin/nologin and its home dir is: /run/uuidd
The user usbmux logs in with: /usr/sbin/nologin and its home dir is: /var/lib/usbmux
The user tss logs in with: /bin/false and its home dir is: /var/lib/tpm
The user systemd-oom logs in with: /usr/sbin/nologin and its home dir is: /
The user kernoops logs in with: /usr/sbin/nologin and its home dir is: /
The user whoopsie logs in with: /bin/false and its home dir is: /nonexistent
```

```
1/1 ∨  +  ▯  ▭              Tilix: adriktech25@cis106: ~/lab8           🔍  ☰  ─  ▣  ✕

1: adriktech25@cis106: ~/lab8 ∨          AI  ▢  ✕   2: adriktech25@cis106: ~/lab8 ∨          ▢  ✕

adriktech25@cis106:~/lab8$ awk -F":" '{print "The user "$1,"   adriktech25@cis106:~/lab8$ awk -F":" '{print $1" = "$NF}' /e
logs in with: "$NF,"and its home dir is: "$6}' /etc/passwd >    tc/passwd | grep "/bin/bash" >> report_users.txt
 report_users.txt                                              adriktech25@cis106:~/lab8$
adriktech25@cis106:~/lab8$ awk -F":" '{print "The user "$1,"
logs in with: "$NF,"and its home dir is: "$6}' /etc/passwd |
 grep "/bin/bash"\
> ^C
adriktech25@cis106:~/lab8$ awk -F":" '{print "The user "$1,"
logs in with: "$NF,"and its home dir is: "$6}' /etc/passwd |
 grep "/bin/bash"
The user root logs in with: /bin/bash and its home dir is: /
root
The user adriktech25 logs in with: /bin/bash and its home di
r is: /home/adriktech25
adriktech25@cis106:~/lab8$ awk -F":" '{print $1" = "$NF}' /e
tc/passwd

root = /bin/bash
daemon = /usr/sbin/nologin
bin = /usr/sbin/nologin
sys = /usr/sbin/nologin
sync = /bin/sync
games = /usr/sbin/nologin
man = /usr/sbin/nologin
lp = /usr/sbin/nologin
mail = /usr/sbin/nologin
news = /usr/sbin/nologin
uucp = /usr/sbin/nologin
proxy = /usr/sbin/nologin
www-data = /usr/sbin/nologin
backup = /usr/sbin/nologin
```

```
1/1 ∨   +   ⬚   ⬚                    Tilix: adriktech25@cis106: ~/lab8              🔍  ☰  ⚊  ⬚  ✕

1: adriktech25@cis106: ~/lab8 ∨                                                              ⬚  ✕
The user syslog logs in with: /usr/sbin/nologin and its home dir is: /nonexistent
The user systemd-resolve logs in with: /usr/sbin/nologin and its home dir is: /
The user uuidd logs in with: /usr/sbin/nologin and its home dir is: /run/uuidd
The user usbmux logs in with: /usr/sbin/nologin and its home dir is: /var/lib/usbmux
The user tss logs in with: /bin/false and its home dir is: /var/lib/tpm
The user systemd-oom logs in with: /usr/sbin/nologin and its home dir is: /
The user kernoops logs in with: /usr/sbin/nologin and its home dir is: /
The user whoopsie logs in with: /bin/false and its home dir is: /nonexistent
The user dnsmasq logs in with: /usr/sbin/nologin and its home dir is: /var/lib/misc
The user avahi logs in with: /usr/sbin/nologin and its home dir is: /run/avahi-daemon
The user tcpdump logs in with: /usr/sbin/nologin 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 cups-pk-helper logs in with: /usr/sbin/nologin and its home dir is: /nonexistent
The user fwupd-refresh logs in with: /usr/sbin/nologin and its home dir is: /var/lib/fwupd
The user saned logs in with: /usr/sbin/nologin and its home dir is: /var/lib/saned
The user geoclue logs in with: /usr/sbin/nologin and its home dir is: /var/lib/geoclue
The user cups-browsed logs in with: /usr/sbin/nologin and its home dir is: /nonexistent
The user hplip logs in with: /bin/false and its home dir is: /run/hplip
The user gnome-remote-desktop logs in with: /usr/sbin/nologin and its home dir is: /var/lib/gnome-remote-desktop
The user polkitd logs in with: /usr/sbin/nologin and its home dir is: /
The user rtkit logs in with: /usr/sbin/nologin and its home dir is: /proc
The user colord logs in with: /usr/sbin/nologin and its home dir is: /var/lib/colord
The user gnome-initial-setup logs in with: /bin/false and its home dir is: /run/gnome-initial-setup/
The user gdm logs in with: /bin/false and its home dir is: /var/lib/gdm3
The user nm-openvpn logs in with: /usr/sbin/nologin and its home dir is: /var/lib/openvpn/chroot
The user adriktech25 logs in with: /bin/bash and its home dir is: /home/adriktech25
The user vboxadd logs in with: /bin/false and its home dir is: /var/run/vboxadd
root = /bin/bash
adriktech25 = /bin/bash
adriktech25@cis106:~/lab8$ ▋
```

q4

```
1/1 ∨    +    🗗    🖵                    Tilix: adriktech25@cis106: ~/lab8                     🔍  ≡  ─  ▢  ✕

1: adriktech25@cis106: ~/lab8 ∨                                                                          ▢  ✕
adriktech25@cis106:~/lab8$ grep -i "honda" ~/Documents/Csv/cars.csv >> honda1.csv
adriktech25@cis106:~/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
adriktech25@cis106:~/lab8$ sed 's/;/,/g' honda1.csv > honda2.csv
adriktech25@cis106:~/lab8$ █

2: adriktech25@cis106: ~ ∨                                                                         A̲Ī  ▢  ✕
adriktech25@cis106:~$ cat ~/lab8/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
```

```
1/1 ∨    +    🗗    🖵                      Tilix: adriktech25@cis106: ~                        🔍  ≡  ─  ▢  ✕

1: adriktech25@cis106: ~/lab8 ∨                       ▢   ✕    2: adriktech25@cis106: ~ ∨                  ▢   ✕
Honda_Civic ,4 ,53.00                                        adriktech25@cis106:~$ cat ~/lab8/honda3.csv
Honda_Accord CVCC ,4 ,68.00                                 model,cylinder,hp
Honda_Civic CVCC ,4 ,60.00                                  Honda_Civic,4,97.00
Honda_Accord LX ,4 ,68.00                                   Honda_Civic CVCC,4,53.00
Honda_Civic 1500 gl ,4 ,67.00                               Honda_Civic,4,53.00
Honda_Accord ,4 ,72.00                                      Honda_Accord CVCC,4,68.00
Honda_Civic 1300 ,4 ,60.00                                  Honda_Civic CVCC,4,60.00
Honda_Prelude ,4 ,75.00                                     Honda_Accord LX,4,68.00
Honda_Accord ,4 ,75.00                                      Honda_Civic 1500 gl,4,67.00
Honda_Civic ,4 ,67.00                                       Honda_Accord,4,72.00
Honda_Civic (auto) ,4 ,67.00                                Honda_Civic 1300,4,60.00
adriktech25@cis106:~/lab8$ awk -F"," 'NR > 1 {print $1,",",$ Honda_Prelude,4,75.00
3,",",$5}' honda2.csv | sed 's/ , /,/g' | sed 's/Honda /Hond Honda_Accord,4,75.00
a_/g'                                                       Honda_Civic,4,67.00
Honda_Civic,4,97.00                                         Honda_Civic (auto),4,67.00
Honda_Civic CVCC,4,53.00                                    adriktech25@cis106:~$ █
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
adriktech25@cis106:~/lab8$ awk -F"," 'NR > 1 {print $1,",",$
3,",",$5}' honda2.csv | sed 's/ , /,/g' | sed 's/Honda /Hond
a_/g' >> honda3.csv
adriktech25@cis106:~/lab8$ ▯
```

/

```
1/1 ∨   +   ⬗   ⬗                    Tilix: adriktech25@cis106: ~/lab8                    🔍  ☰  ⊖  ⬜  ✕

1: adriktech25@cis106: ~/lab8 ∨                                                              ⬜   ✕

adriktech25@cis106:~/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
─────────────────────────────────────────────
adriktech25@cis106:~/lab8$
```

/