lab 7

Question 1

1: saymaakter@CIS106VirtualBox: ~ ∨

```
saymaakter@CIS106VirtualBox:~$ cat /etc/passwd
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin
systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin
messagebus:x:102:105::/nonexistent:/usr/sbin/nologin
systemd-timesync:x:103:106:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologin
syslog:x:104:111::/home/syslog:/usr/sbin/nologin
_apt:x:105:65534::/nonexistent:/usr/sbin/nologin
tss:x:106:112:TPM software stack,,,:/var/lib/tpm:/bin/false
uuidd:x:107:115::/run/uuidd:/usr/sbin/nologin
systemd-oom:x:108:116:systemd Userspace OOM Killer,,,:/run/systemd:/usr/sbin/nologin
tcpdump:x:109:117::/nonexistent:/usr/sbin/nologin
avahi-autoipd:x:110:119:Avahi autoip daemon,,,:/var/lib/avahi-autoipd:/usr/sbin/nologin
```

1: saymaakter@CIS106VirtualBox: ~ ∨

```
vboxadd:x:999:1::/var/run/vboxadd:/bin/false
saymaakter@CIS106VirtualBox:~$ tac /etc/passwd
vboxadd:x:999:1::/var/run/vboxadd:/bin/false
saymaakter:x:1000:1000:Sayma Akter,,,:/home/saymaakter:/bin/bash
gdm:x:127:133:Gnome Display Manager:/var/lib/gdm3:/bin/false
hplip:x:126:7:HPLIP system user,,,:/run/hplip:/bin/false
gnome-initial-setup:x:125:65534::/run/gnome-initial-setup/:/bin/false
pulse:x:124:131:PulseAudio daemon,,,:/run/pulse:/usr/sbin/nologin
geoclue:x:123:130::/var/lib/geoclue:/usr/sbin/nologin
colord:x:122:129:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/nologin
saned:x:121:128::/var/lib/saned:/usr/sbin/nologin
nm-openvpn:x:120:126:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/sbin/nologin
speech-dispatcher:x:119:29:Speech Dispatcher,,,:/run/speech-dispatcher:/bin/false
sssd:x:118:125:SSSD system user,,,:/var/lib/sss:/usr/sbin/nologin
whoopsie:x:117:124::/nonexistent:/bin/false
rtkit:x:116:123:RealtimeKit,,,:/proc:/usr/sbin/nologin
cups-pk-helper:x:115:122:user for cups-pk-helper service,,,:/home/cups-pk-helper:/usr/sbin/nologin
avahi:x:114:121:Avahi mDNS daemon,,,:/run/avahi-daemon:/usr/sbin/nologin
kernoops:x:113:65534:Kernel Oops Tracking Daemon,,,:/:/usr/sbin/nologin
dnsmasq:x:112:65534:dnsmasq,,,:/var/lib/misc:/usr/sbin/nologin
usbmux:x:111:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/nologin
avahi-autoipd:x:110:119:Avahi autoip daemon,,,:/var/lib/avahi-autoipd:/usr/sbin/nologin
tcpdump:x:109:117::/nonexistent:/usr/sbin/nologin
systemd-oom:x:108:116:systemd Userspace OOM Killer,,,:/run/systemd:/usr/sbin/nologin
uuidd:x:107:115::/run/uuidd:/usr/sbin/nologin
tss:x:106:112:TPM software stack,,,:/var/lib/tpm:/bin/false
_apt:x:105:65534::/nonexistent:/usr/sbin/nologin
syslog:x:104:111::/home/syslog:/usr/sbin/nologin
systemd-timesync:x:103:106:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologin
messagebus:x:102:105::/nonexistent:/usr/sbin/nologin
```
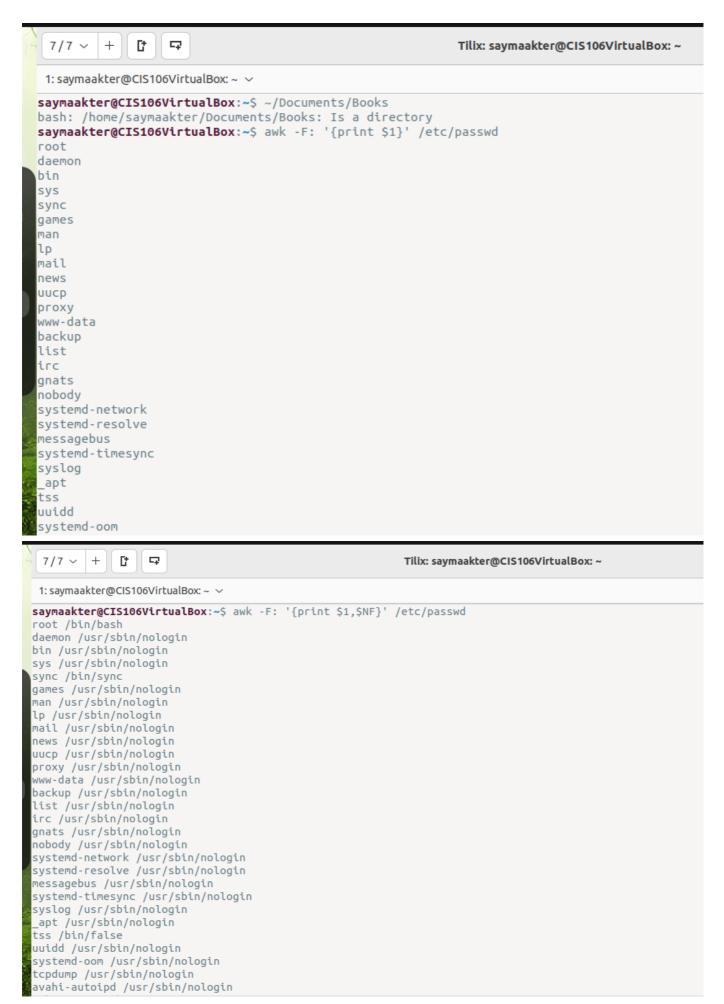
```
2/2 ⌄  +  ⯑  ⯈                                      Tilix: saymaakter@CIS106VirtualBox: ~

1: saymaakter@CIS106VirtualBox: ~ ⌄

daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
root:x:0:0:root:/root:/bin/bash
saymaakter@CIS106VirtualBox:~$ cat -nE/etc/passwd
cat: invalid option -- '/'
Try 'cat --help' for more information.
saymaakter@CIS106VirtualBox:~$ cat -nE /etc/passwd
     1  root:x:0:0:root:/root:/bin/bash$
     2  daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin$
     3  bin:x:2:2:bin:/bin:/usr/sbin/nologin$
     4  sys:x:3:3:sys:/dev:/usr/sbin/nologin$
     5  sync:x:4:65534:sync:/bin:/bin/sync$
     6  games:x:5:60:games:/usr/games:/usr/sbin/nologin$
     7  man:x:6:12:man:/var/cache/man:/usr/sbin/nologin$
     8  lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin$
     9  mail:x:8:8:mail:/var/mail:/usr/sbin/nologin$
    10  news:x:9:9:news:/var/spool/news:/usr/sbin/nologin$
    11  uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin$
    12  proxy:x:13:13:proxy:/bin:/usr/sbin/nologin$
    13  www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin$
    14  backup:x:34:34:backup:/var/backups:/usr/sbin/nologin$
    15  list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin$
    16  irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin$
    17  gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin$
    18  nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin$
    19  systemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin$
    20  systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin$
    21  messagebus:x:102:105::/nonexistent:/usr/sbin/nologin$
    22  systemd-timesync:x:103:106:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologin$
    23  syslog:x:104:111::/home/syslog:/usr/sbin/nologin$
    24  _apt:x:105:65534::/nonexistent:/usr/sbin/nologin$
```

```
2/2 ⌄  +  ⯑  ⯈                                      Tilix: saymaakter@CIS106VirtualBox

1: saymaakter@CIS106VirtualBox: ~ ⌄

    42  geoclue:x:123:130::/var/lib/geoclue:/usr/sbin/nologin$
    43  pulse:x:124:131:PulseAudio daemon,,,:/run/pulse:/usr/sbin/nologin$
    44  gnome-initial-setup:x:125:65534::/run/gnome-initial-setup/:/bin/false$
    45  hplip:x:126:7:HPLIP system user,,,:/run/hplip:/bin/false$
    46  gdm:x:127:133:Gnome Display Manager:/var/lib/gdm3:/bin/false$
    47  saymaakter:x:1000:1000:Sayma Akter,,,:/home/saymaakter:/bin/bash$
    48  vboxadd:x:999:1:::/var/run/vboxadd:/bin/false$
saymaakter@CIS106VirtualBox:~$ head -5  /etc/passwd
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
saymaakter@CIS106VirtualBox:~$ head -5 /etc/passwd
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
saymaakter@CIS106VirtualBox:~$ tail -5 /etc/passwd
gnome-initial-setup:x:125:65534::/run/gnome-initial-setup/:/bin/false
hplip:x:126:7:HPLIP system user,,,:/run/hplip:/bin/false
gdm:x:127:133:Gnome Display Manager:/var/lib/gdm3:/bin/false
saymaakter:x:1000:1000:Sayma Akter,,,:/home/saymaakter:/bin/bash
vboxadd:x:999:1:::/var/run/vboxadd:/bin/false
saymaakter@CIS106VirtualBox:~$ tail -1 /etc/passwd
vboxadd:x:999:1:::/var/run/vboxadd:/bin/false
saymaakter@CIS106VirtualBox:~$ head -1 /etc/passwd
root:x:0:0:root:/root:/bin/bash
saymaakter@CIS106VirtualBox:~$ ▮
```

Question 2

```
3/3 ∨ + ☐ ☐                              Tilix: saymaakter@CIS106VirtualBox: ~

1: saymaakter@CIS106VirtualBox: ~ ∨

saymaakter@CIS106VirtualBox:~$ cut -d":" -f1 /etc/passwd
root
daemon
bin
sys
sync
games
man
lp
mail
news
uucp
proxy
www-data
backup
list
irc
gnats
nobody
systemd-network
systemd-resolve
messagebus
systemd-timesync
syslog
_apt
tss
uuidd
systemd-oom
tcpdump
avahi-autoipd
```

```
3/3 ∨ + ☐ ☐                              Tilix: saymaakter@CIS106VirtualBox: ~

1: saymaakter@CIS106VirtualBox: ~ ∨

vboxadd
saymaakter@CIS106VirtualBox:~$ cut -d":" -f1,6 /etc/passwd
root:/root
daemon:/usr/sbin
bin:/bin
sys:/dev
sync:/bin
games:/usr/games
man:/var/cache/man
lp:/var/spool/lpd
mail:/var/mail
news:/var/spool/news
uucp:/var/spool/uucp
proxy:/bin
www-data:/var/www
backup:/var/backups
list:/var/list
irc:/run/ircd
gnats:/var/lib/gnats
nobody:/nonexistent
systemd-network:/run/systemd
systemd-resolve:/run/systemd
messagebus:/nonexistent
systemd-timesync:/run/systemd
syslog:/home/syslog
_apt:/nonexistent
tss:/var/lib/tpm
uuidd:/run/uuidd
systemd-oom:/run/systemd
tcpdump:/nonexistent
```

```
3/3 ∨  +  ⬚  ⬚                           Tilix: saymaakter@CIS106VirtualBox: ~

1: saymaakter@CIS106VirtualBox: ~ ∨

saymaakter@CIS106VirtualBox:~$ cut -d":" -f1,6,7 --output-delimiter=" > " /etc/passwd
root > /root > /bin/bash
daemon > /usr/sbin > /usr/sbin/nologin
bin > /bin > /usr/sbin/nologin
sys > /dev > /usr/sbin/nologin
sync > /bin > /bin/sync
games > /usr/games > /usr/sbin/nologin
man > /var/cache/man > /usr/sbin/nologin
lp > /var/spool/lpd > /usr/sbin/nologin
mail > /var/mail > /usr/sbin/nologin
news > /var/spool/news > /usr/sbin/nologin
uucp > /var/spool/uucp > /usr/sbin/nologin
proxy > /bin > /usr/sbin/nologin
www-data > /var/www > /usr/sbin/nologin
backup > /var/backups > /usr/sbin/nologin
list > /var/list > /usr/sbin/nologin
irc > /run/ircd > /usr/sbin/nologin
gnats > /var/lib/gnats > /usr/sbin/nologin
nobody > /nonexistent > /usr/sbin/nologin
systemd-network > /run/systemd > /usr/sbin/nologin
systemd-resolve > /run/systemd > /usr/sbin/nologin
messagebus > /nonexistent > /usr/sbin/nologin
systemd-timesync > /run/systemd > /usr/sbin/nologin
syslog > /home/syslog > /usr/sbin/nologin
_apt > /nonexistent > /usr/sbin/nologin
tss > /var/lib/tpm > /bin/false
uuidd > /run/uuidd > /usr/sbin/nologin
systemd-oom > /run/systemd > /usr/sbin/nologin
tcpdump > /nonexistent > /usr/sbin/nologin
avahi-autoipd > /var/lib/avahi-autoipd > /usr/sbin/nologin
```

```
3/3 ∨  +  ⬚  ⬚                           Tilix: saymaakter@CIS106VirtualBox: ~

1: saymaakter@CIS106VirtualBox: ~ ∨

systemd-oom > /run/systemd > /usr/sbin/nologin
tcpdump > /nonexistent > /usr/sbin/nologin
avahi-autoipd > /var/lib/avahi-autoipd > /usr/sbin/nologin
usbmux > /var/lib/usbmux > /usr/sbin/nologin
dnsmasq > /var/lib/misc > /usr/sbin/nologin
kernoops > / > /usr/sbin/nologin
avahi > /run/avahi-daemon > /usr/sbin/nologin
cups-pk-helper > /home/cups-pk-helper > /usr/sbin/nologin
rtkit > /proc > /usr/sbin/nologin
whoopsie > /nonexistent > /bin/false
sssd > /var/lib/sss > /usr/sbin/nologin
speech-dispatcher > /run/speech-dispatcher > /bin/false
nm-openvpn > /var/lib/openvpn/chroot > /usr/sbin/nologin
saned > /var/lib/saned > /usr/sbin/nologin
colord > /var/lib/colord > /usr/sbin/nologin
geoclue > /var/lib/geoclue > /usr/sbin/nologin
pulse > /run/pulse > /usr/sbin/nologin
gnome-initial-setup > /run/gnome-initial-setup/ > /bin/false
hplip > /run/hplip > /bin/false
gdm > /var/lib/gdm3 > /bin/false
saymaakter > /home/saymaakter > /bin/bash
vboxadd > /var/run/vboxadd > /bin/false
saymaakter@CIS106VirtualBox:~$ cut -d";" -f1 ~/Documents/Csv/cereal.csv
cut: /home/saymaakter/Documents/Csv/cereal.csv: No such file or directory
saymaakter@CIS106VirtualBox:~$ head -1 ~/Documents/Csv/cereal.csv
head: cannot open '/home/saymaakter/Documents/Csv/cereal.csv' for reading: No such file or directory
saymaakter@CIS106VirtualBox:~$ cut -d";" -f1,4 --output-delimeter=" calories = " ~/Documents/Csv/cereal.csv
cut: unrecognized option '--output-delimeter= calories = '
Try 'cut --help' for more information.
saymaakter@CIS106VirtualBox:~$
```

Question 3

```
4/5 ∨    +    ⊡    ⊏⊐              Tilix: saymaakter@CIS106VirtualBox: ~          Q    ≡    —    □    ✕

1: saymaakter@CIS106VirtualBox: ~ ∨                                                        □    ✕

saymaakter@CIS106VirtualBox:~$ sort cars.csv
sort: cannot read: cars.csv: No such file or directory
saymaakter@CIS106VirtualBox:~$ sort -o sorted_cars.csv cars.csv
sort: cannot read: cars.csv: No such file or directory
saymaakter@CIS106VirtualBox:~$ ls
challenge-Lab6   Documents   final-Sayma-Akter-.md   lab5.zip   Pictures   snap
Cheatsheets      Downloads   final-Sayma-Akter.md    lab6       Public     Templates
CIS106-22        finalexam   gitcommands.txt         lab6-q5    q#.1.png   Videos
Desktop          FinalExam   installprogram.sh       Music      scripts    website
saymaakter@CIS106VirtualBox:~$ wc -l sorted_cars.csv
wc: sorted_cars.csv: No such file or directory
saymaakter@CIS106VirtualBox:~$ wc -m sorted_cars.csv
wc: sorted_cars.csv: No such file or directory
saymaakter@CIS106VirtualBox:~$ cat sorted_cars.csv | tr ';' ','
cat: sorted_cars.csv: No such file or directory
saymaakter@CIS106VirtualBox:~$
```
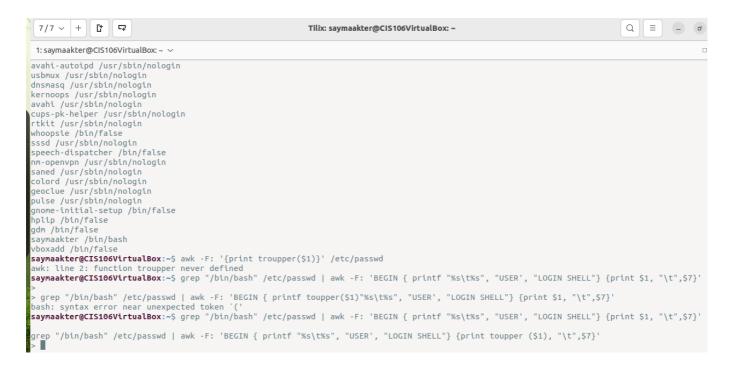
```
5/5 ∨    +    ⊡    ⊏⊐        ...ymaakter@CIS106VirtualBox: ~/Documents/Csv   Q    ≡    —    □    ✕

1: saymaakter@CIS106VirtualBox: ~/Documents/Csv ∨                                          □    ✕

saymaakter@CIS106VirtualBox:~$ sort ~/Documents/Csv/cars.csv
sort: cannot read: /home/saymaakter/Documents/Csv/cars.csv: No such file or directory
saymaakter@CIS106VirtualBox:~$ cd ~/Documents/Csv/ && sport -o sorted_cars.csv cars.csv
Command 'sport' not found, did you mean:
  command 'port' from snap port (1.10.0)
  command 'spost' from deb mmh (0.4-4)
  command 'psort' from deb psortb (3.0.6+dfsg-2build2)
  command 'snort' from deb snort (2.9.15.1-6build1)
  command 'spout' from deb spout (1.4-4)
  command 'sort' from deb coreutils (8.32-4.1ubuntu1)
See 'snap info <snapname>' for additional versions.
saymaakter@CIS106VirtualBox:~/Documents/Csv$ wc -1 sorted_cars.csv
wc: invalid option -- '1'
Try 'wc --help' for more information.
saymaakter@CIS106VirtualBox:~/Documents/Csv$ wc -m sorted_cars.csv
wc: sorted_cars.csv: No such file or directory
saymaakter@CIS106VirtualBox:~/Documents/Csv$ cat sorted_cars.csv | tr ';' ','
cat: sorted_cars.csv: No such file or directory
saymaakter@CIS106VirtualBox:~/Documents/Csv$ ▊
```

Question 4

```
 6/7 ∨    +    ☐    ☐                              Tilix: saymaakter@CIS106VirtualBox: ~

 1: saymaakter@CIS106VirtualBox: ~ ∨

saymaakter@CIS106VirtualBox:~$ grep -in 'love' pride-and-prejudice.txt
grep: pride-and-prejudice.txt: No such file or directory
saymaakter@CIS106VirtualBox:~$ grep -ic 'love' pride-and-prejudice.txt
grep: pride-and-prejudice.txt: No such file or directory
saymaakter@CIS106VirtualBox:~$ grep -ivc 'love' pride-and-prejudice.txt
grep: pride-and-prejudice.txt: No such file or directory
saymaakter@CIS106VirtualBox:~$ grep -io 'love' pride-and-prejudice.txt | wc -l
grep: pride-and-prejudice.txt: No such file or directory
0
saymaakter@CIS106VirtualBox:~$ grep -i '^dracula' dracula.txt
grep: dracula.txt: No such file or directory
saymaakter@CIS106VirtualBox:~$ grep -Ec "bash|zsh|fish|c" /etc/passwd
19
saymaakter@CIS106VirtualBox:~$ grep -Ecv "bash|zsh|fish|c" /etc/passwd
29
saymaakter@CIS106VirtualBox:~$
```

Question 5

```
7/7 ⌄  +  [⫶  ⊑                          Tilix: saymaakter@CIS106VirtualBox: ~

1: saymaakter@CIS106VirtualBox: ~ ⌄
saymaakter@CIS106VirtualBox:~$ ~/Documents/Books
bash: /home/saymaakter/Documents/Books: Is a directory
saymaakter@CIS106VirtualBox:~$ awk -F: '{print $1}' /etc/passwd
root
daemon
bin
sys
sync
games
man
lp
mail
news
uucp
proxy
www-data
backup
list
irc
gnats
nobody
systemd-network
systemd-resolve
messagebus
systemd-timesync
syslog
_apt
tss
uuidd
systemd-oom
```

```
7/7 ⌄  +  [⫶  ⊑                          Tilix: saymaakter@CIS106VirtualBox: ~

1: saymaakter@CIS106VirtualBox: ~ ⌄
saymaakter@CIS106VirtualBox:~$ awk -F: '{print $1,$NF}' /etc/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
list /usr/sbin/nologin
irc /usr/sbin/nologin
gnats /usr/sbin/nologin
nobody /usr/sbin/nologin
systemd-network /usr/sbin/nologin
systemd-resolve /usr/sbin/nologin
messagebus /usr/sbin/nologin
systemd-timesync /usr/sbin/nologin
syslog /usr/sbin/nologin
_apt /usr/sbin/nologin
tss /bin/false
uuidd /usr/sbin/nologin
systemd-oom /usr/sbin/nologin
tcpdump /usr/sbin/nologin
avahi-autoipd /usr/sbin/nologin
```

```
7/7  ⌄  +  ⎘  ⮒                          Tilix: saymaakter@CIS106VirtualBox: ~                          Q  ≡  —  ⧉

1: saymaakter@CIS106VirtualBox: ~ ⌄                                                                              ⬚

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
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
saymaakter /bin/bash
vboxadd /bin/false
saymaakter@CIS106VirtualBox:~$ awk -F: '{print troupper($1)}' /etc/passwd
awk: line 2: function troupper never defined
saymaakter@CIS106VirtualBox:~$ grep "/bin/bash" /etc/passwd | awk -F: 'BEGIN { printf "%s\t%s", "USER", "LOGIN SHELL"} {print $1, "\t",$7}'
>
> grep "/bin/bash" /etc/passwd | awk -F: 'BEGIN { printf toupper($1)"%s\t%s", "USER", "LOGIN SHELL"} {print $1, "\t",$7}'
bash: syntax error near unexpected token `('
saymaakter@CIS106VirtualBox:~$ grep "/bin/bash" /etc/passwd | awk -F: 'BEGIN { printf "%s\t%s", "USER", "LOGIN SHELL"} {print $1, "\t",$7}'

grep "/bin/bash" /etc/passwd | awk -F: 'BEGIN { printf "%s\t%s", "USER", "LOGIN SHELL"} {print toupper ($1), "\t",$7}'
> ▮
```

Question 6

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8/8 ⌄   +   ⎘   ⎙                           Tilix: saymaakter@CIS106VirtualBox: ~

1: saymaakter@CIS106VirtualBox: ~ ⌄

saymaakter@CIS106VirtualBox:~$ ~/Documents/Csv
bash: /home/saymaakter/Documents/Csv: Is a directory
saymaakter@CIS106VirtualBox:~$ grep -i 'honda' cars.csv | sed 's/Honda/tesla/g'
grep: cars.csv: No such file or directory
saymaakter@CIS106VirtualBox:~$ grep -i 'honda' cars.csv | sed '1,3 s/Honda/tesla/g'
grep: cars.csv: No such file or directory
saymaakter@CIS106VirtualBox:~$ sed 'Honda/d' cars.csv
sed: -e expression #1, char 2: extra characters after command
saymaakter@CIS106VirtualBox:~$ grep -i 'honda civic' cars.csv | sed G
grep: cars.csv: No such file or directory
saymaakter@CIS106VirtualBox:~$ ▯



2: saymaakter@CIS106VirtualBox: ~ ⌄

saymaakter@CIS106VirtualBox:~$ head -5 /etc/passwd
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
saymaakter@CIS106VirtualBox:~$ grep "/bin/bash" /etc/passwd
root:x:0:0:root:/root:/bin/bash
saymaakter:x:1000:1000:Sayma Akter,,,:/home/saymaakter:/bin/bash
saymaakter@CIS106VirtualBox:~$ grep "/bin/bash" /etc/passwd | wc -l
2
saymaakter@CIS106VirtualBox:~$ grep -c "/bin/bash"/ /etc/passwd
0
saymaakter@CIS106VirtualBox:~$ ▮
```

```
8/9 ⌄   +   ⎘   ⎙                     Tilix: saymaakter@CIS106VirtualBox: ~/Documents/Csv

1: saymaakter@CIS106VirtualBox: ~ ⌄

saymaakter@CIS106VirtualBox:~$ ~/Documents/Csv
bash: /home/saymaakter/Documents/Csv: Is a directory
saymaakter@CIS106VirtualBox:~$ grep -i 'honda' cars.csv | sed 's/Honda/tesla/g'
grep: cars.csv: No such file or directory
saymaakter@CIS106VirtualBox:~$ grep -i 'honda' cars.csv | sed '1,3 s/Honda/tesla/g'
grep: cars.csv: No such file or directory
saymaakter@CIS106VirtualBox:~$ sed 'Honda/d' cars.csv
sed: -e expression #1, char 2: extra characters after command
saymaakter@CIS106VirtualBox:~$ grep -i 'honda civic' cars.csv | sed G
grep: cars.csv: No such file or directory
saymaakter@CIS106VirtualBox:~$ ▯



2: saymaakter@CIS106VirtualBox: ~/Documents/Csv ⌄

saymaakter@CIS106VirtualBox:~/Documents/Csv$ grep -l
Usage: grep [OPTION]... PATTERNS [FILE]...
Try 'grep --help' for more information.
saymaakter@CIS106VirtualBox:~/Documents/Csv$ grep -l 'ford' cars.csv
grep: cars.csv: No such file or directory
saymaakter@CIS106VirtualBox:~/Documents/Csv$ grep -l 'ford' cars.csv | wc -l
grep: cars.csv: No such file or directory
0
saymaakter@CIS106VirtualBox:~/Documents/Csv$ clear▮
```

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8/9 ∨  +  ⬚  ⬚                    Tilix: saymaakter@CIS106VirtualBox: ~/Documents/Csv              Q  ≡  ─  ▢  ✕

1: saymaakter@CIS106VirtualBox: ~ ∨                                                              A̲  ▢  ✕

saymaakter@CIS106VirtualBox:~$ ~/Documents/Csv
bash: /home/saymaakter/Documents/Csv: Is a directory
saymaakter@CIS106VirtualBox:~$ grep -i 'honda' cars.csv | sed 's/Honda/tesla/g'
grep: cars.csv: No such file or directory
saymaakter@CIS106VirtualBox:~$ grep -i 'honda' cars.csv | sed '1,3 s/Honda/tesla/g'
grep: cars.csv: No such file or directory
saymaakter@CIS106VirtualBox:~$ sed 'Honda/d' cars.csv
sed: -e expression #1, char 2: extra characters after command
saymaakter@CIS106VirtualBox:~$ grep -i 'honda civic' cars.csv | sed G
grep: cars.csv: No such file or directory
saymaakter@CIS106VirtualBox:~$ ▯


2: saymaakter@CIS106VirtualBox: ~/Documents/Csv ∨         ▢  ✕   3: saymaakter@CIS106VirtualBox: ~/Documents/Csv ∨          ▢  ✕

Try 'grep --help' for more information.                       saymaakter@CIS106VirtualBox:~$ cd Documents/Csv/
saymaakter@CIS106VirtualBox:~/Documents/Csv$ grep -l 'ford' cars.cs  saymaakter@CIS106VirtualBox:~/Documents/Csv$ awk -F';' 'NR' > 3 {print $1}' c
/                                                             ereal.csv
grep: cars.csv: No such file or directory                     >
saymaakter@CIS106VirtualBox:~/Documents/Csv$ grep -l 'ford' cars.cs  > awk -F';' 'NR' > 3 {print $1}' cereal.csv
/ | wc -l                                                     awk: cannot open {print (No such file or directory)
grep: cars.csv: No such file or directory                      NR > 3 {print $1}: command not found
)                                                             saymaakter@CIS106VirtualBox:~/Documents/Csv$ awk -F';' 'NR' > 3 {print $1}' c
saymaakter@CIS106VirtualBox:~/Documents/Csv$ clear▯            ereal.csv | sort
                                                              >
                                                              >
                                                              >
                                                              > ▮
```

Challenge Question

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9 / 9 ∨  +  ⬚  ⬚                        Tilix: saymaakter@CIS106VirtualBox: ~

1: saymaakter@CIS106VirtualBox: ~ ∨

saymaakter@CIS106VirtualBox:~$ head -1 cereal.csv
head: cannot open 'cereal.csv' for reading: No such file or directory
saymaakter@CIS106VirtualBox:~$ awk 'NR > 3 {print}' cars.csv | sort > cars-no-header.csv
awk: cannot open cars.csv (No such file or directory)
saymaakter@CIS106VirtualBox:~$ cat cars-no-header.csv | tr ';' ',' | awk -F, '{print $1,$NF}'
saymaakter@CIS106VirtualBox:~$ cat cars-no-header.csv | tr ';' ',' | awk -F, '{print $1,$NF} > cars-brands.csv
> ls
> grep ";US" cars.csv | awk -F ';' '{print $1}' | sort > americanCars.csv
> grep ";Japan" cars.csv | awk -F ';' '{print $1}' | sort > americanCars.csv
> cat americanCars.csv
> ▮
```