

## Question 1

```
1/1 + [ ] [ ]
Tilix: otzi@cis106: ~/Documents
1: otzi@cis106: ~/Documents
otzi@cis106:~$ echo "All files in my home directory" > file_report.txt
otzi@cis106:~$ rm file_report.txt
otzi@cis106:~$ cd Documents/
otzi@cis106:~/Documents$ echo "All files in my home directory" > file_report.txt
otzi@cis106:~/Documents$ ls -A | tr '\n' ',' >> file_report.txt
otzi@cis106:~/Documents$ cat file_report.txt
All files in my home directory
AlphaProject,.bash_history,.bash_logout,.bashrc,.bashrc.save,.cache,cars-brands.csv,case,challenge-Lab6,cis106,.config,Desktop,Documents,.dotnet,Downlo
ads,ext.txt,.gitconfig,.gnupg,guacamole-server-1.5.4,guacamole-server-1.5.4.tar.gz,guacamole-server-1.5.4.tar.gz.1,.ICEauthority,lab6,.lessht,.local,.
mozilla,music,Music,.pcsc10,.pcsc11,Pictures,.pki,practice2.sh,practice3.sh,practice4.sh,practicetest,.profile,ProjectPhoenix,Public,scripts,shellgpt,s
nap,.ssh,.sudo_as_admin_successful,systeminfo2.sh,systeminfo.sh,Templates,test.csv,test_env.sh,tfi.sh,.themes,thinclient_drives,.thunderbird,UsersExpor
t.csv,UsersExport.tsv,.var,Videos,.vnc,.vscode,website,website-lab5,.wget-hsts,wget-log,WhiteSur-gtk-theme,wildcard_extra_practice,wildcardpractice,.Xa
otzi@cis106:~/Documents$
```

## Question 2

```
1/1 + - Git otzi@cis106: ~/Documents
1: otzi@cis106: ~/Documents
otzi@cis106:~/Documents$ echo "Total number of files in my home directory" >> file_report.txt
otzi@cis106:~/Documents$ ls -Ap ~ | grep -v / | wc -l >> file_report.txt
otzi@cis106:~/Documents$ echo "Total number of directories in my home directory" >> file_report.txt
otzi@cis106:~/Documents$ ls -Ap ~ | grep '/' | wc -l >> file_report.txt
otzi@cis106:~/Documents$ tail file_report.txt
All files in my home directory
AlphaProject,.bash_history,.bash_logout,.bashrc,.bashrc.save,.cache,cars-brands.csv,case,challenge-Lab6,cis106,.config,Desktop,Documents,.dotnet,Downlo
ads,ext.txt,.gitconfig,.gnupg,guacamole-server-1.5.4,guacamole-server-1.5.4.tar.gz,guacamole-server-1.5.4.tar.gz.1,.ICEauthority,lab6,.lessht,.local,.
mozilla,music,Music,.pcsc10,.pcsc11,Pictures,.pki,practice2.sh,practice3.sh,practice4.sh,practicetest,.profile,ProjectPhoenix,Public,scripts,shellgpt,s
nap,.ssh,.sudo_as_admin_successful,systeminfo2.sh,systeminfo.sh,Templates,test.csv,test_env.sh,tfi.sh,.themes,thinclient_drives,.thunderbird,UsersExpor
t.csv,UsersExport.tsv,.var,Videos,.vnc,.vscode,website,website-lab5,.wget-hsts,wget-log,WhiteSur-gtk-theme,wildcard_extra_practice,wildcardpractice,.Xa
uthority,.xorgxrdp.10.log,.xorgxrdp.10.log.old,.xorgxrdp.11.log,.xorgxrdp.11.log.old,.xsession,.xsession-errors,.xsessionrc,Total number of files in my
home directory
34
Total number of directories in my home directory
40
otzi@cis106:~/Documents$
```

### Question 3

```
1/1 + [ ] [ ]  
Tilix: otzi@cis106: ~  
  
1: otzi@cis106: ~/Documents  
otzi@cis106:~/Documents$ awk -F: '{print $1}' /etc/passwd  
root  
daemon  
bin  
sys  
sync  
games  
--  
  
4: otzi@cis106: ~  
otzi@cis106:~$ awk -F: '{print $1, $7, $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  
  
5: otzi@cis106: ~  
otzi@cis106:~$ awk -F: '{print "The user: " $1 " logs in with: " $7 " and i  
s home dir is: " $6}' /etc/passwd > report_users.txt  
otzi@cis106:~$ grep "/bin/bash" /etc/passwd | awk -F: '{print $1 " = " $7}'  
>> report_users.txt  
otzi@cis106:~$  
  
2: otzi@cis106: ~  
otzi@cis106:~$ 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  
  
3: otzi@cis106: ~  
otzi@cis106:~$ awk -F: '{print "The user: " $1 " logs in with: " $7 " and i  
s home dir is: " $6}' /etc/passwd  
The user: root logs in with: /bin/bash and is home dir is: /root  
The user: daemon logs in with: /usr/sbin/nologin and is home dir is: /usr/s  
bin  
The user: bin logs in with: /usr/sbin/nologin and is home dir is: /bin  
The user: sys logs in with: /usr/sbin/nologin and is home dir is: /dev  
The user: sync logs in with: /bin/sync and is home dir is: /bin  
The user: games logs in with: /usr/sbin/nologin and is home dir is: /usr/ga  
mes  
The user: man logs in with: /usr/sbin/nologin and is home dir is: /var/cach  
e/man  
The user: lp logs in with: /usr/sbin/nologin and is home dir is: /var/spool  
/lpd  
The user: mail logs in with: /usr/sbin/nologin and is home dir is: /var/ma
```

### Challenge Question

```
1/1 + - [ ] [ ]
Tilix: otzi@cis106: ~/Documents/Csv
1: otzi@cis106: ~/Documents/Csv$ head -n1 cars.csv > honda1.csv
otzi@cis106:~/Documents/Csv$ grep -i "honda" cars.csv >> honda1.csv
otzi@cis106:~/Documents/Csv$ sed 's/;/,/g' honda1.csv >> honda2.csv
otzi@cis106:~/Documents/Csv$ echo "model,cylinders,hp" > Honda3.csv
otzi@cis106:~/Documents/Csv$ tail -n +2 honda2.csv | awk -F, '{print $1 " ",
" $3 ", " $5}]' | sed 's/,/,/g' | sed 's/Honda/Honda/g' >> Honda3.csv
otzi@cis106:~/Documents/Csv$ batcat Honda3.csv

2: otzi@cis106: ~/Documents/Csv$ cat honda1.csv
Car;MPG;Cylinders;Displacement;Horsepower;Weight;Acceleration;Model;Origin
otzi@cis106:~/Documents/Csv$ cat 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
otzi@cis106:~/Documents/Csv$ sudo apt install bat
[sudo] password for otzi:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
bat is already the newest version (0.19.0-1ubuntu0.1).
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
otzi@cis106:~/Documents/Csv$

...zi@cis106: ~/Documents/Csv$ tail -n
+2 honda2.csv | awk -F, '{print $1 " ",
" $3 ", " $5}]'
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

...i@cis106: ~/Documents/Csv$ batcat H
onda3.csv
File: Honda3.csv
1 model,cylinders,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
```

## Commands Used

```
1/1 + [icons] [refresh] [close]
Tilix: otzi@cis106: ~/Downloads/broken

1: otzi@cis106: ~/Downloads/broken
otzi@cis106:~/Downloads/broken$ grep -iE 'href=|src=' index.html
<link rel="icon" type="image/x-icon" href="assets/favicon.ico" />
<link rel="preconnect" href="https://fonts.googleapis.com" />
<link rel="preconnect" href="https://fonts.gstatic.com" crossorigin
/>
<link href="https://fonts.googleapis.com/css2?family=Plus+Jakarta+Sans:wght@100;200;300;400;500;600;700;800;900&display=swap" rel="stylesheet" />
<link href="https://cdn.jsdelivr.net/npm/bootstrap-icons@1.8.1/fonts/bootstrap-icons.css" rel="stylesheet" />
<link href="css/styles.css" rel="stylesheet" />
<a class="navbar-brand" href="index.html"><span class="fw-bolder text-primary">Start Bootstrap</span></a>
<li class="nav-item"><a class="nav-link" href="index.html">Home</a></li>
<li class="nav-item"><a class="nav-link" href="resume.html">Resume</a></li>
<li class="nav-item"><a class="nav-link" href="projects.html">Projects</a></li>
<li class="nav-item"><a class="nav-link" href="contact.html">Contact</a></li>
<a class="btn btn-primary btn-lg px-5 py-3 me-sm-3 fs-6 fw-bolder" href="resume.html">Resume</a>
<a class="btn btn-outline-dark btn-lg px-5 py-3 fs-6 fw-bolder" href="projects.html">Projects</a>

<a class="text-gradient" href="#!"><i class="bi bi-twitter"></i></a>
<a class="text-gradient" href="#!"><i class="bi bi-linkedin"></i></a>
<a class="text-gradient" href="#!"><i class="bi bi-github"></i></a>

2: otzi@cis106: ~/Downloads/broken
otzi@cis106:~/Downloads/broken$ mkdir css js img
otzi@cis106:~/Downloads/broken$ mv styles.css css/
otzi@cis106:~/Downloads/broken$ mv scripts.js js/
otzi@cis106:~/Downloads/broken$ mv profile.png img/
otzi@cis106:~/Downloads/broken$ firefox index.html
Command 'firefox' not found, but can be installed with:
sudo snap install firefox # version 138.0.1-1, or
sudo apt install firefox # version 1:1snap1-0ubuntu2
See 'snap info firefox' for additional versions.
otzi@cis106:~/Downloads/broken$
```

## Working Website in Firefox

