Question 1

```
                                   ojsevillano@cis106vm: ~/FinalExam                    ≡  —  □
ojsevillano@cis106vm:~$ mkdir FinalExam
ojsevillano@cis106vm:~$ cd FinalExam/
ojsevillano@cis106vm:~/FinalExam$ touch final-oswaldo-sevillano.md
ojsevillano@cis106vm:~/FinalExam$ code .
ojsevillano@cis106vm:~/FinalExam$ □
```

```
ojsevillano@cis106vm:~$ ls -lX midtermfiles3/question1/
total 136
-rw-rw-r-- 1 ojsevillano ojsevillano 10139 Dec 14 16:31 linux.docx
-rw-rw-r-- 1 ojsevillano ojsevillano 10319 Dec 14 16:31 macos.docx
-rw-rw-r-- 1 ojsevillano ojsevillano 10203 Dec 14 16:31 windows.docx
-rw-rw-r-- 1 ojsevillano ojsevillano   512 Dec 14 16:31 about.html
-rw-rw-r-- 1 ojsevillano ojsevillano   512 Dec 14 16:31 contact.html
-rw-rw-r-- 1 ojsevillano ojsevillano   512 Dec 14 16:31 index.html
-rw-rw-r-- 1 ojsevillano ojsevillano 16067 Dec 14 16:31 linux.pdf
-rw-rw-r-- 1 ojsevillano ojsevillano 18931 Dec 14 16:31 macos.pdf
-rw-rw-r-- 1 ojsevillano ojsevillano 17199 Dec 14 16:31 windows.pdf
-rw-rw-r-- 1 ojsevillano ojsevillano  3997 Dec 14 16:31 MacOS_logo.png
-rw-rw-r-- 1 ojsevillano ojsevillano   699 Dec 14 16:31 Ubuntu-logo.png
-rw-rw-r-- 1 ojsevillano ojsevillano   486 Dec 14 16:31 Windows_logo.png
-rw-rw-r-- 1 ojsevillano ojsevillano    41 Dec 14 16:31 hello.py
-rw-rw-r-- 1 ojsevillano ojsevillano   551 Dec 14 16:31 basicInfo.txt
-rw-rw-r-- 1 ojsevillano ojsevillano   609 Dec 14 16:31 linux.txt
-rw-rw-r-- 1 ojsevillano ojsevillano   978 Dec 14 16:31 macos.txt
-rw-rw-r-- 1 ojsevillano ojsevillano   866 Dec 14 16:31 windows.txt
ojsevillano@cis106vm:~$ cp  midtermfiles3/question1/*.{docx,pdf,html} FinalExam
/q1/
```

```
ojsevillano@cis106vm:~/FinalExam/q1$ ls -lGghs *.docx
12K -rw-rw-r-- 1 10K Dec 14 17:00 linux.docx
12K -rw-rw-r-- 1 11K Dec 14 17:00 macos.docx
12K -rw-rw-r-- 1 10K Dec 14 17:00 windows.docx
```

```
ojsevillano@cis106vm:~/FinalExam/q1$ ls -lGghs *.docx *.html *.pdf
4.0K -rw-rw-r-- 1 512 Dec 14 17:00 about.html
4.0K -rw-rw-r-- 1 512 Dec 14 17:00 contact.html
4.0K -rw-rw-r-- 1 512 Dec 14 17:00 index.html
 12K -rw-rw-r-- 1 10K Dec 14 17:00 linux.docx
 16K -rw-rw-r-- 1 16K Dec 14 17:00 linux.pdf
 12K -rw-rw-r-- 1 11K Dec 14 17:00 macos.docx
 20K -rw-rw-r-- 1 19K Dec 14 17:00 macos.pdf
 12K -rw-rw-r-- 1 10K Dec 14 17:00 windows.docx
 20K -rw-rw-r-- 1 17K Dec 14 17:00 windows.pdf
```

Question 2

```
1: ojsevillano@cis106vm: ~ ∨                                                    □
ojsevillano@cis106vm:~$ ls midtermfiles3/question2/
bg-callout.jpg    favicon.ico   portfolio-1.jpg   portfolio-3.jpg   scripts.js
bg-masthead.jpg   index.html    portfolio-2.jpg   portfolio-4.jpg   styles.css
ojsevillano@cis106vm:~$
```

```
ojsevillano@cis106vm:~$ grep ".jpg" midtermfiles3/question2/index.html
                        <img class="img-fluid" src="assets/img/portfolio-1.
jpg" alt="..." />
                        <img class="img-fluid" src="assets/img/portfolio-2.
jpg" alt="..." />
                        <img class="img-fluid" src="assets/img/portfolio-3.
jpg" alt="..." />
                        <img class="img-fluid" src="assets/img/portfolio-4.
jpg" alt="..." />
```

```
ojsevillano@cis106vm:~$ mv midtermfiles3/question2/{portfolio-1.jpg,portfolio-2
.jpg,portfolio-3.jpg,portfolio-4.jpg} midtermfiles3/question2/assets/img/
```

Question 3

```
ojsevillano@cis106vm:~$ cat midtermfiles3/question3/csv/users.csv| tr ';' ','
Username, Identifier,One-time password,Recovery code,First name,Last name,Depar
tment,Location
booker12,9012,12se74,rb9012,Rachel,Booker,Sales,Manchester
grey07,2070,04ap67,lg2070,Laura,Grey,Depot,London
johnson81,4081,30no86,cj4081,Craig,Johnson,Depot,London
jenkins46,9346,14ju73,mj9346,Mary,Jenkins,Engineering,Manchester
smith79,5079,09ja61,js5079,Jamie,Smith,Engineering,Manchesterojsevillano@cis106
vm:~$
```