Needed to change #include "functions.h" to #include "src/functions.h" so it can look for the file in the src directory since the driver.c is in the root directory.

Screenshot 1

Making the makefile

```
[15:04:17] mje2@joey12:~ [18] cd CPSC2310/
[15:04:23] mje2@joey12:~/CPSC2310 [19] ls
[15:04:24] mje2@joey12:~/CPSC2310 [20] touch makefile
[15:04:32] mje2@joey12:~/CPSC2310 [21] ls
| makefile
[15:04:33] mje2@joey12:~/CPSC2310 [22]
```

Screenshot 2

Inputting in the code for the makefile

Screenshot 3

Make and make build command

```
[15:08:18] mje2@joey12:~/CPSC2310 [23] vim makefile

[15:30:34] mje2@joey12:~/CPSC2310 [24] make

HELLO WORLD!

All done

[15:57:56] mje2@joey12:~/CPSC2310 [25] make build

HELLO WORLD!

[16:49:59] mje2@joey12:~/CPSC2310 [26]
```

Screenshot 4

Created the tar, untar and list targets and ran them

```
[20:39:52] mje2@joev11:~/CPSC2310/Lab3 [11] make list
ls -la
total 20
drwx--x--x 3 mje2 cuuser 4096 Sep 18 20:39 .
drwx--x--x 3 mje2 cuuser 4096 Sep 18 20:32 ...
-rw----- 1 mje2 cuuser 631 Sep 17 08:05 driver.c
-rw----- 1 mje2 cuuser 164 Sep 18 20:39 makefile
drwx--x--x 2 mje2 cuuser 4096 Sep 18 20:33 src
[20:39:57] mje2@joey11:~/CPSC2310/Lab3 [12] make tar
tar -czvf test.tar.gz *
driver.c
makefile
src/
src/functions.c
src/functions.h
[20:40:06] mje2@joey11:~/CPSC2310/Lab3 [13] make untar
tar -xzvf test.tar.gz
driver.c
makefile
src/
src/functions.c
src/functions.h
[20:40:55] mje2@joev11:~/CPSC2310/Lab3 [14]
```

Screenshot 5

Changed the all target to have build tar and list and ran

```
[20:40:55] mje2@joey11:~/CPSC2310/Lab3 [14] vim makefile
[20:42:48] mje2@joey11:~/CPSC2310/Lab3 [15] make all
HELLO WORLD!
tar -czvf test.tar.gz *
driver.c
makefile
src/
src/functions.c
src/functions.h
test.tar.gz
ls -la
total 24
drwx--x--x 3 mje2 cuuser 4096 Sep 18 20:42 .
drwx--x--x 3 mje2 cuuser 4096 Sep 18 20:32 ...
-rw----- 1 mje2 cuuser 631 Sep 17 08:05 driver.c
-rw----- 1 mje2 cuuser 173 Sep 18 20:42 makefile
drwx--x--x 2 mje2 cuuser 4096 Sep 18 20:33 src
-rw----- 1 mje2 cuuser 1416 Sep 18 20:43 test.tar.gz
All Done
[20:43:11] mje2@joev11:~/CPSC2310/Lab3 [16]
```

Updated the makefile to make gcc

```
make: *** [makefile:18: driver.o] Error 1
[21:03:03] mje2@joey11:~/CPSC2310/Lab3 [40] make
gcc -Wall -g -Isrc -c src/functions.c -o src/functions.o
gcc -Wall -g -Isrc -c driver.c -o driver.o
gcc src/functions.o driver.o -o out -lm
All Done!
[21:04:44] mje2@joey11:~/CPSC2310/Lab3 [41]
```

Screenshot 7

Ran make which to test out the wildcard commands

```
[21:04:44] mje2@joey11:~/CPSC2310/Lab3 [41] make which FOUND SOURCES: driver.c src/functions.c FOUND HEADERS: src/functions.h [21:07:56] mje2@joey11:~/CPSC2310/Lab3 [42]
```