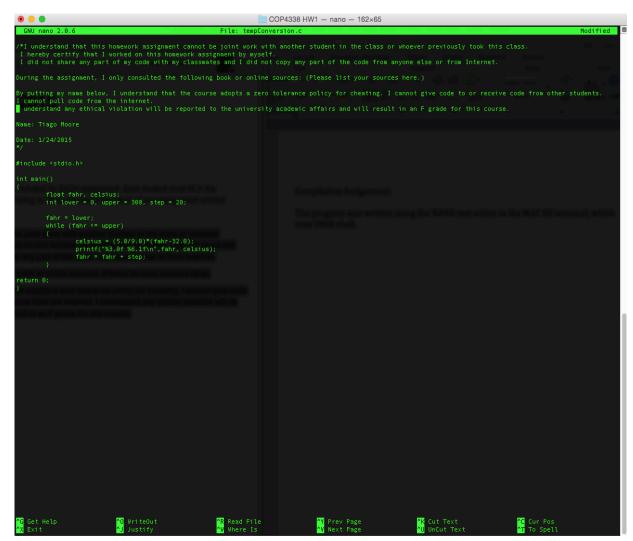
## 1) Ten Major Differences Java to C

- C can be considered a low level language
- C does not have any object-oriented programming
- C allows for procedural and functional programming.
- In Java, all types are always passed by value in a function and C supports passing by pointers, reference, and value.
- Memory management. Java implements a garbage collector, and in c memory management is done manually with the new and delete key words.
- C allows for external variable declaration using #define
- There are a lot less libraries than in java, so there are no operations that manipulate an entire array or string.
- C provides to input and output facilities; there are no read or write statements.
- There are no built-in file access methods
- There is no multiprogramming, parallel operations, synchronization or coroutines.

#2)



## The Program sucessully ran:

```
preprocessor - Wikipedia, the free encyclopedia
                                                                                                                                                                                                                                                                                             COP4338 HW1 - bash - 162×65
      Is-MacBook-Pro:COP4338 HW1 tmoore$ is -l
total 32
-rwxr-xr-x 1 tmoore staff 8456 Jan 24 19:80 a.out
-rwxr-xr-x 1 tmoore staff 8456 Jan 24 19:80 tempConversion.c
-rwxr--r-- 1 tmoore staff 1899 Jan 24 19:85 tempConversion.c

Is-MacBook-Pro:COP4338 HW1 tmoore$ is
.out tempConversion.c

Is-MacBook-Pro:COP4338 HW1 tmoore$ cat tempConversio
     By putting my name below, I understand that the course adopts a zero tolerance policy for cheating. I cannot give code to or receive code from other students.
I cannot pull code from the internet.
I understand any ethical violation will be reported to the university academic affairs and will result in an F grade for this course.
     Name: Tiago Moore
                                   float fahr, celsius;
int lower = 0, upper = 300, step = 20;
                                   fahr = lower;
while (fahr <= upper)</pre>
                                                      celsius = (5.0/9.0)*(fahr-32.0);
printf("%3.0f %6.1f\n",fahr, celsius);
fahr = fahr + step;
        s-MacBook-Pro:COP4338 HW1 tmoore$
```

## Changed code to implement a do while loop:

## The program successfully ran and compiled.

```
rs-MacBook-Pro:COP4338 HW1 tmoore$ gcc tempConversion.c
rs-MacBook-Pro:COP4338 HW1 tmoore$ ./a.out
 0 -17.8
       15.6
       26.7
       37.8
120
       48.9
140
       60.0
160
       71.1
180
200
       93.3
220
     104.4
240
260 126.7
280 137.8
300 148.9
s-MacBook-Pro:COP4338 HW1 tmoore$ 📗
```