## **COSC 1436, Professor Clark**

## Assignment 6a: 6 points

## Write a Program: Temperature Table

The formula for converting a temperature from Fahrenheit to Celsius is:

$$C = \frac{5}{9}(F - 32)$$

Where *F* is the Fahrenheit temperature and *C* is the Celsius temperature.

Write a function named *celsiusConverter* that accepts a Fahrenheit temperature as a parameter. The function should return the converted temperature in Celsius. Demonstrate the calling of this function by calling it in a loop that passes the values 0-100 in increments of 10 as arguments and displays the return values in a table (see example output).

Your program should have the following:

- 3 comment lines (description of the program, author, and date).
- A function named *celsiusConverter* that calculates and returns a single converted temperature (3 points)
- A prototype for the function (1 point)
- Demonstrate the calling of the function in a loop, passing the values 0-100 in increments of 10 (1 point)
- Display the output in a formatted table of values (1 point)

Turn in a .txt file to Canvas with your name, section number, all output, and source code.

## **Example Output:**

This program converts Fahrenheit temperatures to Celsius.

Fahrenheit	Celsius
0	-17.8
10	-12.2
20	-6.7
30	-1.1
40	4.4
50	10.0
60	15.6
70	21.1
80	26.7
90	32.2
100	37.8