

Worksheet on Functions and Classes

- 1) Write the definition for a function called **FtoC** which converts fahrenheit to celsius - use the formula $C = 1.8 * F + 32$. Do this for:
- a non-class function, using only parameters for the **fahrenheit** and **celsius** (no return value)
- b) a non-class function, but using a return value for the **Celsius**
- c) a class function, assuming a Temperature class with both **fahrenheit** and **celsius** declared as data members for the class

- 2) Write main program **calls** to each of the above functions, assuming you have variables called **temp_in_f** and **temp_in_c** declared in the main program.
- a) (call to the non-class function using parameters only)
 - b) (call to the non-class function using a return value)
 - c) (call to the class function - assume another main program variable **some_temp** declared as an instance variable of class Temperature)
- 3) Write **prototypes** for each function and **state where it should be placed.**
- a) a non-class function, using only parameters for the **fahrenheit** and **celsius** (no return value)
 - b) a non-class function, but using a return value for the **Celsius**
 - c) a class function, assuming a Temperature class with both **fahrenheit** and **celsius** declared as data members for the class