

Comp 110-003 - Assignment 3:

Temperature Spreadsheet

Date Assigned: Fri Sep 16, 2011

Completion Date: Fri Sep 23, 2011 (midnight)

In this assignment, you will create spreadsheet versions of the temperature converter and average classes you created for the first two assignments. The assignment consists of three parts.

Part 1: TemperatureSpreadsheet Class

Write and test a class called `TemperatureSpreadsheet`, which defines an editable property specifying the value of a temperature in Centigrade and a read-only property specifying its value in Fahrenheit, as shown below. Your property types should be **double**.

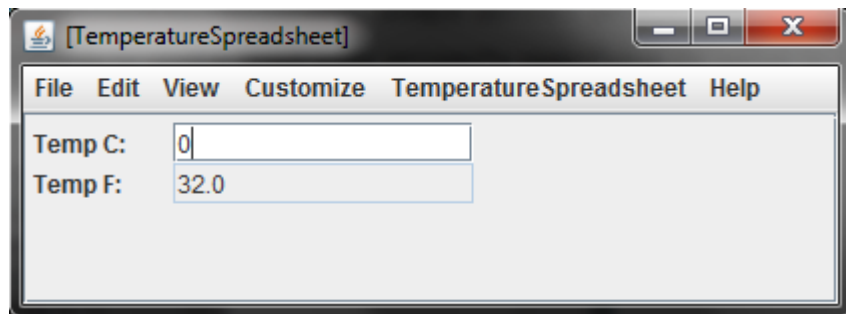


Figure 1. ObjectEditor edit window for a `TemperatureSpreadsheet` object

Part 2: Tracing Method Invocations

Insert `print` statements in the `TemperatureSpreadsheet` class to print on the console the value of each instance variable defined by the above class after it is assigned a new value. You are free to determine the format of the output, but make sure it is precise and meaningful.

Part 3: Averaging Temperatures Values

Write and test a function called `average` in the `TemperatureSpreadsheet` class, which takes a single **double** parameter, a temperature in Centigrade. The function should return the average (in Fahrenheit)

of this temperature and the temperature value stored in the instance of the `TemperatureSpreadsheet` class on which the method is being invoked.

Getting Help

If you have trouble with using a computer, contact me with any problems.

Before you seek help, look carefully at the solved examples in chapter 3, which are similar to this assignment.

Good luck!