Comp 110-003 - Assignment 1: Writing a Temperature Converter

Date Assigned: Weds. Aug 31, 2011

Completion Date: Weds. Sep 7, 2011 (midnight)

In this assignment, you will use Eclipse and ObjectEditor to develop a simple Java program that converts a Centigrade temperature to the equivalent Fahrenheit temperature.
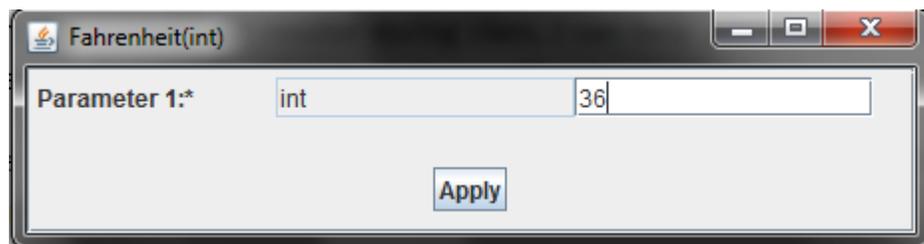
Software issues:

During the lecture on Friday, Aug 26, 2011, we will installed Java, ObjectEditor, and Eclipse on your laptops. The installation will make your computer ready for starting the assignment. If you miss this lecture, you are responsible for ensuring for the installation. If you were present, but either own a Mac or encountered a problem that I could not resolve during class, I can help you during office hours. If the office hours are inconvenient for you, I can meet you in my office by appointment.
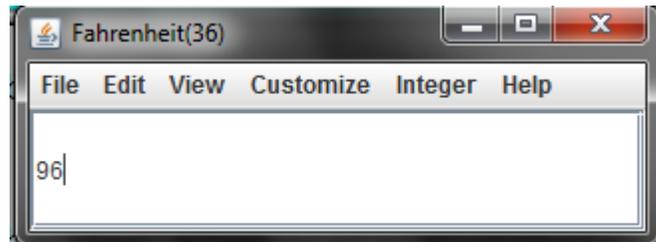
If you feel there are mistakes in this assignment, check the web page and Blackboard for corrections, and report them to us if they have not been made.

Assignment Specification

Write and test a function, `fahrenheit()`, that takes a parameter an integer centigrade temperature and converts it into the equivalent integer Fahrenheit temperature, as shown in the figures below. Assuming F and C are equivalent Fahrenheit and centigrade temperatures, respectively, the conversion formula is:

(a) Entering Centigrade Temperature

(b) Entering Centigrade Temperature

$$F = C * 9/5 + 32$$

Implement the function in the class `ATemperatureConverter`. Use the Eclipse programming environment to develop the class and execute the function.

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 2, which are similar to this assignment.

Good luck!