# Fahrenheit To Celsius

**The goal for this exercise** is try out some more unit tests, on a relatively simple piece of code.

In the starter project, fill in the Fahrenheit\_To\_Celsius. RunExercise method, so that it will ask the user for a temperature (in Fahrenheit), and convert that temperature to a Celsius. According to <http://www.albireo.ch/temperatureconverter/formula.htm>, the formula is:



You should make sure to check your work by testing your program with a variety of values. In order to that, you will probably want to give your program a Fahrenheit temperature to convert to Celsius, then use a calculator to double-check that the program is giving you the correct answer.

Once you’ve got that done, make sure that your code passes all the tests in Test\_Fahrenheit\_To\_Celsius class. Because this exercise is being auto-graded, you’ll need to copy the following transcript for output to the user (and expected input) (user input in **bold underline**)

Temperature (in Fahrenheit)?

**32**

Temperature (in Celcius) is 0

Another example:

Temperature (in Fahrenheit)?

**41**

Temperature (in Celcius) is 5

Another example:

Temperature (in Fahrenheit)?

**41.5**

Temperature (in Celcius) is 5.2777777777777

(You may get a slightly different number, instead of 5.2777777777777 exactly)

**What you need to do for this exercise:**

1. Implement the Fahrenheit\_To\_Celsius. RunExercise method, as described above.
2. Make sure that all the tests in the Test\_Fahrenheit\_To\_Celsius class pass.
   1. Note that the tests assume that you’re working with double-precision floating point values.
   2. In order to get the tests to pass you'll need to make sure that your print out exactly 1 digit after the decimal point, rounded off.  
      There's comments and example code in the starter project that does this, so please make sure to read through the comments in the Fahrenheit\_To\_Celsius. RunExercise() method.