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6.092 Introduction to Software Engineering in Java
January (IAP) 2009

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6.092: Assignment 1

In this assignment, you will create a program that converts a temperature from Fahrenheit to Celsius.

Part One

1. Create a new class called `TempConverter`.
2. Copy and paste the following initial version:

```
class TempConverter {  
    public static void main(String[] arguments) {  
        double fahrenheit = 90;  
        double celsius = fahrenheit * 42 / (13 - 7);  
        System.out.println("The value is " + fahrenheit + "C");  
    }  
}
```

3. Compile it (`javac TempConverter.java`).
4. Run it (`java TempConverter`).

What is the output of the unmodified program? Include this as a comment in your submission.

Part Two

Modify the example program to compute the Celsius value for the variable `fahrenheit`, storing it in a variable called `celsius`. The Celsius value must be output to the screen. The formula (using Math notation, not Java) is:

$$C = (5 \div 9) \times (F - 32)$$

Note: The correct output is 32.22222.

Submission Instructions

Submit your `TempConverter.java` file. Include the output from Part One and your program from Part Two.