This document was distributed by LearnByTheByte.com to support a Udemy purchase.

Unauthorized reproduction or distribution is prohibited.

## INTRODUCTION TO JAVA FOR NON-C PROGRAMMERS

## **LABS**

Write a program that creates two variables to hold the temperature in Fahrenheit and in Celsius. Initialize the Fahrenheit variable with 212 degrees. Determine the Celsius temperature by using the following formula:

Celsius = (Fahrenheit minus 32) times 5 divided by 9.

(Hint: Do the calculation in floating point and convert the result to an **int**.) (Solution: *Fahrenheit.java*)

- Write a program that stores numeric values for the total daily rainfall for one week (this will take 7 variables). Print the daily rainfall amounts and calculate and print the total rainfall for the week, as well as the average rainfall for the week.

  (Solution: *Rain.java*)
- Write a program that has two integer variables say, **i** and **j**. Write the program to round off **i** to the next largest multiple of the other integer, **j**.

```
NextMultiple = i + j - i % j
```

Test your results with the following test data: round off 256 days to the next largest number of days that is evenly divisible by a 7-day week. With  $\mathbf{i} = 256$  and  $\mathbf{j} = 7$ , the next largest number of days divisible into 7-day weeks is 259.

(Solution: *NextMult.java*)

Page 98 Rev 5.2.1 © 2013 ITCourseware, LLC