

## ITSE 2321 – OBJECT-ORIENTED PROGRAMMING JAVA

### Program 1 – Introduction to Java Applications

Write a program that computes the tax and tip on a restaurant bill for a patron with a \$44.50 meal charge. The tax should be 8.25 percent of the meal cost. The tip should be 15 percent of the total after adding the tax. Display the meal cost, tax amount, tip amount, and the total bill on the screen. Use the template, **Program1-Template.java**, to complete this programming assignment.

Download the attached file, **Program1-template.java**. Rename it as **Program1.java**. Any line that starts with the characters `"/"` is a comment in Java and the compiler ignores it. Remove the angle brackets, `"<"` and `">"`, in any line that starts with `"/"` (lines 1 - 19) and replace it with the appropriate information.

Remove the angle brackets, `"<"` and `">"`, in line 65 and enter your full name. Compile your program and correct all syntax errors and warnings. **You will not receive credit for the program if it does not compile successfully.**

**Every program that you write in this course must include lines 1 through 35 (line 21 must reflect your controlling/main class) and the `developerInfo` (lines 52 to 69) method and comments. You will not get full credit if some of the lines are missing.**

Run your program and copy and paste the output to a file named **Program1-output.txt**. Create a folder named, **<YourLastNameFirstName>\_Program1**. Copy your source code and the output file to the folder. Zip the folder and upload it to Blackboard.

#### **Before you upload your program to Blackboard:**

- Ensure that your code conforms to the style expectations set out in class and briefly discussed below.
- Make sure your variable names and methods are descriptive and follow standard capitalization conventions.
- Put comments wherever necessary. Comments at the top of each module should include your name, file name, and a description of the module. Comments at the beginning of methods describe what the method does, what the parameters are, and what the return value is.
- *Program readability and elegance are as important as correctness.* After you have written your method, read and re-read it to eliminate any redundant lines of code, and to make sure variables and methods names are intuitive and relevant.

Read the assignment very carefully to ensure that you have followed all instructions and satisfied all requirements. **You will not get full credit for this program if it is not written as instructed even if it works as expected.**