

## Skill Assignment 6

This is an individual skill assignment. You may receive help from other class mates, but you may NOT copy their work. Copied work will be considered plagiarism and dealt with according to the syllabus and university policy.

**Objective:** For this skill assignment, you will demonstrate that you can properly implement a Java class based upon industry-standard UML documentation while conforming to a pre-defined logical Driver class implementation. Your class must conform to all Java and instructor-provided conventions, standards, and expectations.

**Description:** Interpreting UML diagrams while conforming to existing code and requirements is another crucial skill necessary to successfully function in an applications development team in contemporary business. You will implement the IceCream class designed in skill assignment 4. Make sure you implement any corrections indicated from prior feedback into a revised class diagram and implement the IceCream class properly following all expectations.

### Assignment:

- Correct (if necessary) any errors indicated in the skill assignment 4 feedback
  - ***Make sure to submit this corrected class diagram with the Java code***
    - If no corrections were indicated, re-submit the prior class diagram
- Create a Java class that implements all members based upon the class diagram created in skill assignment 4 and modified in skill assignment 5:
  - This IceCream class must interoperate with the provided Driver.java class file attached to this assignment along with your utilities class created in skill assignment 5 and modified based upon any feedback
    - When executed, the output of all 3 classes should be like what is shown below in Table 1
    - ***The Driver.java class file logic is not to be modified***
      - If you wish to add extra credit functionality, do so without modifying lines 10-18 in the main method and add your extra credit logic after the required lines
  - This IceCream class must implement a newly defined Taxable interface that you must implement into a separate code file and provides for the following required methods:
    - isTaxable that returns a true/false data value
  - This IceCream class must implement all members as depicted on the class diagram created in skill assignment 4 and modified based upon feedback
    - Helpful tip: pay particular attention to the order the constructor's arguments are provided in the Driver class so you define your constructor appropriately
- Upload your .JAVA code and .PNG class files to the appropriate Blackboard assignment

The chocolate ice cream with a regular cone and 2 scoops costs subtotal: \$3.33 tax: \$0.28 grand total: \$3.61
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Table 1 – Example Input/Output