

# CMPE 261 - Large Scale Programming

## Assignment 1

Deadline: 6 October 2019 23.59

**You have to explain your program with comments in detail, every non-trivial component of the program has to be explained. If there are some parts that are not clear, you are not be able to get points from these parts.**

**You have to submit your work before the deadline, otherwise you will get zero.**

**Plagiarism is strictly prohibited, you will be evaluated as if you cheat during the written exams. Involved students will get zero. In case of doubt of integrity, you are expected to explain your work verbally to the grader.**

In this assignment you are asked to write a program about ordering beverages. While doing this project you must use OOP concepts. Check the demo uploaded to LMS.

When the program executes, a menu will appear (the menu must be displayed as JFrame). Then the user selects the following:

- Select the size of the beverage from a JComboBox (Small, Medium or Large).
- Select the type of beverage from a JRadioButton group (Juice, Water, Tea or Coffee).
  - If Juice is selected, a JOptionPane must appear and from a dropdown menu, the user must choose one of Apple, Orange or Pineapple.
  - If Water is selected, a JOptionPane must appear and asks if the user wants ice.
  - If Tea is selected, a JOptionPane must appear and asks if the user wants sugar.
  - If Coffee is selected, a JOptionPane must appear and asks if the user wants milk.
- Enter the number of glasses in a JTextField.

If the beverage type or amount is not entered, a message that warns the user must pop up.

After selection, the user must click on Add button, which adds the selected beverage to an ArrayList and displays a report (i.e. "Two glass(es) of water with ice added."). Use beverages' toString() methods to show this report. After adding one or more beverages, the user must click on Order button, which first displays ordered beverages and their prices, then total price using JOptionPane.

Every beverage has a different price. If the beverage has an extra (such as sugar, milk or ice), then the price must be higher. Different juices must have different prices. Also prices must change according to the beverage's size.