CSIS 2175

Due date: April 11, 2022 (5:00PM)

Submission

You need to submit **the Entire Eclipse project** in a single .zip file by the due date. **NO LATE SUBMISSION** will be allowed.

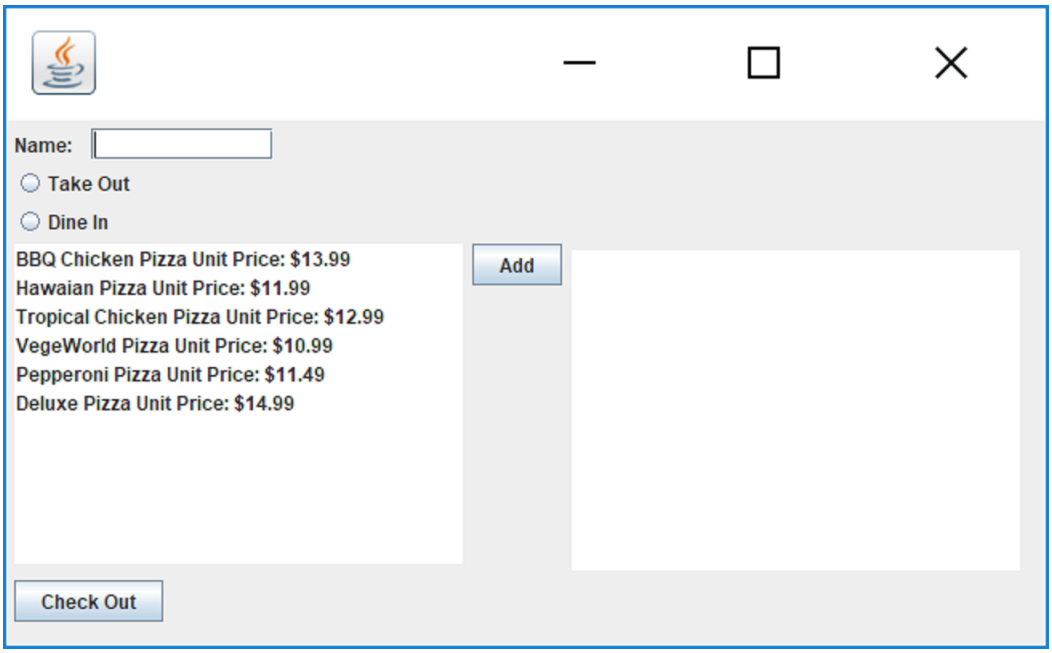
You may submit your work multiple times, but only the last submission will be graded.

Description

In this assignment, you are required to implement an electronic pizza ordering system. User can order pizzas via this system.

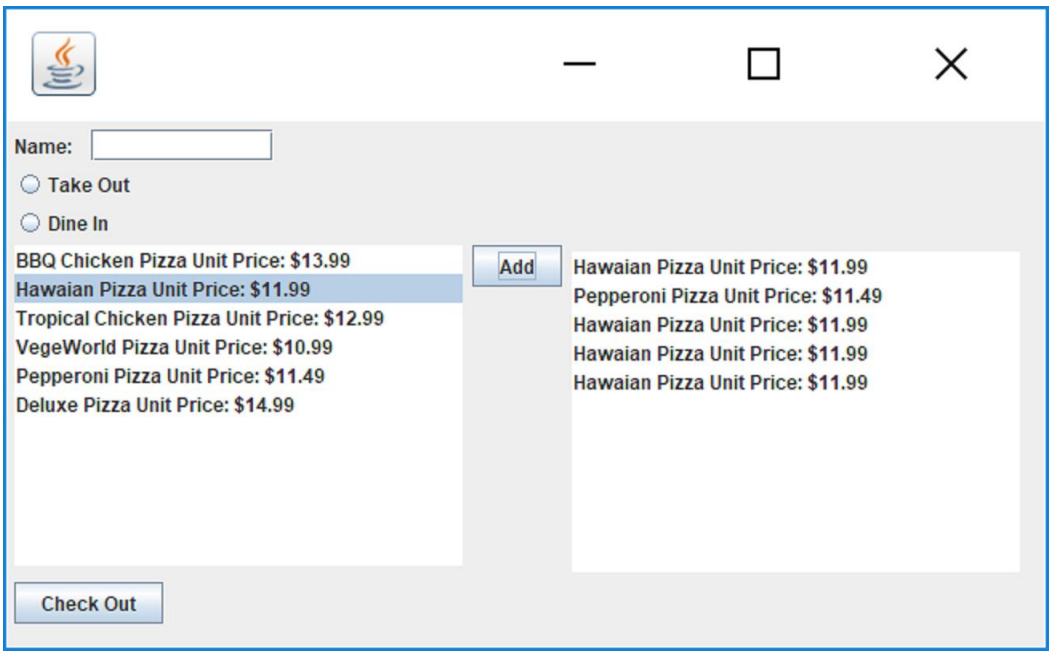
Your Task

You are asked to create a GUI as follows:

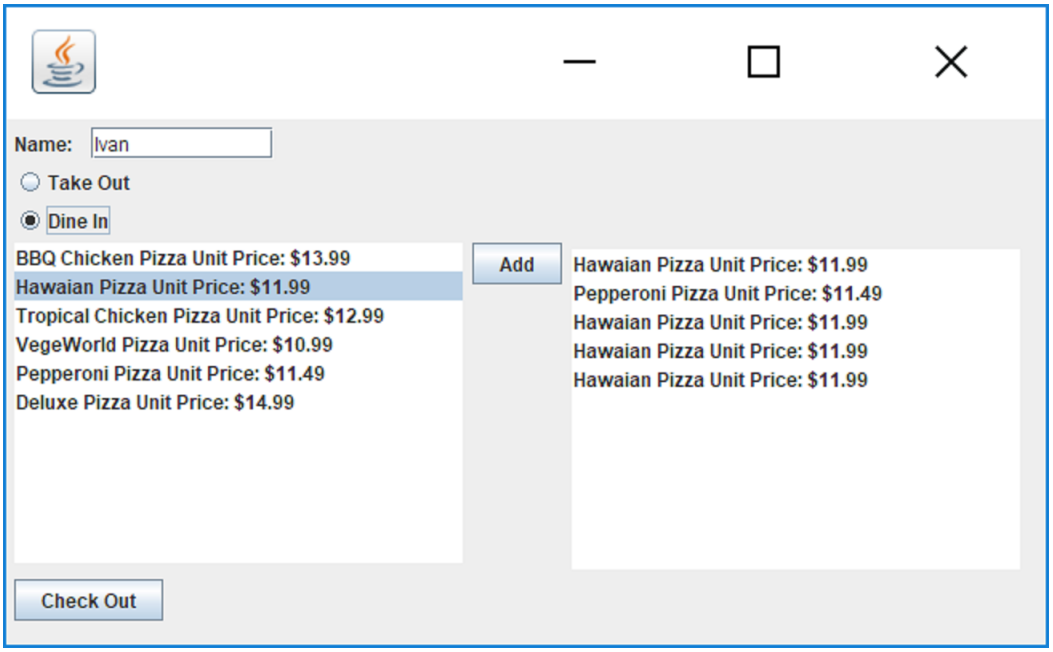


When running the program, it loads the choices of pizzas from the file menu.accdb and displays in the listbox on the left (Menu List). (*The database contains a table called menu, which has three fields, id (int), pizza (String), price (double))

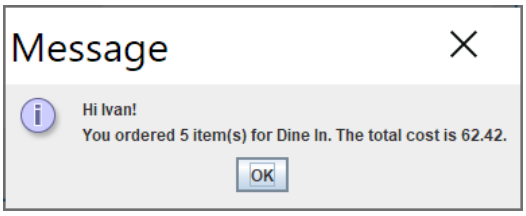
User can click the button "Add" to add pizza to the listbox on the right (Order List). The Order List will accumulate the pizzas added and may contain repeated items. For example, the following figure shows five added pizzas in the order: Hawaian Pizza, Pepperoni Pizza, Hawaian Pizza, Hawaian Pizza, Hawaian Pizza:



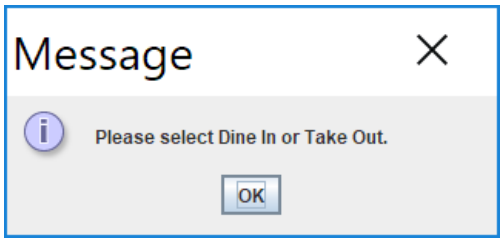
User can input his/her name in the Name textfield, and choose only one of the radio buttons, Take Out or Dine In. The following figure shows a sample input:



After that, user can click the button "Check Out" and the program shows the following message:



The total cost is calculated by summing up all the unit price of those ordered pizzas + 5% tax in the order. If the user does not check the radio buttons, it shows the following message:



Requirement and Hints:

1. The layout of the GUI should be as close to the figures above as possible.
2. You must create a class called Pizza to store a pizza record.
3. The following code can return a String given a floating number, say 12.34567, in two decimal point:

```
String str = String.format("%.2f", 12.34567);  // str will be "12.35"
```

Grading

Correctness of the program: 90%

Programming style/comment/clarity: 10%

Overall marks will not be more than 50% if not following the requirement.

Assumptions

You may assume that there will be no invalid input by the user.