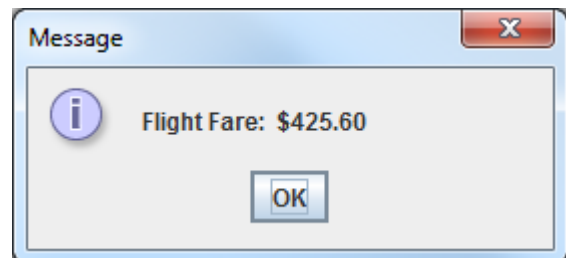
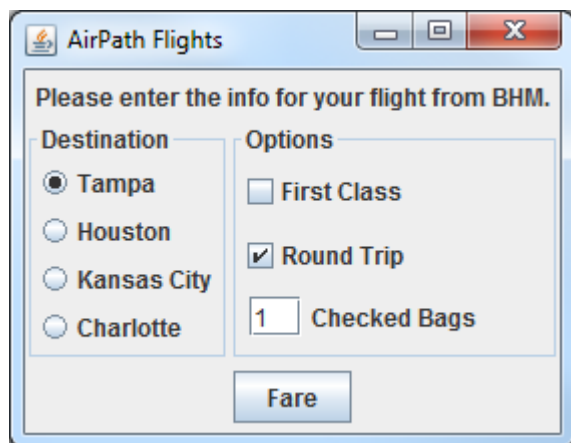


# CIS 255 • Java Programming

## Project 3: GUI Programming

Write a program that displays a window similar to the figure on the left below:



Choose at least four cities to serve as potential destinations for a flight; one should be selected by default, and the program should be written such that the user can select only one of these cities. Each destination should have a different base fare amount (assuming coach class, one-way, no checked bags). The user should be able to choose both first class and round trip if desired, and the user will enter the number of checked bags in a text box.

When the user clicks the button, the program should take the base fare amount, add a fee for flying first class (if selected), and add a fee based on the number of bags checked. If the user is flying round trip, the program should multiply the total by 2. It should display this total fare amount in a dialog box similar to the figure on the right above: make sure that the fare is labeled properly and that it appears with commas as needed and two digits after the decimal point.

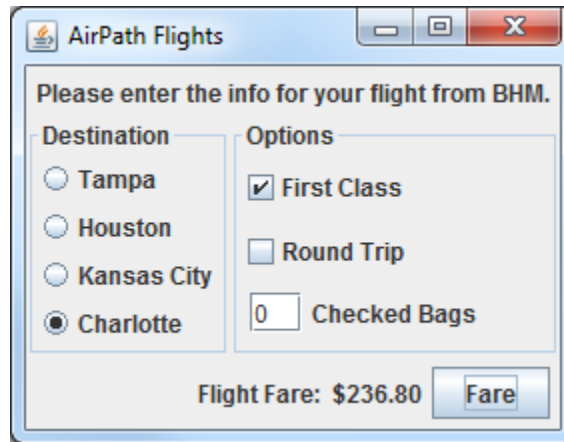
The layout of the window does not have to match the figure, but the items should be organized and labeled in such a manner that the user understands how to use the program. Your program may be in a single Java class or in several classes. The primary file that contains the `main` method should be named **FLast\_Project3.java** (with your first initial and last name as shown).

**POINTS:** 75

**BONUS (5 points):** The number of checked bags should be at least 0. If the user's input in the text box is negative, the program should display a dialog box with an error message instead of attempting to calculate the flight's cost.

**BONUS (5 points):** The parsing methods generate Java exception messages if the argument cannot be converted to the numeric type used; this includes an argument that is an empty `String`. The program should check to see if the text box is empty; if so, the program should display a dialog box with an error message reminding the user to enter the number of checked bags.

**BONUS (5 points):** Instead of displaying the fare in a separate dialog box, add a label or text field that displays this amount within the same window when the user clicks the button. An example follows:



**No bonus credit will be given unless the standard requirements of the assignment are met! Make sure that you have the basic functionality working regardless of whether or not you are able to complete the bonus portion successfully!**

Your code should include comments at the top listing your name, the course, the project number, and a brief description of the program. It should also include **at least five inline comments** in your code explaining what your code is doing at that given point.

The deadline is posted on Blackboard. **No late work will be accepted! The deadline will be strictly enforced by Blackboard!**

You must use the syntax and structures covered in the lectures and chapters covered thus far in the textbook unless you receive prior authorization from your instructor. **Any attempt to use syntax beyond the scope of the course may result in significantly reduced credit, even if your solution is fully functional.**

If you need assistance with your project code, e-mail your instructor **at least one day in advance** of the deadline. E-mail messages sent too close to the deadline may not receive a response in adequate time to make corrections to the project.

You may discuss general details of the project with your classmates, but **do not look at or borrow another student's project code!** In addition, **do not post the details of the project or ask for assistance with specifics of this project on any public discussion board, forum, or newsgroup!**