

# Assignment #5

## CIT1156 – Programming II

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### Objective:

Developing skills implementing C# syntax, including:

- manipulation of arrays,
- GUI events
- event handlers
- control properties
- formatting output

### Overview:

In this assignment you are given a partial Visual Studio project that has a graphical interface that will allow users to enter the duration of a call and the destination area code. Using that information the application will then display the relevant information from the parallel arrays and calculate the total charges for the call. You will need to add the required logic to complete the application.

### Steps:

1. Add the statements to display the area codes into the ComboBox control using the Form\_Load event. This event is called just after the form object is created and is useful to setup the starting conditions of the graphical interface.
2. Add the logic required in the ComboBox SelectedIndexChanged event to display the rate, minimum time duration and the calculated call charge. Please ensure that the numeric values are right justified in the appropriate fields with the rate and total charge fields displayed as currency. The charge for the call is calculated as follows:
  - a. Any call at or below the minimum time duration will be charged using the applicable rate multiplied by the minimum time duration.
  - b. Calls that exceed the minimum time duration will be charged using the applicable rate multiplied by the length of the call.
3. Add appropriate events and logic to recalculate the cost of the call when the user updates the duration of the call even if the area code is not changed.