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**CS 114 – Intro to Software Engineering**

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**Special Project 1**

Adopted From: Murach’s C# (7th Edition)

**Objective:**

Practice creating a WinForms project in group environment.

**Deliverables:**

* Zipped Visual Studio Solution
* Project report
* GitHub link if you have one (optional)

Special Project 1: Process lunch orders

In this project, you’ll complete a form that accepts a lunch order from the user and then calculates the order subtotal.

Graphical user interface, application, Word

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The application should provide for these main courses and add-ons:

Main course Price Add-on Add-on price

Hamburger 6.95 Lettuce, tomato, and onions .75  
 Ketchup, mustard, and mayo  
 French fries

Pizza 5.95 Pepperoni .50  
 Sausage  
 Olives

Salad 4.95 Croutons .25  
 Bacon bits  
 Bread sticks

1. Open the starter LunchOrder project.
2. In the design view, add three radio buttons to the Main Course group box, and set their properties so they appear as shown above. The Hamburger option should be selected by default.
3. Add a group box for the add-on items. Then, add three check boxes to this group box as shown above. None of the check boxes should be selected by default.
4. Code a method name ClearTotals() that clears the three text boxes and a method named ClearAddOns() that removes the check marks from the three check boxes.
5. Code an event handler that changes the text that’s displayed for the Add-ons group box and the three check boxes when the user selects a different main course. This event handler should also remove the check marks from the add-ons and clear the order totals. Test the application to be sure this works correctly.
6. Code an event handler that calculates and displays the subtotal when the user clicks the Place Order button. The subtotal is the cost of the main course plus the cost of the add-ons. Test the application to be sure this works correctly.
7. Code an event handler that clears the order totals when the user checks or unchecks an add-on. Then, test the application one more time.