

C# code for Lunch Order program:

```
1  using System;
2  using System.Collections.Generic;
3  using System.ComponentModel;
4  using System.Data;
5  using System.Drawing;
6  using System.Linq;
7  using System.Text;
8  using System.Threading.Tasks;
9  using System.Windows.Forms;
10
11  /* Name: Carissa Weddell
12   * Date: 04/20/18
13   * Project: Lunch Order - Ch. 10
14   */
15
16  namespace WedCCh10
17  {
18      public partial class frmLunchOrder : Form
19      {
20          public frmLunchOrder()
21          {
22              InitializeComponent();
23          }
24
25          private void rdoHamburger_CheckedChanged(object sender, EventArgs e)
26          {
27              //Clear totals and checkboxes
28              lblSubtotalBox.Text = "";
29              lblTaxBox.Text = "";
30              lblTotalBox.Text = "";
31              chkAddOn1.Checked = false;
32              chkAddOn2.Checked = false;
33              chkAddOn3.Checked = false;
34          }
24
```

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34
35
36 //Display add-ons for hamburger
37 if (rdoHamburger.Checked == true)
38 {
39     gbxAddOnItems.Text = "Add-on Items ($.75/each)";
40     chkAddOn1.Text = "Lettuce, tomato, and onions";
41     chkAddOn2.Text = "Ketchup, mustard, and mayo";
42     chkAddOn3.Text = "French fries";
43 }
44
45 private void rdoPizza_CheckedChanged(object sender, EventArgs e)
46 {
47     //Clear totals and checkboxes
48     lblSubtotalBox.Text = "";
49     lblTaxBox.Text = "";
50     lblTotalBox.Text = "";
51     chkAddOn1.Checked = false;
52     chkAddOn2.Checked = false;
53     chkAddOn3.Checked = false;
54
55     //Display add-ons for pizza
56     if (rdoPizza.Checked == true)
57     {
58         gbxAddOnItems.Text = "Add-on Items ($.50/each)";
59         chkAddOn1.Text = "Pepperoni";
60         chkAddOn2.Text = "Sausage";
61         chkAddOn3.Text = "Olives";
62     }
63 }
64
65 private void rdoSalad_CheckedChanged(object sender, EventArgs e)
66 {
67     //Clear totals and checkboxes
68     lblSubtotalBox.Text = "";
69     lblTaxBox.Text = "";
70     lblTotalBox.Text = "";

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70     lblTotalBox.Text = "";
71     chkAddOn1.Checked = false;
72     chkAddOn2.Checked = false;
73     chkAddOn3.Checked = false;
74
75     //Display add-ons for salad
76     if (rdoSalad.Checked == true)
77     {
78         gbxAddOnItems.Text = "Add-on Items ($.25/each)";
79         chkAddOn1.Text = "Croutons";
80         chkAddOn2.Text = "Bacon bits";
81         chkAddOn3.Text = "Breadsticks";
82     }
83 }
84
85 private void btnPlaceOrder_Click(object sender, EventArgs e)
86 {
87     int addOnCount = 0; //Variable for checked checkbox count
88     decimal subtotal; //Variable for subtotal amount
89     decimal tax; //Variable for tax amount
90     const decimal hamburger = 6.95m; //Constant for hamburger cost
91     const decimal hamburgerAdd = 0.75m; //Constant for hamburger add-ons cost
92     const decimal pizza = 5.95m; //Constant for pizza cost
93     const decimal pizzaAdd = 0.50m; //Constant for pizza add-ons cost
94     const decimal salad = 4.95m; //Constant for salad cost
95     const decimal saladAdd = 0.25m; //Constant for salad add-ons cost
96     const decimal taxrate = 0.0775m; //Constant for tax rate
97
98     //Loop to count checked checkboxes
99     foreach (CheckBox cb in gbxAddOnItems.Controls)
100     {
101         if (cb.Checked)
102         {
103             addOnCount++;
104         }

```

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105 //Calculate totals if hamburger/add-ons selected
106 if (rdoHamburger.Checked == true)
107 {
108     subtotal = hamburger + (addOnCount * hamburgerAdd);
109     lblSubtotalBox.Text = subtotal.ToString("c");
110     tax = subtotal * taxrate;
111     lblTaxBox.Text = tax.ToString("c");
112     lblTotalBox.Text = (tax + subtotal).ToString("c");
113 }
114 //Calculate totals if pizza/add-ons selected
115 else if (rdoPizza.Checked == true)
116 {
117     subtotal = pizza + (addOnCount * pizzaAdd);
118     lblSubtotalBox.Text = subtotal.ToString("c");
119     tax = subtotal * taxrate;
120     lblTaxBox.Text = tax.ToString("c");
121     lblTotalBox.Text = (tax + subtotal).ToString("c");
122 }
123 //Calculate totals if salad/add-ons selected
124 else if (rdoSalad.Checked == true)
125 {
126     subtotal = salad + (addOnCount * saladAdd);
127     lblSubtotalBox.Text = subtotal.ToString("c");
128     tax = subtotal * taxrate;
129     lblTaxBox.Text = tax.ToString("c");
130     lblTotalBox.Text = (tax + subtotal).ToString("c");
131 }
132
133
134
135
136 }
137
138 private void chkAddOn1_CheckedChanged(object sender, EventArgs e)
139 {
140     //Clear totals if checkboxes are checked or unchecked
141     //Clear totals if checkboxes are checked or unchecked
142     lblSubtotalBox.Text = "";
143     lblTaxBox.Text = "";
144     lblTotalBox.Text = "";
145 }
146 private void btnExit_Click(object sender, EventArgs e)
147 {
148     //Close form
149     this.Close();
150 }
151 }
152 }
153

```

Start screen of Lunch Order program:

Lunch Order

Main Course

- Hamburger - \$6.95
- Pizza - \$5.95
- Salad - \$4.95

Add-on Items (\$.75/each)

- Lettuce, tomato, and onions
- Ketchup, mustard, and mayo
- French fries

Order Total

Subtotal:

Tax (7.75%):

Total:

Place Order

Exit

Input entered before pressing "Place Order" button:

Lunch Order

Main Course

- Hamburger - \$6.95
- Pizza - \$5.95
- Salad - \$4.95

Add-on Items (\$.50/each)

- Pepperoni
- Sausage
- Olives

Order Total

Subtotal:

Tax (7.75%):

Total:

Place Order

Exit

Output after pressing "Place Order" button:

Main Course

- Hamburger - \$6.95
- Pizza - \$5.95
- Salad - \$4.95

Add-on Items (\$0.50/each)

- Pepperoni
- Sausage
- Olives

Order Total

Subtotal:	\$6.95
Tax (7.75%):	\$0.54
Total:	\$7.49

Place Order

Exit