MIS 216 Fall 2020 PROJECT 2

Continue to learn new basic coding skills

PART A:

- 1. Your will build additional features to your Project1.
- 2. Find your folder on your desktop (or copy from miscapstone in the GRADED folder to your desktop)
 - a. Click on the .sln file and Visual Studio should open
- 3. Check Entropy for any comments on Project 1 and make any corrections to the IceCreamCost Form.
 - a. Point values are doubled if you fail to correct prior errors.
- 4. You should complete Tutorial 3 on pages 41 to 47, basically most of the steps 3.1 to 3.8 *(read carefully the following to assist you)*
- 5. Replace Step 3-1 with the following commands
 - a. Once your project is open (Number 2 above), right click in your Solution Explorer on the bolded yourInitialsMIS216 line
 - b. Then ADD, add NEW ITEM
 - c. Make sure C# is selected in the left window,
 - d. Windows Forms in the middle window
 - e. Name the form (bottom of pop up box) : IceCreamTotal
- 6. Complete Step 3-2.
 - a. Follow Step 3-2 (the double click command shown)
 - b. Ignore Figure 1-25 (on page 42) for now as the following steps will help you build the code shown in Figure 1-25, but it is better to read each of the remaining steps to help you understand their implementation.
- 7. We will practice a better method to identify the variable names and the variable types then shown in the book. We will use prefixes to identify the variable type when you declare the name.
 - a. In Step 3-3, create the code in Figure 1-26 in the C# coding area you created above in Step 3-2.
 - b. Replace the code shown and instead of int scoops, please type your code to be **int intScoops**
 - c. The next line should be **double dblUnitPrice**, **dblSubTotal**, **dblSalesTax**, **dblTotalCost**.
 - d. There is an error in Figure 1-26, on the const double TAX Rate =..., please make sure you put a _ between TAX and RATE as in TAX_RATE = ...
 - e. In figure 1-27, make sure you use your new variable names with the prefixes you established in #7.c above as in:

dblUnitPrice = double.Parse.....

- 8. In Step 3-4 you will add a List Box to your form (find the list box in the ToolBox)..do not type any code at this point.
- 9. Complete Step 3-5 and now your code should look like Figure 1-25, (except for better variable names)
- 10. Replace Step 3-6 with the following as we desire to move from the form created in Project 1 to Project 2.
 - a. Open your IceCreamCost Form
 - b. Add a button to the bottom right of your 1st form, name this button:
 btnProject2Show, with a text property of: Show Project 2
 - c. The code under the button (double click on the button) should be:

IceCreamTotal newProject2 = new IceCreamTotal(); newProject2.Show();

- d. Save your work and hit RUN, and the Project 1 form should appear, click on the Project 2 button, your new second form should appear.
- 11. Back on your second form, double click Clear Button. Complete instructions in Figure 1-30 to clear the list box and be ready new entries.
- 12. The code under the Exit button should be:
 Application.Exit();
- 13. Save your work and test!

PART B:

- 14. Add a 3rd form to the same project (use prior instructions to help you build the 2nd form)
 - a. Name this 3rd form MaterialLabor
 - b. Change the text property of the form to be: Total Cost with List Box your last name.
- 15. We will replace the button to move from form to form with a menu bar at the top of the page.
 - a. On the IceCreamCost form, find the Menu Strip from the toolbox and add to the form, create 4 entries: Ice Cream Cost, Ice Cream Total, Material and Labor, Exit
 - b. Here is the code to place under the 2nd Button: IceCreamTotal newProject2 = new IceCreamTotal(); newProject2.Show();
 c. The code for the 3rd Button: MaterialLabor newProject3 = new MaterialLabor();

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terialLabor newProject3 = new MaterialLabor
newProject3.Show();
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- d. The code for the 4th Button
 - Application.Exit();
- e. There is no code under the first button as we are already on that page
- 16. Copy your menu strip from form1 to forms 2 and 3
- 17. Likewise you can copy the code for all the menu strip items, but add the appropriate code to take you back to the first form under the first menu item.
- 18. Review the instructions on Exercise 1-3 to determine how the new form should appear.
 - a. You do not need a try/catch for this exercise
 - b. Please make sure you create proper object (txt, lbl, btn and variable names as in int, dbl, str...)
 - c. Follow the four steps of good coding practice under the btnComputeCost button as in:
 - i. Declare variables
 - ii. Grab values from the text boxes and convert where necessary
 - iii. Calculate and store as variable
 - iv. Output the result and format as necessary
- 19. Once the new form has been created, test all forms.
- 20. Once you complete and test
 - a. Close Visual Studio (Visual Studio must be closed to copy the folders)
 - b. Copy your entire folder from your desktop to your \\miscapstone\mis216\F20Folder
 - c. DO NOT PLACE IN THE GRADED FOLDER
- 21. Items to be graded:
 - a. Any errors on Project 1 corrected
 - b. Appearance of Form2
 - c. Use of List Box
 - d. Calculate, Clear and Exit Buttons
 - e. Name of objects (txt.., lbl,, btn, lst)
 - f. Name of variables that reflect their type
 - g. Use of the 4 basic steps for coding (declare variables, grab values, calculate, output and format
 - h. Does it calculate properly and display results in the list box