MIS 216 Fall 2020 PROJECT 5

Loops

- 1. Your will add this to your project already built
- Find your folder on your desktop (or copy from miscapstone to your desktop)

 Click on the .sln file and Visual Studio should open
- 3. Fix any errors noted in Entropy for Project 4.
- 4. Create a 7th form in your project, name this new form: **Loops** (use prior instructions to help you build the 7th form)
 - a. Change the text property of the form to be: Loops Your Last Name.
- 5. To save effort, only add a new menu item in the top menu strip on the first form to take you to the new form as in (please keep the Exit commands):
 - a. The code for the 7th Button: Loops newProject7 = new Loops(); newProject7.Show();
- 6. Create the following form (read instructions on next page)

🖳 Loops - My Name		- • •
Laptop Current Price	IstAnswers	
Desired Price		
Calculate Reduction in Price		
Current Population		
Growth Rate (as in .04)		
Number of Years		
Calculate Future Population		
Celsius and Fahrenheit		

- a. Name all your objects clearly as in :
 - i. txtLaptopCurrentPrice
 - ii. txtDesiredPrice
 - iii. lstAnswer
- b. and likewise the corresponding variables that have the data type of the variable and matching the text box name as in:
 - i. dblLaptopCurrentPrice = 0;
 - ii. dblDesired Price = 0:
 - iii. intCounter = 0;
 - iv. dblTotal = 0;
 - v. const dblYearlyDeduction = .10
- 7. Read Exercise 4-1 on page 139 for help with the first calculation. You will calculate using a loop the number of years it will take for the Laptop to be less than or equal to your desired price.
 - a. You should clear the list box as the first line of code (before while) in the calculation area as in : lstAnswer.Items.Clear()
 - b. Also set before the while statement dblTotal to be the current price
 - c. The formula (to help you get started in the while)
 - i. dblTotal = dblTotal * (1 dblYearlyDeduction)
 - d. Your list box should show (if you start with 1000)
 - i. Year 0: \$1000.00
 - ii. Year 1: \$900.00
 - iii. Year 2: \$810.00 (continue until you hit your target price)
- 8. Read Exercise 4-4 on page 139 for help with the second group / calculation
 - a. Follow the same process as in #7 above.
 - b. To help you, the formula would be to ADD versus SUBTRACT as in:
 - i. dblTotal = dblTotal + (dblTotal * desiredGrowthRate)
 - ii. Sample list box output would be (don't forget to clear)
 - 1. Year 0: 10,000
 - 2. Year 1: 10,500 (if the growth is 5%) etc.
- 9. Read Exercise 4-3 on page 139 for help with the third button.
 - a. Sample output in the list box (don't forget to clear)
 - i. F: -40; C: -40
 - ii. F: -30, C: -34.4
 - iii. F: -20, C: -28.9
 - iv. Continue.. (you can check them in Google)
- 10. Save, test!
- 11. 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\S20Folder
 - c. DO NOT PLACE IN THE GRADED FOLDER