

ITCS 1010 Programming Logic

Logic Plan 6 – Chapter 6 – 20 points

“Retail Price Calculator using a Method that Receives Arguments and Returns a Value”

Student Name _____

Given the following problem statements, perform the steps and answer the questions listed below, which are designed to help you analyze the problem and prepare a strategy for solving the problem.

Submit this logic plan and C# Project **into a folder, zip the folder, and submit in Blackboard for grading.**

Problem statement: Create an application that lets the user enter an item’s wholesale cost and its markup percentage in input text boxes. When the user clicks the Calculate button, the application should have a METHOD named CalculateRetail that receives two inputs in text boxes, the wholesale cost and markup percentage as arguments, and returns the output retail price of the item in a text box. See **textbook page 392**, under Programming Problems, the Retail Price Calculator for guidance.

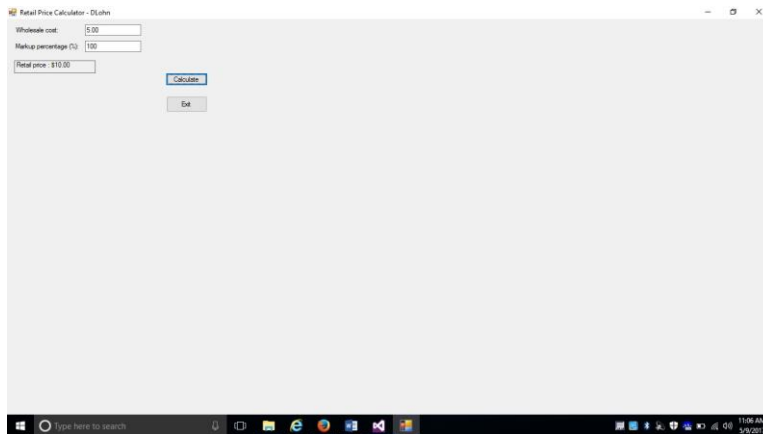
For example: Retail Price = (Wholesale Cost * Markup Percentage)

$$\$10.00 = (\$5.00 \times 100\%)$$

$$\$7.50 = (\$5.00 \times 50\%)$$

Also, include an **Exit** button so the user can close the form and include your **student name** in the title bar of the form.

Use label controls, button controls, and program comments where applicable. Make sure the C# program is free of syntax and logic errors. Also, include user-friendly ToolTips on all button controls.



Create a file folder on your USB Port drive or hard drive at home, and call it “Logic Plan6 Your student name”. For example “Logic Plan6 DLohn”.

There is **no VideoNote** associated with this Lab.

Create the Logic Plan!

*Before coding this program design the Program’s Logic: enter your answers in the **IPO chart** below. Write pseudocode and insert below. Draw a flowchart and insert below. (Hint: reference the logic plans in this Tutorial and **Tutorial 6-4** for guidance.)*

What must the user enter as **INPUT**?

INPUT

How will the **program calculate the retail price**?

PROCESSING

What **OUTPUT** will the program display?

OUTPUT

ENTER PSEUDOCODE HERE

DRAW OR COPY/PASTE FLOWCHART HERE

Save this project in your “**Logic Plan 6 your student name**” file folder and submit in this category for grading.