Homework 2 – Instructions

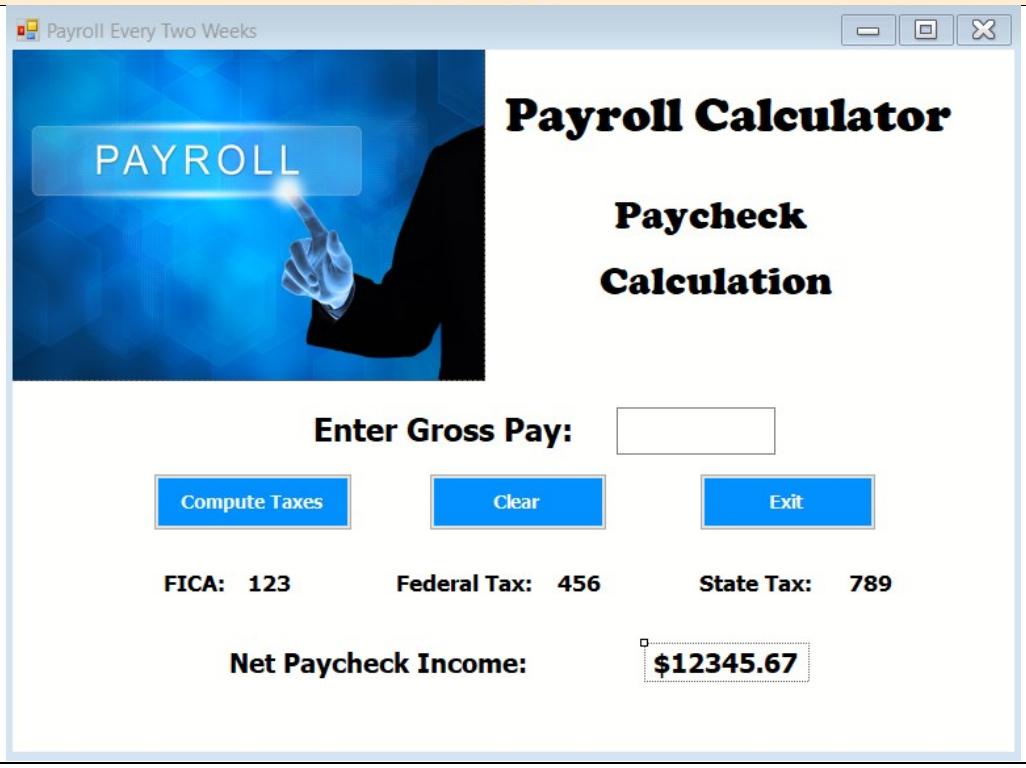
Read the requirements document and use cases closely so you understand the program state requirements. Then fill out the events planning document. Please save the events document in your Project folder. Submit your GitHub link or Zip.

Requirements Document – Textbook page 224

REQUIREMENTS DOCUMENT

Date:	January 4, 2018
Date Submitted:	
Application Title:	Payroll Calculator
Purpose:	This Windows Classic Desktop application will compute and display the FICA tax, federal tax, and state tax for a two-week pay period.
Program Procedures:	From a window on the screen, the user enters her gross pay check for two weeks. The program estimates the FICA tax, federal tax, and state tax for a two week pay cycle.
Algorithms, Processing, and Conditions:	1. Users must be able to enter their biweekly income. 2. The FICA tax (7.65%), federal tax (22%), and state income tax (4%) are computed. 3. The tax amounts should be displayed on separate lines and in currency format, two places past the decimal point. 4. The net pay should be displayed after the tax amounts have been deducted.
Notes and Restrictions:	1. The user can clear the income and taxes and then enter new data. 2. The user can use an Exit button to exit the application.
Comments:	The designer should design the user interface, including the graphic and words displayed.

FIGURE 4-98



Instructions:

Rename all controls using our naming convention. Note that labels on form show example text.

Form Load event:

1. The example text is removed from the four label controls (label controls are cleared).
2. The income textbox is empty and has focus.

btnClear click event:

1. All four labels are cleared.
2. Income textbox is cleared and gets focus.

btnExit click event:

1. Program closes.

btnTaxCalc click event:

1. Write code to create to following variables:
    a. strIncome
    b. decIncome
    c. decFica
    d. decFederal
    e. decState
    f. decNet
2. Write code to create the following constants and initialize them to the values specified in the requirements:
    a. cdecFica - init to 0.0765D
    b. cdecFed - init to 0.22D
    c. cdecState - init to 0.04D
3. Convert the strIncome value from the income textbox to the decIncome
4. Calculate the three tax amounts as a percentage of decIncome (hint: simply multiply)
5. Calculate the net income by subtracting the three tax amounts from decIncome (hint: there will be something left over / the result will be a positive number.
6. Display the results on the form:
7. Convert the three tax amounts and the net income amount to String and assign each to the Text property of the matching control (hint: this is an opportunity for confusion. VS will not prevent you from displaying the net income as the FICA tax, or the state tax as your net income. It is up to you to make sure that decFederal displays in lblFederal.

And we have now found out why it is easier to rename the controls and have naming conventions. How fun would it be to match up variables a,b,c,d,e to Label1 Label2…Definitely want to spend time doing that!