



Computer Science – CSCI 3723 Visual Basic I

Instructor: George McOuat

How To Put Together A Project For Submission

As an example, chapter 2, exercise 2 (page 93) will be demonstrated.

A. Read and understand the problem:

Name and Address – Create an application that displays your name and address when a button is clicked. The application's form should appear as Figure 2-75 when it first runs. Once the *Show Info* button is clicked, the form should appear similar to that shown in Figure 2-76.

Figure 2-75 Initial *Name and Address* form

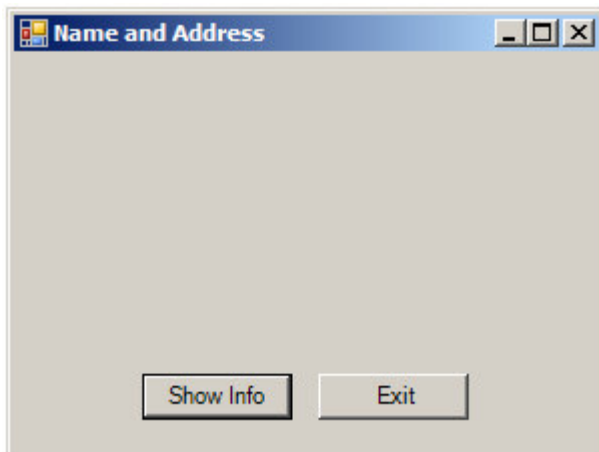


Figure 2-76 *Name and Address* form after *Show Info* button has been clicked



Here are the detailed property specifications:

- The button that displays the name and address should be named `btnShowInfo`. Its text should read *Show Info*.
- The button that closes the application should be named `btnExit`. Its text should read `Me.Close()`.
- The form should have three Label controls. The first will hold your name, the second will hold your street address, and the third will hold your city, state, and Zip Code. The labels should be named `lblName`, `lblStreet`, and `lblCityStateZip`, respectively. The labels' Font property should be set to *Times New Roman, bold, 12 point*. The labels' TextAlign property should be set to *MiddleCenter*.
- The form's title bar should read *Name and Address*.

B. From the problem specification, put together the 6 steps for Developing a Visual Basic Application (page 16 in text):

- Clearly define what the application is to do.
- Visualize the application running on the computer and design its user interface.
- Make a list of the controls needed.
- Define the values for each control's relevant properties.
- Make a list of methods needed for each control.
- Create a flowchart or pseudocode version of each method.

Step 1: Purpose: Window to show name and address

Input: Show Info button

Process: When the Show Info button is clicked, name and address will be displayed.

Output: name and address



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Step 2:

My Name	
My Street Address	
My City, State, and Zip Code	
Show Info	Exit

Step 3:

Control Type	Name
Form	default
Label (for displaying "My Name")	lblName
Label (for displaying "My Street Address")	lblStreet
Label (for displaying "My City, State and Zip Code")	lblCityStateZip
Button	btnShowInfo
Button	btnExit

Step 4:

Control	Text Property
Form	"Name and Address"
lblName	"George McOuat"
lblStreet	"1314 Maleko Street"
lblCityStateZip	"Kailua, HI 96734"
btnShowInfo	"Show Info"
btnExit	"Exit"

Step 5:

Method Name	Description
btnShowInfo_Click	Displays the labels lblName, lblStreet, and lblCityStateZip
btnExit_Click	Ends the application.

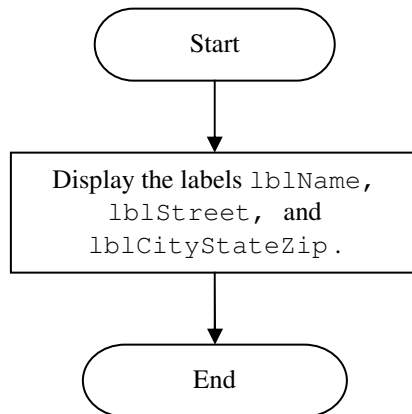


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Step 6:

Flowchart

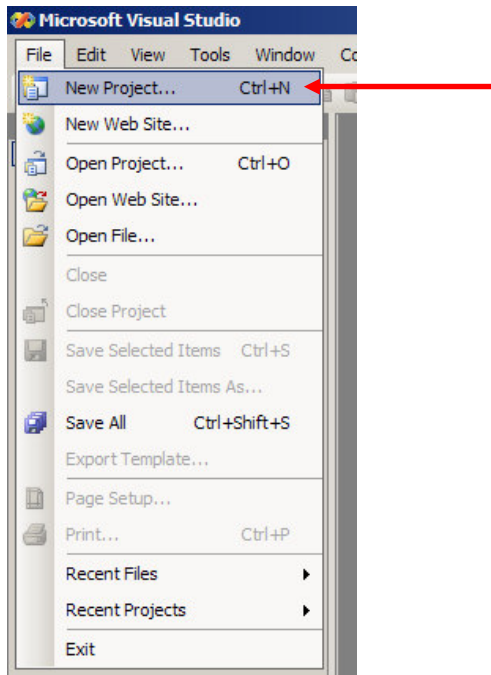


Pseudocode

When *ShowInfo* button is clicked, Display the labels `lblName`, `lblStreet`, and `lblCityStateZip`.

Submit the 6 steps in a Word document named `LastName_FirstName_Chapter_Exercise_Planning.doc`

C. Launch the Visual Studio application. Once opened, from the file menu, choose New Project.



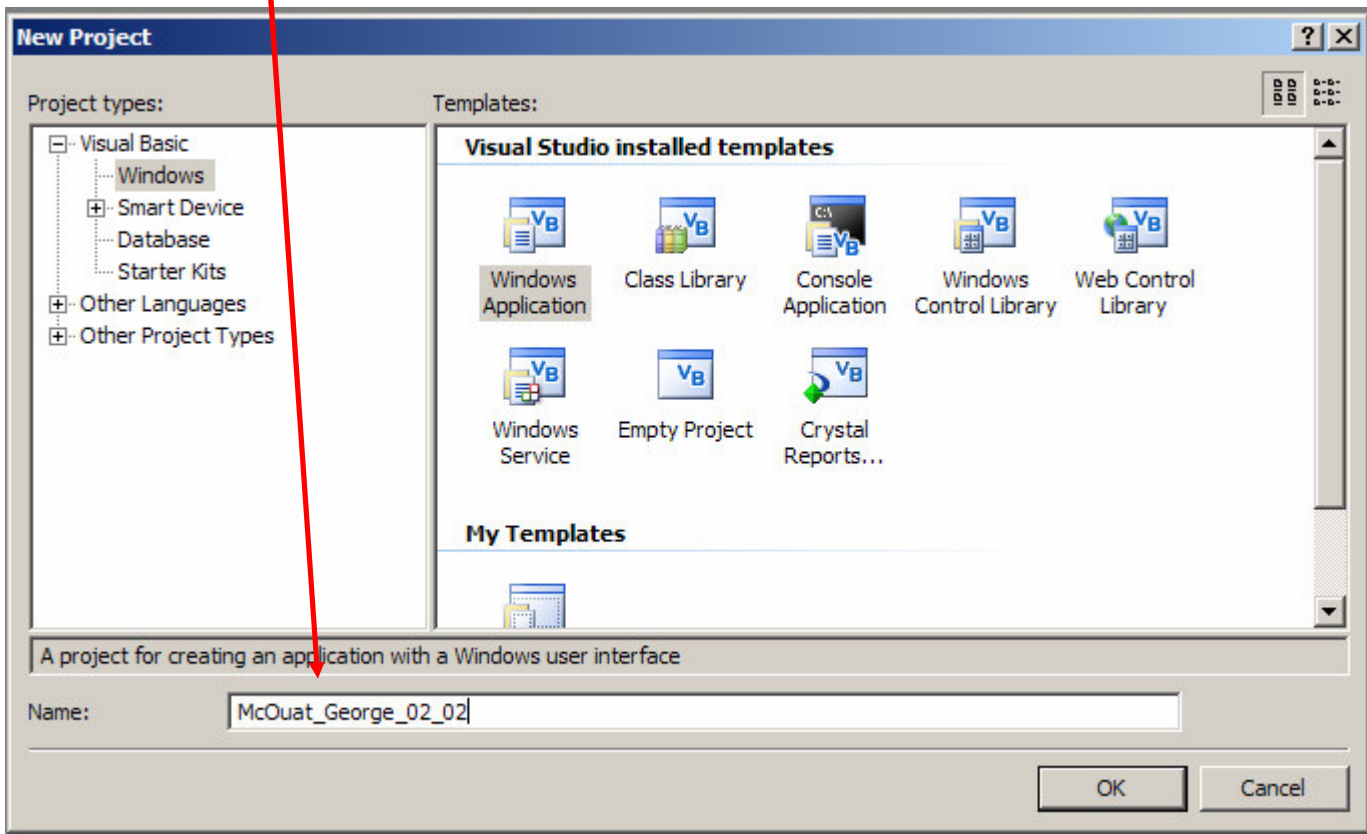


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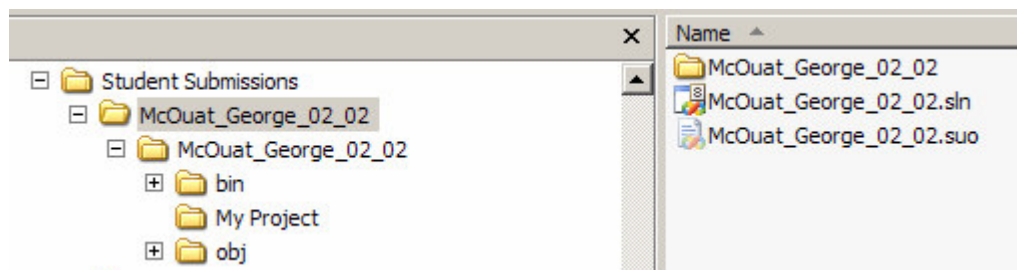
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When you create a project, it will be stored in the solutions area you chose when setting up the IDE. If you need to change this area, choose Tools, Options, Projects and Solutions, General, and use the ellipsis button to direct projects to be created in the folder of your choice. This area is Student Submissions.

Name the new project according to the Visual Basic Project Submission Requirements document (LastName_FirstName_Chapter_Exercise). Click OK.



A folder that will hold the project folder (both of the same name) and the solutions file (*.sln) and users options file (*.suo) will be created.



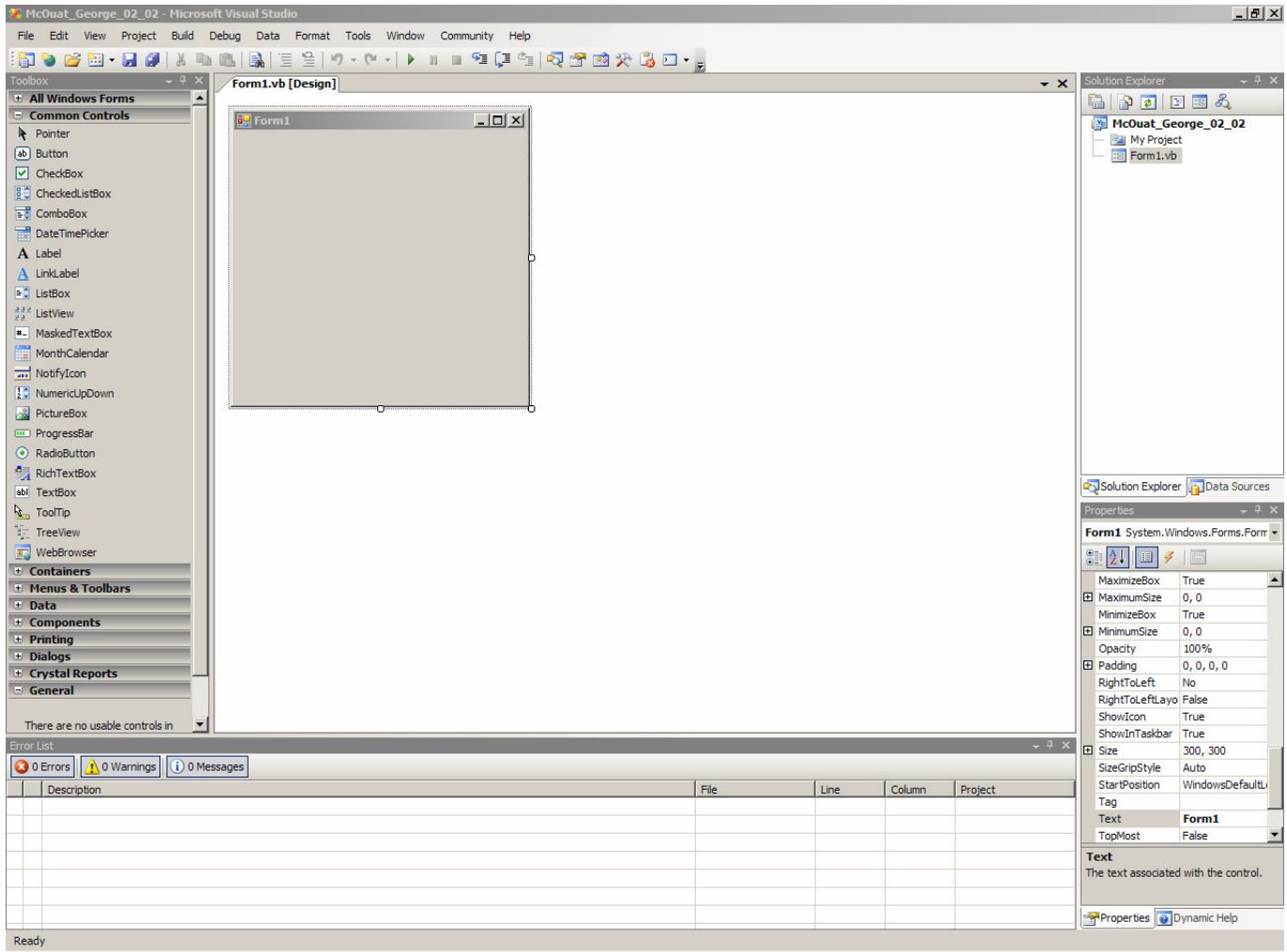
The project folder will contain the bin, My Project, and obj folders.



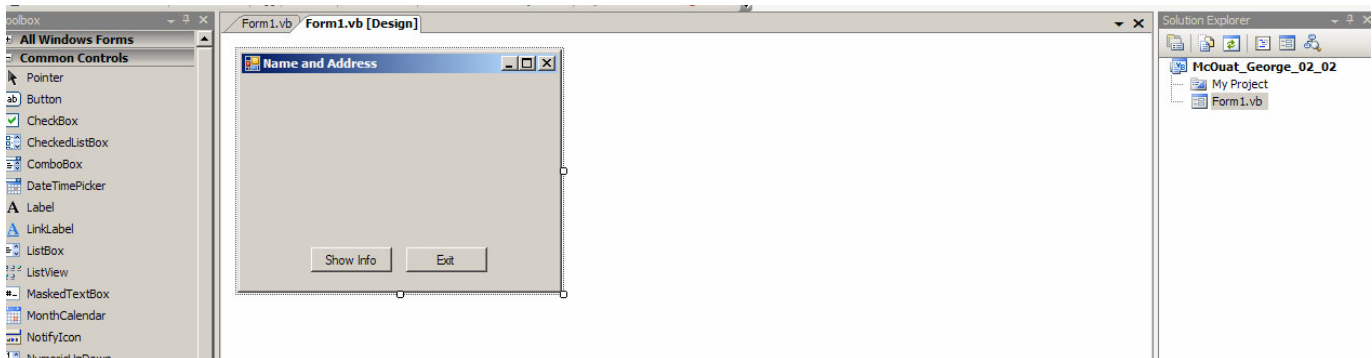
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Your IDE should then look similar to this:



Construct your application:





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Modify your code to include comments and fields as appropriate:

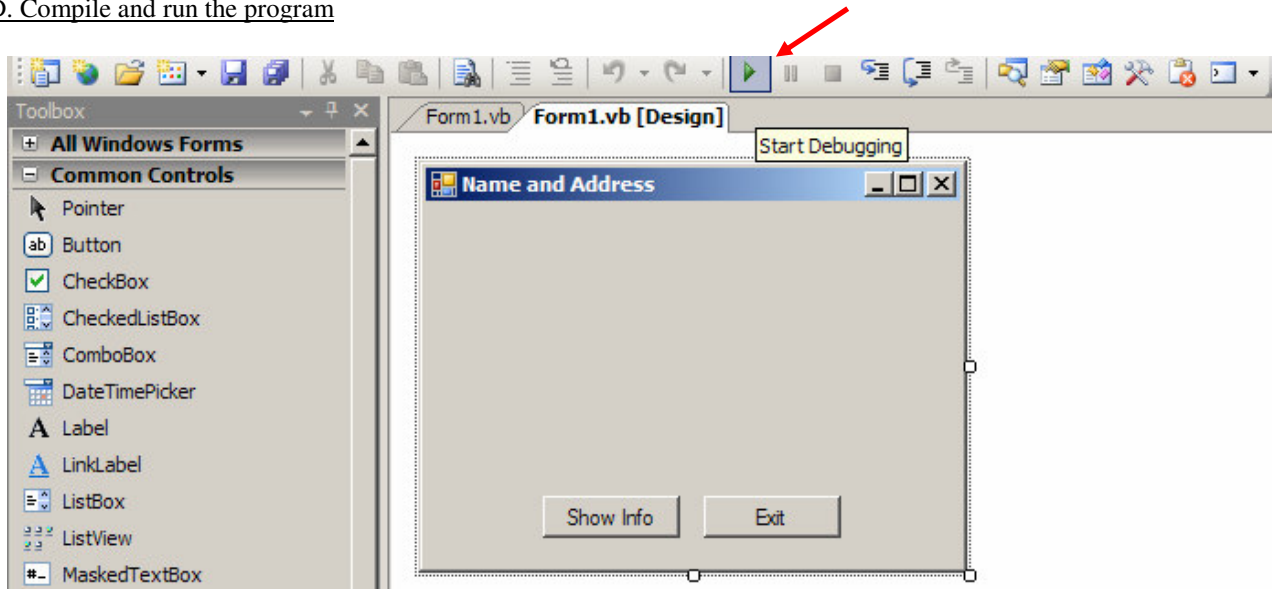
```
'Program by:George McOuat
'FileName: McOuat_George_02_02.vb
'Project No: Exercise 02.02
'Project Description: Display window, click on show info button, display name and address

Public Class Form1
    Inherits System.Windows.Forms.Form

    Private Sub btnShowInfo_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnShowInfo.Click
        ' Display the name and address
        lblName.Text = "George McOuat"
        lblStreet.Text = "1314 Maleko Street"
        lblCityStateZip.Text = "Kailua, HI 96734"
    End Sub

    Private Sub btnExit_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnExit.Click
        ' End the application
        Me.Close()
    End Sub
End Class
```

D. Compile and run the program



Once the program has compiled, correctly, test it thoroughly by exercising all control paths (i.e., buttons pressed, calculations made, mouse events, etc.) Then, using a screen capture program like PrintKey2000 (available for free download from instructors web page), capture each appropriate portion of the screen and place those images in a Word test document, named: LastName_FirstName_Chapter_Exercise_Test.doc.

The above document would be named McOuat_George_02_02_Test.doc. Be sure to have your name and a description of what the screen represents in the test document:

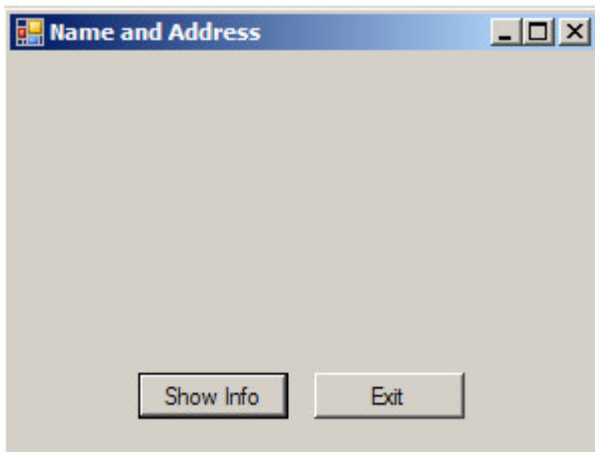


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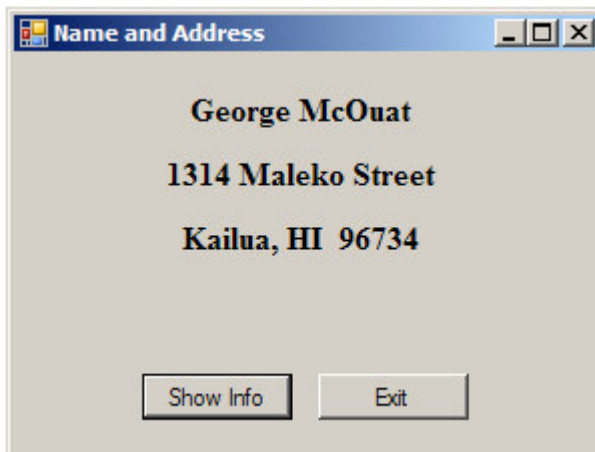
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```
'Program by:George McOuat  
'FileName: McOuat_George_02_02.vb  
'Project No: Exercise 02.02  
'Project Description: Display window, click on show info button, display name and  
address
```

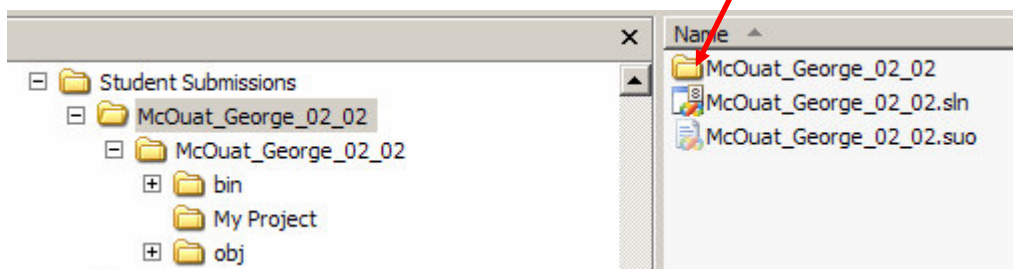
Form window, before any actions taken:



Form window, after Show Info button is clicked:



Save the test document in the project folder:

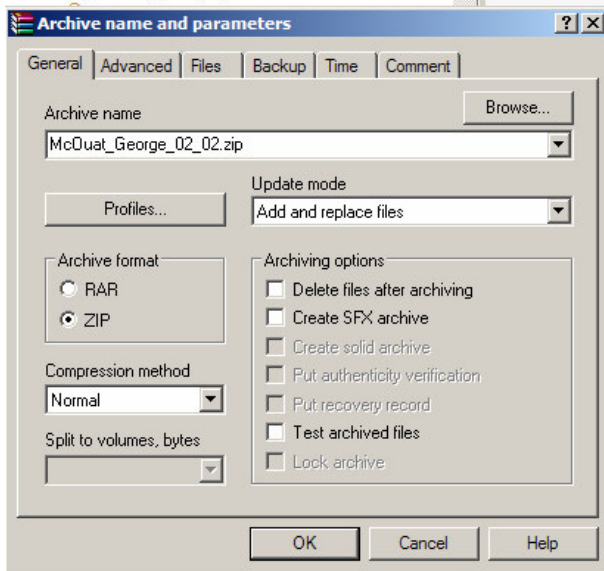
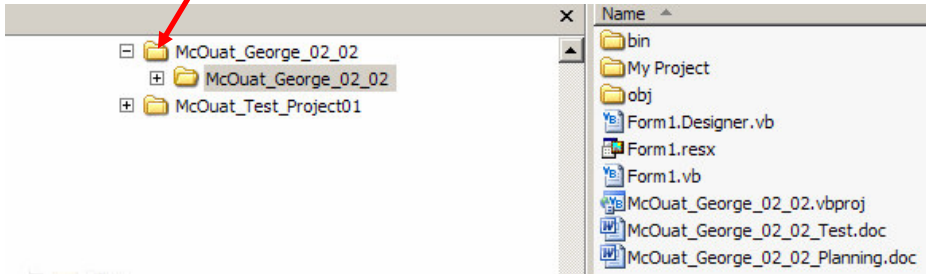




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Zip the entire solutions folder and submit to the instructor by email at gmcouat@hpu.edu



This completes the tutorial.