

CT240 Assignment 2

Date: 22-09-2011

Due: Tuesday 27th September at Lecture

Implement a Currency Converter which converts a value from one currency to another. Ensure that your form is well designed.

Goal: To use an If Statement. To use combo boxes. To implement a simple formula.

Choose at least three currencies. Conversion rates are approximately:

EUR (Euro)

GBP (UK pounds)

USD (US Dollars)

1 EUR = 1.38 USD

1 EUR = 0.873 GBP

1 USD = .723 EUR

1 USD = .632 GBP

1 GBP = 1.58 USD

1 GBP = 1.14 EUR

General Steps:

0. Create a Word document you can use for your CT240 assignments. It should contain your name, ID, date of lab, assignment number and plagiarism declaration.

1. On your form add the following controls (or similar):

- 4 labels, with text similar to “Enter amount”, “Convert From”, “Convert To” and “Result”
- One text box, `txtAmount`, which will hold the amount the user wishes to convert.
- Two Combo Boxes containing the list of currencies (e.g. USD, GBP, etc.). (see notes from lectures and below on Combo boxes).
- Two buttons, `btnConvert` and `btnExit`. Your `btnExit` button needs the code `Me.Close()` which will exit the application.
- Some way to display results ... you could do this with a text box.
- As before, you should try use proper naming conventions for controls

2. Write Code for the `btnConvert_click()` event

This code should contain an if statement which checks the selections in the combo boxes and performs the appropriate calculation. Remember when you are reading a value from a text box and wish to use it as a number you must use `Val()`

3. Test with valid and invalid input.

4. To submit at end of lecture on the 27th September: A print out containing your name, ID, date and assignment number and the following:

- Outline of problem
- IPO diagram and algorithm
- Screen shot of code or cut and paste code
- Screen shot of “typical interactions”. A typical interaction should show a few test cases. (To save toner please do not use dark colours). Hit the ‘PrtSc’ key to get a screen shot.
- Plagiarism is not acceptable and will result in a mark of 0. Please read, understand and include **and sign** the following before submitting your work:

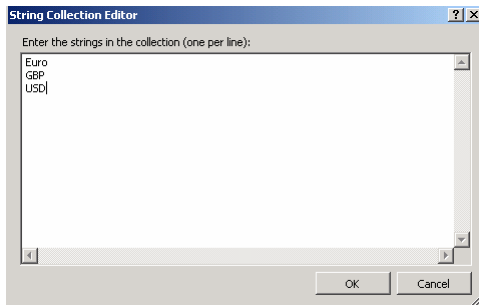
Plagiarism Declaration:

“I am aware of what plagiarism is and sign this here to confirm that this work is my own”

NOTES ON COMBO BOXES

A combo box allows a user to choose from a set of options.

Note that when you draw a combo box its **Items** property is set to “Collection”. If you click on the button beside this Items Property a window is opened which allows you enter the values you wish to have displayed in the combo box, e.g.



A combo box acts like a text box. To use a value that a user selects, just refer to the combo box name, e.g. cmbCurrency.Text

Note that 3 styles of combo box are possible (see DropDownStyle property): Simple, DropDown, DropDownList The default style (DropDown) allows a value to be entered as well as chosen from the list of available options.