**VB CODE:**

Public Class frmCurrencyConverter

'Name: Zach Smith

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'Last Updated: 14 Febuary 2020

'Description: This program calculates the amount of money inputted to the selected countries

Private Sub btnConvert\_Click(sender As Object, e As EventArgs) Handles btnConvert.Click

If Not IsNumeric(txtAmountInput.Text) Then

MessageBox.Show("Only Enter Positive Numbers", "Currency Converter", MessageBoxButtons.OK, MessageBoxIcon.Exclamation)

Else

If Val(txtAmountInput.Text) < 0 Then

txtAmountInput.Text = " "

MessageBox.Show("Only Enter Numbers between 0 and 99999.99", "Currency Converter", MessageBoxButtons.OK, MessageBoxIcon.Exclamation)

Else

If Val(txtAmountInput.Text) > 99999.99 Then

txtAmountInput.Text = " "

MessageBox.Show("Only Enter Numbers between 0 and 99999.99", "Currency Converter", MessageBoxButtons.OK, MessageBoxIcon.Exclamation)

Else

lblAmountOutput.Text = Format(Val(lblAmountOutput.Text), "$" + "##,##0.00")

Select Case cmbCountry.Text

Case "Euro (EUR)"

lblAmountOutput.Text = Format(Val(txtAmountInput.Text) \* 0.89, "$" + "##,##0.00")

Case "New Zealand Dollar (NZD)"

lblAmountOutput.Text = Format(Val(txtAmountInput.Text) \* 1.04, "$" + "##,##0.00")

Case "British Pound (GBP)"

lblAmountOutput.Text = Format(Val(txtAmountInput.Text) \* 0.52, "$" + "##,##0.00")

Case "US Dollar (USD)"

lblAmountOutput.Text = Format(Val(txtAmountInput.Text) \* 0.67, "$" + "##,##0.00")

Case "Canadian Dollar (CAD)"

lblAmountOutput.Text = Format(Val(txtAmountInput.Text) \* 0.89, "$" + "##,##0.00")

Case "Japanese Yen (JPY)"

lblAmountOutput.Text = Format(Val(txtAmountInput.Text) \* 73.89, "$" + "##,##0.00")

Case "Sweedish Krona (SEK)"

lblAmountOutput.Text = Format(Val(txtAmountInput.Text) \* 6.51, "$" + "##,##0.00")

Case "Kuwaiti Dinar (KWD)"

lblAmountOutput.Text = Format(Val(txtAmountInput.Text) \* 0.21, "$" + "##,##0.00")

End Select

End If

End If

End If

End Sub

End Class

**TEST TABLE:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Type of Test** | **Test Data** | **Expected Results** | **Actual Results** | **Note/Further Explanation** |
| **Type Test** | txtAmountInput – ‘a’ | Display error |  |  |
| **Range check boundary** | txtAmountInput – ‘99999.99’ | Display money in other currency |  |  |
| **Range check outside of boundary** | txtAmountInput – ‘1000000.00’ | Display error |  |  |
| **Blank - txtAmountInput** | txtAmountInput – ‘ ’ | Display error |  |  |
| **Blank - cmbCountry** | cmbCountry – ‘ ’ | Nothing |  |  |
| **Functionally test** | txtAmountInput – ‘3170’  country selected – ‘New Zealand Dollar (NZD)’ | Display ‘$2,295.80’ |  |  |