Public Class Form1

'==========================================================

'This is the VB source code for assignment number 3.

'It will accept variable "x" and variable "y" as the

' main two and only inputs to this application

'from two list boxes (listbox1, and listbox2).

'It will calculate the value of "z", where z equals the

'the summation of (x \* i)\*(y \* i) for i = 0 to 10.

'==========================================================

Private Sub Button1\_Click(sender As Object, e As EventArgs) Handles Button1.Click

'This sub will be activated when button 1 (Calculate Z) is pushed.

'First it will clear the z text display value if app not reset.

TextBox1.Clear() 'this is to clear whats displaying on text box 1 = Z value

'It will check if the value of x is selected; message will ask

'to input the x value properly.

If ListBox1.SelectedIndex.Equals(-1) Then

MessageBox.Show("You must select the > X < value to proceed. Please try again.")

'x is not selected; request the app to exit the pushed "calculate z" button.

Return

End If

'It will check if the value of y is selected; message will ask

'to input the y value properly.

If ListBox2.SelectedIndex.Equals(-1) Then

MessageBox.Show("You must select a > Y < value to proceed. Please try again.")

'y is not selected; request the app to exit the pushed "calculate z" button.

Return

End If

'If x and y values selected, then start the z value calcualtion.

'Create variables to hold input x, y, and calculated z values.

'First set z value to zero.

Dim intTotalZ As Integer = 0

'Read the x value from the listbox1 and assign it to intValueX

Dim intValueX As Integer = ListBox1.SelectedItem

'Read the y value from the listbox2 and assign it to intValueY

Dim intValueY As Integer = ListBox2.SelectedItem

'For-Loop starting from 0 to 10 to calculate z

'using the function provided for the assigment 3.

For i = 0 To 10

'Add the iteration value to z total value after each calculation.

intTotalZ += i \* intValueY \* i \* intValueX

Next 'Go get the next value of i

'When done calculating z, display the value in the z textbox

TextBox1.Text = intTotalZ

End Sub

'------------------------------------------------------

'This sub is the "Reset", and it will clear the two used listboxes

'(listbox1 and listbox2) and also it will clear the calculated z

'value in the assigned textbox.

Private Sub Button2\_Click(sender As Object, e As EventArgs) Handles Button2.Click

'Clear highlighted number on textbox 1

ListBox1.SelectedItems.Clear()

'Clear highlighted number on textbox 2

ListBox2.SelectedItems.Clear()

'Clear calculated z which is displyed in textbox1.

TextBox1.Clear()

End Sub

'---------------------------------------------------------------

'This is the "Exit" sub which will send a goodbye message then exit.

Private Sub Button3\_Click(sender As Object, e As EventArgs) Handles Button3.Click

'Display a thank you message to the user.

MessageBox.Show("Thank you for using my application. سعيد القحطاني")

'Exit the application safely.

Me.Close()

End Sub

End Class