**Task 1 Code – Tom H**

This is my code for Task 1:

Public Class Task1

Dim Sentence, Word, UCSentence, UCWord As String

Dim Position As Integer

Dim WordCheck As Boolean = False

Dim Words As Array

'These are all of my variables that I shall be using throughout my program.

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

Sentence = InputBox("Plese enter your sentence here!", "Sentence:")

'This brings up a message box for the user to enter their sentence into.

UCSentence = UCase(Sentence)

'This code makes the sentence uppercase so there is no case sensitivity.

If UCSentence = "" Then

MsgBox("You need to enter a sentence!", vbExclamation, "No sentence error:")

Exit Sub

'This checks if a sentence has not been entered and brings up an error if so.

End If

lstTask1.Items.Add("Your sentence is:")

lstTask1.Items.Add("'" & Sentence & "'")

lstTask1.Items.Add("")

'This shows on the listbox what my sentence is.

btnSentence.Enabled = False

btnWord.Enabled = True

'This switches round which buttons are enabled.

End Sub

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

Word = InputBox("Please enter your word here!", "Word: ")

'This brings up a message box for the user to enter their word into.

UCWord = UCase(Word)

Words = Split(UCSentence, " ")

'This changes the case of the word and splits the sentence into parts of an array.

If UCWord = "" Then

MsgBox("You need to enter a word!", vbExclamation, "No word error:")

Exit Sub

'This checks if a word has not been entered and brings up an error message if so.

ElseIf UCWord.Contains(" ") Then

MsgBox("Your word '" & Word & "' contains a space! You have either entered two words or entered a space by accident! Please try again!", vbCritical, "Space error:")

lstTask1.Items.Add("'" & Word & "'" & " => Failed!")

Exit Sub

'This checks whether or not the sentence contains a space which either means one has been entered accidently or two words have been entered.

End If

For i = 0 To Words.Length - 1

If UCWord = Words(i) Then

Position = i + 1

lstTask1.Items.Add("'" & Word & "'" & " is in the position: " & Position)

WordCheck = True

End If

Next

'This loop goes through the sentence and puts the position(s) of the word in the sentence.

If WordCheck = True Then

WordCheck = False

ElseIf WordCheck = False Then

MsgBox("Your word '" & Word & "' wasn't in the sentence! Please try again!", vbCritical, "No word error:")

lstTask1.Items.Add("The word '" & Word & "'" & " => Failed!")

End If

'This checks if the sentence is even in the sentence at all.

Me.lstTask1.TopIndex = lstTask1.Items.Count - 1

'This goes to the bottom of the list box.

End Sub

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

lstTask1.Items.Clear()

btnSentence.Enabled = True

btnWord.Enabled = False

'This button resets the program entirely.

End Sub

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

If Sentence = "" Then

MsgBox("There is nothing in the list box to clear!", vbExclamation, "Empty list box error:")

Else

lstTask1.Items.Clear()

lstTask1.Items.Add("Your sentence is:")

lstTask1.Items.Add("'" & Sentence & "'")

lstTask1.Items.Add("")

End If

'This clears the text box of all guesses.

End Sub

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

MsgBox("Your program is closing!", vbCritical, "Close program:")

Me.Close()

'This closes the program and gives you a warning when it does so.

End Sub

End Class