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1 Public Class Form1
2     Private Function IsWayTooLong(ByVal numberFromZeroToFifteen As Integer) As String
3         If numberFromZeroToFifteen = 0 Then
4             Return "Your number is: Zero"
5         End If
6         If numberFromZeroToFifteen = 1 Then
7             Return "Your number is: One"
8         End If
9         If numberFromZeroToFifteen = 2 Then
10            Return "Your number is: Two"
11        End If
12        If numberFromZeroToFifteen = 3 Then
13            Return "Your number is: Three"
14        End If
15        If numberFromZeroToFifteen = 4 Then
16            Return "Your number is: Four"
17        End If
18        If numberFromZeroToFifteen = 5 Then
19            Return "Your number is: Five"
20        End If
21        If numberFromZeroToFifteen = 6 Then
22            Return "Your number is: Six"
23        End If
24        If numberFromZeroToFifteen = 7 Then
25            Return "Your number is: Seven"
26        End If
27        If numberFromZeroToFifteen = 8 Then
28            Return "Your number is: Eight"
29        End If
30        If numberFromZeroToFifteen = 9 Then
31            Return "Your number is: Nine"
32        End If
33        If numberFromZeroToFifteen = 10 Then
34            Return "Your number is: Ten"
35        End If
36        If numberFromZeroToFifteen = 11 Then
37            Return "Your number is: Eleven"
38        End If
39        If numberFromZeroToFifteen = 12 Then
40            Return "Your number is: Twelve"
41        End If
42        If numberFromZeroToFifteen = 13 Then
43            Return "Your number is: Thirteen"
44        End If
45        If numberFromZeroToFifteen = 14 Then
46            Return "Your number is: Fourteen"
47        End If
48        If numberFromZeroToFifteen = 15 Then
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49         Return "Your number is: Fifteen"
50     End If
51     If numberFromZeroToFifteen < 0 Then
52         Return "Your number is: Too Low"
53     End If
54     If numberFromZeroToFifteen > 15 Then
55         Return "Your number is: Too High"
56     End If
57 End Function
58 'This is the working code from Sprints 1 and 2
59 Private Function ValidateAndConvert(ByVal convertThisString As String,
60     ByVal toThisInteger As Integer) As String
61     Dim message As String = ""
62     Try
63         toThisInteger = CInt(convertThisString)
64     Catch ex As Exception
65         message = "Must contain a number"
66         If convertThisString = "" Then message = "is empty"
67     End Try
68     Return message
69 End Function
70 'Do Not change this code other than comment/uncomment the lines indicated
71 Private Sub GetUserInput() Handles Me.Load
72     Me.Hide()
73     Dim tempNum As Integer = 0
74     Dim userMessage As String = "Please Enter A Number Between 0 and 15" _
75         & vbCrLf & "Type Q to Quit"
76     Do
77         userMessage = InputBox(userMessage, "Hello", "")
78         If userMessage <> "Q" And userMessage <> "" Then
79             userMessage = ValidateAndConvert(userMessage, tempNum)
80             'If userMessage = "" Then userMessage = IsWayTooLong(tempNum)
81             'Replace this line
82             If userMessage = "" Then userMessage = ShortAndSweet(tempNum)
83             'With this one
84         End If
85     Loop Until userMessage = "Q" Or userMessage = ""
86     Me.Close()
87 End Sub
88 'In as few lines as possible produce the same results as the function
89 IsWayTooLong()
90 'Hint use a loop and a List or Array
91 'Also only have one return statement at the end
92 Private Function ShortAndSweet(ByVal numberFromZeroToFifteen As Integer) As String
93     ShortAndSweet = ""
94     Dim numbers(,) As Object = {{0, "Zero"}, {1, "One"}, {2, "Two"}, {3,
95         "Three"}, {4, "Four"}, {5, "Five"},
96         {6, "Six"}, {7, "Seven"}, {8, "Eight"}, {9, "Nine"}, {10, "Ten"},

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        {11, "Eleven"}, {12, "Twelve"},  
92        {13, "Thirteen"}, {14, "Fourteen"}, {15, "Fifteen"}}  
93    Dim i As Integer  
94    If numberFromZeroToFifteen < 0 Then  
95        Return "Your number is: Too Low"  
96    ElseIf numberFromZeroToFifteen > 15 Then  
97        Return "Your number is: Too High"  
98    End If  
99    For i = 0 To UBound(numbers)  
100        If numberFromZeroToFifteen = numbers(i, 0) Then  
101            ShortAndSweet = numbers(i, 1)  
102            Exit For  
103        End If  
104    Next  
105    Return ShortAndSweet  
106 End Function  
107 End Class  
108
```