

```
1  'Tim Rossiter
2  'RCET0265
3  'Spring 2020
4  'messagefunc assignment
5  'https://github.com/wallbenj93/BLW-VS-S20
6
7
8  Module MessageFunc
9
10     Sub Main()
11         MsgBox(UserMessages(True, "hello", False))
12         UserMessages(True, "hello 1", False)
13         UserMessages(True, "hello 2", False)
14         UserMessages(True, "hello 3", False)
15         MsgBox(UserMessages(True, "", False))
16         TestUserMessages()
17         Console.ReadLine()
18     End Sub
19
20     Function UserMessages(addMessage As Boolean, message As String, clearMessage As Boolean) As String
21         Static formattedMessages As String = ""
22
23         'check whether or not the user wants to clear the message
24         If clearMessage = False Then
25             'doesn't clear message, only adds to it
26             If addMessage = True Then
27                 formattedMessages &= message & vbNewLine
28             End If
29         Else
30             formattedMessages = ""
31             'this clears the message and then adds to to if clear and add are both true
32             If addMessage = True Then
33                 formattedMessages &= message & vbNewLine
34             End If
35         End If
36         Return formattedMessages
37
38     End Function
39
40     Sub TestUserMessages()
41         'code to test, copied from Tim
42         Dim testString, control, evaluate As String
43         Dim saveMessage, clearMessage As Boolean
44         Dim testCounter, successCounter As Integer
45         Dim separator As String = StrDup(40, "*") & vbNewLine
46
47         For testCounter = 1 To 12
48
49             'Initialize
50             testString = "Test " & Str(testCounter)
```

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51     saveMessage = False
52     clearMessage = False
53
54     'Change Arguments
55     If testCounter Mod 3 = 0 Then
56         control = ""
57         clearMessage = True
58     ElseIf testCounter < 5 Or testCounter > 8 Then
59         saveMessage = True
60         control &= testString & vbNewLine
61     End If
62
63     'Run Test
64     Console.WriteLine("Testing: " & vbNewLine _
65         & "Save message flag is:      " & saveMessage & vbNewLine _
66         & "Message Text is:           " & Chr(34) & testString & Chr(34) & vbNewLine _
67         & "Clear message flag is:    " & clearMessage)
68
69     evaluate = UserMessages(saveMessage, testString, clearMessage)
70
71     'Evaluate Test Display Test Results
72     If evaluate = control Then
73         Console.WriteLine("Test" & Str(testCounter) _
74             & ".....PASS" & vbNewLine)
75         successCounter += 1
76     Else
77         Console.WriteLine("Test" & Str(testCounter) _
78             & ".....FAIL" & vbNewLine & vbNewLine _
79             & "Expected: " & vbNewLine & control & vbNewLine _
80             & "Actual: " & vbNewLine & evaluate & vbNewLine)
81     End If
82
83 Next
84
85 'Display Summary
86 Console.WriteLine(vbNewLine & separator & separator & vbNewLine _
87     & Str(successCounter) & " of" & Str(testCounter - 1) _
88     & " tests passed" & vbNewLine & vbNewLine & separator & separator)
89 End Sub
90
91
92 End Module
93
```