```vb
1  'could not get this to work with option strict works without however.
2  'Tyler Lish
3  'RCET 0265
4  Public Class Form1
5      Private Function ValidateAndConvert(ByVal convertThisString As String, ByRef ⮡
          toThisInteger As Decimal) As String
6
7          Try
8              toThisInteger = CShort(convertThisString)
9
10         Catch ex As Exception
11             If convertThisString = "" Then
12                 convertThisString = ("is empty")
13             Else
14                 convertThisString = ("Must contain a number")
15             End If
16         End Try
17     End Function
18     Private Sub TestValidateAndConvert() Handles Me.Load
19         Dim count As Integer = 0
20         Dim result As Integer = 0
21         Dim pad As Integer = 15
22         Dim report As String = ""
23         Dim temp As String = ""
24         Dim testData = New String(4, 4) {
25 {"5", "2", "17", "8", "42"},
26 {"6.7", "3.14", "5.4", "5.5", "0.125"},
27 {"-21", "-32.1", "-4", "-4.5", "-4.4"},
28 {"", "", "", "", ""},
29 {"True", "False", "10010", "90210", "dog"}}
30         For row = 0 To 4
31             For column = 0 To 4
32                 result = 0
33                 temp = ValidateAndConvert(testData(row, column), result)
34                 report &= ("Trying: " & testData(row, column)).PadRight(pad)
35                 If row < 3 Then
36                     If CStr(CInt(testData(row, column))) <> CStr(result) Or temp ⮡
                       <> "" Then
37                         report &= " TEST FAIL" & vbNewLine
38                         report &= ("Result is: " & CStr(result)).PadRight(pad) & ⮡
                       " : " & temp & vbNewLine
39                         report &= ("Should be: " & CStr(CInt(testData(row,       ⮡
                       column)))).PadRight(pad) & " : " _
40 & "<Empty>" & vbNewLine
41                     Else
42                         report &= " TEST PASS" & vbNewLine
43                         count += 1
44                     End If
45                 ElseIf temp <> "is empty" And row = 3 Then
```

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46                        report &= " TEST FAIL" & vbNewLine
47                        report &= ("Result is: " & CStr(result)).PadRight(pad) & " : ↵
                           " & temp & vbNewLine
48                        report &= ("Should be: " & CStr(0)).PadRight(pad) & " : " & ↵
                           "is empty" & vbNewLine
49                   ElseIf temp <> "Must contain a number" And row > 3 Then
50                        report &= " TEST FAIL" & vbNewLine
51                        report &= ("Result is: " & CStr(result)).PadRight(pad) & " : ↵
                           " & temp & vbNewLine
52                        report &= ("Should be: " & CStr(0)).PadRight(pad) & " : " & ↵
                           "Must contain a number" _
53 & vbNewLine
54                   Else
55                        report &= " TEST PASS" & vbNewLine
56                        count += 1
57                   End If
58                Next
59            Next
60            Console.WriteLine(report & "Passed " & CStr(count) & " of 25 tests.      ↵
                Score: " _
61 & CStr((count / 25) * 100) & "%")
62            MessageBox.Show("Passed " & CStr(count) & " of 25 tests. Score: " _
63 & CStr((count / 25) * 100) & "%")
64        End Sub
65
66 End Class
67
```