```
1
2 Public Class Form1
3
       Private Sub TestValidateAndConvert() Handles Me.Load
           Dim count As Integer = 0
4
5
           Dim result As Integer = 0
6
           Dim pad As Integer = 15
7
           Dim report As String = ""
8
           Dim temp As String = ""
9
           Dim testData = New String(4, 4) {
       {"5", "2", "17", "8", "42"},
10
       {"6.7", "3.14", "5.4", "5.5", "0.125"},
11
       {"-21", "-32.1", "-4", "-4.5", "-4.4"},
12
       {"", "", "", "", ""},
13
       {"True", "False", "10010", "90210", "dog"}}
14
15
           For row = 0 To 4
                For column = 0 To 4
16
17
                   result = 0
                   temp = ValidateAndConvert(testData(row, column), result)
18
                   report &= ("Trying: " & testData(row, column)).PadRight(pad)
19
20
                   If row < 3 Then
21
                       If CStr(CInt(testData(row, column))) <> CStr(result) Or temp >
                         <> "" Then
22
                            report &= " TEST FAIL" & vbNewLine
                            report &= ("Result is: " & CStr(result)).PadRight(pad) & >
23
                         " : " & temp & vbNewLine
                            report &= ("Should be: " & CStr(CInt(testData(row,
24
                        column)))).PadRight(pad) & " : " _
25
       & "<Empty>" & vbNewLine
26
                       Else
                            report &= " TEST PASS" & vbNewLine
27
28
                           count += 1
29
                        End If
30
                   ElseIf temp <> "is empty" And row = 3 Then
                        report &= " TEST FAIL" & vbNewLine
31
                        report &= ("Result is: " & CStr(result)).PadRight(pad) & ":>
32
                         " & temp & vbNewLine
                        report &= ("Should be: " & CStr(0)).PadRight(pad) & " : " & >
33
                        "is empty" & vbNewLine
                   ElseIf temp <> "Must contain a number" And row > 3 Then
34
35
                        report &= " TEST FAIL" & vbNewLine
                        report &= ("Result is: " & CStr(result)).PadRight(pad) & ":>
                         " & temp & vbNewLine
37
                        report &= ("Should be: " & CStr(0)).PadRight(pad) & " : " & >
                        "Must contain a number" _
38
       & vbNewLine
39
40
                        report &= " TEST PASS" & vbNewLine
41
                       count += 1
                   End If
42
```

```
...rine\OneDrive\Documents\GitHub\TK-VS-F19\Sprint2\Form1.vb
```

```
2
```

```
43
                Next
44
           Next
45
           Console.WriteLine(report & "Passed " & CStr(count) & " of 25 tests.
              Score: " _
       & CStr((count / 25) * 100) & "%")
46
           MessageBox.Show("Passed " & CStr(count) & " of 25 tests. Score: " _
47
       & CStr((count / 25) * 100) & "%")
48
       End Sub
49
50
51
       Private Function ValidateAndConvert(ByVal convertThisString, ByRef
         toThisInteger) As String
52
53
54
           Try
55
               Decimal.Parse(convertThisString, toThisInteger)
56
           Catch ex As Exception
57
58
                If convertThisString = "" Then
59
                   Return "Is empty"
60
                Else
                   Return "Must be a number"
61
62
                End If
63
64
           End Try
65
66
           Return ""
67
68
       End Function
69
70 End Class
```