```vb
1  'Dane Davids
2  'RCET 0265
3  'Sprint-1 & Sprint-2
4  'Convert string to integer
5
6  Option Explicit On
7  Option Strict On
8  Option Compare Binary
9  Public Class SprintForm
10     Private Sub TestValidateAndConvert() Handles Me.Load
11         Dim count As Integer = 0
12         Dim result As Integer = 0
13         Dim pad As Integer = 15
14         Dim report As String = ""
15         Dim temp As String = ""
16         Dim testData = New String(4, 4) {{"5", "2", "17", "8", "42"}, {"6.7",     ⇝
             "3.14", "5.4", "5.5", "0.125"}, {"-21", "-32.1", "-4", "-4.5", "-4.4"},  ⇝
             {"", "", "", "", ""}, {"True", "False", "l0Ol0", "90Ol0", "dog"}}
17         For row = 0 To 4
18             For column = 0 To 4
19                 result = 0
20                 temp = ValidateAndConvert(testData(row, column), result)
21                 report &= ("Trying: " & testData(row, column)).PadRight(pad)
22                 If row < 3 Then
23                     If CStr(CInt(testData(row, column))) <> CStr(result) Or temp   ⇝
                        <> "" Then
24                         report &= " TEST FAIL" & vbNewLine
25                         report &= ("Result is: " & CStr(result)).PadRight(pad) &   ⇝
                        " : " & temp & vbNewLine
26                         report &= ("Should be: " & CStr(CInt(testData(row,         ⇝
                        column)))).PadRight(pad) & " : " & "<Empty>" & vbNewLine
27                     Else
28                         report &= " TEST PASS" & vbNewLine
29                         count += 1
30                     End If
31                 ElseIf temp <> "is empty" And row = 3 Then
32                     report &= " TEST FAIL" & vbNewLine
33                     report &= ("Result is: " & CStr(result)).PadRight(pad) & " : " ⇝
                         & temp & vbNewLine
34                     report &= ("Should be: " & CStr(0)).PadRight(pad) & " : " &    ⇝
                        "is empty" & vbNewLine
35                 ElseIf temp <> "Must contain a number" And row > 3 Then
36                     report &= " TEST FAIL" & vbNewLine
37                     report &= ("Result is: " & CStr(result)).PadRight(pad) & " : " ⇝
                         & temp & vbNewLine
38                     report &= ("Should be: " & CStr(0)).PadRight(pad) & " : " &    ⇝
                        "Must contain a number" & vbNewLine
39                 Else
40                     report &= " TEST PASS" & vbNewLine
41                     count += 1
42                 End If
43             Next
```

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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: " & CStr   ⮡
                ((count / 25) * 100) & "%")
47      End Sub
48
49      Private Function ValidateAndConvert(ByRef convertThisString As String,
50                                  ByRef toThisInteger As Integer) As String
51
52          'Try and catch attemps to convert a string to integer
53          Try
54              toThisInteger = CInt(convertThisString)
55          Catch ex As Exception
56
57              'If statement is placed to check if string is empty, or else the _
58              'output will tell the user to input a number
59              If convertThisString = "" Then
60
61                  ValidateAndConvert = "is empty"
62              Else
63
64                  ValidateAndConvert = "Must contain a number"
65              End If
66              If ValidateAndConvert = "" Then
67
68              End If
69          End Try
70
71          Return (ValidateAndConvert)
72      End Function
73
74      Private Sub ConvertButton_Click(sender As Object, e As EventArgs)
75          'converThisString and toThisInteger are Dimension to meet the _
76          'arguments in the sub it Is calling; arguments were placed because _
77          'of instructions
78          Dim convertThisString As String, toThisInteger As Integer
79          ValidateAndConvert(convertThisString, toThisInteger)
80      End Sub
81
82      Private Sub ExitButton_Click(sender As Object, e As EventArgs) Handles _
83              ExitButton.Click
84          Me.Close()
85      End Sub
86  End Class
87
```