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1 'Logan Garcia
2 'Spring 2020
3 'RCET0265
4 'BetterCalculator
5 'https://github.com/garcloga/LRG-VS-S20
6
7
8 Option Strict On
9 Option Explicit On
10
11
12 Module Module1
13
14     'Naming Variables
15     Public entryOne As String
16     Public entryTwo As String
17     Public numberOne As Double
18     Public numberTwo As Double
19     Public operation As Double
20     Public OperationEntry As String
21
22
23     'Intro sub
24     Sub Intro()
25
26         Console.WriteLine("Please enter two numbers. Enter " & "Q" & " at any ↗
27             time to quit.")
28         ChooseNumberOne()
29     End Sub
30
31
32     Sub ChooseNumberOne()
33
34         Console.WriteLine("Choose a number")
35         entryOne = Console.ReadLine()
36         'Checking if a valid number was entered
37
38         If entryOne = "Q" Then
39             Console.WriteLine("You entered " & entryOne)
40             Console.WriteLine("Have a nice day")
41             Console.WriteLine("Press enter to close this window")
42             Console.ReadLine()
43             End
44
45         ElseIf entryOne = "q" Then
46             Console.WriteLine("You entered " & entryOne)
47             Console.WriteLine("Have a nice day")
48             Console.WriteLine("Press enter to close this window")
```

```
49         Console.ReadLine()
50     End
51
52 End If
53
54
55 Try
56
57     numberOne = CInt(entryOne)
58
59 Catch ex As Exception
60
61     Console.WriteLine("You entered " & entryOne & " please enter a whole number")
62     ChooseNumberOne()
63
64 End Try
65
66 'Returning the value the user entered
67 Console.WriteLine("You entered " & numberOne)
68 ChooseNumberTwo()
69
70 End Sub
71
72 Sub ChooseNumberTwo()
73
74     Console.WriteLine("Choose a number")
75     entryTwo = Console.ReadLine()
76
77 If entryTwo = "Q" Then
78     Console.WriteLine("You entered " & entryTwo)
79     Console.WriteLine("Have a nice day")
80     Console.WriteLine("Press enter to close this window")
81     Console.ReadLine()
82 End
83 ElseIf entryTwo = "q" Then
84     Console.WriteLine("You entered " & entryTwo)
85     Console.WriteLine("Have a nice day")
86     Console.WriteLine("Press enter to close this window")
87     Console.ReadLine()
88 End
89 End If
90
91 'Checking if a valid number was entered
92 Try
93     numberTwo = CInt(entryTwo)
94 Catch ex As Exception
95     Console.WriteLine("You entered " & entryTwo & " please enter a whole number")
```

```
96         ChooseNumberTwo()
97     End Try
98
99     'Returning the value the user entered
100    Console.WriteLine("You entered " & numberTwo)
101
102    'Calling the Operations sub
103    Operations()
104
105
106 End Sub
107
108 Sub Operations()
109
110    'Writing the menu options to the user
111    Console.WriteLine("Choose one of the following options:")
112    Console.WriteLine("1. Add")
113    Console.WriteLine("2. Subtract")
114    Console.WriteLine("3. Multiply")
115    Console.WriteLine("4. Divide")
116
117    OperationEntry = Console.ReadLine()
118
119    If OperationEntry = "Q" Then
120        Console.WriteLine("You entered " & OperationEntry)
121        Console.WriteLine("Have a nice day")
122        Console.WriteLine("Press enter to close this window")
123        Console.ReadLine()
124    End
125    ElseIf OperationEntry = "q" Then
126        Console.WriteLine("You entered " & OperationEntry)
127        Console.WriteLine("Have a nice day")
128        Console.WriteLine("Press enter to close this window")
129        Console.ReadLine()
130    End
131 End If
132
133 Try
134     operation = CInt(OperationEntry)
135 Catch Q As Exception
136
137     ChooseNumberOne()
138 End Try
139
140 'setting the operations to their assigned number values
141 If operation = 1 Then
142     Console.WriteLine("You Entered " & OperationEntry)
143     Console.WriteLine(entryOne & " + " & entryTwo & " = " & numberOne +  
        + numberTwo)
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144
145     ElseIf operation = 2 Then
146         Console.WriteLine("You Entered " & OperationEntry)
147         Console.WriteLine(entryOne & " - " & entryTwo & " = " & numberOne -
            numberTwo)
148
149     ElseIf operation = 3 Then
150         Console.WriteLine("You Entered " & OperationEntry)
151         Console.WriteLine(entryOne & " * " & entryTwo & " = " & numberOne *
            numberTwo)
152
153     ElseIf operation = 4 Then
154         Console.WriteLine("You Entered " & OperationEntry)
155         Console.WriteLine(entryOne & " / " & entryTwo & " = " &
            numberOne / numberTwo)
156
157     ElseIf operation > 4 Then
158         Operations()
159     End If
160
161     'restarting the program
162     Intro()
163
164 End Sub
165
166 End Module
167
```