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1 'Anthony Shore
2 'RCET0265
3 'Spring 2020
4 'Better Calculator
5 'https://github.com/shoranth/AVS-VS-S20
7 Option Compare Text
9 Module BetterCalculator
10
11
       Sub Main()
           Dim firstNumber As String
12
13
           Dim secondNumber As String
14
           Dim userChoice As String
15
           Dim quitProgram As Boolean
           Dim promptUser1 As Boolean
16
17
           Dim promptUser2 As Boolean
18
           userChoice = ""
19
           firstNumber = ""
20
           secondNumber = ""
21
22
23
            'While loop used to make the calculator run again until the user quits >
              the program
24
           Do Until quitProgram = True
25
26
               promptUser1 = True
27
               promptUser2 = True
28
               quitProgram = False
29
30
               '1st number code
               Console.WriteLine("Please enter two numbers. Enter ""Q"" at any
31
                 time to quit.")
32
               Console.WriteLine("Choose a number")
33
               Do While promptUser1 = True
34
                   firstNumber = Console.ReadLine()
                    If (firstNumber = "q") Then
35
36
                        Environment.Exit(0)
37
                    End If
38
                    Try
                        firstNumber = CInt(firstNumber)
39
                        Console.WriteLine("You entered " & Chr(34) & firstNumber &>
40
                        Chr(34))
41
                        promptUser1 = False
42
                   Catch ex As Exception
43
                        Console.WriteLine("You entered " & Chr(34) & firstNumber &>
                        Chr(34))
44
                        Console.WriteLine("Please try again and enter a whole
                       number")
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45
                        promptUser1 = True
46
                    End Try
47
                Loop
48
49
                Console.WriteLine()
50
                '2nd number code
51
                Console.WriteLine("Please enter a 2nd number...")
52
53
                Do While promptUser2 = True
                    secondNumber = Console.ReadLine
54
55
                    If (secondNumber = "q") Then
                        Environment.Exit(0)
56
57
                    End If
58
                    Try
59
                        secondNumber = CInt(secondNumber)
                        Console.WriteLine("You entered " & Chr(34) & secondNumber →
60
                        & Chr(34))
                        promptUser2 = False
61
62
                    Catch ex As Exception
                        Console.WriteLine("Please enter a whole number")
63
                        Console.WriteLine("You entered " & Chr(34) & secondNumber →
64
                        & Chr(34))
65
                        promptUser2 = True
66
                    End Try
67
               Loop
68
69
               Console.WriteLine()
70
71
                'user selects which operation they want to perform on the entered 🤝
                  numbers
72
               Dο
73
                    Console.WriteLine("Choose one of the following options:")
74
                    Console.WriteLine("1. Add")
75
                    Console.WriteLine("2. Subtract")
                    Console.WriteLine("3. Multiply")
76
                    Console.WriteLine("4. Divide")
77
78
                    userChoice = Console.ReadLine()
79
                    If (userChoice = "q") Then
80
                        Environment.Exit(0)
81
                    End If
                    Console.WriteLine("You entered " & Chr(34) & userChoice & Chr >
82
                      (34))
83
                Loop Until (userChoice = "1") Or (userChoice = "2") Or (userChoice >
                   = "3") Or (userChoice = "4")
84
85
                'addition code
                If userChoice = "1" Then
86
87
                    Try
                        Console.WriteLine(CDbl(firstNumber) + CDbl(secondNumber))
88
```

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89
                     Catch ex As InvalidCastException
 90
                         Console.WriteLine("Please enter a whole number")
 91
                     Catch ex As Exception
                         Console.WriteLine("You broke it")
 92
 93
                     End Try
 94
                     'Subtraction code
 95
                 ElseIf userChoice = "2" Then
 96
 97
                     Try
                         Console.WriteLine(firstNumber - secondNumber)
 98
99
                     Catch ex As InvalidCastException
100
                         Console.WriteLine("Please enter a whole number")
101
                     Catch ex As Exception
                         Console.WriteLine("You broke it")
102
103
                     End Try
104
105
                     'multiplication code
                 ElseIf userChoice = "3" Then
106
107
                     Try
108
                         Console.WriteLine(firstNumber * secondNumber)
109
                     Catch ex As InvalidCastException
                         Console.WriteLine("Please enter a whole number")
110
111
                     Catch ex As Exception
                         Console.WriteLine("You broke it")
112
113
                     End Try
114
                     'division code
115
116
                 ElseIf userChoice = "4" Then
117
                     Try
118
                         Console.WriteLine(firstNumber / secondNumber)
119
                     Catch ex As InvalidCastException
                         Console.WriteLine("Please enter a whole number")
120
121
                     Catch ex As Exception
                         Console.WriteLine("You broke it")
122
123
                     End Try
124
125
                 Else
126
                     Console.WriteLine("Invalid Selection")
127
128
                 Console.WriteLine("Press Enter To Run Again. Enter Q to quit.")
129
                 'user enters q to quit the program or the program will repeat when >
130
                    enter is pressed
                 If Console.ReadLine() = "q" Then
131
                     Console.WriteLine("You entered ""Q""")
132
                     Console.WriteLine("Have a nice day.")
133
134
                     Console.WriteLine("Please press enter to close this window.")
                     Console.ReadLine()
135
                     quitProgram = True
136
```

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137
                Else
138
                    quitProgram = False
                End If
139
140
                Console.Clear()
141
142
            Loop
143
        End Sub
144
145 End Module
146
```