```vb
1  'Doyle_Shaw
2  'RCET0265
3  'Spring_2020
4  'Simple_Calculator
5  'https://github.com/shawdoyl/DHS-VS-S20
6
7  Option Explicit On
8  Option Strict On
9  Option Compare Text
10
11 Module BetterCalculator
12
13     Sub Main()
14         Dim firstNumber As Integer
15         Dim secondNumber As Integer
16         Dim mathFunction As String
17         Dim quitProgram As Boolean
18         Dim promptUser As Boolean
19
20         promptUser = True
21         quitProgram = False
22
23         Do While quitProgram = False
24
25             Console.WriteLine("Please enter first number. Press Enter to ⏎
                   proceed.")
26             Console.WriteLine("Press Q to to Exit at any time.")
27             Do While promptUser = True
28                 Try
29                     firstNumber = CInt(Console.ReadLine())
30                     promptUser = False
31                 Catch ex As Exception
32                     Console.WriteLine("Please Enter a Whole Number.")
33                     promptUser = True
34                 End Try
35             Loop
36             promptUser = True
37
38             Console.WriteLine("You entered " & firstNumber & ".")
39             Console.WriteLine("Please enter second number. Press Enter to ⏎
                   proceed.")
40             Do While promptUser = True
41                 Try
42                     secondNumber = CInt(Console.ReadLine())
43                     promptUser = False
44                 Catch ex As Exception
45                     Console.WriteLine("Please Enter a Whole Number.")
46                     promptUser = True
47                 End Try
48             Loop
49             promptUser = True
50
```

```vb
51                Console.WriteLine("Please enter desired function. Press Enter to
                     finish calcultion.")
52                Console.WriteLine("1. product(*)")
53                Console.WriteLine("2. sum(+)")
54                Console.WriteLine("3. difference(-)")
55                Console.WriteLine("4. quotient(/)")
56                Console.WriteLine("5. exponent(^)")
57                mathFunction = Console.ReadLine()
58
59                If mathFunction = "Sum" Or mathFunction = "Addition" Or mathFunction
                     = "Add" Or mathFunction = "+" Or mathFunction = "2" Then
60                    Try
61                        Console.WriteLine(firstNumber & "+" & secondNumber & "=" &
                             firstNumber + secondNumber)
62                    Catch ex As InvalidCastException
63                        Console.WriteLine("Please Enter a Whole Number.")
64                    Catch ex As Exception
65                        Console.WriteLine("This is broken now.")
66                    End Try
67                ElseIf mathFunction = "*" Or mathFunction = "Multiply" Or
                   mathFunction = "Multiplication" Or mathFunction = "Product" Or
                   mathFunction = "Mult" Or mathFunction = "1" Then
68                    Try
69                        Console.WriteLine(firstNumber & "*" & secondNumber & "=" &
                             firstNumber * secondNumber)
70                    Catch ex As InvalidCastException
71                        Console.WriteLine("Please Enter a Whole Number.")
72                    Catch ex As Exception
73                        Console.WriteLine("This is broken now.")
74                    End Try
75                ElseIf mathFunction = "-" Or mathFunction = "Subtract" Or
                   mathFunction = "Minus" Or mathFunction = "Difference" Or
                   mathFunction = "Sub" Or mathFunction = "3" Then
76                    Try
77                        Console.WriteLine(firstNumber & "-" & secondNumber & "=" &
                             firstNumber - secondNumber)
78                    Catch ex As InvalidCastException
79                        Console.WriteLine("Please Enter a Whole Number.")
80                    Catch ex As Exception
81                        Console.WriteLine("This is broken now.")
82                    End Try
83                ElseIf mathFunction = "Quotient" Or mathFunction = "/" Or
                   mathFunction = "Divide" Or mathFunction = "Division" Or
                   mathFunction = "Div" Or mathFunction = "4" Then
84                    Try
85                        Console.WriteLine(firstNumber & "/" & secondNumber & "=" &
                             firstNumber / secondNumber)
86                    Catch ex As InvalidCastException
87                        Console.WriteLine("Please Enter a Whole Number.")
88                    Catch ex As Exception
89                        Console.WriteLine("This is broken now.")
90                    End Try
```

```vb
 91                ElseIf mathFunction = "Exponent" Or mathFunction = "^" Or
                   mathFunction = "To the Power of" Or mathFunction = "5" Then
 92                    Try
 93                        Console.WriteLine(firstNumber & "^" & secondNumber & "=" &
                           firstNumber ^ secondNumber)
 94                    Catch ex As InvalidCastException
 95                        Console.WriteLine("Please Enter a Whole Number.")
 96                    Catch ex As Exception
 97                        Console.WriteLine("This is broken now.")
 98                    End Try
 99                Else
100                    Console.WriteLine("That is not an appropiate Response.")
101                End If
102
103                Console.WriteLine("Press Enter to continue, enter Q then Enter to
                   quit program.")
104
105                If Console.ReadLine() = "q" Then
106                    quitProgram = True
107                Else
108                    quitProgram = False
109                End If
110
111                Console.Clear()
112
113            Loop
114
115            Console.WriteLine("Have A Nice Day.")
116            Console.ReadLine()
117
118
119        End Sub
120
121  End Module
122
```