```
1 'Tyler Lish
2 'RCET0265
3 'Asg4-1
4 'https:///github.com/lishtyl2/TL-VS-F19/tree/master/Assignments
 5 Option Strict On
6 Option Explicit On
8 Public Class MathContest
9
       Dim age As Integer
       Dim grade As Integer
10
11
       Dim firstNumber As Integer
       Dim secondNumber As Integer
12
13
       Dim answer As Integer
       Dim totalRight As Integer
14
15
       Dim totalWrong As Integer
       Dim overall As Double
16
17
       Private Sub ClearButton_Click(sender As Object, e As EventArgs) Handles
18
         ClearButton.Click
19
           ClearAllFields()
20
       End Sub
21
22
       Sub ClearAllFields()
           NameTextBox.Text = ""
23
           GradeComboBox.Text = ""
24
25
           AgeComboBox.Text = ""
           FirstNumberTextBox.Text = ""
26
27
           SecondNumberTextBox.Text = ""
           AnswerTextBox.Text = ""
28
29
       End Sub
30
       Private Sub DisableFields()
31
           AgeComboBox.Enabled = False
32
           GradeComboBox.Enabled = False
33
           AddRadioButton.Enabled = False
34
           SubtractRadioButton.Enabled = False
35
           MultiplyRadioButton.Enabled = False
           DivideRadioButton.Enabled = False
36
37
           AnswerTextBox.Enabled = False
           NameTextBox.Enabled = True
38
39
           SubmitButton.Enabled = False
40
           ClearButton.Enabled = True
41
           SummaryButton.Enabled = False
42
           ExitButton.Enabled = True
43
       End Sub
44
45
       Private Sub ExitButton_Click(sender As Object, e As EventArgs) Handles
         ExitButton.Click
46
           Me.Close()
       End Sub
47
```

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...uments\GitHub\TL-VS-F19\Assignments\Asg4-1\MathContest.vb
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```
48
        Private Sub EnableQuestion()
            AddRadioButton.Enabled = True
49
50
            SubtractRadioButton.Enabled = True
51
            MultiplyRadioButton.Enabled = True
52
            DivideRadioButton.Enabled = True
53
54
       End Sub
55
       Private Sub EnableAnswer()
56
            AddRadioButton.Enabled = False
            SubtractRadioButton.Enabled = False
57
58
            MultiplyRadioButton.Enabled = False
59
            DivideRadioButton.Enabled = False
60
            NameTextBox.Enabled = False
            AgeComboBox.Enabled = False
61
62
            GradeComboBox.Enabled = False
63
            AnswerTextBox.Enabled = True
64
            SubmitButton.Enabled = True
65
            ClearButton.Enabled = True
66
            SummaryButton.Enabled = True
67
            AnswerTextBox.Select()
68
            GenerateNumber()
69
        End Sub
70
        Private Sub GenerateNumber()
            firstNumber = CInt(Int((10 * Rnd()) + 1))
71
            secondNumber = CInt(Int((10 * Rnd()) + 1))
72
73
            FirstNumberTextBox.Text() = Convert.ToString(firstNumber)
74
            SecondNumberTextBox.Text() = Convert.ToString(secondNumber)
75
        Private Sub studentNameTextBox_TextChanged(sender As Object, e As
76
          EventArgs) Handles NameTextBox.TextChanged
77
            DisableFields()
            If NameTextBox.Text = "" Then
78
79
                MessageBox.Show("You need to enter your name please.")
80
                NameTextBox.Select()
81
            Else
82
               AgeComboBox.Enabled = True
83
                GradeComboBox.Enabled = True
84
            End If
        End Sub
85
86
        Private Sub SubmitButton_Click(sender As Object, e As EventArgs) Handles
87
          SubmitButton.Click
88
            Select Case True
89
                Case AddRadioButton.Checked
90
91
                    answer = firstNumber + secondNumber
92
                Case SubtractRadioButton.Checked
93
                    answer = firstNumber - secondNumber
94
                Case MultiplyRadioButton.Checked
```

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                                                                                        3
 95
                     answer = firstNumber * secondNumber
 96
                 Case DivideRadioButton.Checked
 97
                     answer = firstNumber \ secondNumber
             End Select
 98
 99
             Try
100
                 overall = Double.Parse(AnswerTextBox.Text)
101
102
             Catch ex As Exception
103
                 overall = 0
104
             End Trv
105
             If answer = overall Then
                 MessageBox.Show("Woohoo!!")
106
107
                 totalRight += 1
108
             Else
                 MessageBox.Show("DOH! The correct answer is " & answer & ".")
109
110
                 totalWrong += 1
111
             End If
             EnableAnswer()
112
113
             GenerateNumber()
114
             AnswerTextBox.Clear()
115
         End Sub
116
117
         Private Sub GradeComboBox SelectedIndexChanged(sender As Object, e As
118
           EventArgs) Handles GradeComboBox.SelectedIndexChanged
119
             EnableQuestion()
120
        End Sub
121
122
         Private Sub AddRadioButton_CheckedChanged(sender As Object, e As EventArgs) →
            Handles AddRadioButton.CheckedChanged
123
             EnableAnswer()
124
        End Sub
125
         Private Sub SubtractRadioButton_CheckedChanged(sender As Object, e As
126
           EventArgs) Handles SubtractRadioButton.CheckedChanged
             EnableAnswer()
127
         End Sub
128
129
         Private Sub MultiplyRadioButton_CheckedChanged(sender As Object, e As
130
           EventArgs) Handles MultiplyRadioButton.CheckedChanged
131
             EnableAnswer()
        End Sub
132
133
134
         Private Sub DivideRadioButton_CheckedChanged(sender As Object, e As
                                                                                        P
           EventArgs) Handles DivideRadioButton.CheckedChanged
135
             EnableAnswer()
        End Sub
136
137
         Private Sub MathContest_Load(sender As Object, e As EventArgs) Handles
138
```

152

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4
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```
Me.Load
139
            DisableFields()
140
        End Sub
141
        Private Sub SummaryButton_Click(sender As Object, e As EventArgs) Handles
142
          SummaryButton.Click
             MessageBox.Show(NameTextBox.Text & " had " & totalRight & " correct,
143
              and " & totalWrong _
144
                            & " incorrect.")
            totalRight = 0
145
            totalWrong = 0
146
            ExitButton.Enabled = True
147
            DisableFields()
148
149
            ClearAllFields()
150
        End Sub
151 End Class
```