```vb
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
7  Public Class MathContest
8      Dim age As Integer
9      Dim grade As Integer
10     Dim firstNumber As Integer
11     Dim secondNumber As Integer
12     Dim answer As Integer
13     Dim totalRight As Integer
14     Dim totalWrong As Integer
15     Dim overAll As Double
16     Private Sub ClearButton_Click(sender As Object, e As EventArgs) Handles    ⤶
         ClearButton.Click
17         ClearAllFields()
18     End Sub
19     Sub ClearAllFields()
20         NameTextBox.Clear()
21         GradeComboBox.Text = ""
22         AgeComboBox.Text = ""
23         FirstNumberTextBox.Text = ""
24         SecondNumberTextBox.Text = ""
25         AnswerTextBox.Text = ""
26     End Sub
27     Private Sub DisableFields()
28         AgeComboBox.Enabled = False
29         GradeComboBox.Enabled = False
30         AddRadioButton.Enabled = False
31         SubtractRadioButton.Enabled = False
32         MultiplyRadioButton.Enabled = False
33         DivideRadioButton.Enabled = False
34         AnswerTextBox.Enabled = False
35         NameTextBox.Enabled = True
36         SubmitButton.Enabled = False
37         ClearButton.Enabled = True
38         SummaryButton.Enabled = False
39         ExitButton.Enabled = True
40     End Sub
41     Private Sub ExitButton_Click(sender As Object, e As EventArgs) Handles    ⤶
         ExitButton.Click
42         Me.Close()
43     End Sub
44     Private Sub EnableQuestion()
45         AddRadioButton.Enabled = True
46         SubtractRadioButton.Enabled = True
47         MultiplyRadioButton.Enabled = True
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48                DivideRadioButton.Enabled = True
49          End Sub
50          Private Sub EnableAnswer()
51              AddRadioButton.Enabled = True
52              SubtractRadioButton.Enabled = True
53              MultiplyRadioButton.Enabled = True
54              DivideRadioButton.Enabled = True
55              NameTextBox.Enabled = False
56              AgeComboBox.Enabled = False
57              GradeComboBox.Enabled = False
58              AnswerTextBox.Enabled = True
59              SubmitButton.Enabled = True
60              ClearButton.Enabled = True
61              SummaryButton.Enabled = True
62              AnswerTextBox.Select()
63              GenerateNumber()
64          End Sub
65          Private Sub GenerateNumber()
66              firstNumber = CInt(Int((10 * Rnd()) + 1))
67              secondNumber = CInt(Int((10 * Rnd()) + 1))
68              FirstNumberTextBox.Text() = Convert.ToString(firstNumber)
69              SecondNumberTextBox.Text() = Convert.ToString(secondNumber)
70          End Sub
71          Private Sub studentNameTextBox_TextChanged(sender As Object, e As          ↵
              EventArgs) Handles NameTextBox.TextChanged
72              DisableFields()
73              If NameTextBox.Text = "" Then
74                  MessageBox.Show("You need to enter your name please.")
75                  NameTextBox.Select()
76              Else
77                  AgeComboBox.Enabled = True
78                  GradeComboBox.Enabled = True
79              End If
80          End Sub
81          Private Sub SubmitButton_Click(sender As Object, e As EventArgs) Handles   ↵
              SubmitButton.Click
82            Select Case True
83
84                Case AddRadioButton.Checked
85                    answer = firstNumber + secondNumber
86                Case SubtractRadioButton.Checked
87                    answer = firstNumber - secondNumber
88                Case MultiplyRadioButton.Checked
89                    answer = firstNumber * secondNumber
90                Case DivideRadioButton.Checked
91                    answer = firstNumber \ secondNumber
92            End Select
93            Try
94                overAll = Double.Parse(AnswerTextBox.Text)
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 95              Catch ex As Exception
 96                  overAll = 0
 97              End Try
 98              If answer = overAll Then
 99                  MessageBox.Show("Woohoo!!")
100                  totalRight += 1
101              Else
102                  MessageBox.Show("DOH! The correct answer is " & answer & ".")
103                  totalWrong += 1
104              End If
105              EnableAnswer()
106              GenerateNumber()
107              AnswerTextBox.Clear()
108          End Sub
109          Private Sub GradeComboBox_SelectedIndexChanged(sender As Object, e As          ⇗
                 EventArgs) Handles GradeComboBox.SelectedIndexChanged
110              EnableQuestion()
111          End Sub
112          Private Sub AddRadioButton_CheckedChanged(sender As Object, e As EventArgs) ⇗
                 Handles AddRadioButton.CheckedChanged
113              EnableAnswer()
114          End Sub
115          Private Sub SubtractRadioButton_CheckedChanged(sender As Object, e As         ⇗
                 EventArgs) Handles SubtractRadioButton.CheckedChanged
116              EnableAnswer()
117          End Sub
118          Private Sub MultiplyRadioButton_CheckedChanged(sender As Object, e As         ⇗
                 EventArgs) Handles MultiplyRadioButton.CheckedChanged
119              EnableAnswer()
120          End Sub
121          Private Sub DivideRadioButton_CheckedChanged(sender As Object, e As           ⇗
                 EventArgs) Handles DivideRadioButton.CheckedChanged
122              EnableAnswer()
123          End Sub
124          Private Sub MathContest_Load(sender As Object, e As EventArgs) Handles        ⇗
                 Me.Load
125              DisableFields()
126          End Sub
127          Private Sub SummaryButton_Click(sender As Object, e As EventArgs) Handles     ⇗
                 SummaryButton.Click
128              MessageBox.Show(NameTextBox.Text & " had " & totalRight & " correct,      ⇗
                     and " & totalWrong _
129                              & " incorrect.")
130              totalRight = 0
131              totalWrong = 0
132              ExitButton.Enabled = True
133              DisableFields()
134              ClearAllFields()
135          End Sub
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136  End Class
137
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