```
1 //Programmer: Aaron Yoon
 2 //Date: 9/28/22
 3 //Project: calculate test scores
 4 namespace Test_Score_Program
 6
        public partial class Form1 : Form
 7
 8
            public Form1()
 9
            {
                InitializeComponent();
10
11
12
13
            private void Form1_Load(object sender, EventArgs e)
14
15
16
           }
17
18
            private void btnQUIT_Click(object sender, EventArgs e)
19
            {
20
                //quit the program
21
                this.Close();
22
            }
23
24
            private void btnCalculate_Click(object sender, EventArgs e)
25
            {
26
                try
27
                {
28
                    //make the variables for each test score to make life
                      easier
29
                    int testScore1 = int.Parse(txtTestOne.Text);
                    int testScore2 = int.Parse(txtTestTwo.Text);
30
31
                    double avgScore = (testScore1 + testScore2) / 2;
32
                    string gradeCoef1 = null;
33
                    string gradeCoef2 = null;
34
                    string betterScore = null;
35
36
                    //rounds to get the different of the letter grade
37
                    int gradeFactor1 = testScore1 - round(testScore1);
                    int gradeFactor2 = testScore2 - round(testScore2);
38
39
                    string letterGrade1;
40
                    string letterGrade2;
41
42
                    //get the letter grade symbol for grade 1
43
                    if (gradeFactor1 <= 3 && gradeFactor1 >= 0 && testScore1 ! >
                      = 100)
44
                        gradeCoef1 = "-";
45
                    else if (gradeFactor1 > 3 && gradeFactor1 < 7)</pre>
46
                        gradeCoef1 = null;
47
                    else if (gradeFactor1 >= 7 || testScore1 == 100)
```

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                                                                                    2
48
                         gradeCoef1 = "+";
49
50
                     //get the letter grade symbol for grade 2
                     if (gradeFactor2 <= 3 && gradeFactor1 >= 0 && testScore2 ! >
51
                       = 100)
                          gradeCoef2 = "-";
52
53
                     else if (gradeFactor2 > 3 && gradeFactor2 < 7)</pre>
                          gradeCoef2 = null;
54
                     else if (gradeFactor2 >= 7 || testScore2 == 100)
55
                         gradeCoef2 = "+";
56
57
58
59
                     //get the letter grade for grade 1
                     if (testScore1 >= 90)
60
61
                         letterGrade1 = "A";
                     else if (testScore1 >= 80 && testScore1 < 90)</pre>
62
63
                         letterGrade1 = "B";
                     else if (testScore1 >= 70 && testScore1 < 80)</pre>
64
65
                         letterGrade1 = "C";
                     else if (testScore1 >= 60 && testScore1 < 70)</pre>
66
67
                         letterGrade1 = "D";
68
                     else
69
                         letterGrade1 = "F";
70
71
                     //get the letter grade for grade 2
72
                     if (testScore2 >= 90)
73
                         letterGrade2 = "A";
74
                     else if (testScore2 >= 80 && testScore2 < 90)</pre>
                         letterGrade2 = "B";
75
                     else if (testScore2 >= 70 && testScore2 < 80)</pre>
76
77
                         letterGrade2 = "C";
78
                     else if (testScore2 >= 60 && testScore2 < 70)</pre>
79
                         letterGrade2 = "D";
80
                     else
81
                         letterGrade2 = "F";
82
83
84
                     if (testScore1 > testScore2)
                         betterScore = "Test 1 scored higher than Test 2!";
85
86
                     else if (testScore1 < testScore2)</pre>
                         betterScore = "Test 2 scored higher than Test 1!";
87
88
                     else if (testScore1 == testScore2)
89
                         betterScore = "Both Tests scored the same!";
90
91
92
                     //make the output label visible and put text in it
93
                     lblOutput.Visible = true;
```

lblOutput.Text = "Test Score 1: " + gradeCoef1 +

letterGrade1 + "\n"

94

```
...o\Desktop\GITA 1\projects\Test_Score_Program\Form1.cs
                         + "Test Score 2: " + gradeCoef2 + letterGrade2 + "\n"
 95
                         + betterScore + "\n"
 96
 97
                         + "Average Score is: " + avgScore;
 98
                 }
 99
                 catch
                 {
100
                     MessageBox.Show("Please enter a valid test Score",
101
102
                         "MISSING DATA!",
                         MessageBoxButtons.OK,
103
104
                         MessageBoxIcon.Warning
105
                         );
                 }
106
107
108
109
110
             }
111
112
             private int round(double score)
113
             {
114
                 //rounds the score to the nearest 2nd digit
                 int roundedScore = Convert.ToInt32(Math.Floor(score / 10));
115
116
                 return Math.Abs(roundedScore * 10);
117
118
             private void btnCLEAR_Click(object sender, EventArgs e)
119
120
                 txtTestOne.Text = null;
121
122
                 txtTestTwo.Text = null;
                 lblOutput.Visible = false;
123
124
             }
125
        }
```

126 }