

```
1 //Grading ID: B3051
2 //Lab Number: Lab 6
3 //Due Date: 10/29/2017
4 //Course Section: 199-75
5 //Description: This program takes an input from the user, and tells the user what
   their grade is based on their input of a number.
6 //           If anything else is entered, the program will alert you via a
   MessageBox. Otherwise, it will find the appropriate
7 //           grade by sorting through the array.
8
9 using System;
10 using System.Collections.Generic;
11 using System.ComponentModel;
12 using System.Data;
13 using System.Drawing;
14 using System.Linq;
15 using System.Text;
16 using System.Threading.Tasks;
17 using System.Windows.Forms;
18
19 namespace Lab6
20 {
21     public partial class Form1 : Form
22     {
23         public Form1()
24         {
25             InitializeComponent();
26         }
27
28         private void button1_Click(object sender, EventArgs e) //when the submit
   button is clicked, this event handler will begin
29         {
30             int wpm;
31             if (wpmTextBox.TextLength == 0) //If nothing is entered, this message
   will show instead of the program erroring out
32             {
33                 MessageBox.Show("You forgot to enter something! Please enter your
   words per minute and submit again!");
34             }
35             else if(int.TryParse(wpmTextBox.Text, out wpm))
36             {
37                 bool iswpmtrue = false;
38                 string gradeoutput = "";
39
40                 int[] greaterValues = { 76, 51, 31, 16, 0 };
41                 string[] letterGrade = { "A", "B", "C", "D", "F" };
42
43                 for(int x = 0; x < greaterValues.Length; ++x) //sorts through
   array to see if value is greater than any
```

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44         {                                     //value in ↗
45             greaterValues
46             if (wpm >= greaterValues[x])
47             {
48                 iswpmtrue = true;
49                 gradeoutput = letterGrade[x];
50                 break;
51             }
52         if (iswpmtrue)
53         {
54             outputLabel.Text = $"The grade you will recieve from your ↗
55                 words per minute is a {gradeoutput}";
56         }
57         else //will show this if wpm is not greater than 0
58         {
59             MessageBox.Show("You entered a negative number. Please enter a ↗
60                 positive number");
61         }
62         else //if anything other than a number is entered in the text box, ↗
63             this error will show
64         {
65             MessageBox.Show("Please enter a valid number for words per ↗
66                 minute");
67         }
68     }
69 }
```