

Activity 6

Dalton J Danz

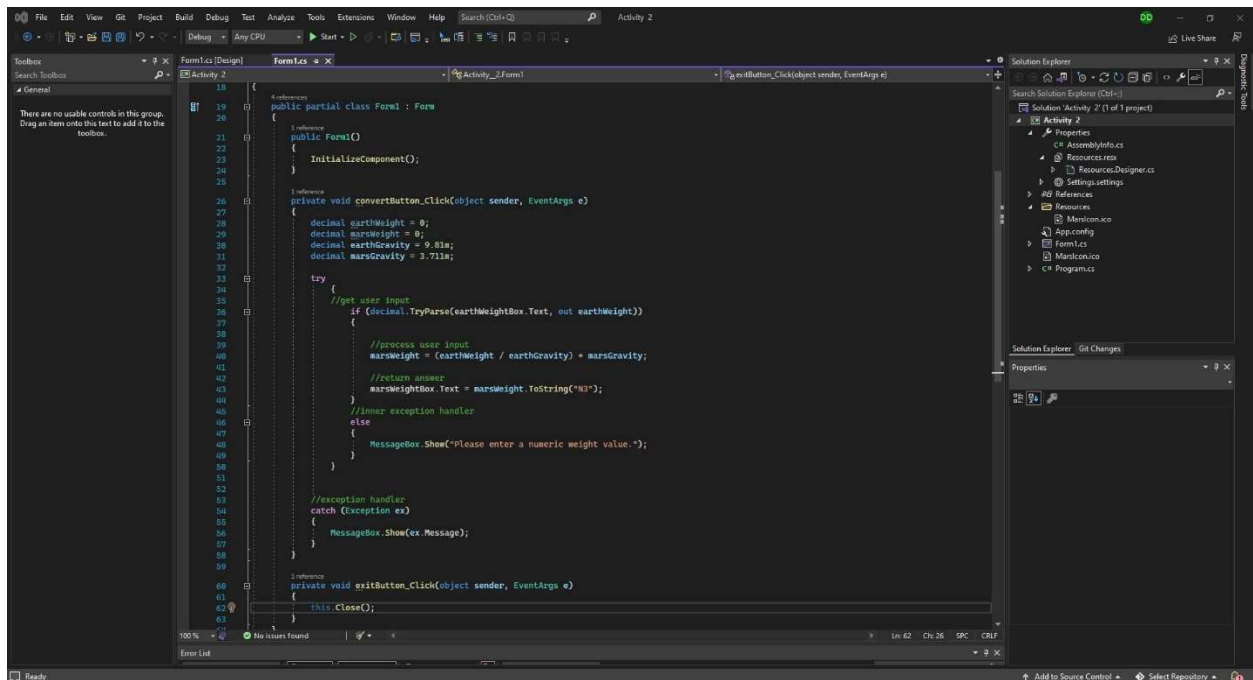
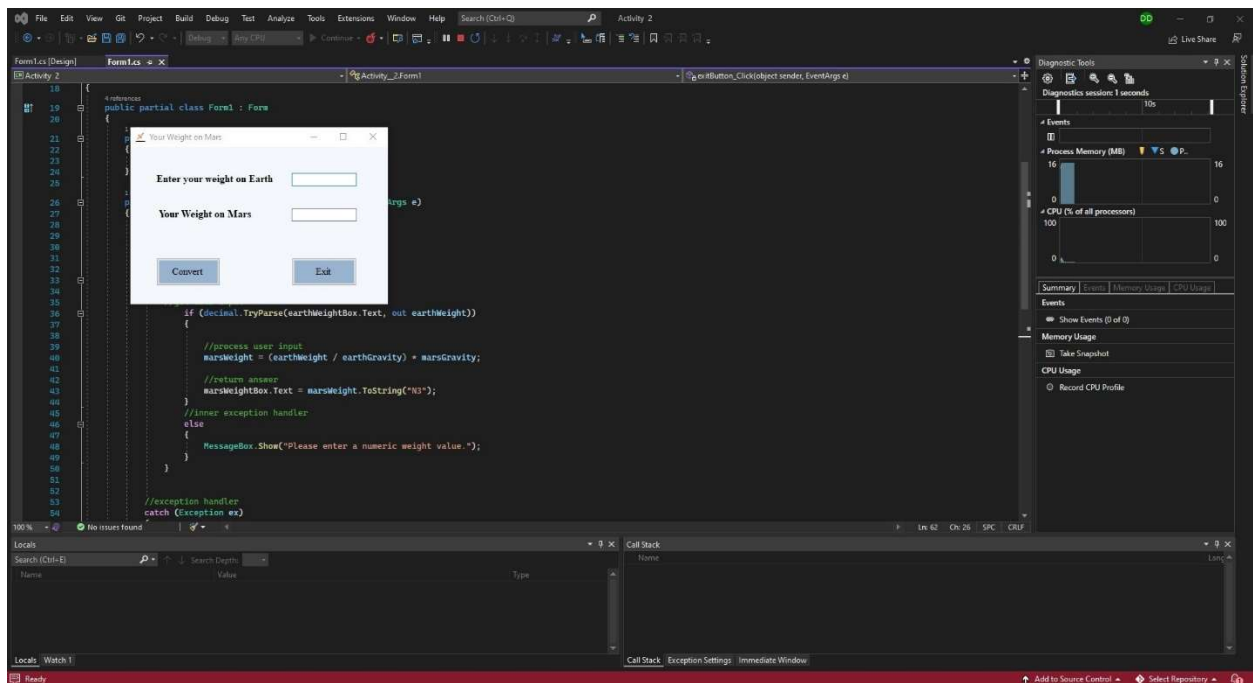
CST-150

Prof. Mark Smithers

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Link to files: <https://github.com/Naralla/CST-150-Submissions/tree/main/Activity%206%20Submission>

This program uses the C# language. This program's goal is to take the weight value supplied by the user, convert that weight, and display the weight of that object on Mars. This program could potentially be improved through the addition of a more appealing background.



Visual Studio IDE showing a C# application running in debug mode. The application is a Windows Form titled "Your Weight on Mars". The form has two text boxes: "Enter your weight on Earth" and "Your Weight on Mars". The "Enter your weight on Earth" box contains the value "220". The "Your Weight on Mars" box contains the value "83.223". Below the text boxes are two buttons: "Convert" and "Exit".

The code in the background is as follows:

```
18 {
19     public partial class Form1 : Form
20     {
21
22
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24
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31
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34
35
36
37     if (decimal.TryParse(earthWeightBox.Text, out earthWeight))
38     {
39         //process user input
40         marsWeight = (earthWeight / earthGravity) * marsGravity;
41         //return answer
42         marsWeightBox.Text = marsWeight.ToString("N3");
43     }
44     //inner exception handler
45     else
46     {
47         MessageBox.Show("Please enter a numeric weight value.");
48     }
49
50
51
52
53     //exception handler
54     catch (Exception ex)
```

The right-hand side of the IDE shows the Diagnostic Tools window, which displays various performance metrics such as Events, Process Memory (MB), and CPU (% of all processors). The bottom status bar indicates "Ready".

Visual Studio IDE showing the same C# application running in debug mode. The application is a Windows Form titled "Your Weight on Mars". The form has two text boxes: "Enter your weight on Earth" and "Your Weight on Mars". The "Enter your weight on Earth" box contains the value "156.45". The "Your Weight on Mars" box contains the value "69.183". Below the text boxes are two buttons: "Convert" and "Exit".

The code in the background is as follows:

```
18 {
19     public partial class Form1 : Form
20     {
21
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36
37     if (decimal.TryParse(earthWeightBox.Text, out earthWeight))
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