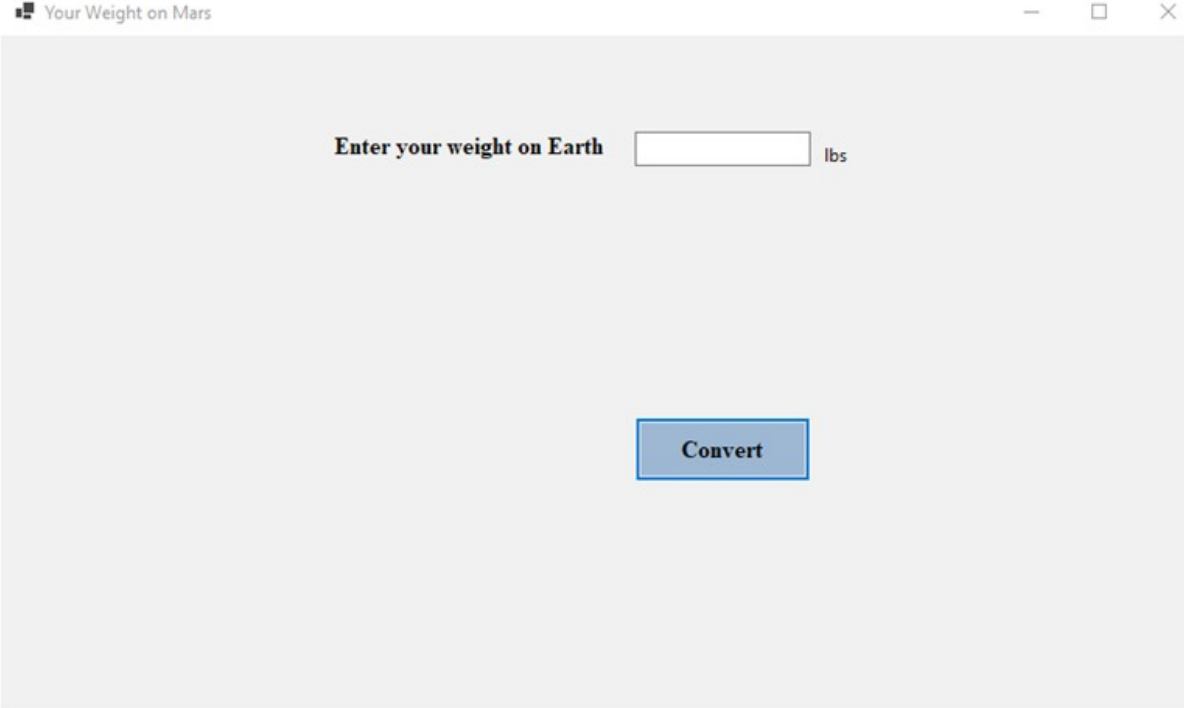


## Earth Weight on Mars

Earth weight on Mars

Before the button is clicked with no output.



The screenshot shows a web application window with the title "Your Weight on Mars". The window has a light gray background. In the center, there is a text input field with the placeholder text "Enter your weight on Earth" and a unit label "lbs" to its right. Below the input field, there is a blue button with the text "Convert".

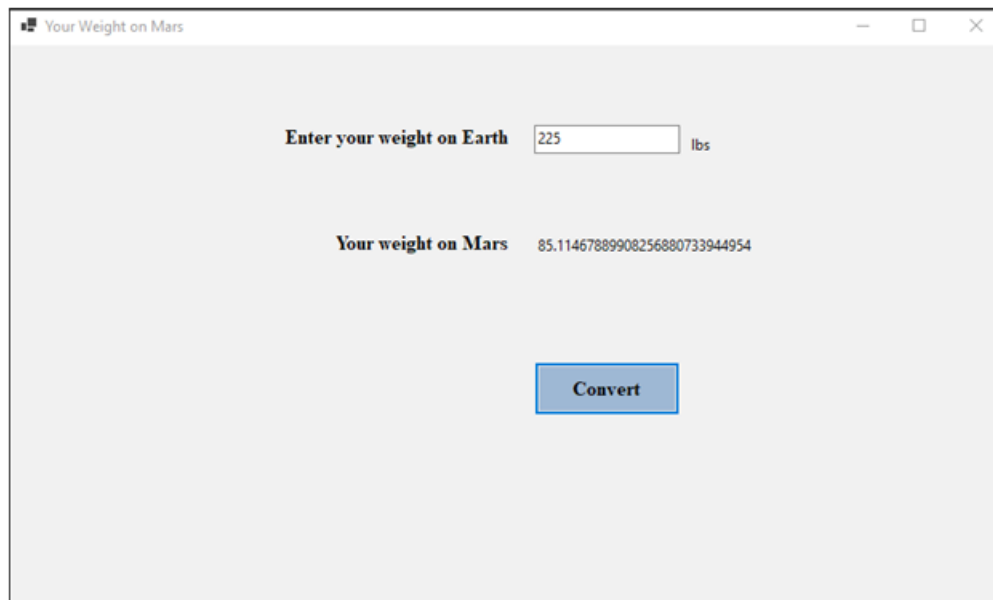
Enter your weight on Earth  lbs

Convert

## Earth weight on Mars

After the covert button been clicked the output.

- When the program starts, it hides the labels that will show the weight on Mars. These labels will be made visible later when the calculation is done.
- The program has a button called "Convert," and when the user clicks on this button, the conversion process starts.
- The program initializes some variables used in the calculation: `earthWeight`, `finalValue`, `gravAccEarth`, and `gravAccMars`.
- The program asks the user to input their weight on Earth through a textbox named `txtEarthWeight`.
- The weight on Mars is calculated using the formula:  $\text{finalValue} = (\text{earthWeight} / \text{gravAccEarth}) * \text{gravAccMars}$ . This formula takes into account the gravitational acceleration on Earth (`gravAccEarth`) and Mars (`gravAccMars`) to determine the corresponding weight on Mars.
- The calculated weight on Mars is then displayed on a label named `lblMarsWeight`. The value is formatted to show only two decimal places.
- After the calculation is completed, the labels `lblMars` and `lblMarsWeight` are made visible to show the result.



Windows application window titled "Your Weight on Mars".

Input field: Enter your weight on Earth  lbs

Output field: Your weight on Mars 85.11467889908256880733944954

Button: Convert