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| Unit Converter  Atticus Nafziger, Fort Defiance High School and Shenandoah Valley Governor School, Weyers Cave, Virginia, United States of America | |
| Project Goal  The project goal was to create a Python program that will convert standard units into units that the user can more easily visualize.    Example: Convert 50 feet into 3.4 cars  The different measurements the program uses are:   * Height * Length * Weight * Temperature * Calorie Count * Volume * Amount * Time | Project Design  To create a program that would turn conventional units into less conventional units such as pencils, data had to be found on the average sizes or weights of various objects in order for them to be accurate unit conversions. The citations for the conversions can be found with the program.  For each Python dictionary, each unit was given a value according to a base unit such as meters, which can be seen in the following screenshot: |
| Data Analysis and Results  The program asks a user to select a measurement by typing it out, select a unit of said measurement, and a number of said unit:    Then the user will select the unit they want to convert to and print out the result: | Interpretation and Conclusions  The created program could become a helpful tool in the education of students of all ages. Many students have difficulty visualizing what a metric ton is or 10 kilometers, my program could help students get a grasp on what different units are.  In the future, I would like to expand my program to give a visual representation of units in a graphic. The graphic would have a certain amount of one item such as feet on one side and the equivalent amount of another unit on the other side. Once I am a more advanced coder I plan to create a better version of this project. |