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| **LAB101 Assignment** | **Type:** | **Short Assignment** |
| **Code:** | **C.S.P0017** |
| **LOC:** | **39** |
| **Slot(s):** | **1** |

**Title**

Fuel Economy.

**Background Context**

To learn how to use assignment statements and arithmetic expressions to make calculations

**Program Specifications**

With the recently increasing gas prices, car manufacturers have been touting their vehicles' fuel economy. Cars, such as the Toyota Prius tell their drivers what their fuel efficiency for five minute time intervals. In this program, you will perform a calculation similar to what the Prius computer does, to calculate fuel economy (in miles per gallon) for a given duration of time.

***Function details:***

Function 1: Calculating Fuel Economy

* Input the number of minutes the car has traveled will be an integer.
* Input the speed of the car will be a positive real number.
* Input the gasoline consumed will be a positive real number.
* Output the fuel efficiency in miles per gallon to two decimal places

Function 2: Calculating Distance Traveled

* The radius of the tires will be a positive real number in inches.
* The number of revolutions of the tires will be a positive integer.
* Output the number of miles the car has traveled based on the given information, to two decimal places

Function 3: Revised Fuel Economy Calculation

* The radius of the car's tires will be a positive real number in inches.
* The number of revolutions the car's tires make will be a positive integer.
* The amount of gas, in gallons, the car uses will be a positive real number.
* Output the fuel efficiency in miles per gallon to two decimal places.

***Expectation of User interface:***



