PROGRAM WORK PLAN ___POWER-TO-WEIGHT-RATIO___

Description of objective

Compute the average of ENG (engine horsepower) divided by WGT (weight) for all cars that have 8 cylinders (CYL).

Sample input-output pairs

For this step, I would actually manually compute things using spreadsheet a few times to understand the problem better.

Processing steps

1. **Acquire data**
2. **Load data into a data structure**

Load the cars data file into a table (list of lists) in memory

3. **Normalize, clean, or otherwise prepare data**

Filter rows of table for CYL = 8

4. **Process the data**

Create new RATIO list (column) by *combine*'ing elements of columns ENG, WGT with multiply operator
Use accumulator to sum the values of RATIO
Use accumulator to count the values of RATIO
If the count is 0, the average is 0
else compute the average as the sum divided by the count

5. **Emit results**

Print the average