Exercise: Bootstrap Resampling and Regression Analysis

* Load a dataset containing vehicle characteristics, including weight and fuel efficiency (e.g., miles per gallon).
* Fit a linear regression model to predict fuel efficiency based on vehicle weight.
* Perform bootstrap resampling 1000 times to find the distribution of the slope of the regression line.
* Calculate and visualize the 95% confidence interval for the slope.
* Test if the slope is significantly different from zero using a hypothesis test.