

Consider the automobile data set posted on blackboard. The Automobile dataset has a different characteristic of an auto such as body-style, wheel-base, engine-type, price, mileage, horsepower and many more.

1. In Python, answer the following:

- (a) (3 points) Using the pandas library, read the csv datafile and create a data-frame called **autos**
  - (b) (3 points) Report the mean **length**
  - (c) (3 points) Report the median **length**
  - (d) (3 points) Create a histogram of the variable **length**. Comment on the shape of the distribution.
2. Health care issues are receiving much attention in both academic and political arenas. A sociologist recently conducted a survey of citizens over 60 years of age whose net worth is too high to qualify for Medicaid. The ages of 10 senior citizens were as follows:

60 61 62 63 64 65 66 68 68 69

In R, answer the following:

- (a) (3 points) Create a vector called **age** that contains the 10 senior ages
- (b) (3 points) Compute the five number summary of **age**
- (c) (3 points) Compute the IQR of **age**
- (d) (3 points) Create the boxplot of **age**