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 price
 - (c) (3 points) Report the median price
 - (d) (3 points) A common rule of thumb to determine the skewness of a numeric dataset is to compare the mean and the median using the following rules:
 - If the mean > the median \Rightarrow right-skewed distribution
 - If the mean \approx the median \Rightarrow symmetric distribution
 - If the mean < the median \Rightarrow left-skewed distribution

Using the above rules, what is the skewness of price?

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 mean age
- (c) (3 points) Compute the variance age
- (d) (3 points) Compute mean of the log(age)