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:

$$60 \quad 61 \quad 62 \quad 63 \quad 64 \quad 65 \quad 66 \quad 68 \quad 68 \quad 69$$

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`