1. **Explore the structure of data**
   1. **How can you load this data set into R studio?**

cardata <-read.csv("/NetBeansProjects/350UsedCar/usedcars.csv")

* 1. **How is the dataset organized? Explain what you see in this data.**

This data set is organized by columns of features. I see the features year, model, price, mileage, color, and transmission.

* 1. **Are all those features clearly stated?**

Yes, they are all clearly stated at the top of the dataset as column labels

1. **Exploring numerical variables** 
   1. **Find the central and spread measures of those three features.**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Year | Price | Mileage |
| Mean | 2009 | 12962 | 44261 |
| Medium | 2009 | 13592 | 36385 |

* 1. **What can you conclude form the results of the year variables?**

I can conclude that the me most cars sold were close to the year 2009, have a price averaged to about 13,000 dollars and had 44261 miles on them

* 1. **Discuss the mean and median results of the year and mileage features**
  2. **What is the range, IQR, 30th, 60th, 90% and 99% percentiles of the price variable**
  3. **Create the price and mileage boxplots and histograms. Can you conclude the distribution for each variable?**
  4. **Compute the variance and standard deviation of the price and mileage variables.**
  5. **Find the interval of advertised prices of the 95% of the cars.**

1. **Exploring categorical variables**
   1. **Examine those 3 variables separately.**
   2. **Find the central measure of those 3 features.**
   3. **Can you find the proportion table of the model?**
   4. **Display the percentage table with 2 decimal places of the color variable.**
2. **Exploring relationships between two variables**
3. **Does the price data imply that we are examining only economy-class cars or are there also luxury cars with high mileage?**
4. **Do relationships between the model and color data provide insight into the type of cars we are examining?**
   1. **What we should do to answer question a.? Explain your result.**
   2. **What we should do to answer question b.? add the chi-squared test to your result. Explain your result.**