Outcome of your EDA

* When performing my EDA, I did not discover very many outliers. I feel like this can be kind of expected considering most 4 door cars, despite the multiple differing variables, are in the same ballpark of prices. By looking at the scatterplot line of best fit you can see that there is no correlation between the two variables of mileage and price, disproving the hypothesis that the more mileage on the car the lower the price.

What do you feel was missed during the analysis?

* I feel like I was not able to address all of my hypotheses because of the data I chose. A pmf comparison of red car data, verses all other color cars would have been interesting to have for answering my hypothesis of “are red cars more expensive because they are associated with being fast?”.

Were there any variables you felt could have helped in the analysis?

* I realized later into my project that it would have been more helpful and insightful to have variables that had numerical data. My variables make, model, color, and state were unable to be used when trying to calculate things like mean, mode, correlation, p- value, etc. This limited the comparisons I could do to mileage and price

Were there any assumptions made you felt were incorrect?

* I thought mileage and price would positively correlate, but after looking at the line of fit on the scatterplot of the two, it does not follow the diagonal pattern of positive or negative correlation. It seems as if there is no correlation at all.

What challenges did you face, what did you not fully understand?

* Major challenges I faced were the PMF and CDF portion of the project. I struggled with the concepts throughout the course as well. I understand that it is used to describe distribution, but I find it difficult interpreting the chart results when applied to different data. I wanted to see if red cars cost more than other color cars, but could not figure out how to create a pmf that extracted red car data and compared it to all colors, like what was done in the book with first born children and others.