Patrick O'Boyle CSC 346 Introduction to Data Science Project 5 4/5/2022

Problem 1:

- The purpose of this problem was to recreate the python notebook into the R
 programming language. In it, we examined linear regression with our data and built a
 regression model.
- Methodology: We started by importing our data and checking for missing data. Then we
 made boxplots of the data and examined the distributions. We plotted the linear
 regression models in a scatter plot. We had to split the data into training and test cases
 and plot the models. Lastly, we obtained the MSE values and R2 values from the
 columns.
- Conclusion: From the feature distributions you can see that the sales seem the most normal distribution while the newspaper seems to be right-skewed heavily. The TV and Radio seem to be normally distributed but not in good form.
- 4. References: Linear regression model slides.

 https://www.statologv.org/how-to-calculate-mse-in-r/
 - https://www.journaldev.com/47888/r-squared-in-r-programming#:~:text=R%20squared% 20(R2)%20is%20a,for%20the%20response%2Ftarget%20variable.