Mini Assignment/Attendance 9/13/2019

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Please Submit both pdf and R script (or notebook) by Monday (9/16) before class.

1. From the package `{MASS}`, find the dataset `Cars93`. This dataset has information about 93 makes of cars sold in the USA
2. Create a new column called `perc` which is the ratio of price to max price. Call this new dataset which includes the perc column, `Cars_new`.
3. Create a scatterplot of `perc` on the x axis to `Horsepower` on the y axis. Add axis names and a main heading.
4. Make at least one observation from the graph
5. Add a linear regression line to the plot. Make another observation.

Hints:

1. You will need to install and load the package `{MASS}` using `install.packages()` and `library()` functions
2. Use the `mutate()` function in the package `{dplyr}`
3. Use the `plot()` function. How do you reference specific columns in the dataset?
4. Look at the plot and tell me what you see. This will require you to discuss what `perc` means intuitively. Is there a relationship or pattern between `perc` and `Horsepower`?