Work on the python code for chapter 3 using the auto.csv and Advertising.csv data files (Omit all code related to the credit.csv file). When done please submit:

1. An html or pdf printout of your complete code. Please run the code and make sure the outputs (numerical values, graphs, etc) are printed in the file you submit

2. A Python notebook file

Each student should submit their own files. Add your name to the submission file name. The file name should be in the format: Lab\_2\_Last\_First, for example: Lab\_2\_Harris\_Elsa

Source: https://github.com/JWarmenhoven/ISLR-python

Task:

1. Import Libraries
2. Load Datasets
3. Data Cleaning
4. Display data frame using display()
5. Create the simple linear regression graph.
6. Find coefficient and intercept
7. Plotting data into 3D model. (haven’t decided if we should include this)
8. Find regression intercept and regression coefficient. (hint: table 3.1&3.2)
9. Create “Confidence Interval: statsmodels (hint: table3.3)
10. Create Correlation Matrix
11. Create Multiple Linear Regression Model (hint: figure3.5)

Finish lab2: only containing textbook ch3 we decide variables.

Finish lab3: including polynomial