**Homework 5 Matplotlib**

***Dependencies and Setup***

* Import dependencies, matplotlib, pandas and numpy and set up data set for analysis
* Load and read data from data/city\_data.csv and data/ride.csv
* Declared variables to combine the ride and city data into the same dataset and then displayed for preview.

***Created Ride Sharing Bubble Plot***

* Specify the three city types Urban, Rural, and suburban gathered the x and y coordinates for each of the three city types.
* Wrote code for each city type to display ride count and calculate fair mean.
* Created scatter plot for each city type with plt.scatter so properties (size, face color, edge color, etc.) can be individually controlled. Properties were set.
* Set the title and x and y labels and created legend and displayed plot.

***Created Pie Charts for Total Fares,***

***Total Rides, Total Drivers by city type.***

* Calculated total fares by city type and set labels and colors.
* Built pie chart with plt.pie and set properties
* Save figure as image and displayed,