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Data Science Project #2
Code documentation part 1

Part 1
The first step in this project was to pull in data from an API and write it to a data frame I accomplished this by looping through the API call 60 times and waiting one minute in between each loop by using the asyncrio package. In this same loop I wrote the json file to a dictionary for later processing.

After the dictionary was created I uploaded it into a mysql database. With this data base created, I inserted a table with corresponding columns to dictionary created python. After that I connected to the database in python and looped through the dictionary to put all of the data collected from the API into a sql database. I then looked at the table and looked for trends and patterns in the data so I could see what was going on.

Trends and Patterns in the API
The first and most obvious trend was the time variable. This variable just designated the day followed by the time in a normal date time format. The factor on the other hand was the cube of the minute. For example if the API was called during the 2 minute mark of the hour, the factor would be 8, for the 10 minute mark it would be 1,000 and for 25 minute mark it would be 15,625. Finally the pi variable got closer and closer to pi over the course of one hour. Though this amount was very negligible it was noticeable after the course of an hour.