Please push a notebook with answers to the following questions to github when you're done

1. Lookup information on geometric mean and harmonic mean to answer the following questions:
    a. In a jupyter notebook create a markdown section for each of the three concepts: arithmetic mean, geometric mean, and harmonic mean
    b. Write a definition for arithmetic mean, geometric mean, and harmonic mean, under their respective headings
    c. Write a code example for arithmetic mean, geometric mean, and harmonic mean using the Belize Airbnb data in a cell under the each respective summary in markdown

2. Use this article to answer the following questions:
   https://realpython.com/numpy-scipy-pandas-correlation-python/
    a. In a jupyter notebook markdown cell, describe the difference between linear and rank correlation.
    b. Create a scatter plot showing the relationship between calculated_host_listings_count and availability_365 in the Belize Airbnb data
    c. Calculate the correlation coefficient for the data in the scatter plot, and describe what is happening.