Introduction to Data Science - Lab 18

Prerequisites/Assumptions: The material in this lecture assumes basic knowledge of Python, Series and DataFrames.

1. (100 points) Read the CSV data file nyc_data.csv posted on blackboard -> assignments and explore the dataset using shape and head() functionality
   a. Create a new DataFrame trips from the original data file by selecting columns passenger_count, trip_time_in_secs, trip_distance.
   b. Select the rows where the trip_time_in_secs is less than 300.
   c. Select the rows where the trip_time_in_secs is less than 600 and passenger_count = 2.
   d. Change the trip_distance in row 15 to 7.9.
   e. Calculate the sum of passenger_count (the total of passengers all taxi trips recorded in nyc_data.csv dataset.

What to turn in: Convert notebooks to html file (lab18.html) using the File > Download as > HTML Menu option. Submit your lab18.html via blackboard. The grading will reflect the completeness and correctness of your program based on the execution results of the submitted code.