SI 206 Final Project Plan

a. What is your group's name?
Fiery Latinas

b. Who are the people in the group (first name, last name, umich email)?
Marcela Passos, Marcelap@umich.edu
Carolina Janicke, Cjanic@umich.edu

c. What APIs/websites will you be gathering data from? The base URLs for the APIs/websites
https://data.cityofnewyork.us/Public-Safety/Fire-Incident-Dispatch-Data/8m42-w767/about_data
https://data.lacity.org/Public-Safety/Station-Response-Metrics-Updated/4hqz-rxff/data_preview

must be different for them to count as different APIs.

d. What data will you collect from each API/website and store in a database? Be specific.
We will be collecting the response time (of any first responders) to fires in the city of Los Angeles And New York. We will also collect the time of day that these incidents were called in at to see if That impacts the response time.

e. What data will you be calculating from the data in the database? Be specific.
We will be calculating the average response time for the NYC Fire Department and LAFD as it relates to what time of day the 911 calls were made

f. What visualization package will you be using (Matplotlib, Plotly, Seaborn, etc)?
Matplotlib

g. What graphs/charts will you be creating?
We will be creating a graph that plots response times for fires for LAFD and NYFD
One chart will be for spring/summer and the other will be for fall/winter

h. Who is responsible for what? Please note that all team members should do an equal amount

of programming and total work

One API per person one file per person
Carolina- gathers data
Marcela- Processes the data

One visualization per person
Answer 4 questions each for the final report
Help each other with all parts as needed

Game Plan-

PROCESS THE DATA	**50**	
Select items from the tables and calculate something from the data (average, counts, etc)	_____ 20	-20 if data not from a SELECT and/ or if not done in a separate file from the data gathering file
At least one database join used when selecting the data	_____ 20	-20 if JOIN not used at least once in the calculations or visualizations
Write a well-formatted, self explanatory file from the calculations (JSON, csv or text file)	_____ 10	-10 if no data written to a file in Python -5 if data is hard to understand -10 if hardcoded values are used to write the data file

	Max Points	Mark Points off for the following scenarios
GET DATA	**_____ 100**	
Accessed at least 2 APIs or 1 API and 1 Website and retrieved data from them For teams of 3, you must access at least 3 APIs or 2 APIs and 1 website.	_____ 10	-100 if number of APIs + websites does not equal or exceed the number of group members (you do not get credit for this or any of the following items in this section).
Store at least 100 rows of data from each API/website	_____ 10	-10 if didn't store data for 100 items in at least one table for each API/website
At least 1 API must have 2 tables that share an integer key.	_____ 20	-20 for no API with 2 tables -20 for having no shared key for two tables -20 if the shared key is not an integer -15 if basically split one table into two
Limited the amount of data to a max of 25 items stored in the database each time a file is run to gather the data.	_____ 60	-60 if not limited to 25 at a time stored -50 if duplicate string data is stored -40 if change code by hand on each restart -20 for each drop table in code
PROCESS THE DATA	**50**	
Select items from the tables and calculate something from the data (average, counts, etc)	_____ 20	-20 if data not from a SELECT and/ or if not done in a separate file from the data gathering file
At least one database join used when selecting the data	_____ 20	-20 if JOIN not used at least once in the calculations or visualizations
Write a well-formatted, self explanatory file from the	_____ 10	-10 if no data written to a file in Python -5 if data is hard to understand

VISUALIZE THE DATA	**50**	
Create visualizations (2 for 2 persons in a team, 3 for 3 persons in a team) from the data and/or calculations	_____ 50	-25 for each missing visualization -10 if hard to understand (ex. No labels) -10 if basically the same as the example in lecture/discussion
REPORT	**100**	
Goals	_____ 20	-10 if missing original goals -10 if missing achieved goals
Problems that you faced	_____ 10	-10 if missing
Include the calculation file	_____ 10	-10 if not included physically in the report
Include the visualizations created	_____ 10	-10 if no visualizations physically included -5 if some but not all visualizations included
Instructions for running the code	_____ 10	-5 if unclear -5 if instructions didn't work
Code documentation (explain what each function does including describing its input and output)	_____ 20	-5 for each missing function explanation (up to -20)
Documentation of resources used	_____ 20	-10 for unclear resource documentation (not following the format) -20 for no documentation

What to have done by Monday-

- All data stored