Capstone Project - The Battle of Neighborhoods

For this project we need the following data:

- Toronto data that contains list of Boroughs, Neighborhoods.
  - Data source: https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M
  - Description: This data set contains the required information. And we will use this data set to explore various neighborhoods of Toronto.

- Coffee Shop in each neighborhood of Toronto.
  - Data source: Foursquare API
  - Description: Foursquare is a location data provider with information about all manner of venues and events within an area of interest. Such information includes venue names, locations, menus and even photos. As such, the foursquare location platform will be used as the sole data source since all the stated required information can be obtained through the API. After finding the list of neighborhoods, we then connect to the Foursquare API to gather information about venues inside each and every neighborhood.
    The data retrieved from Foursquare contained information of venues within a specified distance of the longitude and latitude of the postcodes.

- GeoSpace data
  - Data source: https://raw.githubusercontent.com/jasonicarter/toronto-geojson/master/toronto_crs84.geojson
  - Description: By using this geo space data we will get the Toronto Borough boundaries that will help us visualize choropleth map.

Approach:

We will web scraping the Toronto data from Wikipedia and using FourSquare API we will find all venues for each neighborhood. Next step is filter out all venues that are Coffee Shops and find rating, tips and like count for each Coffee Shop using FourSquare API. Using rating for each Coffee Shop, we will sort that data and visualize the Ranking of neighborhoods using folium library.