**Data Sets:**

Following datasets and information will be required for this project:

1) For this project, I will be using postal code information on neighborhoods within different in Toronto. This dataset is available at following location:
https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M

2) The coordinates for each postal code using csv file obtained from following URL:
https://cocl.us/Geospatial_data

3) Foursquare API to extract information on Venue location and Venue type within Toronto city.

**Plan of Action:**

Following steps need to be followed for successful execution of this project:

1) Download and preprocess data using different libraries like beatifulsoup4, requests, numpy and pandas.

2) Save data in tabular format as a dataframe.

3) Then create a master table by merging all the data-table. The master table will contain information like Borough name, Neighborhood name, Neighborhood coordinates, Venue name, Venue Coordinates, Venue Category, etc.

4) Then calculate the distance of each venue from Toronto city center (43.6532, -79.3832) using distance function from 'geopy' python library to calculate distance of each venue from City center.

5) Estimation of Pearson's correlation coefficient and regression analysis between the distance from city center and number of venues will be calculated using 'scipy'

6) Then using k-mean clustering method, cluster all the venues based on their location and check for most common type of food channels for each cluster.

7) Visualize all these cluster on the map using Foursquare API and folium library

8) Recommend the stakeholder a location proximal to city center with least number of competition, and also warn them about most common type of food channels/competitors in the area.