import libraries

import required libraries

```
In [1]:
```

```
import pandas as pd
import numpy as np
import requests
from bs4 import BeautifulSoup
import folium
```

creating DataFrame

```
In [2]:
```

```
df = pd.read_html("https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M")
df=df[0]
df.head()
```

Out[2]:

Postal Code		Community	Neighbourhood
0	M1A	Not assigned	Not assigned
1	M2A	Not assigned	Not assigned
2	МЗА	North York	Parkwoods
3	M4A	North York	Victoria Village
4	M5A	Downtown Toronto	Regent Park, Harbourfront

```
In [4]:
```

```
df=df[df['Community']!='Not assigned']
df.reset_index()
df
```

Out[4]:

Neighbourhood	Community	Postal Code	
Parkwoods	North York	МЗА	2
Victoria Village	North York	M4A	3
Regent Park, Harbourfront	Downtown Toronto	M5A	4
Lawrence Manor, Lawrence Heights	North York	M6A	5
Queen's Park, Ontario Provincial Government	Downtown Toronto	M7A	6
The Kingsway, Montgomery Road, Old Mill North	Etobicoke	M8X	160
Church and Wellesley	Downtown Toronto	M4Y	165
Business reply mail Processing Centre, South C	East Toronto	M7Y	168
Old Mill South, King's Mill Park, Sunnylea, Hu	Etobicoke	M8Y	169
Mimico NW, The Queensway West, South of Bloor,	Etobicoke	M8Z	178

103 rows × 3 columns

Neighbourhoo	Community	Postal Code	
Malvern, Roug	Scarborough	M1B	0
Rouge Hill, Port Union, Highland Cree	Scarborough	M1C	1
Guildwood, Morningside, West Hi	Scarborough	M1E	2
Wobur	Scarborough	M1G	3
Cedarbra	Scarborough	M1H	4
Westo	York	M9N	98
Westmoun	Etobicoke	М9Р	99
Kingsview Village, St. Phillips, Martin Grove .	Etobicoke	M9R	100
South Steeles, Silverstone, Humbergate, Jamest.	Etobicoke	M9V	101
Northwest, West Humber - Clairvill	Etobicoke	M9W	102

103 rows × 3 columns

```
In [7]:
```

```
print("shape:", df.shape)
shape: (103, 3)
```

Get the latitude and the longitude coordinates of each neighbourhood.

```
In [8]:
```

```
geo_coor = pd.read_csv("http://cocl.us/Geospatial_data")
geo_coor.head()
```

Out[8]:

	Postal Code	Latitude	Longitude
0	M1B	43.806686	-79.194353
1	M1C	43.784535	-79.160497
2	M1E	43.763573	-79.188711
3	M1G	43.770992	-79.216917
4	M1H	43.773136	-79.239476

```
In [9]:
```

```
toronto = pd.merge(df, geo_coor, how='left', left_on = 'Postal Code', right_on = 'Postal
Code')
```

```
toronto.drop('Postal Code', axis=1, inplace=True)
toronto
```

Out[9]:

	Community	Neighbourhood	Latitude	Longitude
0	Scarborough	Malvern, Rouge	43.806686	-79.194353
1	Scarborough	Rouge Hill, Port Union, Highland Creek	43.784535	-79.160497
2	Scarborough	Guildwood, Morningside, West Hill	43.763573	-79.188711
3	Scarborough	Woburn	43.770992	-79.216917
4	Scarborough	Cedarbrae	43.773136	-79.239476
•••				
98	York	Weston	43.706876	-79.518188
99	Etobicoke	Westmount	43.696319	-79.532242
100	Etobicoke	Kingsview Village, St. Phillips, Martin Grove	43.688905	-79.554724
101	Etobicoke	South Steeles, Silverstone, Humbergate, Jamest	43.739416	-79.588437
102	Etobicoke	Northwest, West Humber - Clairville	43.706748	-79.594054

103 rows × 4 columns

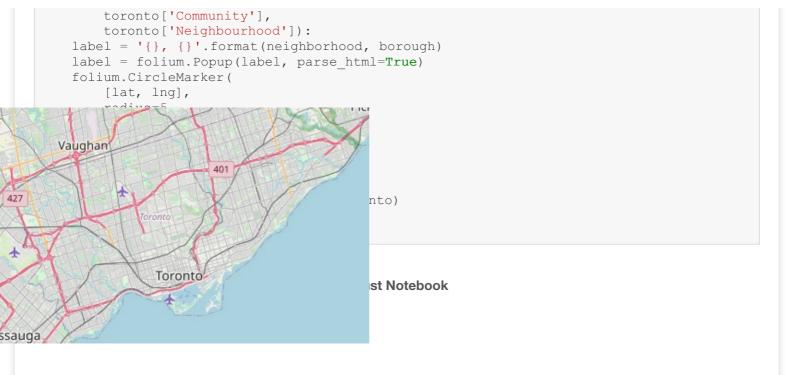


```
963, -79.387207], zoom_start=10)
```

st Notebook

In [12]:

```
for lat, lng, borough, neighborhood in zip(
          toronto['Latitude'],
          toronto['Longitude'],
```



In []: