

Import libraries and data

In []:

```
1 import pandas as pd
2 import googlemaps
```

In []:

```
1 with open(r'..\..\..\Google API key.txt') as f:
2     secret = f.readlines()[0]
3 client = googlemaps.Client(key = secret)
```

In []:

```
1 df = pd.read_excel('Lista Jordana.xlsx', sheet_name='Planilha1')
```

In []:

```
1 df.style.set_sticky()
```

Get coordinates

In []:

```
1 def get_coordinates(row):
2     try:
3         var = client.find_place(input=row['ENDEREÇO'], input_type='textquery',
4 fields=['geometry'], language='portuguese')
5         coordinates = (var['candidates'][0]['geometry']['location']['lat'],
6 var['candidates'][0]['geometry']['location']['lng'])
7     except:
8         coordinates = 'NA'
9     return coordinates
```

In []:

```
1 def get_google_maps_name(row):
2     try:
3         var = client.find_place(input=row['ENDEREÇO'], input_type='textquery',
4 fields=['name'], language='portuguese')
5         name = var['candidates'][0]['name']
6     except:
7         name = 'NA'
8     return name
```

In []:

```
1 df['coordinates'] = df.apply(get_coordinates, axis=1)
2 df['google maps name'] = df.apply(get_google_maps_name, axis=1)
```

In []:

```
1 df.style.set_sticky()
```

In []:

```
1 df.to_csv('Lista Final com coordenadas.csv')
```