Scraping Wikipedia page and creating a Dataframe and Transforming the data on Wiki page into pandas dataframe

```
In [4]: import pandas as pd
import requests
from bs4 import BeautifulSoup
print("Imported!")
```

Imported!

Using BeautifulSoup Scraping List of Postal Codes of Given Wikipedia Page

```
In [5]: url = "https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M"
    extracting_data = requests.get(url).text
    wiki_data = BeautifulSoup(extracting_data, 'lxml')
```

In [6]: wiki\_data

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Out[6]: <!DOCTYPE html:
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    <a href="/wiki/Newfoundland_and_Labrador" title="Newfoundland and Labrador">NL</a>
    <a href="/wiki/New Brunswick" title="New Brunswick">NB</a>
    ctd colspan="3" style="text-align:center; border:1px solid #aaa;"><a href="/wiki/Quebec" title="Quebec">QC</a>
    <a href="/wiki/Ontario" title="Ontario">ON</a>

<a href="/wiki/Manitoba" title="Manitoba">MB</a>

   <a href="/wiki/Saskatchewan" title="Saskatchewan">SK</a>

   <a href="/wiki/British_Columbia" title="British Columbia">BC</a>
                                     "text-align:center; border:1px solid #aaa;"><a href="/wiki/Nunavut" title="Nunavut">NU</a>/<a href="/wiki/Northwest_Territories" title="Northwest Territorie
   <td style=
   s">NT</a>
    <a href="/wiki/Yukon" title="Yukon">YT</a>
   cvdd align="center" style="border: 1px solid #FF4000; background-color: #FFE8E0; font-size: 135%;" width="5%"><a href="/wiki/List_of_postal_codes_of_Canada:_B" title="List of postal codes of Canada: B">B</a>
    st of postal codes of Canada: C">C</a>
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   st of postal codes of Canada: E">E</a>

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   st of postal codes of Canada: G">G</a>
    c/tds
   «td align="center" style="border: 1px solid #COFF00; background-color: #F8FFE0; font-size: 135%;" width="5%"><a href="/wiki/List_of_postal_codes_of_Canada:_H" title="List of postal codes of Canada: H">H</a>
   ctd align="center" style="border: 1px solid #80FF00; background-color: #F0FFE0; font-size: 135%;" width="5%"><a href="/wiki/List_of_postal_codes_of_Canada:_]" title="Li</pre>
   st of postal codes of Canada: J">J</a>
   <a href="/wiki/List_of_postal_codes_of_Canada:_K" title="Li</pre>
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st of postal codes of Canada: K">K</a>
. <a class="mw-selflink selflink">M</a>
<dt align="center" style="border: 1px solid #00FFE0; background-color: #E0FFFC; font-size: 135%;" width="5%"><a href="/wiki/List_of_postal_codes_of_Canada:_N" title="Li</a>
st of postal codes of Canada: N">N</a>
ctd align="center" style="border: 1px solid #0080FF; background-color: #E0F0FF; font-size: 135%;" width="5%"><a href="/wiki/List_of_postal_codes_of_Canada:_S" title="List of postal codes of Canada:_S">S</a>
<a href="/wiki/List_of_postal_codes_of_Canada:_T" title="Li</a>
<a href="/wiki/List_of_postal_codes_of_Canada:_V" title="Li</a>
st of postal codes of Canada: V">V</a>
"ctd align="center" style="border: 1px solid #A000FF; background-color: #E8E0FF; font-size: 135%;" width="5%"><a href="/wiki/List of postal codes of Canada: X" title="Li</p>
st of postal codes of Canada: X">X</a>
</tu>
<a href="/wiki/List_of_postal_codes_of_Canada:_Y" title="List of postal codes of Canada: Y">Y</a>

<!--
NewPP limit report
Parsed by mw1276
Cached time: 20200725214313
Cache expiry: 2592000
Dynamic content: false
Dynamic content: false
Complications: [vary-revision-sha1]
CPU time usage: 0.172 seconds
Real time usage: 0.225 seconds
Preprocessor visited node count: 259/1000000
Post-expand include size: 10535/2097152 bytes
Template argument size: 105/2097152 bytes
Highest expansion depth: 8/40
Expensive parser function count: 0/500
Unstrip recursion depth: 1/20
Unstrip post-expand size: 11806/5000000 bytes
Lua time usage: 0.072/10.000 seconds
Lua memory usage: 2.36 MB/50 MB
Number of Wikibase entities loaded: 0/400
<!--
Transclusion expansion time report (%,ms,calls,template)
100.00% 178.334 1 -total
48.94% 87.279 3 Template:Cite_web
  43.06%
             76.785
57.443
                             1 Template:Short_description
1 Template:Pagetype
  32.21%
                              1 Template:Canadian_postal_codes
   3.09%
  2.32%
               4.130
                              1 Template:Main other
Saved in parser cache with key enwiki:pcache:idhash:539066-0!canonical and timestamp 20200725214313 and revision id 969510799
short description">Articles with short description</a></div></div>
</div>
<div id="mw-data-after-content">
<div class="read-more-container"></div>
</div>
<div id="mw-navigation">
<h3 id="p-personal-label">
<span>Personal tools</span>
 </h3>
<!-- Please do not use the .body class, it is deprecated. -->
<div class="body vector-menu-content">
<!-- Please do not use the .menu class, it is deprecated. -->
<!-- Please do not use the .menu class, it is deprecated. -->
cul class="wector-menu-content-list">\cli id="pt-anonuserpage">\Not logged in\cli id="pt-anontalk">\capaca accesskey="n" href="/wiki/Special:MyTalk" title="Discussion abou
t edits from this IP address [n]">Talk</a>\cli id="pt-anoncontribs">\capaca accesskey="y" href="/wiki/Special:MyContributions" title="A list of edits made from this IP a
ddress [y]">Contributions</a></a>\capaca>\capaca/li>\cli id="pt-createaccount">\capaca href="\w/index.php?title=Special:CreateAccount&amp;returnto=List+of+postal+codes+of+Canada&3A+M" title="You
ou are encouraged to create an account and log in; however, it is not mandatory. [o]">\capaca accesskey="o" href="\w/index.php?title=Spec
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ial:UserLogin&amp;returnto=List+of+postal+codes+of+Canada&3A+M" title="You're encouraged to log in; however, it's not mandatory. [o]">\capaca classkey="\w/index.php?title=Spec
ial:UserLogin&amp
</div>
<div id="left-navigation";</pre>
dl-- Please do not use role attribute as CSS selector, it is deprecated. -->
<nav aria-labelledby="p-namespaces-label" class="vector-menu vector-menu-tabs vectorTabs" id="p-namespaces" role="navigation">
<h3 id="p-namespaces-label"></h>
</hr>
<span>Namespaces</span>
</h3>
page [t]">Talk</a>
 </div>
</h3>
<!-- Please do not use the .body class, it is deprecated. -->
<div class="body vector-menu-content">
<!-- Please do not use the .menu class, it is deprecated. -->
</div></nav>
</div>
<div id="right-navigation">
```

```
<!-- Please do not use role attribute as CSS selector, it is deprecated. -->

<
 <span>Views</span>
 </h3>
 </pre
 <!-- Please do not use the .menu class, it is deprecated. --
y</a>
</div>
</div>
</nav>
<!-- Please do not use role attribute as CSS selector, it is deprecated. -->
<nav aria-labelledby="p-cactions-label" class="vector-menu-empty emptyPortlet vector-menu vector-menu-dropdown vectorMenu" id="p-cactions" role="navigation">
<input aria-labelledby="p-cactions-label" class="vector-menu-checkbox vectorMenuCheckbox" type="checkbox"/>
<input aria-labelledby="p-cactions-label" class="vector-menu-checkbox"/>
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<input aria-labelledby="p-cactions-labelle
 <!-- Please do not use the .body class, it is deprecated. -->
<idiv class="body vector-menu-content">
<!-- Please do not use the .menu class, it is deprecated. -->
 </div>
 </nav>
 <div id="p-search" role="search">
  ch33
  <label for="searchInput">Search</label>
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 <form action="/w/index.php" id="searchform">
 <down action= warner.pnp id= Searchform >
down id="simpleSearch">
<input accesskey="f" id="searchInput" name="search" placeholder="Search Wikipedia" title="Search Wikipedia [f]" type="search"/>
<input name="title" type="hidden" value="Special:Search"/>
 <input class="searchButton mw-fallbackSearchButton" id="mw-searchButton" name="fulltext" title="Search Wikipedia for this text" type="submit" value="Search"/>
<input class="searchButton" id="searchButton" name="go" title="Go to a page with this exact name if it exists" type="submit" value="Go"/>
 </div>
 </form>
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 </div>
  cdiv id="mw-nanel">
 volu = """-point /
div id="p-logo" role="banner">
<a class="mw-wiki-logo" href="/wiki/Main_Page" title="Visit the main page"></a>
 </div>
 <span>Navigation</span>
  </h3>
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 <!-- Please do not use role attribute as CSS selector, it is deprecated. -->
<nav ania-labelledby="p-interaction-label" class="vector-menu vector-menu-portal portal" id="p-interaction" role="navigation">
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 <!-- Please do not use the .body class, it is deprecated. -->
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cul class="wector-menu-content-list"x(li id="n-help">xa href="/wiki/Help:Contents" title="Guidance on how to use and edit Wikipedia">Help</a>
cul class="wector-menu-content-list"x(li id="n-help">xa href="/wiki/Help:Contents" title="Guidance on how to use and edit Wikipedia">Help</a>
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 <h3 id="p-tb-label">
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<!-- Please do not use the .body class, it is deprecated. -->
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<!-- Please do not use the .menu class, it is deprecated. -->

<! ii d="t-whatlinkshere"><a accesskey="j" href="/wiki/Special:WhatLinksHere/List_of_postal_codes_of_Canada:_M" title="List of all E nglish Wikipedia pages containing links to this page [j]">What links here</a>
/uli id="t-recentchanges! accesskey="" href="/wiki/Special:RecentChanges! npages! linked from this page [k]">Related changes</a>
/uli vilid="t-upload"><a accesskey="" href="/wiki/Special:RecentChanges! npages! 
 <!-- Please do not use the .body class, it is deprecated. -->
   </nav>
</h3>
</nav>
 <span>Languages</span>

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 </nav>
 </div>
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</div>
                     <footer class="mw-footer" id="footer" role="contentinfo">

<
                    id="footer-info-copyright">Text is available under the <a href="//en.wikipedia.org/wiki/Wikipedia:Text_of_Creative_Commons_Attribution-ShareAlike_3.0_Unported_Licen
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cli id="footer-places-privacy"><a class="extiw" href="https://foundation.wikimedia.org/wiki/Privacy_policy" title="wmf:Privacy policy">Privacy policy</a>
cli id="footer-places-about"><a href="/wiki/wikipedia:About" title="Wikipedia:About">About Wikipedia</a>
cli id="footer-places-about"><a href="/wiki/wikipedia:General_disclaimer" title="Wikipedia:General_disclaimer">Disclaimer">Disclaimer">Disclaimer">Disclaimer">Disclaimer">Disclaimer">Disclaimer</a>
id="footer-places-contact"><a href="//en.wikipedia.org/wiki/wikipedia:Contact_us">Contact Wikipedia</a>

                     id="footer-places-developers"><a href="https://www.mediawiki.org/wiki/Special:MyLanguage/How_to_contribute">Developers</a>
id="footer-places-statslink"><a href="https://stats.wikimedia.org/w/en.wikipedia.org">Statistics</a>
id="footer-places-cookiestatement"><a href="https://stats.wikimedia.org/w/en.wikipedia.org">Statistics</a>
id="footer-places-cookiestatement"><a href="https://fooundation.wikimedia.org/w/kiki/Cookie_statement">Cookie statement</a>
id="footer-places-mobileview"><a class="noprint stopMobileRedirectToggle" href="//en.m.wikipedia.org/w/index.php?title=List_of_postal_codes_of_Canada:_M&amp;mobilea</a>
                     ction=toggle_view_mobile">Mobile view</a>

id="footer-copyrightico"><a href="https://wikimediafoundation.org/"><img alt="Wikimedia Foundation" height="31" loading="lazy" src="/static/images/wikimedia-button.png" srcset="/static/images/wikimedia-button-1.5x.png 1.5x, /static/images/wikimedia-button-2x.png 2x" width="88"/></a>
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                     <div style="clear: both;"></div>
                   ansientcontent":false}}}};});</script>

cscript type="application/ld+json">("@context":"https:\/\/schema.org","@type":"Article","name":"List of postal codes of Canada: M","url":"https:\/\/en.wikipedia.org\/wiki\/list_of_postal_codes_of_Canada: M","sameAs":"http:\/\/www.wikidata.org\/entity\/03248240","mainEntity":"http:\/\/www.wikidata.org\/entity\/03248240","mainEntity":"http:\/\/www.wikidata.org\/entity\/03248240","author":("@type
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                     ia list article"}</script>
                     <script>(RLQ=window.RLQ||[]).push(function(){mw.config.set({"wgBackendResponseTime":196,"wgHostname":"mw1367"});});/script></body></html>
In [7]: column_names = ['Postalcode', 'Borough', 'Neighborhood']
                     toronto = pd.DataFrame(columns = column names)
                     content = wiki_data.find('div', class_='mw-parser-output')
table = content.table.tbody
                     postcode = 0
horough = 0
                    borough = 0
neighborhood = 0
                     for tr in table.find_all('tr'):
                               for td in tr.find_all('td'):
                                        if i == 0:
                                                postcode = td.text
                                        i = i + 1
elif i == 1:
                                                 borough = td.text
                              neighborhood = td.text.strip('\n').replace(']','')
toronto = toronto.append({'Postalcode': postcode, 'Borough': borough, 'Neighborhood': neighborhood}, ignore_index=True)
In [8]: toronto = toronto[toronto.Borough!='Not assigned']
                      toronto = toronto[toronto.Borough!= 0]
                      toronto.reset_index(drop = True, inplace = True)
                     i = 0
for i in range(0,toronto.shape[0]):
                              if toronto.iloc[i][2] == 'Not assigned':
    toronto.iloc[i][2] = toronto.iloc[i][1]
```

In [9]: df = toronto.groupby(['Postalcode','Borough'])['Neighborhood'].apply(', '.join).reset\_index()
df

Out[9]:

	Postalcode	Borough	Neighborhood
0	M1A\n	Not assigned\n	Not assigned\n
1	M1B\n	Scarborough\n	Malvern, Rouge
2	M1C\n	Scarborough\n	Rouge Hill, Port Union, Highland Creek
3	M1E\n	Scarborough\n	Guildwood, Morningside, West Hill
4 5	M1G\n M1H\n	Scarborough\n Scarborough\n	Woburn
6	M1J\n	Scarborough\n	Scarborough Village
7	M1K\n	Scarborough\n	Kennedy Park, Ionview, East Birchmount Park
8	M1L\n	Scarborough\n	Golden Mile, Clairlea, Oakridge
9	M1M\n	Scarborough\n	Cliffside, Cliffcrest, Scarborough Village West
10 11	M1N\n M1P\n	Scarborough\n	Birch Cliff, Cliffside West  Dorset Park, Wexford Heights, Scarborough Town
12	M1R\n	Scarborough\n	Wexford, Maryvale
13	M1S\n	Scarborough\n	Agincourt
14	M1T\n	Scarborough\n	Clarks Corners, Tam O'Shanter, Sullivan
15	M1V\n	Scarborough\n	Milliken, Agincourt North, Steeles East, L'Amo
16	M1W\n	Scarborough\n	Steeles West, L'Amoreaux West
17 18	M1X\n M1Y\n	Scarborough\n  Not assigned\n	Upper Rouge  Not assigned\n
19	M1Z\n	Not assigned\n	Not assigned\n
20	M2A\n	Not assigned\n	Not assigned\n
21	M2B\n	Not assigned\n	Not assigned\n
22	M2C\n	Not assigned\n	Not assigned\n
23	M2E\n	Not assigned\n	Not assigned\n
24	M2G\n	Not assigned\n	Not assigned\n
25	M2H\n	North York\n North York\n	Hillcrest Village
26 27	M2J\n M2K\n	North York\n	Fairview, Henry Farm, Oriole  Bayview Village
28	M2L\n	North York\n	York Mills, Silver Hills
29	M2M\n	North York\n	Willowdale, Newtonbrook
30	M2N\n	North York\n	Willowdale, Willowdale East
31	M2P\n	North York\n	York Mills West
32	M2R\n	North York\n	Willowdale, Willowdale West
33 34	M2S\n M2T\n	Not assigned\n  Not assigned\n	Not assigned\n  Not assigned\n
35	M2V\n	Not assigned\n	Not assigned in
36	M2W\n	Not assigned\n	Not assigned\n
37	M2X\n	Not assigned\n	Not assigned\n
38	M2Y\n	Not assigned\n	Not assigned\n
39	M2Z\n	Not assigned\n	Not assigned\n
40 41	M3A\n M3B\n	North York\n North York\n	Parkwoods  Don Mills
41	M3C\n	North York\n	Don Mills
43	M3E\n	Not assigned\n	Not assigned\n
44	M3G\n	Not assigned\n	Not assigned\n
45	M3H\n	North York\n	Bathurst Manor, Wilson Heights, Downsview North
46	M3J\n	North York\n	Northwood Park, York University
47	M3K\n	North York\n	Downsview
48 49	M3L\n M3M\n	North York\n North York\n	Downsview Downsview
50	M3N\n	North York\n	Downsview
51	M3P\n	Not assigned\n	Not assigned\n
52	M3R\n	Not assigned\n	Not assigned\n
53	M3S\n	Not assigned\n	Not assigned\n
54 55	M3T\n M3V\n	Not assigned\n  Not assigned\n	Not assigned\n  Not assigned\n
56	M3W\n	Not assigned\n	Not assigned in
57	M3X\n	Not assigned\n	Not assigned\n
58	M3Y\n	Not assigned\n	Not assigned\n
59	M3Z\n	Not assigned\n	Not assigned\n
60	M4A\n	North York\n	Victoria Village
61 62	M4B\n M4C\n	East York\n  East York\n	Parkview Hill, Woodbine Gardens Woodbine Heights
63	M4E\n	East Toronto\n	The Beaches
64	M4G\n	East York\n	Leaside
65	M4H\n	East York\n	Thorncliffe Park
66	M4J\n	East York\n	East Toronto, Broadview North (Old East York)
67	M4K\n	East Toronto\n	The Danforth West, Riverdale
68 69	M4L\n M4M\n	East Toronto\n  East Toronto\n	India Bazaar, The Beaches West Studio District
69 70	M4M\n M4N\n	Central Toronto\n	Studio District  Lawrence Park
71	M4P\n	Central Toronto\n	Davisville North
72	M4R\n	Central Toronto\n	North Toronto West, Lawrence Park
73	M4S\n	Central Toronto\n	Davisville
74	M4T\n	Central Toronto\n	Moore Park, Summerhill East
75 76	M4V\n M4W\n	Central Toronto\n  Downtown Toronto\n	Summerhill West, Rathnelly, South Hill, Forest Rosedale
76 77	M4W\n M4X\n	Downtown Toronto\n  Downtown Toronto\n	Rosedale St. James Town, Cabbagetown
	W.TANII		C. Sames 1941, Cappagetown

	Postalcode	Borough	Neighborhood
78	M4Y\n	Downtown Toronto\n	Church and Wellesley
79	M4Z\n	Not assigned\n	Not assigned\n
80	M5A\n	Downtown Toronto\n	Regent Park, Harbourfront
81 82	M5B\n M5C\n	Downtown Toronto\n  Downtown Toronto\n	Garden District, Ryerson St. James Town
83	M5E\n	Downtown Toronto\n	Berczy Park
84	M5G\n	Downtown Toronto\n	Central Bay Street
85	M5H\n	Downtown Toronto\n	Richmond, Adelaide, King
86	M5J\n	Downtown Toronto\n	Harbourfront East, Union Station, Toronto Islands
87	M5K\n	Downtown Toronto\n	Toronto Dominion Centre, Design Exchange
88 89	M5L\n M5M\n	Downtown Toronto\n  North York\n	Commerce Court, Victoria Hotel  Bedford Park, Lawrence Manor East
90	M5N\n	Central Toronto\n	Roselawn
91	M5P\n	Central Toronto\n	Forest Hill North & West, Forest Hill Road Park
92	M5R\n	Central Toronto\n	The Annex, North Midtown, Yorkville
93	M5S\n	Downtown Toronto\n	University of Toronto, Harbord
94 95	M5T\n M5V\n	Downtown Toronto\n  Downtown Toronto\n	Kensington Market, Chinatown, Grange Park CN Tower, King and Spadina, Railway Lands, Har
96	M5W\n	Downtown Toronto\n	Stn A PO Boxes
97	M5X\n	Downtown Toronto\n	First Canadian Place, Underground city
98	M5Y\n	Not assigned\n	Not assigned\n
99	M5Z\n	Not assigned\n	Not assigned\n
100	M6A\n	North York\n	Lawrence Manor, Lawrence Heights
101	M6B\n M6C\n	North York\n York\n	Glencairn Humewood-Cedarvale
103	M6E\n	York\n	Caledonia-Fairbanks
104	M6G\n	Downtown Toronto\n	Christie
105	M6H\n	West Toronto\n	Dufferin, Dovercourt Village
106	M6J\n	West Toronto\n	Little Portugal, Trinity
107 108	M6K\n M6L\n	West Toronto\n  North York\n	Brockton, Parkdale Village, Exhibition Place North Park, Maple Leaf Park, Upwood Park
109	M6M\n	York\n	Del Ray, Mount Dennis, Keelsdale and Silverthorn
110	M6N\n	York\n	Runnymede, The Junction North
111	M6P\n	West Toronto\n	High Park, The Junction South
112	M6R\n	West Toronto\n	Parkdale, Roncesvalles
113	M6S\n M6T\n	West Toronto\n  Not assigned\n	Runnymede, Swansea  Not assigned\n
115	M6V\n	Not assigned\n	Not assigned\n
116	M6W\n	Not assigned\n	Not assigned\n
117	M6X\n	Not assigned\n	Not assigned\n
118	M6Y\n	Not assigned\n	Not assigned\n
119	M6Z\n M7A\n	Not assigned\n  Downtown Toronto\n	Not assigned\n  Queen's Park, Ontario Provincial Government
121	M7B\n	Not assigned\n	Not assigned\n
122	M7C\n	Not assigned\n	Not assigned\n
123	M7E\n	Not assigned\n	Not assigned\n
124	M7G\n	Not assigned\n  Not assigned\n	Not assigned\n
125 126	M7H\n M7J\n	Not assigned\n	Not assigned\n  Not assigned\n
127	M7K\n	Not assigned\n	Not assigned\n
128	M7L\n	Not assigned\n	Not assigned\n
129	M7M\n	Not assigned\n	Not assigned\n
130 131	M7N\n M7P\n	Not assigned\n  Not assigned\n	Not assigned\n  Not assigned\n
132	M7R\n	Mississauga\n	Canada Post Gateway Processing Centre
133	M7S\n	Not assigned\n	Not assigned\n
134	M7T\n	Not assigned\n	Not assigned\n
135	M7V\n	Not assigned\n	Not assigned\n
136 137	M7W\n M7X\n	Not assigned\n  Not assigned\n	Not assigned\n  Not assigned\n
138	M7Y\n	East Toronto\n	Business reply mail Processing Centre, South C
139	M7Z\n	Not assigned\n	Not assigned\n
140	M8A\n	Not assigned\n	Not assigned\n
141	M8B\n	Not assigned\n	Not assigned\n
142 143	M8C\n	Not assigned\n	Not assigned\n
144	M8E\n M8G\n	Not assigned\n Not assigned\n	Not assigned\n  Not assigned\n
145	M8H\n	Not assigned\n	Not assigned\n
146	M8J\n	Not assigned\n	Not assigned\n
147	M8K\n	Not assigned\n	Not assigned\n
148	M8L\n	Not assigned\n	Not assigned n
149 150	M8M\n M8N\n	Not assigned\n Not assigned\n	Not assigned\n  Not assigned\n
151	M8P\n	Not assigned\n	Not assigned\n
152	M8R\n	Not assigned\n	Not assigned\n
153	M8S\n	Not assigned\n	Not assigned\n
154	M8T\n	Not assigned\n	Not assigned\n
155 156	M8V\n M8W\n	Etobicoke\n Etobicoke\n	New Toronto, Mimico South, Humber Bay Shores  Alderwood, Long Branch
.50		ZioZioone III	, add, about, Long Dianul

```
Borough
                   157
                                  M8X\r
                                                         Ftobicoke\n
                                                                                The Kingsway, Montgomery Road, Old Mill North
                    158
                                                                                 Old Mill South, King's Mill Park, Sunnylea, Hu..
                    159
                                   M8Z\n
                                                         Etobicoke\n Mimico NW, The Queensway West, South of Bloor,..
                    160
                                  M9A\n
                                                                                            Islington Avenue, Humber Valley Village
                    161
                                  M9B\r
                                                         Etobicoke\n West Deane Park, Princess Gardens, Martin Grov...
                    162
                                                                           Eringate, Bloordale Gardens, Old Burnhamthorpe...
                                  M9C\r
                    163
                                  M9E\n
                                                     Not assigned\n
                                                                                                                            Not assigned\n
                    164
                                  M9G\n
                    165
                                  M9H\n
                                                     Not assigned\n
                                                                                                                            Not assigned\n
                    166
                                   M9.J\r
                                                     Not assigned\n
                                                                                                                            Not assigned\n
                    167
                                  M9K\r
                                                     Not assigned\n
                                                                                                                            Not assigned\n
                    168
                                   M9I \r
                                                         North York\n
                                                                                                                          Humber Summit
                    169
                                  M9M\r
                                                        North York\n
                                                                                                                       Humberlea, Emery
                    170
                                  M9N\r
                                                                                                                                     Weston
                                                                York\r
                    171
                                  M9P\r
                                                                                                                                 Westmount
                                                         Etobicoke\n
                    172
                                  M9R\r
                                                         Etobicoke\n
                                                                                    Kingsview Village, St. Phillips, Martin Grove ...
                    173
                                  M9S\r
                                                     Not assigned\n
                                                                                                                            Not assigned\n
                                                                                                                            Not assigned\n
                    174
                                  M9T\r
                                                     Not assigned\n
                    175
                                  M9V\r
                                                                               South Steeles, Silverstone, Humbergate, Jamest...
                    176
                                  M9W\r
                                                         Etobicoke\n
                                                                                                 Northwest West Humber - Clairville
                    177
                                                                                                                            Not assigned\n
                                                     Not assigned\n
                    178
                                  M9Y\n
                                                     Not assigned\n
                                                                                                                            Not assigned\n
                                                     Not assigned\n
                                                                                                                            Not assigned\n
In [10]: def neighborhood_list(grouped):
                          return ', '.join(sorted(grouped['Neighborhood'].tolist()))
                 grp = df.groupby(['Postalcode', 'Borough'])
df_2 = grp.apply(neighborhood_list).reset_index(name='Neighborhood')
                  df_2.describe()
Out[10]:
                                Postalcode
                                                          Borough Neighborhood
                                                                 180
                                                                                        180
                                           180
                     count
                                          180
                                                                 11
                                                                                        100
                                       M8C\n Not assigned\n Not assigned\n
                        top
                       freq
                                                                  77
In [11]: print(df_2.shape)
    df_2.head()
                  (180, 3)
Out[11]:
                                                 Borough
                        Postalcode
                              M1A\n Not assigned\n
                               M1B\n Scarborough\n
                                                                                               Malvern, Rouge
                   2
                               M1C\n Scarborough\n Rouge Hill, Port Union, Highland Creek
                               M1E\n Scarborough\n
                                                                     Guildwood, Morningside, West Hill
                               M1G\n Scarborough\n
In [12]: df_2.to_csv('toronto.csv', index=False)
In [13]: !pip install geopy
!pip install folium
                 print("Installed!")
                 Requirement already satisfied: geopy in c:\users\sai kusal\anaconda3\lib\site-packages (2.0.0)
Requirement already satisfied: geographiclib<2,>=1.49 in c:\users\sai kusal\anaconda3\lib\site-packages (from geopy) (1.50)
                 Collecting folium

Downloading folium-0.11.0-py2.py3-none-any.whl (93 kB)

Requirement already satisfied: numpy in c:\users\sai kusal\anaconda3\lib\site-packages (from folium) (1.18.1)

Collecting branca>=0.3.0
                 Collecting branca=0.3.0

Downloading branca=0.4.1-py3-none-any.whl (24 kB)

Requirement already satisfied: jinja2>=2.9 in c:\users\sai kusal\anaconda3\lib\site-packages (from folium) (2.11.1)

Requirement already satisfied: requests in c:\users\sai kusal\anaconda3\lib\site-packages (from folium) (2.22.0)

Requirement already satisfied: MarkupSafe>=0.23 in c:\users\sai kusal\anaconda3\lib\site-packages (from jnja2>=2.9->folium) (1.1.1)

Requirement already satisfied: idnac2.9,>=2.5 in c:\users\sai kusal\anaconda3\lib\site-packages (from requests->folium) (2.8)

Requirement already satisfied: urllib3|=1.25.0,!=1.25.1,<1.26,>=1.21.1 in c:\users\sai kusal\anaconda3\lib\site-packages (from requests->folium) (2.8)

Requirement already satisfied: certifi>=2017.4.17 in c:\users\sai kusal\anaconda3\lib\site-packages (from requests->folium) (2019.11.28)

Requirement already satisfied: chardet(3.1.0,>=3.0.2 in c:\users\sai kusal\anaconda3\lib\site-packages (from requests->folium) (3.0.4)

Installing collected packages: branca, folium

Successfully installed branca-0.4.1 folium-0.11.0

Installed!
                  Installed!
In [14]: import folium
                  import requests
import json
                  import matplotlib.cm as cm
import matplotlib.colors as colors
import pandas as pd
                  from pandas.io.json import json_normalize
from sklearn.cluster import KMeans
from geopy.geocoders import Nominatim
                 pd.set_option('display.max_columns', None)
pd.set_option('display.max_rows', None)
                  print("Imported!")
                  Imported!
```

Lawrence Park

```
In [16]: toronto_data = df[df['Borough'].str.contains("Toronto")].reset_index(drop=True)
print(toronto_data.shape)
toronto_data.head()

(39, 3)

Out[16]:

Postalcode Borough Neighborhood

0 M4E\n East Toronto\n The Beaches
1 M4K\n East Toronto\n The Danforth West, Riverdale
2 M4L\n East Toronto\n India Bazaar, The Beaches West
3 M4M\n East Toronto\n Studio District
```

In [ ]:

4 M4N\n Central Toronto\n

In [20]: df\_geo = pd.read\_csv('http://cocl.us/Geospatial\_data')
df\_geo.columns = ['Postcode', 'Latitude', 'Longitude']