

In [1]:

```
import numpy as np
import pandas as pd
```

In [2]:

```
import requests

url = "https://api.covid19api.com/country/singapore/status/confirmed"

payload={}
headers = {}

response = requests.request("GET", url, headers=headers, data=payload)

print(response.text)
```

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```
us": "confirmed", "Date": "2022-02-17T00:00:00Z"}, {"Country": "Singapore", "CountryCode": "SG", "Province": "", "City": "", "CityCode": "", "Lat": "1.35", "Lon": "103.82", "Cases": 551519, "Status": "confirmed", "Date": "2022-02-18T00:00:00Z"}, {"Country": "Singapore", "CountryCode": "SG", "Province": "", "City": "", "CityCode": "", "Lat": "1.35", "Lon": "103.82", "Cases": 576355, "Status": "confirmed", "Date": "2022-02-19T00:00:00Z"}, {"Country": "Singapore", "CountryCode": "SG", "Province": "", "City": "", "CityCode": "", "Lat": "1.35", "Lon": "103.82", "Cases": 582638, "Status": "confirmed", "Date": "2022-02-20T00:00:00Z"}, {"Country": "Singapore", "CountryCode": "SG", "Province": "", "City": "", "CityCode": "", "Lat": "1.35", "Lon": "103.82", "Cases": 596261, "Status": "confirmed", "Date": "2022-02-21T00:00:00Z"}, {"Country": "Singapore", "CountryCode": "SG", "Province": "", "City": "", "CityCode": "", "Lat": "1.35", "Lon": "103.82", "Cases": 622293, "Status": "confirmed", "Date": "2022-02-22T00:00:00Z"}, {"Country": "Singapore", "CountryCode": "SG", "Province": "", "City": "", "CityCode": "", "Lat": "1.35", "Lon": "103.82", "Cases": 642605, "Status": "confirmed", "Date": "2022-02-23T00:00:00Z"}, {"Country": "Singapore", "CountryCode": "SG", "Province": "", "City": "", "CityCode": "", "Lat": "1.35", "Lon": "103.82", "Cases": 661198, "Status": "confirmed", "Date": "2022-02-24T00:00:00Z"}, {"Country": "Singapore", "CountryCode": "SG", "Province": "", "City": "", "CityCode": "", "Lat": "1.35", "Lon": "103.82", "Cases": 679795, "Status": "confirmed", "Date": "2022-02-25T00:00:00Z"}, {"Country": "Singapore", "CountryCode": "SG", "Province": "", "City": "", "CityCode": "", "Lat": "1.35", "Lon": "103.82", "Cases": 679795, "Status": "confirmed", "Date": "2022-02-26T00:00:00Z"}]
```

In [3]:

```
import json
json_data = json.loads(response.text)
```

In [44]:

```
dataframe = pd.DataFrame.from_dict(json_data)
```

In [45]:

```
dataframe.head(11)
```

Out[45]:

	Country	CountryCode	Province	City	CityCode	Lat	Lon	Cases	Status
0	Singapore	SG				1.35	103.82	0	confirmed 2022T00
1	Singapore	SG				1.35	103.82	1	confirmed 2023T00
2	Singapore	SG				1.35	103.82	3	confirmed 2024T00
3	Singapore	SG				1.35	103.82	3	confirmed 2025T00
4	Singapore	SG				1.35	103.82	4	confirmed 2026T00
5	Singapore	SG				1.35	103.82	5	confirmed 2027T00
6	Singapore	SG				1.35	103.82	7	confirmed 2028T00
7	Singapore	SG				1.35	103.82	7	confirmed 2029T00
8	Singapore	SG				1.35	103.82	10	confirmed 2030T00
9	Singapore	SG				1.35	103.82	13	confirmed 2031T00
10	Singapore	SG				1.35	103.82	16	confirmed 2001T00

In [46]:

```
df1=dataframe[dataframe["Date"].str.contains("-01T")==True]
```

In [47]:

```
df1.head()
```

Out[47]:

	Country	CountryCode	Province	City	CityCode	Lat	Lon	Cases	Status
10	Singapore	SG				1.35	103.82	16	confirmed
39	Singapore	SG				1.35	103.82	106	confirmed
70	Singapore	SG				1.35	103.82	1000	confirmed
100	Singapore	SG				1.35	103.82	17101	confirmed
131	Singapore	SG				1.35	103.82	35292	confirmed

In [48]:

```
df1['Date_edited']=df1["Date"].str.replace("T00:00:00Z", "")
```

/opt/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:1:

SettingWithCopyWarning:

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy

"""Entry point for launching an IPython kernel.

In [49]:

```
df1.head()
```

Out[49]:

	Country	CountryCode	Province	City	CityCode	Lat	Lon	Cases	Status
10	Singapore	SG				1.35	103.82	16	confirmed
39	Singapore	SG				1.35	103.82	106	confirmed
70	Singapore	SG				1.35	103.82	1000	confirmed
100	Singapore	SG				1.35	103.82	17101	confirmed
131	Singapore	SG				1.35	103.82	35292	confirmed

In [52]:

```
import matplotlib as mpl
import matplotlib.pyplot as plt
import seaborn as sns

df1.plot.bar(x="Date_edited", y="Cases",figsize=(10,10))
plt.xticks(rotation=90)
plt.title('Monthly Count of COVID Cases')
plt.xlabel('Date')
plt.ylabel('Count')
```

Out[52]:

Text(0, 0.5, 'Count')

