Retrieving Data

```python
In [1]:  # Retrieving data from API
         import json
         import requests

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

         payload={}
         headers = {}

         response = requests.request("GET", url, headers=headers, data=payload)
         data = json.loads(response.text)
```

Preprocessing Data

```python
In [2]:  import pandas as pd

         df = pd.DataFrame(data)
```

```python
In [3]:  df.tail()
```

Out[3]:

	Country	CountryCode	Province	City	CityCode	Lat	Lon	Cases	Status	Date
644	Singapore					0	0	184419	confirmed	2021-10-27T00:00:00Z
645	Singapore					0	0	187851	confirmed	2021-10-28T00:00:00Z
646	Singapore					0	0	192099	confirmed	2021-10-29T00:00:00Z
647	Singapore					0	0	195211	confirmed	2021-10-30T00:00:00Z
648	Singapore					0	0	198374	confirmed	2021-10-31T00:00:00Z

```python
In [4]:  df.shape
```

Out[4]: (649, 10)

```python
In [5]:  df = df[['Date', 'Cases']]
         df.head()
```

Out[5]:

	Date	Cases
0	2020-01-22T00:00:00Z	0
1	2020-01-23T00:00:00Z	1
2	2020-01-24T00:00:00Z	3
3	2020-01-25T00:00:00Z	3
4	2020-01-26T00:00:00Z	4

```python
In [6]:  from datetime import datetime, date

         df['Date'] = df['Date'].apply(lambda x: x.split('T')[0])
         df.tail()
```
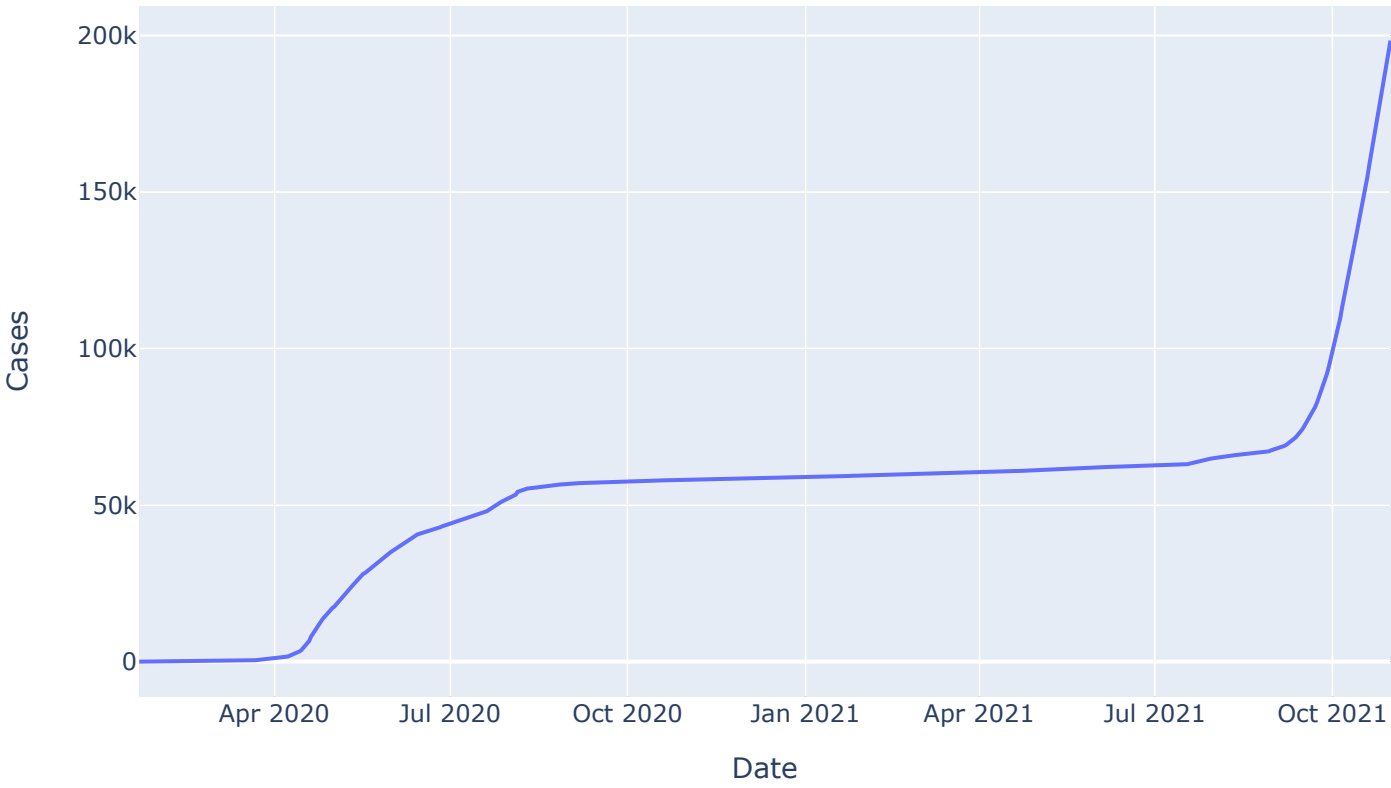
Out[6]:

	Date	Cases
644	2021-10-27	184419
645	2021-10-28	187851
646	2021-10-29	192099
647	2021-10-30	195211
648	2021-10-31	198374

Generating Visualisation

```python
In [7]:  import plotly.express as px
         %matplotlib inline
         fig = px.line(df, x="Date", y="Cases", title="Total number of cases in Singapore over time")
         fig.show()
```


Total number of cases in Singapore over time

```python
In [8]:  fig.write_image("CovidTotal.png")
```

```python
In [ ]:
```