COVID Analysis - Country Specific

Import libraries

In [1]:
```
import pandas as pd
import numpy as np
```

Loading dataset

In [2]:
```
df = pd.read_csv('country_vaccination_preprocessed.csv')
df.head()
```

Out[2]:

	country	iso_code	date	total_vaccinations	people_vaccinated	people_fully_vaccinated	d
0	Afghanistan	AFG	2021-05-27	593313.0	479574.0	113739.0	
1	Afghanistan	AFG	2021-06-03	630305.0	481800.0	148505.0	
2	Afghanistan	AFG	2022-01-27	5081064.0	4517380.0	3868832.0	
3	Albania	ALB	2021-02-18	3049.0	2438.0	611.0	
4	Albania	ALB	2021-05-11	622507.0	440921.0	181586.0	

In [3]:
```
# converting float to int type of column total vaccinations
df['total_vaccinations'] = df['total_vaccinations'].apply( lambda x : int(x))
```

In [4]:
```
def dataframe(df):
    df_ = pd.DataFrame()
    df_['month'] = df.index
    df_['total_vaccinations'] = df.values
    return df_
```

Find Monthly number of total vaccination from Jan to Dec in 2021

In [5]:
```
# collection of data for year 2021
df_2021 = df[df['year'] == 2021]

# Getting sum of total vaccinations group by months
df_monthly = df_2021.groupby('month_name').sum()['total_vaccinations']

# final output
dataframe(df_monthly)
```

Out[5]:

	month	total_vaccinations
0	Apr	19699996461
1	Aug	78662644326
2	Dec	139866584933
3	Feb	4021300388
4	Jan	1137932000
5	Jul	60594470534
6	Jun	44355139362
7	Mar	10542733392
8	May	31736246143
9	Nov	124433009695
10	Oct	110493873823
11	Sep	98931099432