

WEEKLY PROJECT 15

COVID ANALYSIS-Country Specific

1)Importing libraries and dataset

```
In [2]: import numpy as np
import pandas as pd
import datetime
```

```
In [3]: df=pd.read_csv('country_vaccinations.csv')
df.head()
```

Out[3]:

	country	iso_code	date	total_vaccinations	people_vaccinated	people_fully_vaccinated	daily_vaccinations_raw	daily_vaccinations	total_vaccinations_per_hundred	people_vaccinated_per_hundred
0	Afghanistan	AFG	2021-02-22	0.0	0.0	NaN	NaN	NaN	0.0	0.0
1	Afghanistan	AFG	2021-02-23	NaN	NaN	NaN	NaN	1367.0	NaN	NaN
2	Afghanistan	AFG	2021-02-24	NaN	NaN	NaN	NaN	1367.0	NaN	NaN
3	Afghanistan	AFG	2021-02-25	NaN	NaN	NaN	NaN	1367.0	NaN	NaN
4	Afghanistan	AFG	2021-02-26	NaN	NaN	NaN	NaN	1367.0	NaN	NaN

```
In [4]: month_name=[]
for i in df['date']:
    date=int(i.split('-')[2])
    month=int(i.split('-')[1])
    year=int(i.split('-')[0])
    month_name.append(datetime.date(year,month,date).strftime('%b'))
df['month_name']=month_name
df.head()
```

Out[4]:

	country	iso_code	date	total_vaccinations	people_vaccinated	people_fully_vaccinated	daily_vaccinations_raw	daily_vaccinations	total_vaccinations_per_hundred	people_vaccinated_per_hundred
0	Afghanistan	AFG	2021-02-22	0.0	0.0	NaN	NaN	NaN	0.0	0.0
1	Afghanistan	AFG	2021-02-23	NaN	NaN	NaN	NaN	1367.0	NaN	NaN
2	Afghanistan	AFG	2021-02-24	NaN	NaN	NaN	NaN	1367.0	NaN	NaN
3	Afghanistan	AFG	2021-02-25	NaN	NaN	NaN	NaN	1367.0	NaN	NaN
4	Afghanistan	AFG	2021-02-26	NaN	NaN	NaN	NaN	1367.0	NaN	NaN

```
In [5]: year=[]
for i in df['date']:
    year.append(i.split('-')[0])
df['year']=year
df.head()
```

Out[5]:

	country	iso_code	date	total_vaccinations	people_vaccinated	people_fully_vaccinated	daily_vaccinations_raw	daily_vaccinations	total_vaccinations_per_hundred	people_vaccinated_per_hundred
0	Afghanistan	AFG	2021-02-22	0.0	0.0	NaN	NaN	NaN	0.0	0.0
1	Afghanistan	AFG	2021-02-23	NaN	NaN	NaN	NaN	1367.0	NaN	NaN
2	Afghanistan	AFG	2021-02-24	NaN	NaN	NaN	NaN	1367.0	NaN	NaN
3	Afghanistan	AFG	2021-02-25	NaN	NaN	NaN	NaN	1367.0	NaN	NaN
4	Afghanistan	AFG	2021-02-26	NaN	NaN	NaN	NaN	1367.0	NaN	NaN

Monthly number of total vaccinations in 2021

```
In [11]: n=len(df['country'])
l=['Jan', 'Feb', 'Mar', 'Apr', 'May', 'June', 'July', 'Aug', 'Sep', 'Oct', 'Nov', 'Dec']
print("The monthly number of total vaccinations in 2021 are:")
for i in l:
    for j in range(n):
        if(df['month_name'][j]==i and df['year'][j]=='2021'):
            c=df['total_vaccinations'][j].sum()
            print(i,c)
```

The monthly number of total vaccinations in 2021 are:
Jan 417147.0
Feb 19100.0
Mar 92426.0
Apr nan
May 1020056.0
June 1020056.0
July 1020056.0
Aug 4219824.0
Sep 5346026.0
Oct 5911588.0
Nov 6611942.0
Dec 7264791.0

```
In [ ]:
```