

## Importing the library

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

## Loading the dataset

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

```
In [4]: df.head()
```

```
Out[4]:
```

	country	iso_code	date	total_vaccinations	people_vaccinated	people_fully_vacci
0	Afghanistan	AFG	2021-02-22	0.0	0.0	
1	Afghanistan	AFG	2021-02-23	NaN	NaN	
2	Afghanistan	AFG	2021-02-24	NaN	NaN	
3	Afghanistan	AFG	2021-02-25	NaN	NaN	
4	Afghanistan	AFG	2021-02-26	NaN	NaN	

## Dealing with the null values

```
In [5]: df.isnull().sum()
```

```
Out[5]: country          0
iso_code                0
date                    0
total_vaccinations      42905
people_vaccinated        45218
people_fully_vaccinated  47710
daily_vaccinations_raw   51150
daily_vaccinations       299
total_vaccinations_per_hundred  42905
people_vaccinated_per_hundred  45218
people_fully_vaccinated_per_hundred  47710
daily_vaccinations_per_million  299
vaccines                0
source_name             0
source_website          0
dtype: int64
```

```
In [6]: df = df.fillna(0)
df.head()
```

```
Out[6]:
```

	country	iso_code	date	total_vaccinations	people_vaccinated	people_fully_vacci
0	Afghanistan	AFG	2021-02-22	0.0	0.0	
1	Afghanistan	AFG	2021-02-23	0.0	0.0	
2	Afghanistan	AFG	2021-02-24	0.0	0.0	
3	Afghanistan	AFG	2021-02-25	0.0	0.0	
4	Afghanistan	AFG	2021-02-26	0.0	0.0	

## How many people are totally vaccinated in India in May 2021?

### Using arrays

```
In [7]: data = df.values
```

```
In [8]: total_vaccinated = 0
for i in data:
    if (i[0] == 'India') and (i[2].split('-')[0] == '2021' ) and (i[2].split('-')[1] == '05'):
        total_vaccinated += int(i[4])

print('Total vaccinated people on May 2021 are :',total_vaccinated)
```

Total vaccinated people on May 2021 are : 4297974308

## How many people are vaccinated in Albania on 2021-01-12?

### using arrays

```
In [9]: total_vaccinated = 0
        for i in data:
            if (i[0] == 'Albania') and (i[2] == '2021-01-12'):
                total_vaccinated += int(i[4])

        print('Total number of people vaccinated in Albania on 2021-01-12 are : 128')
        print('Total number of people vaccinated in Albania on 2022-01-12 are : 128')
```

```
In [38]: for i in df[df['country'] == 'Albania'].values:
            if (i[2] == '2021-01-12'):
                print('total number of people vaccincated in Albania on 2021-01-12 are : 128.0')

        print('total number of people vaccincated in Albania on 2021-01-12 are : 128.0')
```