WEEKLY PROJECT 9

Statistical Analysis on COVID

Importing libraries and dataset

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

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

Out[2]:

	Country/Region	Confirmed	Deaths	Recovered	Active	New cases	New deaths	New recovered	Deaths / 100 Cases	Recovered / 100 Cases	Deaths / 100 Recovered	Confirmed last week	1 week change	1 week % increase	WHO Region
0	Afghanistan	36263	1269	25198	9796	106	10	18	3.50	69.49	5.04	35526	737	2.07	Eastern Mediterranean
1	Albania	4880	144	2745	1991	117	6	63	2.95	56.25	5.25	4171	709	17.00	Europe
2	Algeria	27973	1163	18837	7973	616	8	749	4.16	67.34	6.17	23691	4282	18.07	Africa
3	Andorra	907	52	803	52	10	0	0	5.73	88.53	6.48	884	23	2.60	Europe
4	Angola	950	41	242	667	18	1	0	4.32	25.47	16.94	749	201	26.84	Africa

1)Average Cases in a country

```
In [16]: Average=[]
         for i in df['Confirmed']:
             c=i/len(df['Country/Region'])
             c=round(c,2)
             Average.append(c)
         Average
         df['Average']=Average
         df.head()
```

Out[16]:

	Country/Region	Confirmed	Deaths	Recovered	Active	New cases	New deaths	New recovered	Deaths / 100 Cases	Recovered / 100 Cases	Deaths / 100 Recovered	Confirmed last week	1 week change	1 week % increase	WHO Region	Average
0	Afghanistan	36263	1269	25198	9796	106	10	18	3.50	69.49	5.04	35526	737	2.07	Eastern Mediterranean	193.92
1	Albania	4880	144	2745	1991	117	6	63	2.95	56.25	5.25	4171	709	17.00	Europe	26.10
2	Algeria	27973	1163	18837	7973	616	8	749	4.16	67.34	6.17	23691	4282	18.07	Africa	149.59
3	Andorra	907	52	803	52	10	0	0	5.73	88.53	6.48	884	23	2.60	Europe	4.85
4	Angola	950	41	242	667	18	1	0	4.32	25.47	16.94	749	201	26.84	Africa	5.08

```
In [19]: avg=(df['Confirmed'].sum())/len(df['Country/Region'])
         print("The average number of cases across all the countries is",avg)
```

The average number of cases across all the countries is 88130.935828877

2)Total number of deaths as per dataset

```
In [6]: d=df['Deaths'].sum()
        print("The total number of deaths as per dataset are",d)
```

The total number of deaths as per dataset are 654036

3)Total number of confirmed cases

```
In [7]: c=df['Confirmed'].sum()
        print("The total number of confirmed cases are",c)
```

The total number of confirmed cases are 16480485

```
In [ ]:
```