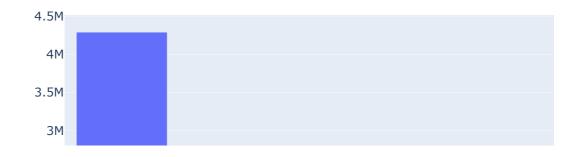
```
In [1]: #importing libraries
         import pandas as pd
         import numpy as np
         import plotly.express as px
In [2]:
         #importing dataset
         df= pd.read_csv("country_wise_latest.csv")
In [3]:
         #checking the dimension
         df.shape
Out[3]: (187, 15)
        #displaying the data
In [4]:
         df.head()
Out[4]:
                                                                    New
                                                                           New
            Country/Region Confirmed Deaths Recovered Active
                                                                   cases
                                                                         deaths recovered
                                                                     106
         0
                Afghanistan
                                 36263
                                          1269
                                                    25198
                                                             9796
                                                                              10
                                                                                        18
                    Albania
                                  4880
                                           144
                                                     2745
                                                             1991
                                                                     117
                                                                                        63
         2
                    Algeria
                                 27973
                                          1163
                                                    18837
                                                             7973
                                                                     616
                                                                               8
                                                                                       749
         3
                   Andorra
                                   907
                                                      803
                                                                      10
                                                                                         0
                                                                               1
         4
                    Angola
                                   950
                                            41
                                                      242
                                                              667
                                                                      18
                                                                                          0
In [5]:
         #checking the null values
         df.isna().sum()
                                    0
Out[5]: Country/Region
         Confirmed
                                    0
                                    0
         Deaths
         Recovered
         Active
                                    0
         New cases
                                    0
         New deaths
         New recovered
                                    0
         Deaths / 100 Cases
         Recovered / 100 Cases
                                    a
         Deaths / 100 Recovered
         Confirmed last week
                                    0
         1 week change
                                    0
         1 week % increase
                                    0
         WHO Region
         dtype: int64
```

EDA (Exploratory Data Analysis) and Visualization

1. Which countries had the highest number of confirmed cases?

```
In [6]:
        high_confirm_cases= df.nlargest (10,'Confirmed')
        high_confirm_cases.head()
Out[7]:
                                                                        New
                                                                                New
                                                                                           Ne
              Country/Region Confirmed Deaths Recovered
                                                               Active
                                                                       cases
                                                                              deaths
                                                                                     recovere
         173
                          US
                                 4290259 148011
                                                    1325804
                                                             2816444
                                                                       56336
                                                                                1076
                                                                                          2794
          23
                        Brazil
                                 2442375
                                           87618
                                                     1846641
                                                               508116 23284
                                                                                 614
                                                                                          3372
          79
                        India
                                 1480073
                                           33408
                                                     951166
                                                               495499 44457
                                                                                 637
                                                                                          3359
         138
                       Russia
                                  816680
                                           13334
                                                     602249
                                                               201097
                                                                        5607
                                                                                  85
                                                                                           307
         154
                  South Africa
                                  452529
                                            7067
                                                     274925
                                                               170537
                                                                        7096
                                                                                 298
                                                                                           984
In [8]:
         px.bar(high_confirm_cases ,
                x= 'Country/Region',
                y='Confirmed',
                title='Top 10 countries with the highest number of confirmed cases')
```

Top 10 countries with the highest number of confirmed cas



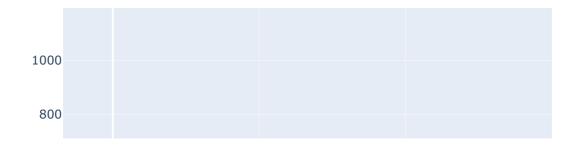
2. What was the distribution of confirmed cases across different WHO regions?

Distribution of confirmed cases across different WHO region



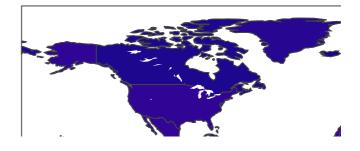
3. What were the trends in new cases, new deaths, and new recoveries in each country?

Trends in new cases, new deaths, and new recoveries in ea



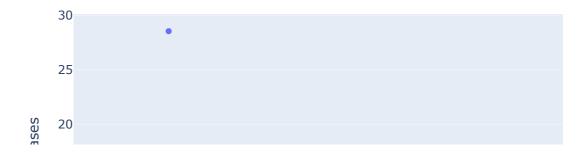
4. What was the 1 -week percentage increase in confirmed cases for each country?

1-week percentage increase in confirmed cases for each co



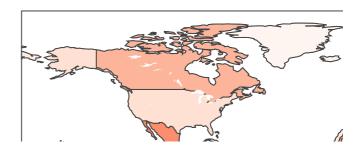
5. How do death rates per 100 confirmed cases vary by WHO region?

Death rates per 100 confirmed cases vary by WHO region



6. What was the mortality rate (deaths per 100 confirmed cases) for each country?

Mortality rate (deaths per 100 confirmed cases) by country



7. How many countries are in each WHO region?

```
In [15]: who_region_count= df['WHO Region'].value_counts().reset_index()
    who_region_count
```

Out[15]:		WHO Region	count
	0	Europe	56
	1	Africa	48
	2	Americas	35
	3	Eastern Mediterranean	22
	4	Western Pacific	16
	5	South-East Asia	10

No. of countries in each WHO Region



8. Treemap of COVID-19 confirmed cases by WHO region and country

Treemap of COVID-19 confirmed cases by WHO region and



In []: