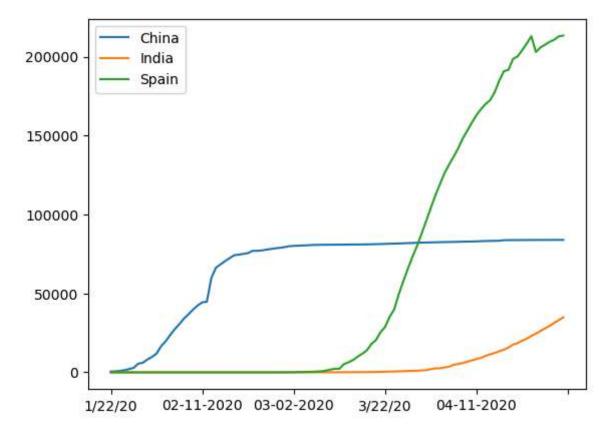
```
In [25]: # Import the libraries
          import numpy as np
          import pandas as pd
          import seaborn as sns
          import matplotlib.pyplot as plt
 In [5]: dataset = pd.read csv("D:/Python/covid19 Confirmed dataset.csv")
          dataset.head()
 Out[5]:
             Country/Region
                                         Long 1/22/20 1/23/20 1/24/20 1/25/20 1/26/20 1/27
                                  Lat
          0
                              33.0000 65.0000
                                                      0
                                                               0
                                                                        0
                                                                                 0
                                                                                          0
                 Afghanistan
          1
                     Albania
                              41.1533 20.1683
                                                               0
                                                                        0
                                                                                 0
                                                                                          0
          2
                              28.0339
                                       1.6596
                                                     0
                                                               0
                                                                        0
                                                                                 0
                                                                                          0
                     Algeria
          3
                     Andorra
                              42.5063
                                       1.5218
                                                                                          0
          4
                     Angola -11.2027 17.8739
                                                      0
                                                               0
                                                                        0
                                                                                 0
                                                                                          0
         5 rows × 103 columns
 In [6]:
          dataset.shape
 Out[6]: (266, 103)
 In [7]: # Deleting the useless column
          df = dataset.drop(["Lat", "Long"], axis=1, inplace=True)
 In [8]: dataset.head()
 Out[8]:
             Country/Region 1/22/20 1/23/20 1/24/20 1/25/20 1/26/20 1/27/20 1/28/20 1/29
          0
                                                                        0
                                                                                           0
                 Afghanistan
                                   0
                                             0
                                                      0
                                                               0
                                                                                 0
          1
                                   0
                                             0
                                                      0
                                                               0
                                                                        0
                                                                                 0
                                                                                           0
                     Albania
          2
                                             0
                                                      0
                                                               0
                                                                        0
                                                                                           0
                     Algeria
                                   0
                                                                                 0
          3
                     Andorra
                                             0
                                                      0
                                                               0
                                                                        0
                                             0
                                                      0
                                                               0
                                                                        0
                                                                                           0
          4
                                   0
                                                                                 0
                     Angola
         5 \text{ rows} \times 101 \text{ columns}
 In [9]: # aggregate the rows by country
          corona_dataset_aggregated = dataset.groupby("Country/Region").sum()
In [10]: corona dataset aggregated.head()
```

Out[10]:		1/22/20	1/23/20	1/24/20	1/25/20	1/26/20	1/27/20	1/28/20	1/29/20
	Country/Region								
	Afghanistan	0	0	0	0	0	0	0	С
	Albania	0	0	0	0	0	0	0	С
	Algeria	0	0	0	0	0	0	0	С
	Andorra	0	0	0	0	0	0	0	С
	Angola	0	0	0	0	0	0	0	С
	5 rows × 100 colu	mns							
	4								
In [11]:	corona_dataset_aggregated.shape								
Out[11]:	: (187, 100)								
In [12]:	<pre># Visualise data related to a country corona_dataset_aggregated.loc["China"]</pre>								
Out[12]:	1/22/20 54 1/23/20 64 1/24/20 92 1/25/20 146 1/26/20 207 4/26/20 8392 4/27/20 8392 4/28/20 8394 4/30/20 8395 Name: China, Le	13 20 06 75 12 18 10 14	ð, dtype:	int64					
In [13]:	<pre># Visualise dat corona_dataset_</pre>				.ot()				

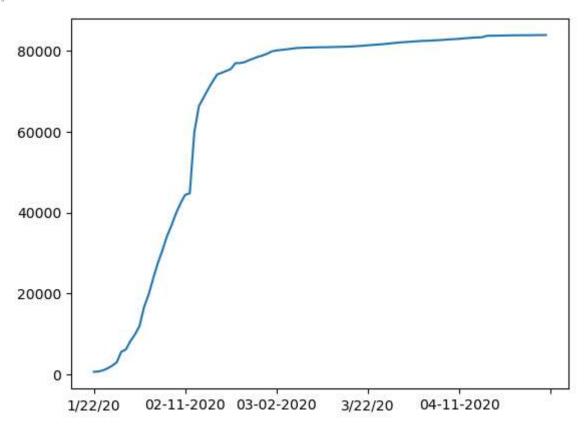
```
corona_dataset_aggregated.loc["China"].plot()
corona_dataset_aggregated.loc["India"].plot()
corona_dataset_aggregated.loc["Spain"].plot()
plt.legend()
```

Out[13]: <matplotlib.legend.Legend at 0x253014450d0>



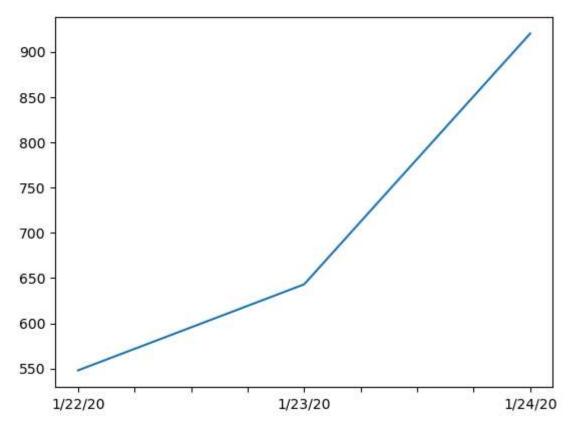
In [14]: # Calculate a good measure
 corona_dataset_aggregated.loc["China"].plot()





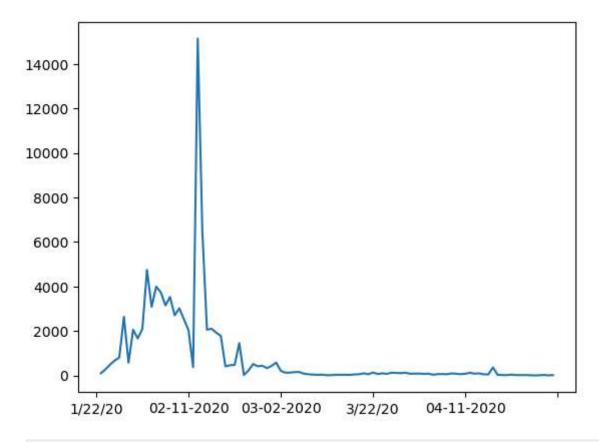
```
In [15]: corona_dataset_aggregated.loc["China"][:3].plot()
```

Out[15]: <Axes: >



In [16]: # Calculate the first derivate of the curve
 corona_dataset_aggregated.loc["China"].diff().plot()

Out[16]: <Axes: >



0	F 2 4 7	
UUT	$I \subseteq I \subseteq I$	1

1/22/20 1/23/20 1/24/20 1/25/20 1/26/20 1/27/20 1/28/20 1/29/20

Country/Region								
Afghanistan	0	0	0	0	0	0	0	С
Albania	0	0	0	0	0	0	0	С
Algeria	0	0	0	0	0	0	0	С
Andorra	0	0	0	0	0	0	0	С
Angola	0	0	0	0	0	0	0	С
•••								•••
West Bank and Gaza	0	0	0	0	0	0	0	С
Western Sahara	0	0	0	0	0	0	0	С
Yemen	0	0	0	0	0	0	0	С
Zambia	0	0	0	0	0	0	0	С
Zimbabwe	0	0	0	0	0	0	0	С

187 rows × 101 columns

Max_infections_rates

Country/Region	
Afghanistan	232.0
Albania	34.0
Algeria	199.0
Andorra	43.0
Angola	5.0
***	•••
West Bank and Gaza	66.0
Western Sahara	4.0
Yemen	5.0
Zambia	9.0
Zimbabwe	8.0

187 rows × 1 columns

```
In [24]: variable_1 = 12
  variable_2 = 13
  c= variable_1 + variable_2
  print(c)
```