Show the 5 recent tweets:

- 1) Justice Ginsburg was a trailblazer who devoted her entire career to fighting for equal justice for women, because she knew it would improve life for
- 2) My dad was the "real" Bill Gates. He was everything I try to be and I will miss him every day.

https://t.co/OnAEsmosNb

- 3) Thank you to the heroes everywhere working to keep us safe. I hope their stories inspire you just as much as they have me: https://t.co/DYFUYMEPK7 h
- 4) These heroes represent the best of who we can be. Their efforts to solve the world's challenges demonstrate our values as a society and they serve a
- 5) RT @OurWorldInData: Some countries responded successfully to the pandemic and more broadly, some are much more successful in protecting t...
- # Create a dataframe with a column called Tweets
 df = pd.DataFrame([tweet.full_text for tweet in posts], columns=['Tweets'])
 # Show the first 5 rows of data
 df.head()
- Tweets

 1 Ustice Ginsburg was a trailblazer who devoted...
 - 1 My dad was the "real" Bill Gates. He was every...
 - 2 Thank you to the heroes everywhere working to ...
 - ${\bf 3} \qquad \text{These heroes represent the best of who we can} \dots$
 - 4 RT @OurWorldInData: Some countries responded s...

Tweets		₽
Justice Ginsburg was a trailblazer who devoted	0	
My dad was the "real" Bill Gates. He was every	1	
Thank you to the heroes everywhere working to	2	
These heroes represent the best of who we can \dots	3	
: Some countries responded successfully to the	4	
Extreme physical distancing measures will make	95	
There's no question the United States missed t	96	
I'm inspired by the generosity of everyone who	97	
One of the questions I am most often asked abo	98	
This impressive new tool from LIW will help ho	99	

100 rows x 1 columns

€	Tweets	Subjectivity	Polarity
0	Justice Ginsburg was a trailblazer who devoted	0.458333	0.166667
1	My dad was the "real" Bill Gates. He was every	0.300000	0.200000
2	Thank you to the heroes everywhere working to	0.350000	0.350000
3	These heroes represent the best of who we can \dots	0.615152	0.509091
4	: Some countries responded successfully to the	0.642500	0.512500
95	Extreme physical distancing measures will make	0.338624	-0.046759
96	There's no question the United States missed t	0.666667	0.100000
97	I'm inspired by the generosity of everyone who	0.950000	0.300000
98	One of the questions I am most often asked abo	0.550000	0.600000
99	This impressive new tool from _UW will help ho	0.504242	0.337273
100	rows × 3 columns		

```
# word cloud visualization
allwords = ' '.join([twts for twts in df['Tweets']])
wordCloud = WordCloud(width=500, height=300, random_state=21, max_font_size=110).generate(allWords)

plt.imshow(wordCloud, interpolation="bilinear")
plt.axis('off')
plt.show()

C- health(San Joseph Merica)

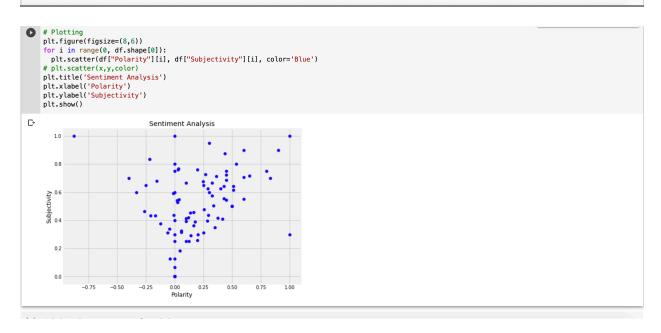
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₽
                                          Tweets Subjectivity Polarity Analysis
     0 Justice Ginsburg was a trailblazer who devoted... 0.458333 0.166667
                                                                              Positive
     My dad was the "real" Bill Gates. He was every...
                                                      0.300000 0.200000
                                                                              Positive
     2 Thank you to the heroes everywhere working to ... 0.350000 0.350000
                                                                              Positive
     3 These heroes represent the best of who we can ...
                                                       0.615152 0.509091
                                                                              Positive
     4 : Some countries responded successfully to the...
                                                      0.642500 0.512500
     95 Extreme physical distancing measures will make... 0.338624 -0.046759 Negative
     96 There's no question the United States missed t... 0.666667 0.100000
                                                                             Positive
     97 I'm inspired by the generosity of everyone who... 0.950000 0.300000
                                                                              Positive
     98 One of the questions I am most often asked abo...
                                                       0.550000 0.600000
                                                                              Positive
     99 This impressive new tool from _UW will help ho... 0.504242 0.337273 Positive
    100 rows x 4 columns
```

```
# Printing positive tweets
print('Printing positive tweets:\n')
j=1
sortedDF = df.sort_values(by=['Polarity']) #Sort the tweets
for i in range(0, sortedDF.shape[0]):
    if( sortedDF['Analysis'][i] == 'Positive'):
        print(str(j) + ') '+ sortedDF['Tweets'][i])
    print()
    j = j+1
```

- - 1) Justice Ginsburg was a trailblazer who devoted her entire career to fighting for equal justice for women, because she knew it would improve life for
 - 2) My dad was the "real" Bill Gates. He was everything I try to be and I will miss him every day.
 - 3) Thank you to the heroes everywhere working to keep us safe. I hope their stories inspire you just as much as they have me:
 - 4) These heroes represent the best of who we can be. Their efforts to solve the world's challenges demonstrate our values as a society and they serve
 - 5): Some countries responded successfully to the pandemic and more broadly, some are much more successful in protecting $t_{\rm min}$
 - 6) Clinical trials are critical to helping researchers better understand Alzheimer's. Improving how we identify and enroll participants in those trials
 - 7) I tackle every big new problem by asking two questions: Who has dealt with this problem well? And what can we learn from them? will help to fill t
 - 8) Of all the things I've learned from Warren Buffett (and there have been a lot), the most important might be what friendship is all about. Here's why
 - 9) Happy 90th birthday, Warren!
 - 10) ., thank you for making the world a healthier and more equitable place. Your understanding of how we can improve global prosperity, through support
 - 11): 6 months ago, Africa confirmed its first case of COVID19. Since then, there have been 1 million cases, affecting every country on...

```
# Printing negative tweets
print('Printing negative tweets:\n')
     sortedDF = df.sort values(by=['Polarity'],ascending=False) #Sort the tweets
     for i in range(0, sortedDF.shape[0]):
    if( sortedDF['Analysis'][i] == 'Negative'):
        print(str(j) + ') '+sortedDF['Tweets'][i])
         print()
        j=j+1
Printing negative tweets:
    1) Because of long-standing barriers that are made worse by COVID-19, hundreds of thousands of students with promise may never start college. This woul
    2) : Three lessons that have been central to the COVID19 response in South Africa, Liberia, & other countries:
     Screening...
    3) Globally, a lack of medical oxygen-needed to treat pneumonia, malaria, and other diseases-leads to hundreds of thousands of deaths each year. found
    4): "It's that clarity of language about the VALUE of black life in America that distinguishes Juneteenth as emancipation...
    5): "Only those feigning blindness fail to see the body of work we are, and the work of body we have done.
    Everything is what it is...
    6) : Juneteenth recognizes & amp; celebrates Black people's freedom and the end of slavery in the US! 19 Jun 1865 Union Army Genera...
    7) Nyongo: 1. This is Opal Lee, the force behind the movement to make Juneteenth a national holiday. Also known as Freedom Day, it...
    8) ...in policing, criminal justice, education, health care, housing, the workplace and all other areas of their lives.
    9) The horrifying killings of George Floyd, Ahmaud Arbery, Breonna Taylor and far too many other Black people—and the protests they sparked—are shining
    10) : The video of George Floyd's brutal death broke my heart. I've watched the protests that followed and have felt overwhelme...
```



```
[16] # Print the percentage of positive tweets
   ptweets = df[df.Analysis == 'Positive']
   ptweets = ptweets['Tweets']
   ptweets
       round( (ptweets.shape[0] / df.shape[0]) * 100 , 1)
 [→ 64.0
[17] # Print the percentage of negative tweets
  ntweets = df[df.Analysis == 'Negative']
  ntweets = ntweets['Tweets']
        round( (ntweets.shape[0] / df.shape[0]) * 100, 1)
 [→ 15.0
                                                                                                                                                                                                                  ↑ ↓ © 目 ‡ ↗ î :
 # Show the value counts
        df['Analysis'].value_counts()
 Positive 64
Neutral 21
Negative 15
Name: Analysis, dtype: int64
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 # Plotting and visualizing the counts
plt.title('Sentiment Analysis')
plt.xlabel('Sentiment')
pltyylabel('Counts')
df['Analysis'].value_counts().plot(kind = 'bar')
plt.show()
 ₽
                                       Sentiment Analysis
             60 —
             50 -
         90 - 40 - 30 -
```

20 -

Sentiment