tweet_task

December 22, 2020

```python
[17]: import tweepy
      import webbrowser
      import time
      import requests
      import base64
      import json
      import seaborn as sns
      import numpy as np
      import pandas as pd
```

```python
[9]: consumer_key = "McleIS9RlMtp6HM6a449tvgYd"
     consumer_secret_key = "qzZ1vpvfftGOMkCSq0RaJyLKMg9mnJnPQdVF80eLhno4zib3ws"
```

```python
[5]: callback_uri="oob"
```

```python
[6]: # Authenticate url
     auth = tweepy.OAuthHandler(consumer_key, consumer_secret, callback_uri)
     redirect_url = auth.get_authorization_url()
     print(redirect_url)
```

https://api.twitter.com/oauth/authorize?oauth_token=VhSBjgAAAAABK3xgAAABdoi3xIA

```python
[10]: key_secret = '{}:{}'.format(consumer_key, consumer_secret_key).encode('ascii')
      b64_encoded_key = base64.b64encode(key_secret)
      b64_encoded_key = b64_encoded_key.decode('ascii')
```

```python
[37]: base_url = 'https://api.twitter.com/'
      auth_url = '{}oauth2/token'.format(base_url)
      auth_headers = {
          'Authorization': 'Basic {}'.format(b64_encoded_key),
          'Content-Type': 'application/x-www-form-urlencoded;charset=UTF-8'
      }
      auth_data = {
          'grant_type': 'client_credentials'
      }
      auth_resp = requests.post(auth_url, headers=auth_headers, data=auth_data)
      print(auth_resp.status_code)
      access_token = auth_resp.json()['access_token']
```

```
[38]:  trend_headers = {
           'Authorization': 'Bearer {}'.format(access_token)
       }

       trend_params = {
           'id': 20070458,
       }


       trend_url = 'https://api.twitter.com/1.1/trends/place.json'
       trend_resp = requests.get(trend_url, headers=trend_headers, params=trend_params)
```

```
[39]:  trend_resp
```

```
[39]:  <Response [200]>
```

```
[40]:  tweet_data = trend_resp.json()
       print(tweet_data)
```

[{'trends': [{'name': '#NationalMathematicsDay', 'url':
'http://twitter.com/search?q=%23NationalMathematicsDay', 'promoted_content':
None, 'query': '%23NationalMathematicsDay', 'tweet_volume': None}, {'name':
'#PanchayatToParliamentBJP', 'url':
'http://twitter.com/search?q=%23PanchayatToParliamentBJP', 'promoted_content':
None, 'query': '%23PanchayatToParliamentBJP', 'tweet_volume': 14998}, {'name':
'#tuesdaymotivations', 'url':
'http://twitter.com/search?q=%23tuesdaymotivations', 'promoted_content': None,
'query': '%23tuesdaymotivations', 'tweet_volume': None}, {'name':
'#SrinivasaRamanujan', 'url':
'http://twitter.com/search?q=%23SrinivasaRamanujan', 'promoted_content': None,
'query': '%23SrinivasaRamanujan', 'tweet_volume': None}, {'name':
'#SaveTodayForFuture', 'url':
'http://twitter.com/search?q=%23SaveTodayForFuture', 'promoted_content': None,
'query': '%23SaveTodayForFuture', 'tweet_volume': 14832}, {'name': 'Legion of
Merit', 'url': 'http://twitter.com/search?q=%22Legion+of+Merit%22',
'promoted_content': None, 'query': '%22Legion+of+Merit%22', 'tweet_volume':
None}, {'name': 'lee sooman', 'url':
'http://twitter.com/search?q=%22lee+sooman%22', 'promoted_content': None,
'query': '%22lee+sooman%22', 'tweet_volume': 20196}, {'name': '   ',
'url': 'http://twitter.com/search?q=%22%E0%A4%B0%E0%A4%BE%E0%A4%B7%E0%A5%8D%E0%A
4%9F%E0%A5%8D%E0%A4%B0%E0%A5%80%E0%A4%AF+%E0%A4%97%E0%A4%A3%E0%A4%BF%E0%A4%A4%22
', 'promoted_content': None, 'query': '%22%E0%A4%B0%E0%A4%BE%E0%A4%B7%E0%A5%8D%E
0%A4%9F%E0%A5%8D%E0%A4%B0%E0%A5%80%E0%A4%AF+%E0%A4%97%E0%A4%A3%E0%A4%BF%E0%A4%A4
%22', 'tweet_volume': None}, {'name': '   ', 'url': 'http://twitt
er.com/search?q=%22%E0%A4%B6%E0%A5%8D%E0%A4%B0%E0%A5%80%E0%A4%A8%E0%A4%BF%E0%A4%
B5%E0%A4%BE%E0%A4%B8+%E0%A4%B0%E0%A4%BE%E0%A4%AE%E0%A4%BE%E0%A4%A8%E0%A5%81%E0%A
4%9C%E0%A4%A8%22', 'promoted_content': None, 'query': '%22%E0%A4%B6%E0%A5%8D%E0%

A4%B0%E0%A5%80%E0%A4%A8%E0%A4%BF%E0%A4%B5%E0%A4%BE%E0%A4%B8+%E0%A4%B0%E0%A4%BE%E0%A4%AE%E0%A4%BE%E0%A4%A8%E0%A5%81%E0%A4%9C%E0%A4%A8%22', 'tweet_volume': None},
{'name': 'US President', 'url':
'http://twitter.com/search?q=%22US+President%22', 'promoted_content': None,
'query': '%22US+President%22', 'tweet_volume': 128227}, {'name': 'US-India',
'url': 'http://twitter.com/search?q=US-India', 'promoted_content': None,
'query': 'US-India', 'tweet_volume': None}, {'name': 'Infinity', 'url':
'http://twitter.com/search?q=Infinity', 'promoted_content': None, 'query':
'Infinity', 'tweet_volume': 26992}, {'name': 'Toronto', 'url':
'http://twitter.com/search?q=Toronto', 'promoted_content': None, 'query':
'Toronto', 'tweet_volume': 38673}, {'name': '   ', 'url': 'http://twitte
r.com/search?q=%22%E0%A4%B6%E0%A5%8D%E0%A4%B0%E0%A5%80+%E0%A4%B9%E0%A4%A8%E0%A5%
81%E0%A4%AE%E0%A4%BE%E0%A4%A8%22', 'promoted_content': None, 'query': '%22%E0%A4
%B6%E0%A5%8D%E0%A4%B0%E0%A5%80+%E0%A4%B9%E0%A4%A8%E0%A5%81%E0%A4%AE%E0%A4%BE%E0%
A4%A8%22', 'tweet_volume': None}, {'name': 'Donald Trump', 'url':
'http://twitter.com/search?q=%22Donald+Trump%22', 'promoted_content': None,
'query': '%22Donald+Trump%22', 'tweet_volume': 223281}, {'name': 'HAPPY BIRTHDAY
SARU', 'url': 'http://twitter.com/search?q=%22HAPPY+BIRTHDAY+SARU%22',
'promoted_content': None, 'query': '%22HAPPY+BIRTHDAY+SARU%22', 'tweet_volume':
None}, {'name': '"Christians"', 'url':
'http://twitter.com/search?q=%22Christians%22', 'promoted_content': None,
'query': '%22Christians%22', 'tweet_volume': 24926}, {'name': 'Werner', 'url':
'http://twitter.com/search?q=Werner', 'promoted_content': None, 'query':
'Werner', 'tweet_volume': 65769}, {'name': '#FarmersBeforeCorporations', 'url':
'http://twitter.com/search?q=%23FarmersBeforeCorporations', 'promoted_content':
None, 'query': '%23FarmersBeforeCorporations', 'tweet_volume': 42769}, {'name':
'#FastTrackSSRCase', 'url': 'http://twitter.com/search?q=%23FastTrackSSRCase',
'promoted_content': None, 'query': '%23FastTrackSSRCase', 'tweet_volume':
51402}, {'name': '#tuesdayvibe', 'url':
'http://twitter.com/search?q=%23tuesdayvibe', 'promoted_content': None, 'query':
'%23tuesdayvibe', 'tweet_volume': None}, {'name': '#KarimaBaloch', 'url':
'http://twitter.com/search?q=%23KarimaBaloch', 'promoted_content': None,
'query': '%23KarimaBaloch', 'tweet_volume': 10193}, {'name':
'#CoronavirusStrain', 'url': 'http://twitter.com/search?q=%23CoronavirusStrain',
'promoted_content': None, 'query': '%23CoronavirusStrain', 'tweet_volume':
None}, {'name': '#Gita_AGiftToMankind', 'url':
'http://twitter.com/search?q=%23Gita_AGiftToMankind', 'promoted_content': None,
'query': '%23Gita_AGiftToMankind', 'tweet_volume': 40429}, {'name':
'#TuesdayThoughts', 'url': 'http://twitter.com/search?q=%23TuesdayThoughts',
'promoted_content': None, 'query': '%23TuesdayThoughts', 'tweet_volume': None},
{'name': '#TuesdayFeeling', 'url':
'http://twitter.com/search?q=%23TuesdayFeeling', 'promoted_content': None,
'query': '%23TuesdayFeeling', 'tweet_volume': None}, {'name':
'#   _ _   ', 'url': 'http://twitter.com/search?q=%23%E0%A4%B0%E0%A4%B
E%E0%A4%B7%E0%A5%8D%E0%A4%9F%E0%A5%8D%E0%A4%B0%E0%A5%80%E0%A4%AF_%E0%A4%97%E0%A4
%A3%E0%A4%BF%E0%A4%A4_%E0%A4%A6%E0%A4%BF%E0%A4%B5%E0%A4%B8', 'promoted_content':
None, 'query': '%23%E0%A4%B0%E0%A4%BE%E0%A4%B7%E0%A5%8D%E0%A4%9F%E0%A5%8D%E0%A4%
B0%E0%A5%80%E0%A4%AF_%E0%A4%97%E0%A4%A3%E0%A4%BF%E0%A4%A4_%E0%A4%A6%E0%A4%BF%E0%

3

A4%B5%E0%A4%B8', 'tweet_volume': None}, {'name': '#I_Support_Farmer_Protest',
'url': 'http://twitter.com/search?q=%23I_Support_Farmer_Protest',
'promoted_content': None, 'query': '%23I_Support_Farmer_Protest',
'tweet_volume': None}, {'name': '#maths', 'url':
'http://twitter.com/search?q=%23maths', 'promoted_content': None, 'query':
'%23maths', 'tweet_volume': None}, {'name': '#GodMorningTuesday', 'url':
'http://twitter.com/search?q=%23GodMorningTuesday', 'promoted_content': None,
'query': '%23GodMorningTuesday', 'tweet_volume': None}, {'name':
'#ModiNaukarAmbaniKa', 'url':
'http://twitter.com/search?q=%23ModiNaukarAmbaniKa', 'promoted_content': None,
'query': '%23ModiNaukarAmbaniKa', 'tweet_volume': 43376}, {'name':
'#tuesdaymorning', 'url': 'http://twitter.com/search?q=%23tuesdaymorning',
'promoted_content': None, 'query': '%23tuesdaymorning', 'tweet_volume': None},
{'name': '#3yearsofsakkapodupoduraja', 'url':
'http://twitter.com/search?q=%233yearsofsakkapodupoduraja', 'promoted_content':
None, 'query': '%233yearsofsakkapodupoduraja', 'tweet_volume': None}, {'name':
'#ProudOfTaylor', 'url': 'http://twitter.com/search?q=%23ProudOfTaylor',
'promoted_content': None, 'query': '%23ProudOfTaylor', 'tweet_volume': 29278},
{'name': '#DDCElections2020', 'url':
'http://twitter.com/search?q=%23DDCElections2020', 'promoted_content': None,
'query': '%23DDCElections2020', 'tweet_volume': None}, {'name': '#   ', 'url':
'http://twitter.com/search?q=%23%E0%A4%9C%E0%A4%AF%E0%A4%AD%E0%A5%80%E0%A4%AE',
'promoted_content': None, 'query':
'%23%E0%A4%9C%E0%A4%AF%E0%A4%AD%E0%A5%80%E0%A4%AE', 'tweet_volume': None},
{'name': '#thetop_100', 'url': 'http://twitter.com/search?q=%23thetop_100',
'promoted_content': None, 'query': '%23thetop_100', 'tweet_volume': 142051},
{'name': '#14YearsForRakhi', 'url':
'http://twitter.com/search?q=%2314YearsForRakhi', 'promoted_content': None,
'query': '%2314YearsForRakhi', 'tweet_volume': 73909}, {'name': '#CHEWHU',
'url': 'http://twitter.com/search?q=%23CHEWHU', 'promoted_content': None,
'query': '%23CHEWHU', 'tweet_volume': 56929}, {'name': '# _ _ ', 'url': 'h
ttp://twitter.com/search?q=%23%E0%A4%9C%E0%A4%AF_%E0%A4%B6%E0%A5%8D%E0%A4%B0%E0%
A5%80_%E0%A4%B0%E0%A4%BE%E0%A4%AE', 'promoted_content': None, 'query': '%23%E0%A
4%9C%E0%A4%AF_%E0%A4%B6%E0%A5%8D%E0%A4%B0%E0%A5%80_%E0%A4%B0%E0%A4%BE%E0%A4%AE',
'tweet_volume': None}, {'name': '#nifty50', 'url':
'http://twitter.com/search?q=%23nifty50', 'promoted_content': None, 'query':
'%23nifty50', 'tweet_volume': None}, {'name': '#babakadhaba', 'url':
'http://twitter.com/search?q=%23babakadhaba', 'promoted_content': None, 'query':
'%23babakadhaba', 'tweet_volume': None}, {'name': '#Britain', 'url':
'http://twitter.com/search?q=%23Britain', 'promoted_content': None, 'query':
'%23Britain', 'tweet_volume': None}], 'as_of': '2020-12-22T04:52:04Z',
'created_at': '2020-12-20T04:47:29Z', 'locations': [{'name': 'Delhi', 'woeid':
20070458}]}]

```
[41]: type(tweet_data)
```

```
[41]: list
```

```
[42]: len(tweet_data)
```

```
[42]: 1
```

```
[43]: for i in range(0,10):
          print(tweet_data[0]['trends'][i])
```

```
{'name': '#NationalMathematicsDay', 'url':
'http://twitter.com/search?q=%23NationalMathematicsDay', 'promoted_content':
None, 'query': '%23NationalMathematicsDay', 'tweet_volume': None}
{'name': '#PanchayatToParliamentBJP', 'url':
'http://twitter.com/search?q=%23PanchayatToParliamentBJP', 'promoted_content':
None, 'query': '%23PanchayatToParliamentBJP', 'tweet_volume': 14998}
{'name': '#tuesdaymotivations', 'url':
'http://twitter.com/search?q=%23tuesdaymotivations', 'promoted_content': None,
'query': '%23tuesdaymotivations', 'tweet_volume': None}
{'name': '#SrinivasaRamanujan', 'url':
'http://twitter.com/search?q=%23SrinivasaRamanujan', 'promoted_content': None,
'query': '%23SrinivasaRamanujan', 'tweet_volume': None}
{'name': '#SaveTodayForFuture', 'url':
'http://twitter.com/search?q=%23SaveTodayForFuture', 'promoted_content': None,
'query': '%23SaveTodayForFuture', 'tweet_volume': 14832}
{'name': 'Legion of Merit', 'url':
'http://twitter.com/search?q=%22Legion+of+Merit%22', 'promoted_content': None,
'query': '%22Legion+of+Merit%22', 'tweet_volume': None}
{'name': 'lee sooman', 'url': 'http://twitter.com/search?q=%22lee+sooman%22',
'promoted_content': None, 'query': '%22lee+sooman%22', 'tweet_volume': 20196}
{'name': '          ', 'url': 'http://twitter.com/search?q=%22%E0%A4%B0%E0%A
4%BE%E0%A4%B7%E0%A5%8D%E0%A4%9F%E0%A5%8D%E0%A4%B0%E0%A5%80%E0%A4%AF+%E0%A4%97%E0
%A4%A3%E0%A4%BF%E0%A4%A4%22', 'promoted_content': None, 'query': '%22%E0%A4%B0%E
0%A4%BE%E0%A4%B7%E0%A5%8D%E0%A4%9F%E0%A5%8D%E0%A4%B0%E0%A5%80%E0%A4%AF+%E0%A4%97
%E0%A4%A3%E0%A4%BF%E0%A4%A4%22', 'tweet_volume': None}
{'name': '            ', 'url': 'http://twitter.com/search?q=%22%E0%A4%B6%
E0%A5%8D%E0%A4%B0%E0%A5%80%E0%A4%A8%E0%A4%BF%E0%A4%B5%E0%A4%BE%E0%A4%B8+%E0%A4%B
0%E0%A4%BE%E0%A4%AE%E0%A4%BE%E0%A4%A8%E0%A5%81%E0%A4%9C%E0%A4%A8%22',
'promoted_content': None, 'query': '%22%E0%A4%B6%E0%A5%8D%E0%A4%B0%E0%A5%80%E0%A
4%A8%E0%A4%BF%E0%A4%B5%E0%A4%BE%E0%A4%B8+%E0%A4%B0%E0%A4%BE%E0%A4%AE%E0%A4%BE%E0
%A4%A8%E0%A5%81%E0%A4%9C%E0%A4%A8%22', 'tweet_volume': None}
{'name': 'US President', 'url':
'http://twitter.com/search?q=%22US+President%22', 'promoted_content': None,
'query': '%22US+President%22', 'tweet_volume': 128227}
```

```
[44]: print(type(tweet_data[0]))
```

```
<class 'dict'>
```

```
[45]: for key, value in tweet_data[0].items() :
          print (key)

      trends
      as_of
      created_at
      locations
```

```
[46]: print(tweet_data[0]['locations'])

      [{'name': 'Delhi', 'woeid': 20070458}]
```

```
[50]: top_ten_tags=[]
      for i in range(0,10):
        top_ten_tags.append(tweet_data[0]['trends'][i]['name'])
      print(top_ten_tags)

      ['#NationalMathematicsDay', '#PanchayatToParliamentBJP', '#tuesdaymotivations',
      '#SrinivasaRamanujan', '#SaveTodayForFuture', 'Legion of Merit', 'lee sooman',
      '        ', '          ', 'US President']
```

```
[71]: master_hash=top_ten_tags[0][1:]
      print(master_hash)

      NationalMathematicsDay
```

```
[73]: trend_headers = {
          'Authorization': 'Bearer {}'.format(access_token)
      }
      '''A UTF-8, URL-encoded search query of 500 characters maximum,
          including operators. Queries may additionally be limited by complexity.'''
      trend_params = {

          'q': "%23"+master_hash,
      }


      trend_url = 'https://api.twitter.com/1.1/search/tweets.json'
      trend_resp = requests.get(trend_url, headers=trend_headers, params=trend_params)
```

```
[75]: tweets=trend_resp.json()
```

```
[76]: #print(tweets)

      {'statuses': [{'created_at': 'Tue Dec 22 05:53:20 +0000 2020', 'id':
      1341260511493517313, 'id_str': '1341260511493517313', 'text': 'RT
      @ieeducation_job: On #NationalMathematicsDay, list of #scholarship for students
      who wish to study math \n\nhttps://t.co/vBDvreKK8O', 'truncated': False,
      'entities': {'hashtags': [{'text': 'NationalMathematicsDay', 'indices': [24,
```

47]}, {'text': 'scholarship', 'indices': [57, 69]}], 'symbols': [],
'user_mentions': [{'screen_name': 'ieeducation_job', 'name': 'IE Education
Jobs', 'id': 1067361803573841921, 'id_str': '1067361803573841921', 'indices':
[3, 19]}], 'urls': [{'url': 'https://t.co/vBDvreKK80', 'expanded_url':
'https://indianexpress.com/article/education/on-national-mathematics-day-list-
of-scholarship-fellowship-programme-available-for-students-7113906/',
'display_url': 'indianexpress.com/article/educat…', 'indices': [108, 131]}]},
'metadata': {'iso_language_code': 'en', 'result_type': 'recent'}, 'source': '<a
href="https://mobile.twitter.com" rel="nofollow">Twitter Web App',
'in_reply_to_status_id': None, 'in_reply_to_status_id_str': None,
'in_reply_to_user_id': None, 'in_reply_to_user_id_str': None,
'in_reply_to_screen_name': None, 'user': {'id': 1313426783757189125, 'id_str':
'1313426783757189125', 'name': 'Iram habib', 'screen_name': 'Iramhabib8',
'location': '', 'description': '', 'url': None, 'entities': {'description':
{'urls': []}}, 'protected': False, 'followers_count': 155, 'friends_count': 308,
'listed_count': 0, 'created_at': 'Tue Oct 06 10:32:24 +0000 2020',
'favourites_count': 289, 'utc_offset': None, 'time_zone': None, 'geo_enabled':
False, 'verified': False, 'statuses_count': 379, 'lang': None,
'contributors_enabled': False, 'is_translator': False, 'is_translation_enabled':
False, 'profile_background_color': 'F5F8FA', 'profile_background_image_url':
None, 'profile_background_image_url_https': None, 'profile_background_tile':
False, 'profile_image_url':
'http://pbs.twimg.com/profile_images/1313431575913140224/-aCobnbd_normal.jpg',
'profile_image_url_https':
'https://pbs.twimg.com/profile_images/1313431575913140224/-aCobnbd_normal.jpg',
'profile_link_color': '1DA1F2', 'profile_sidebar_border_color': 'C0DEED',
'profile_sidebar_fill_color': 'DDEEF6', 'profile_text_color': '333333',
'profile_use_background_image': True, 'has_extended_profile': True,
'default_profile': True, 'default_profile_image': False, 'following': None,
'follow_request_sent': None, 'notifications': None, 'translator_type': 'none'},
'geo': None, 'coordinates': None, 'place': None, 'contributors': None,
'retweeted_status': {'created_at': 'Tue Dec 22 05:31:22 +0000 2020', 'id':
1341254986085269505, 'id_str': '1341254986085269505', 'text': 'On
#NationalMathematicsDay, list of #scholarship for students who wish to study
math \n\nhttps://t.co/vBDvreKK80', 'truncated': False, 'entities': {'hashtags':
[{'text': 'NationalMathematicsDay', 'indices': [3, 26]}, {'text': 'scholarship',
'indices': [36, 48]}], 'symbols': [], 'user_mentions': [], 'urls': [{'url':
'https://t.co/vBDvreKK80', 'expanded_url':
'https://indianexpress.com/article/education/on-national-mathematics-day-list-
of-scholarship-fellowship-programme-available-for-students-7113906/',
'display_url': 'indianexpress.com/article/educat…', 'indices': [87, 110]}]},
'metadata': {'iso_language_code': 'en', 'result_type': 'recent'}, 'source': '<a
href="https://about.twitter.com/products/tweetdeck"
rel="nofollow">TweetDeck', 'in_reply_to_status_id': None,
'in_reply_to_status_id_str': None, 'in_reply_to_user_id': None,
'in_reply_to_user_id_str': None, 'in_reply_to_screen_name': None, 'user': {'id':
1067361803573841921, 'id_str': '1067361803573841921', 'name': 'IE Education
Jobs', 'screen_name': 'ieeducation_job', 'location': 'Noida, India',

'description': '', 'url': 'https://t.co/njoyTJGked', 'entities': {'url': {'urls': [{'url': 'https://t.co/njoyTJGked', 'expanded_url': 'http://indianexpress.com', 'display_url': 'indianexpress.com', 'indices': [0, 23]}]}, 'description': {'urls': []}}, 'protected': False, 'followers_count': 6843, 'friends_count': 2, 'listed_count': 25, 'created_at': 'Tue Nov 27 10:17:39 +0000 2018', 'favourites_count': 30, 'utc_offset': None, 'time_zone': None, 'geo_enabled': False, 'verified': False, 'statuses_count': 16358, 'lang': None, 'contributors_enabled': False, 'is_translator': False, 'is_translation_enabled': False, 'profile_background_color': 'F5F8FA', 'profile_background_image_url': None, 'profile_background_image_url_https': None, 'profile_background_tile': False, 'profile_image_url': 'http://pbs.twimg.com/profile_images/1068414753004036096/YkXCtiuU_normal.jpg', 'profile_image_url_https': 'https://pbs.twimg.com/profile_images/1068414753004036096/YkXCtiuU_normal.jpg', 'profile_banner_url': 'https://pbs.twimg.com/profile_banners/1067361803573841921/1593237469', 'profile_link_color': '1DA1F2', 'profile_sidebar_border_color': 'C0DEED', 'profile_sidebar_fill_color': 'DDEEF6', 'profile_text_color': '333333', 'profile_use_background_image': True, 'has_extended_profile': False, 'default_profile': True, 'default_profile_image': False, 'following': None, 'follow_request_sent': None, 'notifications': None, 'translator_type': 'none'}, 'geo': None, 'coordinates': None, 'place': None, 'contributors': None, 'is_quote_status': False, 'retweet_count': 6, 'favorite_count': 29, 'favorited': False, 'retweeted': False, 'possibly_sensitive': False, 'lang': 'en'}, 'is_quote_status': False, 'retweet_count': 6, 'favorite_count': 0, 'favorited': False, 'retweeted': False, 'possibly_sensitive': False, 'lang': 'en'}, {'created_at': 'Tue Dec 22 05:53:17 +0000 2020', 'id': 1341260502991695874, 'id_str': '1341260502991695874', 'text': "RT @AmitAgarwal: It's #NationalMathematicsDay, held in remembrance of Srinivasa Ramanujan.\n\nWhat do you feel is the greatest mathematical…", 'truncated': False, 'entities': {'hashtags': [{'text': 'NationalMathematicsDay', 'indices': [22, 45]}], 'symbols': [], 'user_mentions': [{'screen_name': 'AmitAgarwal', 'name': 'Amit Agarwal', 'id': 1206909656603320320, 'id_str': '1206909656603320320', 'indices': [3, 15]}], 'urls': []}, 'metadata': {'iso_language_code': 'en', 'result_type': 'recent'}, 'source': 'Twitter for iPhone', 'in_reply_to_status_id': None, 'in_reply_to_status_id_str': None, 'in_reply_to_user_id': None, 'in_reply_to_user_id_str': None, 'in_reply_to_screen_name': None, 'user': {'id': 3276476922, 'id_str': '3276476922', 'name': 'Karan Sharma', 'screen_name': 'karansharma0509', 'location': '', 'description': '', 'url': None, 'entities': {'description': {'urls': []}}, 'protected': False, 'followers_count': 55, 'friends_count': 193, 'listed_count': 1, 'created_at': 'Sat Jul 11 19:37:46 +0000 2015', 'favourites_count': 1078, 'utc_offset': None, 'time_zone': None, 'geo_enabled': False, 'verified': False, 'statuses_count': 1674, 'lang': None, 'contributors_enabled': False, 'is_translator': False, 'is_translation_enabled': False, 'profile_background_color': 'C0DEED', 'profile_background_image_url': 'http://abs.twimg.com/images/themes/theme1/bg.png', 'profile_background_image_url_https':

'https://abs.twimg.com/images/themes/theme1/bg.png', 'profile_background_tile':
False, 'profile_image_url':
'http://pbs.twimg.com/profile_images/811207157496434689/acZS20-c_normal.jpg',
'profile_image_url_https':
'https://pbs.twimg.com/profile_images/811207157496434689/acZS20-c_normal.jpg',
'profile_link_color': '1DA1F2', 'profile_sidebar_border_color': 'C0DEED',
'profile_sidebar_fill_color': 'DDEEF6', 'profile_text_color': '333333',
'profile_use_background_image': True, 'has_extended_profile': False,
'default_profile': True, 'default_profile_image': False, 'following': None,
'follow_request_sent': None, 'notifications': None, 'translator_type': 'none'},
'geo': None, 'coordinates': None, 'place': None, 'contributors': None,
'retweeted_status': {'created_at': 'Tue Dec 22 05:48:20 +0000 2020', 'id':
1341259254976532483, 'id_str': '1341259254976532483', 'text': "It's
#NationalMathematicsDay, held in remembrance of Srinivasa Ramanujan.\n\nWhat do
you feel is the greatest mathem… https://t.co/8wBJz5Zlzt", 'truncated': True,
'entities': {'hashtags': [{'text': 'NationalMathematicsDay', 'indices': [5,
28]}], 'symbols': [], 'user_mentions': [], 'urls': [{'url':
'https://t.co/8wBJz5Zlzt', 'expanded_url':
'https://twitter.com/i/web/status/1341259254976532483', 'display_url':
'twitter.com/i/web/status/1…', 'indices': [117, 140]}]}, 'metadata':
{'iso_language_code': 'en', 'result_type': 'recent'}, 'source': '<a
href="https://mobile.twitter.com" rel="nofollow">Twitter Web App',
'in_reply_to_status_id': None, 'in_reply_to_status_id_str': None,
'in_reply_to_user_id': None, 'in_reply_to_user_id_str': None,
'in_reply_to_screen_name': None, 'user': {'id': 1206909656603320320, 'id_str':
'1206909656603320320', 'name': 'Amit Agarwal', 'screen_name': 'AmitAgarwal',
'location': '', 'description': 'Global Sr. VP and Country Head @amazonIN.
Innovating on behalf of customers and SMBs. Fitness/Cricket/Music/Movies fan.
Dad. Husband. Eternal optimist.', 'url': 'https://t.co/IuE7hv7Sdz', 'entities':
{'url': {'urls': [{'url': 'https://t.co/IuE7hv7Sdz', 'expanded_url':
'https://blog.aboutamazon.in/', 'display_url': 'blog.aboutamazon.in', 'indices':
[0, 23]}]}, 'description': {'urls': []}}, 'protected': False, 'followers_count':
29793, 'friends_count': 39, 'listed_count': 59, 'created_at': 'Tue Dec 17
12:11:09 +0000 2019', 'favourites_count': 12, 'utc_offset': None, 'time_zone':
None, 'geo_enabled': False, 'verified': True, 'statuses_count': 236, 'lang':
None, 'contributors_enabled': False, 'is_translator': False,
'is_translation_enabled': False, 'profile_background_color': 'F5F8FA',
'profile_background_image_url': None, 'profile_background_image_url_https':
None, 'profile_background_tile': False, 'profile_image_url':
'http://pbs.twimg.com/profile_images/1206910670689554432/Vb5nb4NU_normal.jpg',
'profile_image_url_https':
'https://pbs.twimg.com/profile_images/1206910670689554432/Vb5nb4NU_normal.jpg',
'profile_banner_url':
'https://pbs.twimg.com/profile_banners/1206909656603320320/1579886332',
'profile_link_color': '1DA1F2', 'profile_sidebar_border_color': 'C0DEED',
'profile_sidebar_fill_color': 'DDEEF6', 'profile_text_color': '333333',
'profile_use_background_image': True, 'has_extended_profile': False,
'default_profile': True, 'default_profile_image': False, 'following': None,

'follow_request_sent': None, 'notifications': None, 'translator_type': 'none'},
'geo': None, 'coordinates': None, 'place': None, 'contributors': None,
'is_quote_status': False, 'retweet_count': 2, 'favorite_count': 13, 'favorited':
False, 'retweeted': False, 'possibly_sensitive': False, 'lang': 'en'},
'is_quote_status': False, 'retweet_count': 2, 'favorite_count': 0, 'favorited':
False, 'retweeted': False, 'lang': 'en'}, {'created_at': 'Tue Dec 22 05:53:14
+0000 2020', 'id': 1341260489930715136, 'id_str': '1341260489930715136', 'text':
'RT @SadhguruJV: Mathematics did not get invented in a classroom. It is in the
nature of the Universe. #SadhguruQuotes #NationalMathematicsD…', 'truncated':
False, 'entities': {'hashtags': [{'text': 'SadhguruQuotes', 'indices': [102,
117]}], 'symbols': [], 'user_mentions': [{'screen_name': 'SadhguruJV', 'name':
'Sadhguru', 'id': 67611162, 'id_str': '67611162', 'indices': [3, 14]}], 'urls':
[]}, 'metadata': {'iso_language_code': 'en', 'result_type': 'recent'}, 'source':
'Twitter Web App',
'in_reply_to_status_id': None, 'in_reply_to_status_id_str': None,
'in_reply_to_user_id': None, 'in_reply_to_user_id_str': None,
'in_reply_to_screen_name': None, 'user': {'id': 1163437429543411713, 'id_str':
'1163437429543411713', 'name': 'Soumyajit Saha', 'screen_name':
'conscious_saha', 'location': '', 'description': 'Just a Being. Becoming little
more Conscious & an engineer too. ', 'url': None, 'entities': {'description':
{'urls': []}}, 'protected': False, 'followers_count': 31, 'friends_count': 212,
'listed_count': 0, 'created_at': 'Mon Aug 19 13:08:32 +0000 2019',
'favourites_count': 3391, 'utc_offset': None, 'time_zone': None, 'geo_enabled':
False, 'verified': False, 'statuses_count': 2188, 'lang': None,
'contributors_enabled': False, 'is_translator': False, 'is_translation_enabled':
False, 'profile_background_color': 'F5F8FA', 'profile_background_image_url':
None, 'profile_background_image_url_https': None, 'profile_background_tile':
False, 'profile_image_url':
'http://pbs.twimg.com/profile_images/1282286214423314432/_bv3ANFe_normal.jpg',
'profile_image_url_https':
'https://pbs.twimg.com/profile_images/1282286214423314432/_bv3ANFe_normal.jpg',
'profile_banner_url':
'https://pbs.twimg.com/profile_banners/1163437429543411713/1566261026',
'profile_link_color': '1DA1F2', 'profile_sidebar_border_color': 'C0DEED',
'profile_sidebar_fill_color': 'DDEEF6', 'profile_text_color': '333333',
'profile_use_background_image': True, 'has_extended_profile': False,
'default_profile': True, 'default_profile_image': False, 'following': None,
'follow_request_sent': None, 'notifications': None, 'translator_type': 'none'},
'geo': None, 'coordinates': None, 'place': None, 'contributors': None,
'retweeted_status': {'created_at': 'Tue Dec 22 02:45:00 +0000 2020', 'id':
1341213116722536456, 'id_str': '1341213116722536456', 'text': 'Mathematics did
not get invented in a classroom. It is in the nature of the Universe.
#SadhguruQuotes… https://t.co/0f6FFguRer', 'truncated': True, 'entities':
{'hashtags': [{'text': 'SadhguruQuotes', 'indices': [86, 101]}], 'symbols': [],
'user_mentions': [], 'urls': [{'url': 'https://t.co/0f6FFguRer', 'expanded_url':
'https://twitter.com/i/web/status/1341213116722536456', 'display_url':
'twitter.com/i/web/status/1…', 'indices': [103, 126]}]}, 'metadata':
{'iso_language_code': 'en', 'result_type': 'recent'}, 'source': '<a

href="https://about.twitter.com/products/tweetdeck"
rel="nofollow">TweetDeck', 'in_reply_to_status_id': None,
'in_reply_to_status_id_str': None, 'in_reply_to_user_id': None,
'in_reply_to_user_id_str': None, 'in_reply_to_screen_name': None, 'user': {'id':
67611162, 'id_str': '67611162', 'name': 'Sadhguru', 'screen_name': 'SadhguruJV',
'location': 'India', 'description': 'A Yogi, Mystic & Visionary. This account is
managed by volunteers @Ishafoundation. Tweets from Sadhguru himself are signed -
Sg', 'url': 'http://t.co/S2QHNyuXyg', 'entities': {'url': {'urls': [{'url':
'http://t.co/S2QHNyuXyg', 'expanded_url': 'http://Isha.Sadhguru.org',
'display_url': 'Isha.Sadhguru.org', 'indices': [0, 22]}]}, 'description':
{'urls': []}}, 'protected': False, 'followers_count': 3511592, 'friends_count':
2, 'listed_count': 1546, 'created_at': 'Fri Aug 21 13:49:35 +0000 2009',
'favourites_count': 0, 'utc_offset': None, 'time_zone': None, 'geo_enabled':
True, 'verified': True, 'statuses_count': 10283, 'lang': None,
'contributors_enabled': False, 'is_translator': False, 'is_translation_enabled':
False, 'profile_background_color': 'B08E76', 'profile_background_image_url':
'http://abs.twimg.com/images/themes/theme8/bg.gif',
'profile_background_image_url_https':
'https://abs.twimg.com/images/themes/theme8/bg.gif', 'profile_background_tile':
False, 'profile_image_url':
'http://pbs.twimg.com/profile_images/1132191777195085824/KbxIQUxJ_normal.png',
'profile_image_url_https':
'https://pbs.twimg.com/profile_images/1132191777195085824/KbxIQUxJ_normal.png',
'profile_link_color': '04279C', 'profile_sidebar_border_color': '000000',
'profile_sidebar_fill_color': 'EADEAA', 'profile_text_color': '333333',
'profile_use_background_image': True, 'has_extended_profile': False,
'default_profile': False, 'default_profile_image': False, 'following': None,
'follow_request_sent': None, 'notifications': None, 'translator_type': 'none'},
'geo': None, 'coordinates': None, 'place': None, 'contributors': None,
'is_quote_status': False, 'retweet_count': 2554, 'favorite_count': 5731,
'favorited': False, 'retweeted': False, 'possibly_sensitive': False, 'lang':
'en'}, 'is_quote_status': False, 'retweet_count': 2554, 'favorite_count': 0,
'favorited': False, 'retweeted': False, 'lang': 'en'}, {'created_at': 'Tue Dec
22 05:53:14 +0000 2020', 'id': 1341260488697470977, 'id_str':
'1341260488697470977', 'text': 'RT @dineshjoshilax:
#SrinivasaRamanujan   \n
            …', 'truncated': False, 'entities': {'hashtags':
[{'text': 'SrinivasaRamanujan', 'indices': [33, 52]}], 'symbols': [],
'user_mentions': [{'screen_name': 'dineshjoshilax', 'name': 'Dinesh Joshi',
'id': 1326054663355998208, 'id_str': '1326054663355998208', 'indices': [3,
18]}], 'urls': []}, 'metadata': {'iso_language_code': 'hi', 'result_type':
'recent'}, 'source': '<a href="http://twitter.com/download/android"
rel="nofollow">Twitter for Android', 'in_reply_to_status_id': None,
'in_reply_to_status_id_str': None, 'in_reply_to_user_id': None,
'in_reply_to_user_id_str': None, 'in_reply_to_screen_name': None, 'user': {'id':
844852568580796419, 'id_str': '844852568580796419', 'name': 'Mayank',
'screen_name': 'Mayank36576180', 'location': 'sikar Laxmangarh, India',
'description': '24.09.1992', 'url': None, 'entities': {'description': {'urls':

[]}}, 'protected': False, 'followers_count': 41, 'friends_count': 382,
'listed_count': 1, 'created_at': 'Thu Mar 23 10:05:23 +0000 2017',
'favourites_count': 450, 'utc_offset': None, 'time_zone': None, 'geo_enabled':
False, 'verified': False, 'statuses_count': 623, 'lang': None,
'contributors_enabled': False, 'is_translator': False, 'is_translation_enabled':
False, 'profile_background_color': 'F5F8FA', 'profile_background_image_url':
None, 'profile_background_image_url_https': None, 'profile_background_tile':
False, 'profile_image_url':
'http://pbs.twimg.com/profile_images/993446695814938624/Qd-CFzGW_normal.jpg',
'profile_image_url_https':
'https://pbs.twimg.com/profile_images/993446695814938624/Qd-CFzGW_normal.jpg',
'profile_banner_url':
'https://pbs.twimg.com/profile_banners/844852568580796419/1607791250',
'profile_link_color': '1DA1F2', 'profile_sidebar_border_color': 'C0DEED',
'profile_sidebar_fill_color': 'DDEEF6', 'profile_text_color': '333333',
'profile_use_background_image': True, 'has_extended_profile': True,
'default_profile': True, 'default_profile_image': False, 'following': None,
'follow_request_sent': None, 'notifications': None, 'translator_type': 'none'},
'geo': None, 'coordinates': None, 'place': None, 'contributors': None,
'retweeted_status': {'created_at': 'Tue Dec 22 03:34:52 +0000 2020', 'id':
1341225667661336576, 'id_str': '1341225667661336576', 'text': '
#SrinivasaRamanujan   \n
          … https://t.co/dO3Qt9Js00', 'truncated': True, 'entities':
{'hashtags': [{'text': 'SrinivasaRamanujan', 'indices': [13, 32]}], 'symbols':
[], 'user_mentions': [], 'urls': [{'url': 'https://t.co/dO3Qt9Js00',
'expanded_url': 'https://twitter.com/i/web/status/1341225667661336576',
'display_url': 'twitter.com/i/web/status/1…', 'indices': [114, 137]}]},
'metadata': {'iso_language_code': 'hi', 'result_type': 'recent'}, 'source': '<a
href="http://twitter.com/download/android" rel="nofollow">Twitter for
Android', 'in_reply_to_status_id': None, 'in_reply_to_status_id_str': None,
'in_reply_to_user_id': None, 'in_reply_to_user_id_str': None,
'in_reply_to_screen_name': None, 'user': {'id': 1326054663355998208, 'id_str':
'1326054663355998208', 'name': 'Dinesh Joshi', 'screen_name': 'dineshjoshilax',
'location': 'Laxmangarh, India', 'description': '
(2018)   ', 'url': None, 'entities': {'description':
{'urls': []}}, 'protected': False, 'followers_count': 89, 'friends_count': 82,
'listed_count': 0, 'created_at': 'Tue Nov 10 06:50:56 +0000 2020',
'favourites_count': 1214, 'utc_offset': None, 'time_zone': None, 'geo_enabled':
False, 'verified': False, 'statuses_count': 251, 'lang': None,
'contributors_enabled': False, 'is_translator': False, 'is_translation_enabled':
False, 'profile_background_color': 'F5F8FA', 'profile_background_image_url':
None, 'profile_background_image_url_https': None, 'profile_background_tile':
False, 'profile_image_url':
'http://pbs.twimg.com/profile_images/1326055770136326145/7ma_JqS__normal.jpg',
'profile_image_url_https':
'https://pbs.twimg.com/profile_images/1326055770136326145/7ma_JqS__normal.jpg',
'profile_banner_url':
'https://pbs.twimg.com/profile_banners/1326054663355998208/1604991353',

'profile_link_color': '1DA1F2', 'profile_sidebar_border_color': 'C0DEED',
'profile_sidebar_fill_color': 'DDEEF6', 'profile_text_color': '333333',
'profile_use_background_image': True, 'has_extended_profile': False,
'default_profile': True, 'default_profile_image': False, 'following': None,
'follow_request_sent': None, 'notifications': None, 'translator_type': 'none'},
'geo': None, 'coordinates': None, 'place': None, 'contributors': None,
'is_quote_status': False, 'retweet_count': 1, 'favorite_count': 6, 'favorited':
False, 'retweeted': False, 'possibly_sensitive': False, 'lang': 'hi'},
'is_quote_status': False, 'retweet_count': 1, 'favorite_count': 0, 'favorited':
False, 'retweeted': False, 'lang': 'hi'}, {'created_at': 'Tue Dec 22 05:53:13
+0000 2020', 'id': 1341260483366539266, 'id_str': '1341260483366539266', 'text':
'RT @indutiwarijbp:
                                    …', 'truncated':
False, 'entities': {'hashtags': [], 'symbols': [], 'user_mentions':
[{'screen_name': 'indutiwarijbp', 'name': 'Indu Tiwari', 'id':
954039037718708224, 'id_str': '954039037718708224', 'indices': [3, 17]}],
'urls': []}, 'metadata': {'iso_language_code': 'hi', 'result_type': 'recent'},
'source': 'Twitter
for Android', 'in_reply_to_status_id': None, 'in_reply_to_status_id_str':
None, 'in_reply_to_user_id': None, 'in_reply_to_user_id_str': None,
'in_reply_to_screen_name': None, 'user': {'id': 1036118700640722944, 'id_str':
'1036118700640722944', 'name': 'Ankur jain', 'screen_name': 'Ankurja39063425',
'location': '', 'description': 'politician', 'url': None, 'entities':
{'description': {'urls': []}}, 'protected': False, 'followers_count': 123,
'friends_count': 111, 'listed_count': 0, 'created_at': 'Sun Sep 02 05:08:43
+0000 2018', 'favourites_count': 1535, 'utc_offset': None, 'time_zone': None,
'geo_enabled': False, 'verified': False, 'statuses_count': 1517, 'lang': None,
'contributors_enabled': False, 'is_translator': False, 'is_translation_enabled':
False, 'profile_background_color': 'F5F8FA', 'profile_background_image_url':
None, 'profile_background_image_url_https': None, 'profile_background_tile':
False, 'profile_image_url':
'http://pbs.twimg.com/profile_images/1036126514536898560/ugOwC2Gp_normal.jpg',
'profile_image_url_https':
'https://pbs.twimg.com/profile_images/1036126514536898560/ugOwC2Gp_normal.jpg',
'profile_link_color': '1DA1F2', 'profile_sidebar_border_color': 'C0DEED',
'profile_sidebar_fill_color': 'DDEEF6', 'profile_text_color': '333333',
'profile_use_background_image': True, 'has_extended_profile': True,
'default_profile': True, 'default_profile_image': False, 'following': None,
'follow_request_sent': None, 'notifications': None, 'translator_type': 'none'},
'geo': None, 'coordinates': None, 'place': None, 'contributors': None,
'retweeted_status': {'created_at': 'Tue Dec 22 05:31:22 +0000 2020', 'id':
1341254984466276353, 'id_str': '1341254984466276353', 'text': '

            … https://t.co/OlbDwvdiF5', 'truncated': True,
'entities': {'hashtags': [], 'symbols': [], 'user_mentions': [], 'urls':
[{'url': 'https://t.co/OlbDwvdiF5', 'expanded_url':
'https://twitter.com/i/web/status/1341254984466276353', 'display_url':
'twitter.com/i/web/status/1…', 'indices': [117, 140]}]}, 'metadata':

{'iso_language_code': 'hi', 'result_type': 'recent'}, 'source': '<a
href="http://twitter.com/download/iphone" rel="nofollow">Twitter for
iPhone', 'in_reply_to_status_id': None, 'in_reply_to_status_id_str': None,
'in_reply_to_user_id': None, 'in_reply_to_user_id_str': None,
'in_reply_to_screen_name': None, 'user': {'id': 954039037718708224, 'id_str':
'954039037718708224', 'name': 'Indu Tiwari', 'screen_name': 'indutiwarijbp',
'location': 'Jabalpur, India', 'description': ' | MLA Panagar Jabalpur
M.P. #MLA #JABALPUR #JBP #MADHYAPRADESH #MP #BJP #bharat', 'url':
'https://t.co/i6AznuKsvM', 'entities': {'url': {'urls': [{'url':
'https://t.co/i6AznuKsvM', 'expanded_url': 'http://www.indutiwari.in',
'display_url': 'indutiwari.in', 'indices': [0, 23]}]}, 'description': {'urls':
[]}}, 'protected': False, 'followers_count': 19745, 'friends_count': 195,
'listed_count': 1, 'created_at': 'Thu Jan 18 17:13:26 +0000 2018',
'favourites_count': 5635, 'utc_offset': None, 'time_zone': None, 'geo_enabled':
True, 'verified': True, 'statuses_count': 3993, 'lang': None,
'contributors_enabled': False, 'is_translator': False, 'is_translation_enabled':
False, 'profile_background_color': '000000', 'profile_background_image_url':
'http://abs.twimg.com/images/themes/theme1/bg.png',
'profile_background_image_url_https':
'https://abs.twimg.com/images/themes/theme1/bg.png', 'profile_background_tile':
False, 'profile_image_url':
'http://pbs.twimg.com/profile_images/1316957289832534016/wnXzMUt2_normal.jpg',
'profile_image_url_https':
'https://pbs.twimg.com/profile_images/1316957289832534016/wnXzMUt2_normal.jpg',
'profile_banner_url':
'https://pbs.twimg.com/profile_banners/954039037718708224/1584171383',
'profile_link_color': 'FF691F', 'profile_sidebar_border_color': '000000',
'profile_sidebar_fill_color': '000000', 'profile_text_color': '000000',
'profile_use_background_image': False, 'has_extended_profile': True,
'default_profile': False, 'default_profile_image': False, 'following': None,
'follow_request_sent': None, 'notifications': None, 'translator_type': 'none'},
'geo': None, 'coordinates': None, 'place': None, 'contributors': None,
'is_quote_status': False, 'retweet_count': 3, 'favorite_count': 5, 'favorited':
False, 'retweeted': False, 'possibly_sensitive': False, 'lang': 'hi'},
'is_quote_status': False, 'retweet_count': 3, 'favorite_count': 0, 'favorited':
False, 'retweeted': False, 'lang': 'hi'}, {'created_at': 'Tue Dec 22 05:53:11
+0000 2020', 'id': 1341260477821669378, 'id_str': '1341260477821669378', 'text':
'RT @punia_tanuj:
                                #   _ …',
'truncated': False, 'entities': {'hashtags': [], 'symbols': [], 'user_mentions':
[{'screen_name': 'punia_tanuj', 'name': 'Tanuj Punia', 'id':
1101021405401866241, 'id_str': '1101021405401866241', 'indices': [3, 15]}],
'urls': []}, 'metadata': {'iso_language_code': 'hi', 'result_type': 'recent'},
'source': 'Twitter Web
App', 'in_reply_to_status_id': None, 'in_reply_to_status_id_str': None,
'in_reply_to_user_id': None, 'in_reply_to_user_id_str': None,
'in_reply_to_screen_name': None, 'user': {'id': 1321724868870565888, 'id_str':
'1321724868870565888', 'name': 'Riya Shrama', 'screen_name': 'RiyaShrama10',

'location': '', 'description': '', 'url': None, 'entities': {'description': {'urls': []}}, 'protected': False, 'followers_count': 12, 'friends_count': 18, 'listed_count': 0, 'created_at': 'Thu Oct 29 08:05:47 +0000 2020', 'favourites_count': 393, 'utc_offset': None, 'time_zone': None, 'geo_enabled': False, 'verified': False, 'statuses_count': 385, 'lang': None, 'contributors_enabled': False, 'is_translator': False, 'is_translation_enabled': False, 'profile_background_color': 'F5F8FA', 'profile_background_image_url': None, 'profile_background_image_url_https': None, 'profile_background_tile': False, 'profile_image_url': 'http://abs.twimg.com/sticky/default_profile_images/default_profile_normal.png', 'profile_image_url_https': 'https://abs.twimg.com/sticky/default_profile_images/ default_profile_normal.png', 'profile_link_color': '1DA1F2', 'profile_sidebar_border_color': 'C0DEED', 'profile_sidebar_fill_color': 'DDEEF6', 'profile_text_color': '333333', 'profile_use_background_image': True, 'has_extended_profile': True, 'default_profile': True, 'default_profile_image': True, 'following': None, 'follow_request_sent': None, 'notifications': None, 'translator_type': 'none'}, 'geo': None, 'coordinates': None, 'place': None, 'contributors': None, 'retweeted_status': {'created_at': 'Tue Dec 22 02:35:23 +0000 2020', 'id': 1341210698383122432, 'id_str': '1341210698383122432', 'text': '
                … https://t.co/9wuq7dpMlN', 'truncated': True, 'entities': {'hashtags': [], 'symbols': [], 'user_mentions': [], 'urls': [{'url': 'https://t.co/9wuq7dpMlN', 'expanded_url': 'https://twitter.com/i/web/status/1341210698383122432', 'display_url': 'twitter.com/i/web/status/1…', 'indices': [108, 131]}]}, 'metadata': {'iso_language_code': 'hi', 'result_type': 'recent'}, 'source': 'Twitter Web App', 'in_reply_to_status_id': None, 'in_reply_to_status_id_str': None, 'in_reply_to_user_id': None, 'in_reply_to_user_id_str': None, 'in_reply_to_screen_name': None, 'user': {'id': 1101021405401866241, 'id_str': '1101021405401866241', 'name': 'Tanuj Punia', 'screen_name': 'punia_tanuj', 'location': 'Barabanki, India', 'description': "St. Francis' School | The Doon School | IITian | Vice President UPCC SC Department | MLA & MP Candidate 2017 & 2019", 'url': None, 'entities': {'description': {'urls': []}}, 'protected': False, 'followers_count': 5363, 'friends_count': 240, 'listed_count': 3, 'created_at': 'Thu Feb 28 07:28:53 +0000 2019', 'favourites_count': 5379, 'utc_offset': None, 'time_zone': None, 'geo_enabled': False, 'verified': True, 'statuses_count': 3279, 'lang': None, 'contributors_enabled': False, 'is_translator': False, 'is_translation_enabled': False, 'profile_background_color': 'F5F8FA', 'profile_background_image_url': None, 'profile_background_image_url_https': None, 'profile_background_tile': False, 'profile_image_url': 'http://pbs.twimg.com/profile_images/1325716347397894144/pF5oaTKI_normal.jpg', 'profile_image_url_https': 'https://pbs.twimg.com/profile_images/1325716347397894144/pF5oaTKI_normal.jpg', 'profile_banner_url': 'https://pbs.twimg.com/profile_banners/1101021405401866241/1551352999', 'profile_link_color': '1DA1F2', 'profile_sidebar_border_color': 'C0DEED',

'profile_sidebar_fill_color': 'DDEEF6', 'profile_text_color': '333333',
'profile_use_background_image': True, 'has_extended_profile': False,
'default_profile': True, 'default_profile_image': False, 'following': None,
'follow_request_sent': None, 'notifications': None, 'translator_type': 'none'},
'geo': None, 'coordinates': None, 'place': None, 'contributors': None,
'is_quote_status': False, 'retweet_count': 9, 'favorite_count': 27, 'favorited':
False, 'retweeted': False, 'possibly_sensitive': False, 'lang': 'hi'},
'is_quote_status': False, 'retweet_count': 9, 'favorite_count': 0, 'favorited':
False, 'retweeted': False, 'lang': 'hi'}, {'created_at': 'Tue Dec 22 05:53:11
+0000 2020', 'id': 1341260476622065664, 'id_str': '1341260476622065664', 'text':
'RT @dinesh_ve: An equation means nothing to me unless it expresses a thought of
God.\n   : Srinivasan Ramanujan\n#NationalMathe…', 'truncated':
False, 'entities': {'hashtags': [], 'symbols': [], 'user_mentions':
[{'screen_name': 'dinesh_ve', 'name': '   ', 'id': 4850548316, 'id_str':
'4850548316', 'indices': [3, 13]}], 'urls': []}, 'metadata':
{'iso_language_code': 'en', 'result_type': 'recent'}, 'source': '<a
href="http://twitter.com/download/android" rel="nofollow">Twitter for
Android', 'in_reply_to_status_id': None, 'in_reply_to_status_id_str': None,
'in_reply_to_user_id': None, 'in_reply_to_user_id_str': None,
'in_reply_to_screen_name': None, 'user': {'id': 1296848057443573760, 'id_str':
'1296848057443573760', 'name': 'Chaudhary Himmat', 'screen_name':
'ChaudharyHimma5', 'location': '', 'description': 'student', 'url': None,
'entities': {'description': {'urls': []}}, 'protected': False,
'followers_count': 10, 'friends_count': 178, 'listed_count': 0, 'created_at':
'Fri Aug 21 16:35:43 +0000 2020', 'favourites_count': 1112, 'utc_offset': None,
'time_zone': None, 'geo_enabled': False, 'verified': False, 'statuses_count':
679, 'lang': None, 'contributors_enabled': False, 'is_translator': False,
'is_translation_enabled': False, 'profile_background_color': 'F5F8FA',
'profile_background_image_url': None, 'profile_background_image_url_https':
None, 'profile_background_tile': False, 'profile_image_url':
'http://abs.twimg.com/sticky/default_profile_images/default_profile_normal.png',
'profile_image_url_https': 'https://abs.twimg.com/sticky/default_profile_images/
default_profile_normal.png', 'profile_link_color': '1DA1F2',
'profile_sidebar_border_color': 'C0DEED', 'profile_sidebar_fill_color':
'DDEEF6', 'profile_text_color': '333333', 'profile_use_background_image': True,
'has_extended_profile': True, 'default_profile': True, 'default_profile_image':
True, 'following': None, 'follow_request_sent': None, 'notifications': None,
'translator_type': 'none'}, 'geo': None, 'coordinates': None, 'place': None,
'contributors': None, 'retweeted_status': {'created_at': 'Tue Dec 22 05:07:18
+0000 2020', 'id': 1341248929329983488, 'id_str': '1341248929329983488', 'text':
'An equation means nothing to me unless it expresses a thought of God.\n
: Srinivasan Ramanujan… https://t.co/rEFPVO9MwE', 'truncated': True, 'entities':
{'hashtags': [], 'symbols': [], 'user_mentions': [], 'urls': [{'url':
'https://t.co/rEFPVO9MwE', 'expanded_url':
'https://twitter.com/i/web/status/1341248929329983488', 'display_url':
'twitter.com/i/web/status/1…', 'indices': [111, 134]}]}, 'metadata':
{'iso_language_code': 'en', 'result_type': 'recent'}, 'source': '<a
href="http://twitter.com/download/android" rel="nofollow">Twitter for

Android', 'in_reply_to_status_id': None, 'in_reply_to_status_id_str': None,
'in_reply_to_user_id': None, 'in_reply_to_user_id_str': None,
'in_reply_to_screen_name': None, 'user': {'id': 4850548316, 'id_str':
'4850548316', 'name': '   ', 'screen_name': 'dinesh_ve', 'location':
'   ,   , ', 'description': '
    ', 'url': 'https://t.co/v5DS3JmzhJ', 'entities': {'url': {'urls':
[{'url': 'https://t.co/v5DS3JmzhJ', 'expanded_url':
'http://www.bharatkeveer.gov.in', 'display_url': 'bharatkeveer.gov.in',
'indices': [0, 23]}]}, 'description': {'urls': []}}, 'protected': False,
'followers_count': 97, 'friends_count': 99, 'listed_count': 0, 'created_at':
'Tue Feb 02 19:21:18 +0000 2016', 'favourites_count': 18000, 'utc_offset': None,
'time_zone': None, 'geo_enabled': True, 'verified': False, 'statuses_count':
1388, 'lang': None, 'contributors_enabled': False, 'is_translator': False,
'is_translation_enabled': False, 'profile_background_color': 'F5F8FA',
'profile_background_image_url': None, 'profile_background_image_url_https':
None, 'profile_background_tile': False, 'profile_image_url':
'http://pbs.twimg.com/profile_images/1210047737393102848/Z_NB3iMa_normal.jpg',
'profile_image_url_https':
'https://pbs.twimg.com/profile_images/1210047737393102848/Z_NB3iMa_normal.jpg',
'profile_banner_url':
'https://pbs.twimg.com/profile_banners/4850548316/1544332757',
'profile_link_color': '1DA1F2', 'profile_sidebar_border_color': 'C0DEED',
'profile_sidebar_fill_color': 'DDEEF6', 'profile_text_color': '333333',
'profile_use_background_image': True, 'has_extended_profile': True,
'default_profile': True, 'default_profile_image': False, 'following': None,
'follow_request_sent': None, 'notifications': None, 'translator_type': 'none'},
'geo': None, 'coordinates': None, 'place': None, 'contributors': None,
'is_quote_status': False, 'retweet_count': 4, 'favorite_count': 11, 'favorited':
False, 'retweeted': False, 'possibly_sensitive': False, 'lang': 'en'},
'is_quote_status': False, 'retweet_count': 4, 'favorite_count': 0, 'favorited':
False, 'retweeted': False, 'lang': 'en'}, {'created_at': 'Tue Dec 22 05:53:11
+0000 2020', 'id': 1341260475514818560, 'id_str': '1341260475514818560', 'text':
'RT @NTPatel1999: Born on this day in the year 1887, Srinivasa Ramanujan is a
name to reckon among pioneers in Mathematics.\n#NationalMathema…', 'truncated':
False, 'entities': {'hashtags': [], 'symbols': [], 'user_mentions':
[{'screen_name': 'NTPatel1999', 'name': 'Neel Patel', 'id': 2174510331,
'id_str': '2174510331', 'indices': [3, 15]}], 'urls': []}, 'metadata':
{'iso_language_code': 'en', 'result_type': 'recent'}, 'source': '<a
href="http://twitter.com/download/android" rel="nofollow">Twitter for
Android', 'in_reply_to_status_id': None, 'in_reply_to_status_id_str': None,
'in_reply_to_user_id': None, 'in_reply_to_user_id_str': None,
'in_reply_to_screen_name': None, 'user': {'id': 838409346547593216, 'id_str':
'838409346547593216', 'name': 'AB RAO', 'screen_name': 'abpatelabhay004',
'location': 'gaya bihar', 'description': '100%FB', 'url': None, 'entities':
{'description': {'urls': []}}, 'protected': False, 'followers_count': 107,
'friends_count': 160, 'listed_count': 0, 'created_at': 'Sun Mar 05 15:22:19
+0000 2017', 'favourites_count': 131, 'utc_offset': None, 'time_zone': None,
'geo_enabled': False, 'verified': False, 'statuses_count': 44, 'lang': None,

'contributors_enabled': False, 'is_translator': False, 'is_translation_enabled': False, 'profile_background_color': 'F5F8FA', 'profile_background_image_url': None, 'profile_background_image_url_https': None, 'profile_background_tile': False, 'profile_image_url': 'http://pbs.twimg.com/profile_images/1334540772306083840/-ppz-8ni_normal.jpg', 'profile_image_url_https': 'https://pbs.twimg.com/profile_images/1334540772306083840/-ppz-8ni_normal.jpg', 'profile_banner_url': 'https://pbs.twimg.com/profile_banners/838409346547593216/1608570913', 'profile_link_color': '1DA1F2', 'profile_sidebar_border_color': 'C0DEED', 'profile_sidebar_fill_color': 'DDEEF6', 'profile_text_color': '333333', 'profile_use_background_image': True, 'has_extended_profile': True, 'default_profile': True, 'default_profile_image': False, 'following': None, 'follow_request_sent': None, 'notifications': None, 'translator_type': 'none'}, 'geo': None, 'coordinates': None, 'place': None, 'contributors': None, 'retweeted_status': {'created_at': 'Mon Dec 21 18:33:59 +0000 2020', 'id': 1341089551465340928, 'id_str': '1341089551465340928', 'text': 'Born on this day in the year 1887, Srinivasa Ramanujan is a name to reckon among pioneers in Mathematics.… https://t.co/PBwCo1KT1q', 'truncated': True, 'entities': {'hashtags': [], 'symbols': [], 'user_mentions': [], 'urls': [{'url': 'https://t.co/PBwCo1KT1q', 'expanded_url': 'https://twitter.com/i/web/status/1341089551465340928', 'display_url': 'twitter.com/i/web/status/1…', 'indices': [107, 130]}]}, 'metadata': {'iso_language_code': 'en', 'result_type': 'recent'}, 'source': 'Twitter Web App', 'in_reply_to_status_id': None, 'in_reply_to_status_id_str': None, 'in_reply_to_user_id': None, 'in_reply_to_user_id_str': None, 'in_reply_to_screen_name': None, 'user': {'id': 2174510331, 'id_str': '2174510331', 'name': 'Neel Patel', 'screen_name': 'NTPatel1999', 'location': 'Gujarat, India', 'description': 'Naturally and Artificially Flavoured.', 'url': None, 'entities': {'description': {'urls': []}}, 'protected': False, 'followers_count': 27, 'friends_count': 632, 'listed_count': 0, 'created_at': 'Sat Nov 09 13:55:21 +0000 2013', 'favourites_count': 11640, 'utc_offset': None, 'time_zone': None, 'geo_enabled': True, 'verified': False, 'statuses_count': 735, 'lang': None, 'contributors_enabled': False, 'is_translator': False, 'is_translation_enabled': False, 'profile_background_color': 'C0DEED', 'profile_background_image_url': 'http://abs.twimg.com/images/themes/theme1/bg.png', 'profile_background_image_url_https': 'https://abs.twimg.com/images/themes/theme1/bg.png', 'profile_background_tile': False, 'profile_image_url': 'http://pbs.twimg.com/profile_images/1332335752009506817/0edAYW-B_normal.jpg', 'profile_image_url_https': 'https://pbs.twimg.com/profile_images/1332335752009506817/0edAYW-B_normal.jpg', 'profile_banner_url': 'https://pbs.twimg.com/profile_banners/2174510331/1552145597', 'profile_link_color': '1DA1F2', 'profile_sidebar_border_color': 'C0DEED', 'profile_sidebar_fill_color': 'DDEEF6', 'profile_text_color': '333333',

18

'profile_use_background_image': True, 'has_extended_profile': True, 'default_profile': True, 'default_profile_image': False, 'following': None, 'follow_request_sent': None, 'notifications': None, 'translator_type': 'none'}, 'geo': None, 'coordinates': None, 'place': None, 'contributors': None, 'is_quote_status': False, 'retweet_count': 5, 'favorite_count': 18, 'favorited': False, 'retweeted': False, 'possibly_sensitive': False, 'lang': 'en'}, 'is_quote_status': False, 'retweet_count': 5, 'favorite_count': 0, 'favorited': False, 'retweeted': False, 'lang': 'en'}, {'created_at': 'Tue Dec 22 05:53:11 +0000 2020', 'id': 1341260474566918149, 'id_str': '1341260474566918149', 'text': 'RT @DainikBhaskar: :   ,   12
            ;   100   \nhttps://t…', 'truncated': False, 'entities': {'hashtags': [], 'symbols': [], 'user_mentions': [{'screen_name': 'DainikBhaskar', 'name': 'Dainik Bhaskar', 'id': 67378160, 'id_str': '67378160', 'indices': [3, 17]}], 'urls': []}, 'metadata': {'iso_language_code': 'hi', 'result_type': 'recent'}, 'source': 'Twitter for Android', 'in_reply_to_status_id': None, 'in_reply_to_status_id_str': None, 'in_reply_to_user_id': None, 'in_reply_to_user_id_str': None, 'in_reply_to_screen_name': None, 'user': {'id': 320163570, 'id_str': '320163570', 'name': 'Abdul Khalid Khan', 'screen_name': 'abdul_1510', 'location': 'Anuppur, India', 'description': 'Development officer LIC OF INDIA , \nELECTRICAL ENGINEER, Former Trainee SGTPS MPPGCL', 'url': None, 'entities': {'description': {'urls': []}}, 'protected': False, 'followers_count': 32, 'friends_count': 198, 'listed_count': 4, 'created_at': 'Sun Jun 19 12:27:01 +0000 2011', 'favourites_count': 3997, 'utc_offset': None, 'time_zone': None, 'geo_enabled': True, 'verified': False, 'statuses_count': 5221, 'lang': None, 'contributors_enabled': False, 'is_translator': False, 'is_translation_enabled': False, 'profile_background_color': '000000', 'profile_background_image_url': 'http://abs.twimg.com/images/themes/theme19/bg.gif', 'profile_background_image_url_https': 'https://abs.twimg.com/images/themes/theme19/bg.gif', 'profile_background_tile': False, 'profile_image_url': 'http://pbs.twimg.com/profile_images/1057244370573910016/DTGyObU7_normal.jpg', 'profile_image_url_https': 'https://pbs.twimg.com/profile_images/1057244370573910016/DTGyObU7_normal.jpg', 'profile_banner_url': 'https://pbs.twimg.com/profile_banners/320163570/1587209359', 'profile_link_color': '1B95E0', 'profile_sidebar_border_color': '000000', 'profile_sidebar_fill_color': '000000', 'profile_text_color': '000000', 'profile_use_background_image': False, 'has_extended_profile': True, 'default_profile': False, 'default_profile_image': False, 'following': None, 'follow_request_sent': None, 'notifications': None, 'translator_type': 'none'}, 'geo': None, 'coordinates': None, 'place': None, 'contributors': None, 'retweeted_status': {'created_at': 'Tue Dec 22 03:45:00 +0000 2020', 'id': 1341228216321597440, 'id_str': '1341228216321597440', 'text': '   :   ,   12   ;
  100   … https://t.co/FARLe1yMav', 'truncated': True, 'entities': {'hashtags': [], 'symbols': [], 'user_mentions': [], 'urls': [{'url':

'https://t.co/FARLe1yMav', 'expanded_url':
'https://twitter.com/i/web/status/1341228216321597440', 'display_url':
'twitter.com/i/web/status/1…', 'indices': [112, 135]}]}, 'metadata':
{'iso_language_code': 'hi', 'result_type': 'recent'}, 'source': '<a
href="https://mobile.twitter.com" rel="nofollow">Twitter Web App',
'in_reply_to_status_id': None, 'in_reply_to_status_id_str': None,
'in_reply_to_user_id': None, 'in_reply_to_user_id_str': None,
'in_reply_to_screen_name': None, 'user': {'id': 67378160, 'id_str': '67378160',
'name': 'Dainik Bhaskar', 'screen_name': 'DainikBhaskar', 'location': 'India',
'description': "India's Biggest Hindi Newspaper & News App. For Realtime News
Updates, Local News for 2000 cities, Short Video News, Download our App:
https://t.co/jtaVjeA0Qb", 'url': 'http://t.co/otCRDOPRUV', 'entities': {'url':
{'urls': [{'url': 'http://t.co/otCRDOPRUV', 'expanded_url':
'http://www.bhaskar.com', 'display_url': 'bhaskar.com', 'indices': [0, 22]}]},
'description': {'urls': [{'url': 'https://t.co/jtaVjeA0Qb', 'expanded_url':
'http://dainik-b.in/riOAhsOKg6', 'display_url': 'dainik-b.in/riOAhsOKg6',
'indices': [135, 158]}]}}, 'protected': False, 'followers_count': 1337254,
'friends_count': 104, 'listed_count': 1103, 'created_at': 'Thu Aug 20 18:04:36
+0000 2009', 'favourites_count': 5990, 'utc_offset': None, 'time_zone': None,
'geo_enabled': True, 'verified': True, 'statuses_count': 159958, 'lang': None,
'contributors_enabled': False, 'is_translator': False, 'is_translation_enabled':
False, 'profile_background_color': 'FF960D', 'profile_background_image_url':
'http://abs.twimg.com/images/themes/theme1/bg.png',
'profile_background_image_url_https':
'https://abs.twimg.com/images/themes/theme1/bg.png', 'profile_background_tile':
True, 'profile_image_url':
'http://pbs.twimg.com/profile_images/1234019064927834113/z7HtdTVd_normal.png',
'profile_image_url_https':
'https://pbs.twimg.com/profile_images/1234019064927834113/z7HtdTVd_normal.png',
'profile_banner_url':
'https://pbs.twimg.com/profile_banners/67378160/1604905275',
'profile_link_color': '004599', 'profile_sidebar_border_color': 'DFDFDF',
'profile_sidebar_fill_color': 'FFAB2E', 'profile_text_color': '333333',
'profile_use_background_image': True, 'has_extended_profile': False,
'default_profile': False, 'default_profile_image': False, 'following': None,
'follow_request_sent': None, 'notifications': None, 'translator_type': 'none'},
'geo': None, 'coordinates': None, 'place': None, 'contributors': None,
'is_quote_status': False, 'retweet_count': 23, 'favorite_count': 191,
'favorited': False, 'retweeted': False, 'possibly_sensitive': False, 'lang':
'hi'}, 'is_quote_status': False, 'retweet_count': 23, 'favorite_count': 0,
'favorited': False, 'retweeted': False, 'lang': 'hi'}, {'created_at': 'Tue Dec
22 05:53:11 +0000 2020', 'id': 1341260473740664833, 'id_str':
'1341260473740664833', 'text': 'RT @PANKAJ_RJ46: Shrinivasa Ramanujan made
incredible contributions to mathematical analysis, number theory, infinite
series and continued…', 'truncated': False, 'entities': {'hashtags': [],
'symbols': [], 'user_mentions': [{'screen_name': 'PANKAJ_RJ46', 'name': 'PANKAJ
PARIHAR', 'id': 1308954828169555968, 'id_str': '1308954828169555968', 'indices':
[3, 15]}], 'urls': []}, 'metadata': {'iso_language_code': 'en', 'result_type':

'recent'}, 'source': 'Twitter for Android', 'in_reply_to_status_id': None, 'in_reply_to_status_id_str': None, 'in_reply_to_user_id': None, 'in_reply_to_user_id_str': None, 'in_reply_to_screen_name': None, 'user': {'id': 1193451099023233025, 'id_str': '1193451099023233025', 'name': 'Neha Narula', 'screen_name': 'NehaNarula21', 'location': '', 'description': 'Free Thinker ', 'url': None, 'entities': {'description': {'urls': []}}, 'protected': False, 'followers_count': 123, 'friends_count': 171, 'listed_count': 0, 'created_at': 'Sun Nov 10 08:51:53 +0000 2019', 'favourites_count': 301, 'utc_offset': None, 'time_zone': None, 'geo_enabled': False, 'verified': False, 'statuses_count': 265, 'lang': None, 'contributors_enabled': False, 'is_translator': False, 'is_translation_enabled': False, 'profile_background_color': 'F5F8FA', 'profile_background_image_url': None, 'profile_background_image_url_https': None, 'profile_background_tile': False, 'profile_image_url': 'http://pbs.twimg.com/profile_images/1339207058353135617/aHon64m6_normal.jpg', 'profile_image_url_https': 'https://pbs.twimg.com/profile_images/1339207058353135617/aHon64m6_normal.jpg', 'profile_link_color': '1DA1F2', 'profile_sidebar_border_color': 'C0DEED', 'profile_sidebar_fill_color': 'DDEEF6', 'profile_text_color': '333333', 'profile_use_background_image': True, 'has_extended_profile': False, 'default_profile': True, 'default_profile_image': False, 'following': None, 'follow_request_sent': None, 'notifications': None, 'translator_type': 'none'}, 'geo': None, 'coordinates': None, 'place': None, 'contributors': None, 'retweeted_status': {'created_at': 'Tue Dec 22 05:53:02 +0000 2020', 'id': 1341260437938077696, 'id_str': '1341260437938077696', 'text': 'Shrinivasa Ramanujan made incredible contributions to mathematical analysis, number theory, infinite series and con… https://t.co/blDS0zLUz6', 'truncated': True, 'entities': {'hashtags': [], 'symbols': [], 'user_mentions': [], 'urls': [{'url': 'https://t.co/blDS0zLUz6', 'expanded_url': 'https://twitter.com/i/web/status/1341260437938077696', 'display_url': 'twitter.com/i/web/status/1…', 'indices': [117, 140]}]}, 'metadata': {'iso_language_code': 'en', 'result_type': 'recent'}, 'source': 'Twitter for Android', 'in_reply_to_status_id': None, 'in_reply_to_status_id_str': None, 'in_reply_to_user_id': None, 'in_reply_to_user_id_str': None, 'in_reply_to_screen_name': None, 'user': {'id': 1308954828169555968, 'id_str': '1308954828169555968', 'name': 'PANKAJ PARIHAR', 'screen_name': 'PANKAJ_RJ46', 'location': 'Bhinmal, India', 'description': '   ,
  ,\n\n   ,   ', 'url': None, 'entities': {'description': {'urls': []}}, 'protected': False, 'followers_count': 90, 'friends_count': 101, 'listed_count': 0, 'created_at': 'Thu Sep 24 02:22:26 +0000 2020', 'favourites_count': 3738, 'utc_offset': None, 'time_zone': None, 'geo_enabled': False, 'verified': False, 'statuses_count': 140, 'lang': None, 'contributors_enabled': False, 'is_translator': False, 'is_translation_enabled': False, 'profile_background_color': 'F5F8FA', 'profile_background_image_url': None, 'profile_background_image_url_https': None, 'profile_background_tile': False, 'profile_image_url': 'http://pbs.twimg.com/profile_images/1308955095707525121/aeSN4hWN_normal.jpg',

'profile_image_url_https':
'https://pbs.twimg.com/profile_images/1308955095707525121/aeSN4hWN_normal.jpg',
'profile_banner_url':
'https://pbs.twimg.com/profile_banners/1308954828169555968/1602568764',
'profile_link_color': '1DA1F2', 'profile_sidebar_border_color': 'C0DEED',
'profile_sidebar_fill_color': 'DDEEF6', 'profile_text_color': '333333',
'profile_use_background_image': True, 'has_extended_profile': True,
'default_profile': True, 'default_profile_image': False, 'following': None,
'follow_request_sent': None, 'notifications': None, 'translator_type': 'none'},
'geo': None, 'coordinates': None, 'place': None, 'contributors': None,
'is_quote_status': False, 'retweet_count': 1, 'favorite_count': 1, 'favorited':
False, 'retweeted': False, 'possibly_sensitive': False, 'lang': 'en'},
'is_quote_status': False, 'retweet_count': 1, 'favorite_count': 0, 'favorited':
False, 'retweeted': False, 'lang': 'en'}, {'created_at': 'Tue Dec 22 05:53:10
+0000 2020', 'id': 1341260472742518789, 'id_str': '1341260472742518789', 'text':
'RT @SadhguruJV: Mathematics did not get invented in a classroom. It is in the
nature of the Universe. #SadhguruQuotes #NationalMathematicsD…', 'truncated':
False, 'entities': {'hashtags': [{'text': 'SadhguruQuotes', 'indices': [102,
117]}], 'symbols': [], 'user_mentions': [{'screen_name': 'SadhguruJV', 'name':
'Sadhguru', 'id': 67611162, 'id_str': '67611162', 'indices': [3, 14]}], 'urls':
[]}, 'metadata': {'iso_language_code': 'en', 'result_type': 'recent'}, 'source':
'Twitter for
Android', 'in_reply_to_status_id': None, 'in_reply_to_status_id_str': None,
'in_reply_to_user_id': None, 'in_reply_to_user_id_str': None,
'in_reply_to_screen_name': None, 'user': {'id': 856114818, 'id_str':
'856114818', 'name': 'Prashant Patil', 'screen_name': 'im_mrpp', 'location': '',
'description': '', 'url': None, 'entities': {'description': {'urls': []}},
'protected': False, 'followers_count': 104, 'friends_count': 79, 'listed_count':
20, 'created_at': 'Mon Oct 01 09:47:10 +0000 2012', 'favourites_count': 10019,
'utc_offset': None, 'time_zone': None, 'geo_enabled': True, 'verified': False,
'statuses_count': 11565, 'lang': None, 'contributors_enabled': False,
'is_translator': False, 'is_translation_enabled': False,
'profile_background_color': 'C0DEED', 'profile_background_image_url':
'http://abs.twimg.com/images/themes/theme1/bg.png',
'profile_background_image_url_https':
'https://abs.twimg.com/images/themes/theme1/bg.png', 'profile_background_tile':
False, 'profile_image_url':
'http://pbs.twimg.com/profile_images/1076874355269951489/B0-iOkTB_normal.jpg',
'profile_image_url_https':
'https://pbs.twimg.com/profile_images/1076874355269951489/B0-iOkTB_normal.jpg',
'profile_banner_url':
'https://pbs.twimg.com/profile_banners/856114818/1545581886',
'profile_link_color': '1DA1F2', 'profile_sidebar_border_color': 'C0DEED',
'profile_sidebar_fill_color': 'DDEEF6', 'profile_text_color': '333333',
'profile_use_background_image': True, 'has_extended_profile': False,
'default_profile': True, 'default_profile_image': False, 'following': None,
'follow_request_sent': None, 'notifications': None, 'translator_type': 'none'},
'geo': None, 'coordinates': None, 'place': None, 'contributors': None,

'retweeted_status': {'created_at': 'Tue Dec 22 02:45:00 +0000 2020', 'id': 1341213116722536456, 'id_str': '1341213116722536456', 'text': 'Mathematics did not get invented in a classroom. It is in the nature of the Universe. #SadhguruQuotes… https://t.co/0f6FFguRer', 'truncated': True, 'entities': {'hashtags': [{'text': 'SadhguruQuotes', 'indices': [86, 101]}], 'symbols': [], 'user_mentions': [], 'urls': [{'url': 'https://t.co/0f6FFguRer', 'expanded_url': 'https://twitter.com/i/web/status/1341213116722536456', 'display_url': 'twitter.com/i/web/status/1…', 'indices': [103, 126]}]}, 'metadata': {'iso_language_code': 'en', 'result_type': 'recent'}, 'source': 'TweetDeck', 'in_reply_to_status_id': None, 'in_reply_to_status_id_str': None, 'in_reply_to_user_id': None, 'in_reply_to_user_id_str': None, 'in_reply_to_screen_name': None, 'user': {'id': 67611162, 'id_str': '67611162', 'name': 'Sadhguru', 'screen_name': 'SadhguruJV', 'location': 'India', 'description': 'A Yogi, Mystic & Visionary. This account is managed by volunteers @Ishafoundation. Tweets from Sadhguru himself are signed - Sg', 'url': 'http://t.co/S2QHNyuXyg', 'entities': {'url': {'urls': [{'url': 'http://t.co/S2QHNyuXyg', 'expanded_url': 'http://Isha.Sadhguru.org', 'display_url': 'Isha.Sadhguru.org', 'indices': [0, 22]}]}, 'description': {'urls': []}}, 'protected': False, 'followers_count': 3511592, 'friends_count': 2, 'listed_count': 1546, 'created_at': 'Fri Aug 21 13:49:35 +0000 2009', 'favourites_count': 0, 'utc_offset': None, 'time_zone': None, 'geo_enabled': True, 'verified': True, 'statuses_count': 10283, 'lang': None, 'contributors_enabled': False, 'is_translator': False, 'is_translation_enabled': False, 'profile_background_color': 'B08E76', 'profile_background_image_url': 'http://abs.twimg.com/images/themes/theme8/bg.gif', 'profile_background_image_url_https': 'https://abs.twimg.com/images/themes/theme8/bg.gif', 'profile_background_tile': False, 'profile_image_url': 'http://pbs.twimg.com/profile_images/1132191777195085824/KbxIQUxJ_normal.png', 'profile_image_url_https': 'https://pbs.twimg.com/profile_images/1132191777195085824/KbxIQUxJ_normal.png', 'profile_link_color': '04279C', 'profile_sidebar_border_color': '000000', 'profile_sidebar_fill_color': 'EADEAA', 'profile_text_color': '333333', 'profile_use_background_image': True, 'has_extended_profile': False, 'default_profile': False, 'default_profile_image': False, 'following': None, 'follow_request_sent': None, 'notifications': None, 'translator_type': 'none'}, 'geo': None, 'coordinates': None, 'place': None, 'contributors': None, 'is_quote_status': False, 'retweet_count': 2554, 'favorite_count': 5731, 'favorited': False, 'retweeted': False, 'possibly_sensitive': False, 'lang': 'en'}, 'is_quote_status': False, 'retweet_count': 2554, 'favorite_count': 0, 'favorited': False, 'retweeted': False, 'lang': 'en'}, {'created_at': 'Tue Dec 22 05:53:10 +0000 2020', 'id': 1341260471676981253, 'id_str': '1341260471676981253', 'text': '

…
https://t.co/QcXEfLvXLh', 'truncated': True, 'entities': {'hashtags': [], 'symbols': [], 'user_mentions': [], 'urls': [{'url': 'https://t.co/QcXEfLvXLh', 'expanded_url': 'https://twitter.com/i/web/status/1341260471676981253',

'display_url': 'twitter.com/i/web/status/1…', 'indices': [117, 140]}]},
'metadata': {'iso_language_code': 'te', 'result_type': 'recent'}, 'source': '<a
href="http://twitter.com/download/android" rel="nofollow">Twitter for
Android', 'in_reply_to_status_id': None, 'in_reply_to_status_id_str': None,
'in_reply_to_user_id': None, 'in_reply_to_user_id_str': None,
'in_reply_to_screen_name': None, 'user': {'id': 1153918154755588096, 'id_str':
'1153918154755588096', 'name': 'jpvallurubjp', 'screen_name': 'jpvallurubjp',
'location': 'New Delhi, India', 'description': 'Chairman -Central Labour Welfare
Board,Ministry of Labour & Employment,Govt.of India', 'url': None, 'entities':
{'description': {'urls': []}}, 'protected': False, 'followers_count': 56,
'friends_count': 24, 'listed_count': 0, 'created_at': 'Wed Jul 24 06:41:41 +0000
2019', 'favourites_count': 125, 'utc_offset': None, 'time_zone': None,
'geo_enabled': False, 'verified': False, 'statuses_count': 354, 'lang': None,
'contributors_enabled': False, 'is_translator': False, 'is_translation_enabled':
False, 'profile_background_color': 'F5F8FA', 'profile_background_image_url':
None, 'profile_background_image_url_https': None, 'profile_background_tile':
False, 'profile_image_url':
'http://pbs.twimg.com/profile_images/1291061112218062848/dS1T1SS8_normal.jpg',
'profile_image_url_https':
'https://pbs.twimg.com/profile_images/1291061112218062848/dS1T1SS8_normal.jpg',
'profile_banner_url':
'https://pbs.twimg.com/profile_banners/1153918154755588096/1585933998',
'profile_link_color': '1DA1F2', 'profile_sidebar_border_color': 'C0DEED',
'profile_sidebar_fill_color': 'DDEEF6', 'profile_text_color': '333333',
'profile_use_background_image': True, 'has_extended_profile': False,
'default_profile': True, 'default_profile_image': False, 'following': None,
'follow_request_sent': None, 'notifications': None, 'translator_type': 'none'},
'geo': None, 'coordinates': None, 'place': None, 'contributors': None,
'is_quote_status': False, 'retweet_count': 0, 'favorite_count': 0, 'favorited':
False, 'retweeted': False, 'possibly_sensitive': False, 'lang': 'te'},
{'created_at': 'Tue Dec 22 05:53:10 +0000 2020', 'id': 1341260471442178048,
'id_str': '1341260471442178048', 'text': '
                              @ChouhanShivraj
 … https://t.co/emwCbu13JA', 'truncated': True, 'entities': {'hashtags':
[], 'symbols': [], 'user_mentions': [{'screen_name': 'ChouhanShivraj', 'name':
'Shivraj Singh Chouhan', 'id': 1251083774, 'id_str': '1251083774', 'indices':
[90, 105]}], 'urls': [{'url': 'https://t.co/emwCbu13JA', 'expanded_url':
'https://twitter.com/i/web/status/1341260471442178048', 'display_url':
'twitter.com/i/web/status/1…', 'indices': [117, 140]}]}, 'metadata':
{'iso_language_code': 'hi', 'result_type': 'recent'}, 'source': '<a
href="https://mobile.twitter.com" rel="nofollow">Twitter Web App',
'in_reply_to_status_id': None, 'in_reply_to_status_id_str': None,
'in_reply_to_user_id': None, 'in_reply_to_user_id_str': None,
'in_reply_to_screen_name': None, 'user': {'id': 2506662439, 'id_str':
'2506662439', 'name': 'CMO Madhya Pradesh', 'screen_name': 'CMMadhyaPradesh',
'location': 'Bhopal', 'description': 'Chief Minister - Madhya Pradesh, Official
Administrative Account', 'url': 'https://t.co/mbc7WnMDKN', 'entities': {'url':
{'urls': [{'url': 'https://t.co/mbc7WnMDKN', 'expanded_url':

'http://www.mp.gov.in', 'display_url': 'mp.gov.in', 'indices': [0, 23]}]},
'description': {'urls': []}}, 'protected': False, 'followers_count': 1445295,
'friends_count': 361, 'listed_count': 370, 'created_at': 'Mon May 19 07:01:44
+0000 2014', 'favourites_count': 553, 'utc_offset': None, 'time_zone': None,
'geo_enabled': True, 'verified': True, 'statuses_count': 28167, 'lang': None,
'contributors_enabled': False, 'is_translator': False, 'is_translation_enabled':
False, 'profile_background_color': 'C0DEED', 'profile_background_image_url':
'http://abs.twimg.com/images/themes/theme1/bg.png',
'profile_background_image_url_https':
'https://abs.twimg.com/images/themes/theme1/bg.png', 'profile_background_tile':
False, 'profile_image_url':
'http://pbs.twimg.com/profile_images/1076376415002447872/ucJuZ_dD_normal.jpg',
'profile_image_url_https':
'https://pbs.twimg.com/profile_images/1076376415002447872/ucJuZ_dD_normal.jpg',
'profile_banner_url':
'https://pbs.twimg.com/profile_banners/2506662439/1605542017',
'profile_link_color': '0084B4', 'profile_sidebar_border_color': 'C0DEED',
'profile_sidebar_fill_color': 'DDEEF6', 'profile_text_color': '333333',
'profile_use_background_image': True, 'has_extended_profile': False,
'default_profile': False, 'default_profile_image': False, 'following': None,
'follow_request_sent': None, 'notifications': None, 'translator_type': 'none'},
'geo': None, 'coordinates': None, 'place': None, 'contributors': None,
'is_quote_status': False, 'retweet_count': 1, 'favorite_count': 2, 'favorited':
False, 'retweeted': False, 'possibly_sensitive': False, 'lang': 'hi'},
{'created_at': 'Tue Dec 22 05:53:10 +0000 2020', 'id': 1341260471110750208,
'id_str': '1341260471110750208', 'text': 'RT @PranavKVFC: Nee epo en life kulla
vandhiyo appola irundhu en Manda vedikka aarambichudhu aana nee irundhadhaan
vela kedakkum nu solrang…', 'truncated': False, 'entities': {'hashtags': [],
'symbols': [], 'user_mentions': [{'screen_name': 'PranavKVFC', 'name': 'PokKiri
PRANAV VFC', 'id': 1287341905039233024, 'id_str': '1287341905039233024',
'indices': [3, 14]}], 'urls': []}, 'metadata': {'iso_language_code': 'et',
'result_type': 'recent'}, 'source': '<a
href="http://twitter.com/download/android" rel="nofollow">Twitter for
Android', 'in_reply_to_status_id': None, 'in_reply_to_status_id_str': None,
'in_reply_to_user_id': None, 'in_reply_to_user_id_str': None,
'in_reply_to_screen_name': None, 'user': {'id': 1337284744090828800, 'id_str':
'1337284744090828800', 'name': 'J D', 'screen_name': 'JosephB84584182',
'location': 'keralam', 'description': 'DIE HARD FAN OF @ ACTER VIJAY',
'url': None, 'entities': {'description': {'urls': []}}, 'protected': False,
'followers_count': 137, 'friends_count': 290, 'listed_count': 0, 'created_at':
'Fri Dec 11 06:35:27 +0000 2020', 'favourites_count': 5131, 'utc_offset': None,
'time_zone': None, 'geo_enabled': False, 'verified': False, 'statuses_count':
5856, 'lang': None, 'contributors_enabled': False, 'is_translator': False,
'is_translation_enabled': False, 'profile_background_color': 'F5F8FA',
'profile_background_image_url': None, 'profile_background_image_url_https':
None, 'profile_background_tile': False, 'profile_image_url':
'http://pbs.twimg.com/profile_images/1337287295376887808/XaCSTsTZ_normal.jpg',
'profile_image_url_https':

'https://pbs.twimg.com/profile_images/1337287295376887808/XaCSTsTZ_normal.jpg',
'profile_banner_url':
'https://pbs.twimg.com/profile_banners/1337284744090828800/1607687190',
'profile_link_color': '1DA1F2', 'profile_sidebar_border_color': 'C0DEED',
'profile_sidebar_fill_color': 'DDEEF6', 'profile_text_color': '333333',
'profile_use_background_image': True, 'has_extended_profile': True,
'default_profile': True, 'default_profile_image': False, 'following': None,
'follow_request_sent': None, 'notifications': None, 'translator_type': 'none'},
'geo': None, 'coordinates': None, 'place': None, 'contributors': None,
'retweeted_status': {'created_at': 'Tue Dec 22 03:54:44 +0000 2020', 'id':
1341230665107460102, 'id_str': '1341230665107460102', 'text': 'Nee epo en life
kulla vandhiyo appola irundhu en Manda vedikka aarambichudhu aana nee
irundhadhaan vela kedakkum nu… https://t.co/QVkS4cAYGF', 'truncated': True,
'entities': {'hashtags': [], 'symbols': [], 'user_mentions': [], 'urls':
[{'url': 'https://t.co/QVkS4cAYGF', 'expanded_url':
'https://twitter.com/i/web/status/1341230665107460102', 'display_url':
'twitter.com/i/web/status/1…', 'indices': [117, 140]}]}, 'metadata':
{'iso_language_code': 'et', 'result_type': 'recent'}, 'source': '<a
href="http://twitter.com/download/android" rel="nofollow">Twitter for
Android', 'in_reply_to_status_id': None, 'in_reply_to_status_id_str': None,
'in_reply_to_user_id': None, 'in_reply_to_user_id_str': None,
'in_reply_to_screen_name': None, 'user': {'id': 1287341905039233024, 'id_str':
'1287341905039233024', 'name': 'PokKiri PRANAV VFC', 'screen_name':
'PranavKVFC', 'location': 'Kerala, India ', 'description': 'VIJAY ANNA
 Designer MSD ALLU ARJUN Mi Bujji Rashmika Anirudh (
@Abinandhiniii)', 'url': 'https://t.co/S7TAcBd2jC', 'entities': {'url':
{'urls': [{'url': 'https://t.co/S7TAcBd2jC', 'expanded_url':
'http://instagram.com', 'display_url': 'instagram.com', 'indices': [0, 23]}]},
'description': {'urls': []}}, 'protected': False, 'followers_count': 4573,
'friends_count': 4831, 'listed_count': 2, 'created_at': 'Sun Jul 26 11:01:16
+0000 2020', 'favourites_count': 14617, 'utc_offset': None, 'time_zone': None,
'geo_enabled': False, 'verified': False, 'statuses_count': 58987, 'lang': None,
'contributors_enabled': False, 'is_translator': False, 'is_translation_enabled':
False, 'profile_background_color': 'F5F8FA', 'profile_background_image_url':
None, 'profile_background_image_url_https': None, 'profile_background_tile':
False, 'profile_image_url':
'http://pbs.twimg.com/profile_images/1335232257515167744/ctWYxgyN_normal.jpg',
'profile_image_url_https':
'https://pbs.twimg.com/profile_images/1335232257515167744/ctWYxgyN_normal.jpg',
'profile_banner_url':
'https://pbs.twimg.com/profile_banners/1287341905039233024/1605262464',
'profile_link_color': '1DA1F2', 'profile_sidebar_border_color': 'C0DEED',
'profile_sidebar_fill_color': 'DDEEF6', 'profile_text_color': '333333',
'profile_use_background_image': True, 'has_extended_profile': True,
'default_profile': True, 'default_profile_image': False, 'following': None,
'follow_request_sent': None, 'notifications': None, 'translator_type': 'none'},
'geo': None, 'coordinates': None, 'place': None, 'contributors': None,
'is_quote_status': False, 'retweet_count': 11, 'favorite_count': 13,

'favorited': False, 'retweeted': False, 'lang': 'et'}, 'is_quote_status': False, 'retweet_count': 11, 'favorite_count': 0, 'favorited': False, 'retweeted': False, 'lang': 'et'}, {'created_at': 'Tue Dec 22 05:53:09 +0000 2020', 'id': 1341260468946690048, 'id_str': '1341260468946690048', 'text': 'RT @SadhguruJV: Mathematics did not get invented in a classroom. It is in the nature of the Universe. #SadhguruQuotes #NationalMathematicsD…', 'truncated': False, 'entities': {'hashtags': [{'text': 'SadhguruQuotes', 'indices': [102, 117]}], 'symbols': [], 'user_mentions': [{'screen_name': 'SadhguruJV', 'name': 'Sadhguru', 'id': 67611162, 'id_str': '67611162', 'indices': [3, 14]}], 'urls': []}, 'metadata': {'iso_language_code': 'en', 'result_type': 'recent'}, 'source': 'Twitter for Android', 'in_reply_to_status_id': None, 'in_reply_to_status_id_str': None, 'in_reply_to_user_id': None, 'in_reply_to_user_id_str': None, 'in_reply_to_screen_name': None, 'user': {'id': 4149915859, 'id_str': '4149915859', 'name': 'Priyanka Hanjagimath', 'screen_name': 'PriyankaVeerHJ', 'location': '', 'description': '', 'url': None, 'entities': {'description': {'urls': []}}, 'protected': False, 'followers_count': 26, 'friends_count': 117, 'listed_count': 0, 'created_at': 'Fri Nov 06 20:53:56 +0000 2015', 'favourites_count': 3473, 'utc_offset': None, 'time_zone': None, 'geo_enabled': False, 'verified': False, 'statuses_count': 2106, 'lang': None, 'contributors_enabled': False, 'is_translator': False, 'is_translation_enabled': False, 'profile_background_color': 'C0DEED', 'profile_background_image_url': 'http://abs.twimg.com/images/themes/theme1/bg.png', 'profile_background_image_url_https': 'https://abs.twimg.com/images/themes/theme1/bg.png', 'profile_background_tile': False, 'profile_image_url': 'http://pbs.twimg.com/profile_images/662735440512860165/3tAKGJVN_normal.jpg', 'profile_image_url_https': 'https://pbs.twimg.com/profile_images/662735440512860165/3tAKGJVN_normal.jpg', 'profile_link_color': '1DA1F2', 'profile_sidebar_border_color': 'C0DEED', 'profile_sidebar_fill_color': 'DDEEF6', 'profile_text_color': '333333', 'profile_use_background_image': True, 'has_extended_profile': False, 'default_profile': True, 'default_profile_image': False, 'following': None, 'follow_request_sent': None, 'notifications': None, 'translator_type': 'none'}, 'geo': None, 'coordinates': None, 'place': None, 'contributors': None, 'retweeted_status': {'created_at': 'Tue Dec 22 02:45:00 +0000 2020', 'id': 1341213116722536456, 'id_str': '1341213116722536456', 'text': 'Mathematics did not get invented in a classroom. It is in the nature of the Universe. #SadhguruQuotes… https://t.co/0f6FFguRer', 'truncated': True, 'entities': {'hashtags': [{'text': 'SadhguruQuotes', 'indices': [86, 101]}], 'symbols': [], 'user_mentions': [], 'urls': [{'url': 'https://t.co/0f6FFguRer', 'expanded_url': 'https://twitter.com/i/web/status/1341213116722536456', 'display_url': 'twitter.com/i/web/status/1…', 'indices': [103, 126]}]}, 'metadata': {'iso_language_code': 'en', 'result_type': 'recent'}, 'source': 'TweetDeck', 'in_reply_to_status_id': None, 'in_reply_to_status_id_str': None, 'in_reply_to_user_id': None, 'in_reply_to_user_id_str': None, 'in_reply_to_screen_name': None, 'user': {'id':

67611162, 'id_str': '67611162', 'name': 'Sadhguru', 'screen_name': 'SadhguruJV', 'location': 'India', 'description': 'A Yogi, Mystic & Visionary. This account is managed by volunteers @Ishafoundation. Tweets from Sadhguru himself are signed - Sg', 'url': 'http://t.co/S2QHNyuXyg', 'entities': {'url': {'urls': [{'url': 'http://t.co/S2QHNyuXyg', 'expanded_url': 'http://Isha.Sadhguru.org', 'display_url': 'Isha.Sadhguru.org', 'indices': [0, 22]}]}, 'description': {'urls': []}}, 'protected': False, 'followers_count': 3511592, 'friends_count': 2, 'listed_count': 1546, 'created_at': 'Fri Aug 21 13:49:35 +0000 2009', 'favourites_count': 0, 'utc_offset': None, 'time_zone': None, 'geo_enabled': True, 'verified': True, 'statuses_count': 10283, 'lang': None, 'contributors_enabled': False, 'is_translator': False, 'is_translation_enabled': False, 'profile_background_color': 'B08E76', 'profile_background_image_url': 'http://abs.twimg.com/images/themes/theme8/bg.gif', 'profile_background_image_url_https': 'https://abs.twimg.com/images/themes/theme8/bg.gif', 'profile_background_tile': False, 'profile_image_url': 'http://pbs.twimg.com/profile_images/1132191777195085824/KbxIQUxJ_normal.png', 'profile_image_url_https': 'https://pbs.twimg.com/profile_images/1132191777195085824/KbxIQUxJ_normal.png', 'profile_link_color': '04279C', 'profile_sidebar_border_color': '000000', 'profile_sidebar_fill_color': 'EADEAA', 'profile_text_color': '333333', 'profile_use_background_image': True, 'has_extended_profile': False, 'default_profile': False, 'default_profile_image': False, 'following': None, 'follow_request_sent': None, 'notifications': None, 'translator_type': 'none'}, 'geo': None, 'coordinates': None, 'place': None, 'contributors': None, 'is_quote_status': False, 'retweet_count': 2554, 'favorite_count': 5731, 'favorited': False, 'retweeted': False, 'possibly_sensitive': False, 'lang': 'en'}, 'is_quote_status': False, 'retweet_count': 2554, 'favorite_count': 0, 'favorited': False, 'retweeted': False, 'lang': 'en'}], 'search_metadata': {'completed_in': 0.077, 'max_id': 1341260511493517313, 'max_id_str': '1341260511493517313', 'next_results': '?max_id=1341260468946690047&q=%2523NationalMathematicsDay&include_entities=1', 'query': '%2523NationalMathematicsDay', 'refresh_url': '?since_id=1341260511493517313&q=%2523NationalMathematicsDay&include_entities=1', 'count': 15, 'since_id': 0, 'since_id_str': '0'}}

[74]:
```python
print(trend_params)
```

{'q': '%23NationalMathematicsDay'}

[77]:
```python
print(type(tweets))
```

<class 'dict'>

[78]:
```python
for key, value in tweets.items() :
    print (key)
```

statuses

search_metadata

```
[79]: tweets['search_metadata']
```

```
[79]: {'completed_in': 0.077,
       'max_id': 1341260511493517313,
       'max_id_str': '1341260511493517313',
       'next_results':
      '?max_id=1341260468946690047&q=%2523NationalMathematicsDay&include_entities=1',
       'query': '%2523NationalMathematicsDay',
       'refresh_url': '?since_id=1341260511493517313&q=%2523NationalMathematicsDay&inc
      lude_entities=1',
       'count': 15,
       'since_id': 0,
       'since_id_str': '0'}
```

```
[81]: type(tweets['statuses'])
```

```
[81]: list
```

```
[82]: len(tweets['statuses'])
```

```
[82]: 15
```

```
[83]: tweets['statuses'][0]
```

```
[83]: {'created_at': 'Tue Dec 22 05:53:20 +0000 2020',
       'id': 1341260511493517313,
       'id_str': '1341260511493517313',
       'text': 'RT @ieeducation_job: On #NationalMathematicsDay, list of #scholarship
      for students who wish to study math \n\nhttps://t.co/vBDvreKK8O',
       'truncated': False,
       'entities': {'hashtags': [{'text': 'NationalMathematicsDay',
          'indices': [24, 47]},
         {'text': 'scholarship', 'indices': [57, 69]}],
        'symbols': [],
        'user_mentions': [{'screen_name': 'ieeducation_job',
          'name': 'IE Education Jobs',
          'id': 1067361803573841921,
          'id_str': '1067361803573841921',
          'indices': [3, 19]}],
        'urls': [{'url': 'https://t.co/vBDvreKK8O',
          'expanded_url': 'https://indianexpress.com/article/education/on-national-
      mathematics-day-list-of-scholarship-fellowship-programme-available-for-
      students-7113906/',
          'display_url': 'indianexpress.com/article/educat…',
          'indices': [108, 131]}]},
```

```
 'metadata': {'iso_language_code': 'en', 'result_type': 'recent'},
 'source': '<a href="https://mobile.twitter.com" rel="nofollow">Twitter Web
App</a>',
 'in_reply_to_status_id': None,
 'in_reply_to_status_id_str': None,
 'in_reply_to_user_id': None,
 'in_reply_to_user_id_str': None,
 'in_reply_to_screen_name': None,
 'user': {'id': 1313426783757189125,
  'id_str': '1313426783757189125',
  'name': 'Iram habib',
  'screen_name': 'Iramhabib8',
  'location': '',
  'description': '',
  'url': None,
  'entities': {'description': {'urls': []}},
  'protected': False,
  'followers_count': 155,
  'friends_count': 308,
  'listed_count': 0,
  'created_at': 'Tue Oct 06 10:32:24 +0000 2020',
  'favourites_count': 289,
  'utc_offset': None,
  'time_zone': None,
  'geo_enabled': False,
  'verified': False,
  'statuses_count': 379,
  'lang': None,
  'contributors_enabled': False,
  'is_translator': False,
  'is_translation_enabled': False,
  'profile_background_color': 'F5F8FA',
  'profile_background_image_url': None,
  'profile_background_image_url_https': None,
  'profile_background_tile': False,
  'profile_image_url':
'http://pbs.twimg.com/profile_images/1313431575913140224/-aCobnbd_normal.jpg',
  'profile_image_url_https':
'https://pbs.twimg.com/profile_images/1313431575913140224/-aCobnbd_normal.jpg',
  'profile_link_color': '1DA1F2',
  'profile_sidebar_border_color': 'C0DEED',
  'profile_sidebar_fill_color': 'DDEEF6',
  'profile_text_color': '333333',
  'profile_use_background_image': True,
  'has_extended_profile': True,
  'default_profile': True,
  'default_profile_image': False,
```

```
 'following': None,
 'follow_request_sent': None,
 'notifications': None,
 'translator_type': 'none'},
'geo': None,
'coordinates': None,
'place': None,
'contributors': None,
'retweeted_status': {'created_at': 'Tue Dec 22 05:31:22 +0000 2020',
 'id': 1341254986085269505,
 'id_str': '1341254986085269505',
 'text': 'On #NationalMathematicsDay, list of #scholarship for students who
wish to study math \n\nhttps://t.co/vBDvreKK8O',
 'truncated': False,
 'entities': {'hashtags': [{'text': 'NationalMathematicsDay',
     'indices': [3, 26]},
    {'text': 'scholarship', 'indices': [36, 48]}],
   'symbols': [],
   'user_mentions': [],
   'urls': [{'url': 'https://t.co/vBDvreKK8O',
     'expanded_url': 'https://indianexpress.com/article/education/on-national-
mathematics-day-list-of-scholarship-fellowship-programme-available-for-
students-7113906/',
     'display_url': 'indianexpress.com/article/educat…',
     'indices': [87, 110]}]},
  'metadata': {'iso_language_code': 'en', 'result_type': 'recent'},
  'source': '<a href="https://about.twitter.com/products/tweetdeck"
rel="nofollow">TweetDeck</a>',
 'in_reply_to_status_id': None,
 'in_reply_to_status_id_str': None,
 'in_reply_to_user_id': None,
 'in_reply_to_user_id_str': None,
 'in_reply_to_screen_name': None,
 'user': {'id': 1067361803573841921,
  'id_str': '1067361803573841921',
  'name': 'IE Education Jobs',
  'screen_name': 'ieeducation_job',
  'location': 'Noida, India',
  'description': '',
  'url': 'https://t.co/njoyTJGked',
  'entities': {'url': {'urls': [{'url': 'https://t.co/njoyTJGked',
      'expanded_url': 'http://indianexpress.com',
      'display_url': 'indianexpress.com',
      'indices': [0, 23]}]},
   'description': {'urls': []}},
  'protected': False,
  'followers_count': 6843,
```

```
    'friends_count': 2,
    'listed_count': 25,
    'created_at': 'Tue Nov 27 10:17:39 +0000 2018',
    'favourites_count': 30,
    'utc_offset': None,
    'time_zone': None,
    'geo_enabled': False,
    'verified': False,
    'statuses_count': 16358,
    'lang': None,
    'contributors_enabled': False,
    'is_translator': False,
    'is_translation_enabled': False,
    'profile_background_color': 'F5F8FA',
    'profile_background_image_url': None,
    'profile_background_image_url_https': None,
    'profile_background_tile': False,
    'profile_image_url':
'http://pbs.twimg.com/profile_images/1068414753004036096/YkXCtiuU_normal.jpg',
    'profile_image_url_https':
'https://pbs.twimg.com/profile_images/1068414753004036096/YkXCtiuU_normal.jpg',
    'profile_banner_url':
'https://pbs.twimg.com/profile_banners/1067361803573841921/1593237469',
    'profile_link_color': '1DA1F2',
    'profile_sidebar_border_color': 'C0DEED',
    'profile_sidebar_fill_color': 'DDEEF6',
    'profile_text_color': '333333',
    'profile_use_background_image': True,
    'has_extended_profile': False,
    'default_profile': True,
    'default_profile_image': False,
    'following': None,
    'follow_request_sent': None,
    'notifications': None,
    'translator_type': 'none'},
  'geo': None,
  'coordinates': None,
  'place': None,
  'contributors': None,
  'is_quote_status': False,
  'retweet_count': 6,
  'favorite_count': 29,
  'favorited': False,
  'retweeted': False,
  'possibly_sensitive': False,
  'lang': 'en'},
 'is_quote_status': False,
```

```
                   'retweet_count': 6,
                   'favorite_count': 0,
                   'favorited': False,
                   'retweeted': False,
                   'possibly_sensitive': False,
                   'lang': 'en'}
```

CHecking the keys present in dict of a single tweet

0.1 Converting list of dicts to a dataframe

https://stackoverflow.com/q/20638006/6427607

```
[88]: df = pd.DataFrame(tweets['statuses'])
```

```
[90]: pd.set_option('display.max_columns', None)
      df
```

```
[90]:                        created_at                   id                  id_str  \
      0    Tue Dec 22 05:53:20 +0000 2020  1341260511493517313  1341260511493517313
      1    Tue Dec 22 05:53:17 +0000 2020  1341260502991695874  1341260502991695874
      2    Tue Dec 22 05:53:14 +0000 2020  1341260489930715136  1341260489930715136
      3    Tue Dec 22 05:53:14 +0000 2020  1341260488697470977  1341260488697470977
      4    Tue Dec 22 05:53:13 +0000 2020  1341260483366539266  1341260483366539266
      5    Tue Dec 22 05:53:11 +0000 2020  1341260477821669378  1341260477821669378
      6    Tue Dec 22 05:53:11 +0000 2020  1341260476622065664  1341260476622065664
      7    Tue Dec 22 05:53:11 +0000 2020  1341260475514818560  1341260475514818560
      8    Tue Dec 22 05:53:11 +0000 2020  1341260474566918149  1341260474566918149
      9    Tue Dec 22 05:53:11 +0000 2020  1341260473740664833  1341260473740664833
      10   Tue Dec 22 05:53:10 +0000 2020  1341260472742518789  1341260472742518789
      11   Tue Dec 22 05:53:10 +0000 2020  1341260471676981253  1341260471676981253
      12   Tue Dec 22 05:53:10 +0000 2020  1341260471442178048  1341260471442178048
      13   Tue Dec 22 05:53:10 +0000 2020  1341260471110750208  1341260471110750208
      14   Tue Dec 22 05:53:09 +0000 2020  1341260468946690048  1341260468946690048


                                                      text  truncated  \
      0    RT @ieeducation_job: On #NationalMathematicsDa…      False
      1    RT @AmitAgarwal: It's #NationalMathematicsDay,…      False
      2    RT @SadhguruJV: Mathematics did not get invent…      False
      3    RT @dineshjoshilax:          #SrinivasaRam…       False
      4    RT @indutiwarijbp:                …         False
      5    RT @punia_tanuj:                  …         False
      6    RT @dinesh_ve: An equation means nothing to me…    False
      7    RT @NTPatel1999: Born on this day in the year …    False
      8    RT @DainikBhaskar:          :          …         False
      9    RT @PANKAJ_RJ46: Shrinivasa Ramanujan made inc…    False
      10   RT @SadhguruJV: Mathematics did not get invent…    False
```

```
11                     …           True
12                     …           True
13  RT @PranavKVFC: Nee epo en life kulla vandhiyo…     False
14  RT @SadhguruJV: Mathematics did not get invent…     False


                                        entities  \
0   {'hashtags': [{'text': 'NationalMathematicsDay…
1   {'hashtags': [{'text': 'NationalMathematicsDay…
2   {'hashtags': [{'text': 'SadhguruQuotes', 'indi…
3   {'hashtags': [{'text': 'SrinivasaRamanujan', '…
4   {'hashtags': [], 'symbols': [], 'user_mentions…
5   {'hashtags': [], 'symbols': [], 'user_mentions…
6   {'hashtags': [], 'symbols': [], 'user_mentions…
7   {'hashtags': [], 'symbols': [], 'user_mentions…
8   {'hashtags': [], 'symbols': [], 'user_mentions…
9   {'hashtags': [], 'symbols': [], 'user_mentions…
10  {'hashtags': [{'text': 'SadhguruQuotes', 'indi…
11  {'hashtags': [], 'symbols': [], 'user_mentions…
12  {'hashtags': [], 'symbols': [], 'user_mentions…
13  {'hashtags': [], 'symbols': [], 'user_mentions…
14  {'hashtags': [{'text': 'SadhguruQuotes', 'indi…


                                        metadata  \
0   {'iso_language_code': 'en', 'result_type': 're…
1   {'iso_language_code': 'en', 'result_type': 're…
2   {'iso_language_code': 'en', 'result_type': 're…
3   {'iso_language_code': 'hi', 'result_type': 're…
4   {'iso_language_code': 'hi', 'result_type': 're…
5   {'iso_language_code': 'hi', 'result_type': 're…
6   {'iso_language_code': 'en', 'result_type': 're…
7   {'iso_language_code': 'en', 'result_type': 're…
8   {'iso_language_code': 'hi', 'result_type': 're…
9   {'iso_language_code': 'en', 'result_type': 're…
10  {'iso_language_code': 'en', 'result_type': 're…
11  {'iso_language_code': 'te', 'result_type': 're…
12  {'iso_language_code': 'hi', 'result_type': 're…
13  {'iso_language_code': 'et', 'result_type': 're…
14  {'iso_language_code': 'en', 'result_type': 're…


                                          source in_reply_to_status_id  \
0   <a href="https://mobile.twitter.com" rel="nofo…                 None
1   <a href="http://twitter.com/download/iphone" r…                 None
2   <a href="https://mobile.twitter.com" rel="nofo…                 None
3   <a href="http://twitter.com/download/android" …                 None
4   <a href="http://twitter.com/download/android" …                 None
5   <a href="https://mobile.twitter.com" rel="nofo…                 None
6   <a href="http://twitter.com/download/android" …                 None
```

```
7   <a href="http://twitter.com/download/android" …                       None
8   <a href="http://twitter.com/download/android" …                       None
9   <a href="http://twitter.com/download/android" …                       None
10  <a href="http://twitter.com/download/android" …                       None
11  <a href="http://twitter.com/download/android" …                       None
12  <a href="https://mobile.twitter.com" rel="nofo…                       None
13  <a href="http://twitter.com/download/android" …                       None
14  <a href="http://twitter.com/download/android" …                       None

   in_reply_to_status_id_str in_reply_to_user_id in_reply_to_user_id_str  \
0                       None                None                    None
1                       None                None                    None
2                       None                None                    None
3                       None                None                    None
4                       None                None                    None
5                       None                None                    None
6                       None                None                    None
7                       None                None                    None
8                       None                None                    None
9                       None                None                    None
10                      None                None                    None
11                      None                None                    None
12                      None                None                    None
13                      None                None                    None
14                      None                None                    None

   in_reply_to_screen_name                                               user  \
0                     None  {'id': 1313426783757189125, 'id_str': '1313426…
1                     None  {'id': 3276476922, 'id_str': '3276476922', 'na…
2                     None  {'id': 1163437429543411713, 'id_str': '1163437…
3                     None  {'id': 844852568580796419, 'id_str': '84485256…
4                     None  {'id': 1036118700640722944, 'id_str': '1036118…
5                     None  {'id': 1321724868870565888, 'id_str': '1321724…
6                     None  {'id': 1296848057443573760, 'id_str': '1296848…
7                     None  {'id': 838409346547593216, 'id_str': '83840934…
8                     None  {'id': 320163570, 'id_str': '320163570', 'name…
9                     None  {'id': 1193451099023233025, 'id_str': '1193451…
10                    None  {'id': 856114818, 'id_str': '856114818', 'name…
11                    None  {'id': 1153918154755588096, 'id_str': '1153918…
12                    None  {'id': 2506662439, 'id_str': '2506662439', 'na…
13                    None  {'id': 1337284744090828800, 'id_str': '1337284…
14                    None  {'id': 4149915859, 'id_str': '4149915859', 'na…

    geo coordinates place contributors  \
0  None        None  None         None
1  None        None  None         None
2  None        None  None         None
```

```
3    None         None  None         None
4    None         None  None         None
5    None         None  None         None
6    None         None  None         None
7    None         None  None         None
8    None         None  None         None
9    None         None  None         None
10   None         None  None         None
11   None         None  None         None
12   None         None  None         None
13   None         None  None         None
14   None         None  None         None


                                    retweeted_status   is_quote_status  \
0   {'created_at': 'Tue Dec 22 05:31:22 +0000 2020…           False
1   {'created_at': 'Tue Dec 22 05:48:20 +0000 2020…           False
2   {'created_at': 'Tue Dec 22 02:45:00 +0000 2020…           False
3   {'created_at': 'Tue Dec 22 03:34:52 +0000 2020…           False
4   {'created_at': 'Tue Dec 22 05:31:22 +0000 2020…           False
5   {'created_at': 'Tue Dec 22 02:35:23 +0000 2020…           False
6   {'created_at': 'Tue Dec 22 05:07:18 +0000 2020…           False
7   {'created_at': 'Mon Dec 21 18:33:59 +0000 2020…           False
8   {'created_at': 'Tue Dec 22 03:45:00 +0000 2020…           False
9   {'created_at': 'Tue Dec 22 05:53:02 +0000 2020…           False
10  {'created_at': 'Tue Dec 22 02:45:00 +0000 2020…           False
11                                               NaN         False
12                                               NaN         False
13  {'created_at': 'Tue Dec 22 03:54:44 +0000 2020…           False
14  {'created_at': 'Tue Dec 22 02:45:00 +0000 2020…           False


    retweet_count  favorite_count  favorited  retweeted possibly_sensitive  \
0               6               0      False      False               False
1               2               0      False      False                 NaN
2            2554               0      False      False                 NaN
3               1               0      False      False                 NaN
4               3               0      False      False                 NaN
5               9               0      False      False                 NaN
6               4               0      False      False                 NaN
7               5               0      False      False                 NaN
8              23               0      False      False                 NaN
9               1               0      False      False                 NaN
10           2554               0      False      False                 NaN
11              0               0      False      False               False
12              1               2      False      False               False
13             11               0      False      False                 NaN
14           2554               0      False      False                 NaN
```

```
      lang
0       en
1       en
2       en
3       hi
4       hi
5       hi
6       en
7       en
8       hi
9       en
10      en
11      te
12      hi
13      et
14      en
```

1 Extracting tweets

```python
[137]: def get_tweets_since(url_given):
           trend_headers = {
               'Authorization': 'Bearer {}'.format(access_token)
           }
           '''A UTF-8, URL-encoded search query of 500 characters maximum,
               including operators. Queries may additionally be limited by complexity.
        ↪'''
           trend_params = {

               'q': "%23"+master_hash,
               'count': 100,
               'min_id':0
           }
           if url_given==-1:
               trend_url = 'https://api.twitter.com/1.1/search/tweets.json'
               trend_resp = requests.get(trend_url, headers=trend_headers,␣
        ↪params=trend_params)
           else:
               trend_url='https://api.twitter.com/1.1/search/tweets.json'+url_given
               trend_resp = requests.get(trend_url, headers=trend_headers,␣
        ↪params=trend_params)


           tweets=trend_resp.json()
           #return tweets['statuses'],tweets['search_metadata']["max_id"]
           return tweets
```

```python
[138]: tweets_list=[]
       give_url=-1
       for i in range(0,105):
           tweets_obj=get_tweets_since(give_url)
           #print(type(tweets_obj))
           #print(tweets_obj)
           tmp_list=tweets_obj['statuses']
           #print(now_min_id)
           #now_min_id=tweets_obj['search_metadata']["max_id"]+1
           print('Netx res',tweets_obj['search_metadata']["next_results"])
           give_url=tweets_obj['search_metadata']["next_results"]
           tweets_list.extend(tmp_list)
           print("len of master list now is",len(tweets_list))
           print(tweets_obj['search_metadata']["max_id"])
           print('len of tmp_list is ',len(tmp_list))
           print("id of first tweet in current stint is ",tmp_list[0]['id'])
           #for j in tmp_list:
               #print(j['id'])


         ⎵
       →print("------------------------------------------------------------------------
```

```
Netx res ?max_id=1341289202781020162&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 100
1341289965087379457
len of tmp_list is  100
id of first tweet in current stint is  1341289965087379457
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341288596234358784&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 200
1341289202781020162
len of tmp_list is  100
id of first tweet in current stint is  1341289195898167296
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341287878740029439&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 300
1341288596234358784
len of tmp_list is  100
id of first tweet in current stint is  1341288593168486401
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341287180103077889&q=%2523NationalMathematicsDay&count=100&inc
```

lude_entities=1
len of master list now is 400
1341287878740029439
len of tmp_list is 100
id of first tweet in current stint is 1341287877100019717

Netx res ?max_id=1341286541927170048&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 500
1341287180103077889
len of tmp_list is 100
id of first tweet in current stint is 1341287176697380865

Netx res ?max_id=1341285929454071808&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 600
1341286541927170048
len of tmp_list is 100
id of first tweet in current stint is 1341286538420752384

Netx res ?max_id=1341285318238949375&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 700
1341285929454071808
len of tmp_list is 100
id of first tweet in current stint is 1341285929386790912

Netx res ?max_id=1341284711155556351&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 800
1341285318238949375
len of tmp_list is 100
id of first tweet in current stint is 1341285316527677443

Netx res ?max_id=1341284079677784063&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 900
1341284711155556351
len of tmp_list is 100
id of first tweet in current stint is 1341284705145139202

Netx res ?max_id=1341283440965009419&q=%2523NationalMathematicsDay&count=100&inc

```
lude_entities=1
len of master list now is 1000
1341284079677784063
len of tmp_list is  100
id of first tweet in current stint is  1341284073918976001
---------------------------------------------------------------------------------
-----
Netx res ?max_id=1341282892224323584&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 1100
1341283440965009419
len of tmp_list is  100
id of first tweet in current stint is  1341283435130671106
---------------------------------------------------------------------------------
-----
Netx res ?max_id=1341282360843620351&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 1200
1341282892224323584
len of tmp_list is  100
id of first tweet in current stint is  1341282880962449408
---------------------------------------------------------------------------------
-----
Netx res ?max_id=1341281850019332095&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 1300
1341282360843620351
len of tmp_list is  100
id of first tweet in current stint is  1341282360717836289
---------------------------------------------------------------------------------
-----
Netx res ?max_id=1341281296601894913&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 1400
1341281850019332095
len of tmp_list is  100
id of first tweet in current stint is  1341281839982342145
---------------------------------------------------------------------------------
-----
Netx res ?max_id=1341280715426557952&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 1500
1341281296601894913
len of tmp_list is  100
id of first tweet in current stint is  1341281294475436039
---------------------------------------------------------------------------------
-----
Netx res ?max_id=1341280179071508482&q=%2523NationalMathematicsDay&count=100&inc
```

```
lude_entities=1
len of master list now is 1600
1341280715426557952
len of tmp_list is  100
id of first tweet in current stint is  1341280707629383682
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341279663570739201&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 1700
1341280179071508482
len of tmp_list is  100
id of first tweet in current stint is  1341280177905573889
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341279148623364095&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 1800
1341279663570739201
len of tmp_list is  100
id of first tweet in current stint is  1341279659242135553
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341278632644206594&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 1900
1341279148623364095
len of tmp_list is  100
id of first tweet in current stint is  1341279144496119809
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341278000780701696&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 2000
1341278632644206594
len of tmp_list is  100
id of first tweet in current stint is  1341278620187119617
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341277534265114623&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 2100
1341278000780701696
len of tmp_list is  100
id of first tweet in current stint is  1341277990827794433
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341276900031832063&q=%2523NationalMathematicsDay&count=100&inc
```

```
lude_entities=1
len of master list now is 2200
1341277534265114623
len of tmp_list is  100
id of first tweet in current stint is  1341277533136855040
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341276365769752576&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 2300
1341276900031832063
len of tmp_list is  100
id of first tweet in current stint is  1341276899079639040
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341275827271475201&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 2400
1341276365769752576
len of tmp_list is  100
id of first tweet in current stint is  1341276358614368257
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341275257416470531&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 2500
1341275827271475201
len of tmp_list is  100
id of first tweet in current stint is  1341275826625507328
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341274679823060992&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 2600
1341275257416470531
len of tmp_list is  100
id of first tweet in current stint is  1341275257001414656
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341274137809973247&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 2700
1341274679823060992
len of tmp_list is  100
id of first tweet in current stint is  1341274676547313664
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341273628474658818&q=%2523NationalMathematicsDay&count=100&inc
```

```
lude_entities=1
len of master list now is 2800
1341274137809973247
len of tmp_list is   100
id of first tweet in current stint is   1341274132571275264
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341273094590091263&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 2900
1341273628474658818
len of tmp_list is   100
id of first tweet in current stint is   1341273601308168195
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341272591885996031&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 3000
1341273094590091263
len of tmp_list is   100
id of first tweet in current stint is   1341273082288164864
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341272142336278532&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 3100
1341272591885996031
len of tmp_list is   100
id of first tweet in current stint is   1341272586089426945
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341271680329547778&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 3200
1341272142336278532
len of tmp_list is   100
id of first tweet in current stint is   1341272138691440640
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341271176400621567&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 3300
1341271680329547778
len of tmp_list is   100
id of first tweet in current stint is   1341271679733911552
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341270717988392964&q=%2523NationalMathematicsDay&count=100&inc
```

```
lude_entities=1
len of master list now is 3400
1341271176400621567
len of tmp_list is  100
id of first tweet in current stint is  1341271166103605255
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341270376182030337&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 3500
1341270717988392964
len of tmp_list is  100
id of first tweet in current stint is  1341270717833175041
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341269838115684355&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 3600
1341270376182030337
len of tmp_list is  100
id of first tweet in current stint is  1341270368930070536
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341269339584999428&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 3700
1341269838115684355
len of tmp_list is  100
id of first tweet in current stint is  1341269838103080960
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341268725106790399&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 3800
1341269339584999428
len of tmp_list is  100
id of first tweet in current stint is  1341269337705914368
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341268299472990209&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 3900
1341268725106790399
len of tmp_list is  100
id of first tweet in current stint is  1341268721017511936
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341267755450814463&q=%2523NationalMathematicsDay&count=100&inc
```

```
lude_entities=1
len of master list now is 4000
1341268299472990209
len of tmp_list is   100
id of first tweet in current stint is   1341268295475838978
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341267224707751936&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 4100
1341267755450814463
len of tmp_list is   100
id of first tweet in current stint is   1341267755316596736
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341266806044946431&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 4200
1341267224707751936
len of tmp_list is   100
id of first tweet in current stint is   1341267224649150472
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341266408794017796&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 4300
1341266806044946431
len of tmp_list is   100
id of first tweet in current stint is   1341266802089738242
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341265891606941698&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 4400
1341266408794017796
len of tmp_list is   100
id of first tweet in current stint is   1341266400598355968
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341265397127921666&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 4500
1341265891606941698
len of tmp_list is   100
id of first tweet in current stint is   1341265888746504192
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341264890862788609&q=%2523NationalMathematicsDay&count=100&inc
```

```
lude_entities=1
len of master list now is 4600
1341265397127921666
len of tmp_list is   100
id of first tweet in current stint is   1341265396402278402
-------------------------------------------------------------------------------
-----
Netx res ?max_id=1341264432165371904&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 4700
1341264890862788609
len of tmp_list is   100
id of first tweet in current stint is   1341264883728334850
-------------------------------------------------------------------------------
-----
Netx res ?max_id=1341263931759718406&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 4800
1341264432165371904
len of tmp_list is   100
id of first tweet in current stint is   1341264425580294144
-------------------------------------------------------------------------------
-----
Netx res ?max_id=1341263482604331008&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 4900
1341263931759718406
len of tmp_list is   100
id of first tweet in current stint is   1341263929415090177
-------------------------------------------------------------------------------
-----
Netx res ?max_id=1341262989165391872&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 5000
1341263482604331008
len of tmp_list is   100
id of first tweet in current stint is   1341263467794186241
-------------------------------------------------------------------------------
-----
Netx res ?max_id=1341262464168591360&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 5100
1341262989165391872
len of tmp_list is   100
id of first tweet in current stint is   1341262980663558145
-------------------------------------------------------------------------------
-----
Netx res ?max_id=1341261965692461056&q=%2523NationalMathematicsDay&count=100&inc
```

```
lude_entities=1
len of master list now is 5200
1341262464168591360
len of tmp_list is  100
id of first tweet in current stint is  1341262449731751936
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341261496366469120&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 5300
1341261965692461056
len of tmp_list is  100
id of first tweet in current stint is  1341261960722059266
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341261042324656127&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 5400
1341261496366469120
len of tmp_list is  100
id of first tweet in current stint is  1341261488929968128
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341260548365676545&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 5500
1341261042324656127
len of tmp_list is  100
id of first tweet in current stint is  1341261039883542529
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341260135679737856&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 5600
1341260548365676545
len of tmp_list is  100
id of first tweet in current stint is  1341260544162951170
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341259698868129791&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 5700
1341260135679737856
len of tmp_list is  100
id of first tweet in current stint is  1341260131636428800
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341259224693665795&q=%2523NationalMathematicsDay&count=100&inc
```

```
lude_entities=1
len of master list now is 5800
1341259698868129791
len of tmp_list is  100
id of first tweet in current stint is  1341259695743373313
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341258792525123584&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 5900
1341259224693665795
len of tmp_list is  100
id of first tweet in current stint is  1341259217391427585
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341258334775570432&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 6000
1341258792525123584
len of tmp_list is  100
id of first tweet in current stint is  1341258779325734914
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341257805236322303&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 6100
1341258334775570432
len of tmp_list is  100
id of first tweet in current stint is  1341258333399879680
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341257267312779264&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 6200
1341257805236322303
len of tmp_list is  100
id of first tweet in current stint is  1341257798248587265
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341256841737584644&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 6300
1341257267312779264
len of tmp_list is  100
id of first tweet in current stint is  1341257266918346752
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341256412450619391&q=%2523NationalMathematicsDay&count=100&inc
```

```
lude_entities=1
len of master list now is 6400
1341256841737584644
len of tmp_list is  100
id of first tweet in current stint is  1341256841238462464
---------------------------------------------------------------------------
-----
Netx res ?max_id=1341255887336271871&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 6500
1341256412450619391
len of tmp_list is  100
id of first tweet in current stint is  1341256409468440576
---------------------------------------------------------------------------
-----
Netx res ?max_id=1341255357306261505&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 6600
1341255887336271871
len of tmp_list is  100
id of first tweet in current stint is  1341255856952774656
---------------------------------------------------------------------------
-----
Netx res ?max_id=1341254969962319871&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 6700
1341255357306261505
len of tmp_list is  100
id of first tweet in current stint is  1341255349400084481
---------------------------------------------------------------------------
-----
Netx res ?max_id=1341254640193720320&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 6800
1341254969962319871
len of tmp_list is  100
id of first tweet in current stint is  1341254966632058883
---------------------------------------------------------------------------
-----
Netx res ?max_id=1341254250228113407&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 6900
1341254640193720320
len of tmp_list is  100
id of first tweet in current stint is  1341254640109715458
---------------------------------------------------------------------------
-----
Netx res ?max_id=1341253933222662144&q=%2523NationalMathematicsDay&count=100&inc
```

```
lude_entities=1
len of master list now is 7000
1341254250228113407
len of tmp_list is  100
id of first tweet in current stint is  1341254249041129474
-------------------------------------------------------------------------------
-----
Netx res ?max_id=1341253517084745727&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 7100
1341253933222662144
len of tmp_list is  100
id of first tweet in current stint is  1341253930873810948
-------------------------------------------------------------------------------
-----
Netx res ?max_id=1341253222569164803&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 7200
1341253517084745727
len of tmp_list is  100
id of first tweet in current stint is  1341253515847430144
-------------------------------------------------------------------------------
-----
Netx res ?max_id=1341252881161154561&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 7300
1341253222569164803
len of tmp_list is  100
id of first tweet in current stint is  1341253219813474304
-------------------------------------------------------------------------------
-----
Netx res ?max_id=1341252527786926080&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 7400
1341252881161154561
len of tmp_list is  100
id of first tweet in current stint is  1341252879760257024
-------------------------------------------------------------------------------
-----
Netx res ?max_id=1341252230456856575&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 7500
1341252527786926080
len of tmp_list is  100
id of first tweet in current stint is  1341252519519895553
-------------------------------------------------------------------------------
-----
Netx res ?max_id=1341251809629798399&q=%2523NationalMathematicsDay&count=100&inc
```

```
lude_entities=1
len of master list now is 7600
1341252230456856575
len of tmp_list is  100
id of first tweet in current stint is  1341252229383122945
-------------------------------------------------------------------------------
-----
Netx res ?max_id=1341251424697511936&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 7700
1341251809629798399
len of tmp_list is  100
id of first tweet in current stint is  1341251803099357190
-------------------------------------------------------------------------------
-----
Netx res ?max_id=1341251096451239937&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 7800
1341251424697511936
len of tmp_list is  100
id of first tweet in current stint is  1341251423137193984
-------------------------------------------------------------------------------
-----
Netx res ?max_id=1341250732457017344&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 7900
1341251096451239937
len of tmp_list is  100
id of first tweet in current stint is  1341251096262496256
-------------------------------------------------------------------------------
-----
Netx res ?max_id=1341250396870696962&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 8000
1341250732457017344
len of tmp_list is  100
id of first tweet in current stint is  1341250727943933953
-------------------------------------------------------------------------------
-----
Netx res ?max_id=1341250010533351424&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 8100
1341250396870696962
len of tmp_list is  100
id of first tweet in current stint is  1341250396455485440
-------------------------------------------------------------------------------
-----
Netx res ?max_id=1341249635256422400&q=%2523NationalMathematicsDay&count=100&inc
```

```
lude_entities=1
len of master list now is 8200
1341250010533351424
len of tmp_list is  100
id of first tweet in current stint is  1341250004367753218
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341249227972743169&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 8300
1341249635256422400
len of tmp_list is  100
id of first tweet in current stint is  1341249629757685760
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341248814833778687&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 8400
1341249227972743169
len of tmp_list is  100
id of first tweet in current stint is  1341249226911535104
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341248460050186240&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 8500
1341248814833778687
len of tmp_list is  100
id of first tweet in current stint is  1341248813839761409
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341248085423345663&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 8600
1341248460050186240
len of tmp_list is  100
id of first tweet in current stint is  1341248460046086144
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341247783496536068&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 8700
1341248085423345663
len of tmp_list is  100
id of first tweet in current stint is  1341248081044463617
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341247463039016959&q=%2523NationalMathematicsDay&count=100&inc
```

```
lude_entities=1
len of master list now is 8800
1341247783496536068
len of tmp_list is  100
id of first tweet in current stint is  1341247781344747520
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341247029054373889&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 8900
1341247463039016959
len of tmp_list is  100
id of first tweet in current stint is  1341247461109628928
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341246622995345407&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 9000
1341247029054373889
len of tmp_list is  100
id of first tweet in current stint is  1341247027313709056
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341246274125762559&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 9100
1341246622995345407
len of tmp_list is  100
id of first tweet in current stint is  1341246620013236224
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341245948802912255&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 9200
1341246274125762559
len of tmp_list is  100
id of first tweet in current stint is  1341246273769238529
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341245565904900096&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 9300
1341245948802912255
len of tmp_list is  100
id of first tweet in current stint is  1341245936241012737
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341245136580198400&q=%2523NationalMathematicsDay&count=100&inc
```

```
lude_entities=1
len of master list now is 9400
1341245565904900096
len of tmp_list is  100
id of first tweet in current stint is  1341245547034730502
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341244771923156993&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 9500
1341245136580198400
len of tmp_list is  100
id of first tweet in current stint is  1341245128074137600
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341244330774687749&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 9600
1341244771923156993
len of tmp_list is  100
id of first tweet in current stint is  1341244757897404421
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341243917602189311&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 9700
1341244330774687749
len of tmp_list is  100
id of first tweet in current stint is  1341244329608691717
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341243547320610815&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 9800
1341243917602189311
len of tmp_list is  100
id of first tweet in current stint is  1341243914041192448
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341243141240672255&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 9900
1341243547320610815
len of tmp_list is  100
id of first tweet in current stint is  1341243545621950464
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341242766978809855&q=%2523NationalMathematicsDay&count=100&inc
```

```
lude_entities=1
len of master list now is 10000
1341243141240672255
len of tmp_list is  100
id of first tweet in current stint is  1341243137444904960
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341242394885246975&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 10100
1341242766978809855
len of tmp_list is  100
id of first tweet in current stint is  1341242763568791552
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341242048213442559&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 10200
1341242394885246975
len of tmp_list is  100
id of first tweet in current stint is  1341242391966011392
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341241711616434175&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 10300
1341242048213442559
len of tmp_list is  100
id of first tweet in current stint is  1341242047676600321
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341241366328844287&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 10400
1341241711616434175
len of tmp_list is  100
id of first tweet in current stint is  1341241709330513920
--------------------------------------------------------------------------------
-----
Netx res ?max_id=1341241078561685503&q=%2523NationalMathematicsDay&count=100&inc
lude_entities=1
len of master list now is 10500
1341241366328844287
len of tmp_list is  100
id of first tweet in current stint is  1341241355100557313
--------------------------------------------------------------------------------
-----
```

```
[ ]:
```

```
[117]: len(tweets_list)
```

```
[117]: 100
```

1.1 Storing the 105k tweets as JSON

```
[139]: tweets_dict={
           "tweets_extracted":tweets_list
       }
```

```
[144]: with open("sample.json", "w") as outfile:
           json.dump(tweets_dict, outfile,indent=4)
```

```
[7]: import json

     with open('sample.json') as json_file:
         tweets_dict = json.load(json_file)
     tweets_list=tweets_dict["tweets_extracted"]
```

1.2 Involving useful columns in a dataframe

Link describing the field meanings: https://developer.twitter.com/en/docs/twitter-api/v1/data-dictionary/object-model/tweet

```
[64]: i=0
      print(tweets_list[i]["id"])

      # The actual UTF-8 text of the status update.
      print(tweets_list[i]["text"])

      # Name of the user
      print(tweets_list[i]["user"]["name"])
      print(tweets_list[i]["user"]["followers_count"])
      print(tweets_list[i]["user"]["friends_count"])
      print(tweets_list[i]['user']["verified"])


      #Number of times this Tweet has been retweeted.
      print(tweets_list[i]["retweet_count"])
      print(tweets_list[i]["favorite_count"])
      print(tweets_list[i]["lang"])

      # Entities
```

```
print(tweets_list[i]["entities"])
print(tweets_list[i]["entities"]["hashtags"])
print(tweets_list[i]["entities"]["urls"])
#print(tweets_list[i]["entities"]["media"])
```

1341289965087379457
Remembering the Legendary Mathematician, #SrinivasaRamanujan on his birth
anniversary, which is also celebrated as… https://t.co/yBFxhF8Iio
Sujeet Kumar
3670
340
True
0
0
en
{'hashtags': [{'text': 'SrinivasaRamanujan', 'indices': [41, 60]}], 'symbols':
[], 'user_mentions': [], 'urls': [{'url': 'https://t.co/yBFxhF8Iio',
'expanded_url': 'https://twitter.com/i/web/status/1341289965087379457',
'display_url': 'twitter.com/i/web/status/1…', 'indices': [116, 139]}]}
[{'text': 'SrinivasaRamanujan', 'indices': [41, 60]}]
[{'url': 'https://t.co/yBFxhF8Iio', 'expanded_url':
'https://twitter.com/i/web/status/1341289965087379457', 'display_url':
'twitter.com/i/web/status/1…', 'indices': [116, 139]}]

1.3 Selecting useful fields and other processing

```
[65]: mod_list=[]
      cnt=0
      user_id_list=[]
      extra_hashtags_list=[]
      text_str=""
      user_map={}
      for a_tweet in tweets_list:
          tmp_d={}
          #tmp_d["id"]=a_tweet["id"]
          tmp_d["user_name"]=a_tweet["user"]["name"]
          tmp_d["num_retweets"]=a_tweet["retweet_count"]
          tmp_d["num_likes"]=a_tweet["favorite_count"]
          tmp_d["lang"]=a_tweet["lang"]
          tmp_d["num_user_followers"]=a_tweet["user"]["followers_count"]
          tmp_d["num_user_friends"]=a_tweet["user"]["friends_count"]
          tmp_d["num_ext_hashtags"]=0
          tmp_d["num_ext_urls"]=0
          tmp_d["num_ext_media"]=0
          tmp_d['text']=a_tweet['text']
          text_str=text_str+"\n\n"+tmp_d['text']
```

```python
        if a_tweet["user"]["verified"]==True:
            tmp_d["is_verified"]="verified"
        else:
            tmp_d["is_verified"]="not_verified"

        if "hashtags" in a_tweet["entities"].keys():
            tmp_d["num_ext_hashtags"]=len(a_tweet["entities"]["hashtags"])
            for x in a_tweet["entities"]["hashtags"]:
                extra_hashtags_list.append(x['text'])
        if "urls" in a_tweet["entities"].keys():
            tmp_d["num_ext_urls"]=len(a_tweet["entities"]["urls"])
        if "media" in a_tweet["entities"].keys():
            tmp_d["num_ext_media"]=len(a_tweet["entities"]["media"])
        if "coordinates" in a_tweet.keys() and a_tweet["coordinates"]!=None:
            #print(a_tweet.keys())
            #print(a_tweet["coordinates"]["coordinates"])
            tmp_d["longitude"]=a_tweet["coordinates"]["coordinates"][0]
            tmp_d["latitude"]=a_tweet["coordinates"]["coordinates"][1]
            cnt+=1
        elif a_tweet["place"]!=None:
            #print(a_tweet["place"]["bounding_box"]["coordinates"][0][0])
        ␣
↪tmp_d["longitude"]=a_tweet["place"]["bounding_box"]["coordinates"][0][0][0]

        ␣
↪tmp_d["latitude"]=a_tweet["place"]["bounding_box"]["coordinates"][0][0][1]
            cnt+=1
        mod_list.append(tmp_d)
        user_id_list.append(a_tweet["user"]["id"])
        user_map[a_tweet["user"]["id"]]=a_tweet["user"]["name"]

        #print(tmp_d)
        #break
```

```python
[66]: print(len(mod_list))
```

```
10500
```

```python
[67]: print(len(extra_hashtags_list))
```

```
10286
```

```python
[68]: df = pd.DataFrame(mod_list)
```

2 Analysis

[70]: df.columns

[70]: Index(['user_name', 'num_retweets', 'num_likes', 'lang', 'num_user_followers',
              'num_user_friends', 'num_ext_hashtags', 'num_ext_urls', 'num_ext_media',
              'text', 'is_verified', 'longitude', 'latitude'],
             dtype='object')

[71]: df.dtypes

[71]: user_name   object
      num_retweets   int64
      num_likes   int64
      lang   object
      num_user_followers   int64
      num_user_friends   int64
      num_ext_hashtags   int64
      num_ext_urls   int64
      num_ext_media   int64
      text   object
      is_verified   object
      longitude   float64
      latitude   float64
      dtype: object

[73]: df.describe()

[73]:
	num_retweets	num_likes	num_user_followers	num_user_friends \
count	10500.000000	10500.000000	1.050000e+04	10500.000000
mean	655.819238	1.168095	5.808436e+03	634.710095
std	1282.876843	10.243694	1.201445e+05	1930.947001
min	0.000000	0.000000	0.000000e+00	0.000000
25%	1.000000	0.000000	1.900000e+01	40.000000
50%	13.000000	0.000000	1.010000e+02	155.000000
75%	205.000000	0.000000	5.362500e+02	548.250000
max	3456.000000	670.000000	7.846488e+06	82600.000000

	num_ext_hashtags	num_ext_urls	num_ext_media	longitude	latitude
count	10500.000000	10500.000000	10500.000000	123.000000	123.000000
mean	0.979619	0.204762	0.113143	74.592504	22.917072
std	1.070771	0.418380	0.316782	20.845186	5.699447
min	0.000000	0.000000	0.000000	-84.820309	6.622513
25%	0.000000	0.000000	0.000000	72.744840	20.080191
50%	1.000000	0.000000	0.000000	77.000000	23.005830
75%	1.000000	0.000000	0.000000	80.214405	25.852856
max	10.000000	3.000000	1.000000	92.325090	44.160540

```
[76]: df.corr()
```

```
[76]:                    num_retweets  num_likes  num_user_followers  \
      num_retweets           1.000000  -0.056754           -0.022421
      num_likes             -0.056754   1.000000            0.214843
      num_user_followers    -0.022421   0.214843            1.000000
      num_user_friends      -0.113248  -0.003896            0.022322
      num_ext_hashtags       0.025426  -0.020572           -0.005334
      num_ext_urls          -0.249602   0.154204            0.065918
      num_ext_media         -0.176193   0.017473           -0.009840
      longitude              0.013351  -0.175504           -0.001794
      latitude               0.084552   0.057008           -0.031984

                         num_user_friends  num_ext_hashtags  num_ext_urls  \
      num_retweets              -0.113248          0.025426     -0.249602
      num_likes                 -0.003896         -0.020572      0.154204
      num_user_followers         0.022322         -0.005334      0.065918
      num_user_friends           1.000000         -0.056368     -0.025254
      num_ext_hashtags          -0.056368          1.000000      0.016120
      num_ext_urls              -0.025254          0.016120      1.000000
      num_ext_media              0.042014          0.203638     -0.171225
      longitude                  0.090867          0.002644     -0.012629
      latitude                  -0.124947         -0.128955      0.054210

                         num_ext_media  longitude  latitude
      num_retweets           -0.176193   0.013351  0.084552
      num_likes               0.017473  -0.175504  0.057008
      num_user_followers     -0.009840  -0.001794 -0.031984
      num_user_friends        0.042014   0.090867 -0.124947
      num_ext_hashtags        0.203638   0.002644 -0.128955
      num_ext_urls           -0.171225  -0.012629  0.054210
      num_ext_media           1.000000   0.012049 -0.097763
      longitude               0.012049   1.000000 -0.318445
      latitude               -0.097763  -0.318445  1.000000
```

```
[77]: for i in df.columns:
          print("Number of unique values for {} is {}".format(i,len(df[i].unique())))
```

```
Number of unique values for user_name is 8094
Number of unique values for num_retweets is 94
Number of unique values for num_likes is 74
Number of unique values for lang is 23
Number of unique values for num_user_followers is 2219
Number of unique values for num_user_friends is 1910
Number of unique values for num_ext_hashtags is 11
Number of unique values for num_ext_urls is 4
Number of unique values for num_ext_media is 2
```

```
Number of unique values for text is 4029
Number of unique values for is_verified is 2
Number of unique values for longitude is 84
Number of unique values for latitude is 84
```

3 On magnifying, one can see that tweets related to National Mathematics Day were received from all over India (notice the red dots)

```python
[94]: import matplotlib.pyplot as plt
      #plt.scatter(x=df['longitude'], y=df['latitude'])
      #plt.show()

      from shapely.geometry import Point
      import geopandas as gpd
      from geopandas import GeoDataFrame

      geometry = [Point(xy) for xy in zip(df['longitude'], df['latitude'])]
      gdf = GeoDataFrame(df, geometry=geometry)

      #this is a simple map that goes with geopandas
      world = gpd.read_file(gpd.datasets.get_path('naturalearth_lowres'))
      gdf.plot(ax=world.plot(figsize=(40, 30)), marker='o', color='red',
       ↪markersize=15);
```

3.1 Do we get some useful correlations in the numerical fields ?

```
[80]: df.corr()
```

```
[80]:                     num_retweets  num_likes  num_user_followers  \
      num_retweets            1.000000  -0.056754           -0.022421
      num_likes              -0.056754   1.000000            0.214843
      num_user_followers     -0.022421   0.214843            1.000000
      num_user_friends       -0.113248  -0.003896            0.022322
      num_ext_hashtags        0.025426  -0.020572           -0.005334
      num_ext_urls           -0.249602   0.154204            0.065918
      num_ext_media          -0.176193   0.017473           -0.009840
      longitude               0.013351  -0.175504           -0.001794
      latitude                0.084552   0.057008           -0.031984

                          num_user_friends  num_ext_hashtags  num_ext_urls  \
      num_retweets               -0.113248          0.025426     -0.249602
      num_likes                  -0.003896         -0.020572      0.154204
      num_user_followers          0.022322         -0.005334      0.065918
      num_user_friends            1.000000         -0.056368     -0.025254
      num_ext_hashtags           -0.056368          1.000000      0.016120
      num_ext_urls               -0.025254          0.016120      1.000000
      num_ext_media               0.042014          0.203638     -0.171225
      longitude                   0.090867          0.002644     -0.012629
      latitude                   -0.124947         -0.128955      0.054210

                          num_ext_media  longitude  latitude
      num_retweets            -0.176193   0.013351  0.084552
      num_likes                0.017473  -0.175504  0.057008
      num_user_followers      -0.009840  -0.001794 -0.031984
      num_user_friends         0.042014   0.090867 -0.124947
      num_ext_hashtags         0.203638   0.002644 -0.128955
      num_ext_urls            -0.171225  -0.012629  0.054210
      num_ext_media            1.000000   0.012049 -0.097763
      longitude                0.012049   1.000000 -0.318445
      latitude                -0.097763  -0.318445  1.000000
```

3.1.1 Seeing the number of unique values

```
[81]: for i in df.columns:
          print("Number of unique values for {} is {}".format(i,len(df[i].unique())))
```

```
Number of unique values for user_name is 8094
Number of unique values for num_retweets is 94
Number of unique values for num_likes is 74
Number of unique values for lang is 23
```

```
Number of unique values for num_user_followers is 2219
Number of unique values for num_user_friends is 1910
Number of unique values for num_ext_hashtags is 11
Number of unique values for num_ext_urls is 4
Number of unique values for num_ext_media is 2
Number of unique values for text is 4029
Number of unique values for is_verified is 2
Number of unique values for longitude is 84
Number of unique values for latitude is 84
Number of unique values for geometry is 84
```

3.1.2 A brief overview of dataset

[82]: `df.describe()`

[82]:

	num_retweets	num_likes	num_user_followers	num_user_friends \
count	10500.000000	10500.000000	1.050000e+04	10500.000000
mean	655.819238	1.168095	5.808436e+03	634.710095
std	1282.876843	10.243694	1.201445e+05	1930.947001
min	0.000000	0.000000	0.000000e+00	0.000000
25%	1.000000	0.000000	1.900000e+01	40.000000
50%	13.000000	0.000000	1.010000e+02	155.000000
75%	205.000000	0.000000	5.362500e+02	548.250000
max	3456.000000	670.000000	7.846488e+06	82600.000000

	num_ext_hashtags	num_ext_urls	num_ext_media	longitude	latitude
count	10500.000000	10500.000000	10500.000000	123.000000	123.000000
mean	0.979619	0.204762	0.113143	74.592504	22.917072
std	1.070771	0.418380	0.316782	20.845186	5.699447
min	0.000000	0.000000	0.000000	-84.820309	6.622513
25%	0.000000	0.000000	0.000000	72.744840	20.080191
50%	1.000000	0.000000	0.000000	77.000000	23.005830
75%	1.000000	0.000000	0.000000	80.214405	25.852856
max	10.000000	3.000000	1.000000	92.325090	44.160540

4 Verified users vs non-verified users

4.0.1 While the ratio of non-verified to verified users is quite large, I believe that this ratio is much higher than a general case. This seems to happen as an occassion like the 'National Mathematics Day' recieves tweets from politicians, MLAs,govt. officials etc across the country (more so than let's say a hastag of #IndiaVSAus")

```python
[122]: df["is_verified"].value_counts()
```

```
[122]: not_verified    10309
       verified          191
       Name: is_verified, dtype: int64
```

```python
[121]: fig = plt.figure(figsize=(10,10))
       df.is_verified.value_counts().plot(kind='pie')
       plt.title('Number of appearances in dataset')
```

```
[121]: Text(0.5, 1.0, 'Number of appearances in dataset')
```

Number of appearances in dataset

not verified

is_verified

verified

[ ]:
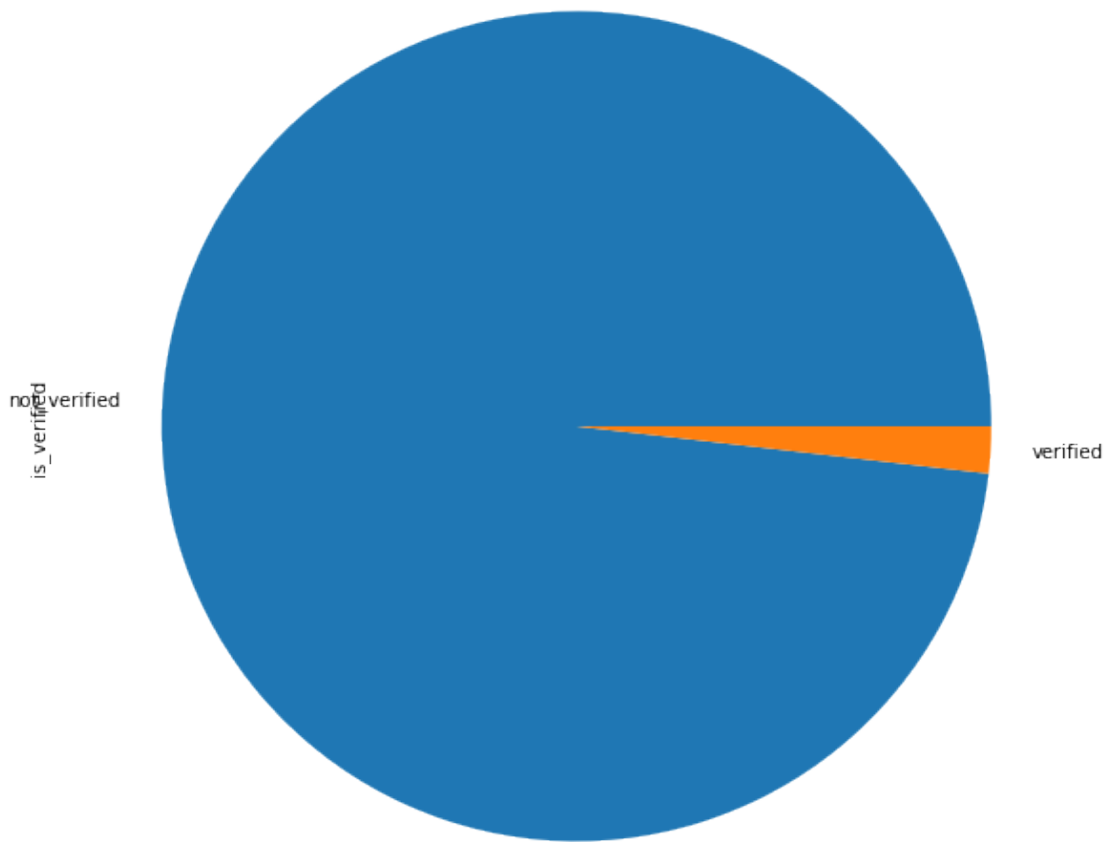
5 Hashtags

Most tweets had 0-1 hashtags.

```
[83]: #The purpose of using plt.figure() is to create a figure object.
fig = plt.figure(figsize=(15,4))
sns.countplot(x="num_ext_hashtags", data=df)
```

[83]: <matplotlib.axes._subplots.AxesSubplot at 0x7fecb34d0750>
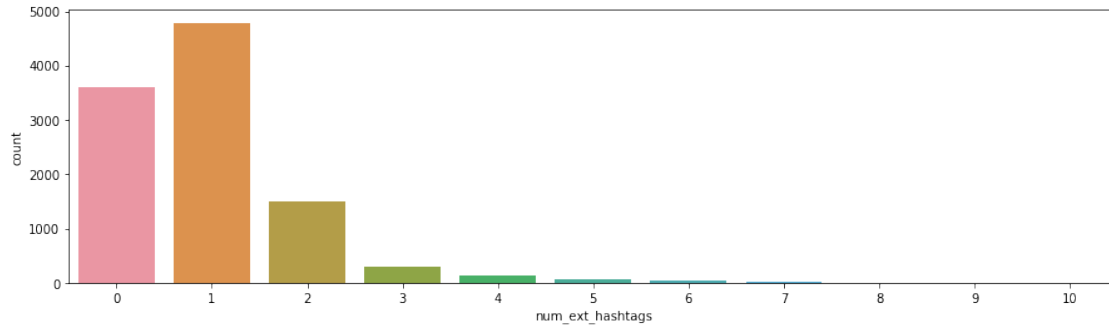
```
[85]: def generate_word_cloud(arr):
          d={}
          import os

          from wordcloud import WordCloud
          for i in arr:
              if i in d.keys():
                  d[i]+=1
              else:
                  d[i]=1
          wordcloud = WordCloud()
          wordcloud.generate_from_frequencies(frequencies=d)
          plt.figure()
          plt.imshow(wordcloud, interpolation="bilinear")
          plt.axis("off")
          plt.show()
```

6 Wordcloud based on hashtags

```
[86]: generate_word_cloud(extra_hashtags_list)
```

7 Wordcloud based on text of tweets

```
[93]: generate_word_cloud(text_str.split(' '))
```

8 Number of followers trend

```
[96]: fig = plt.figure(figsize=(16,5))
      sns.kdeplot(df['num_user_followers'],shade=True,color="b",legend=False)
```

```
[96]: <matplotlib.axes._subplots.AxesSubplot at 0x7fecb17bbbd0>
```
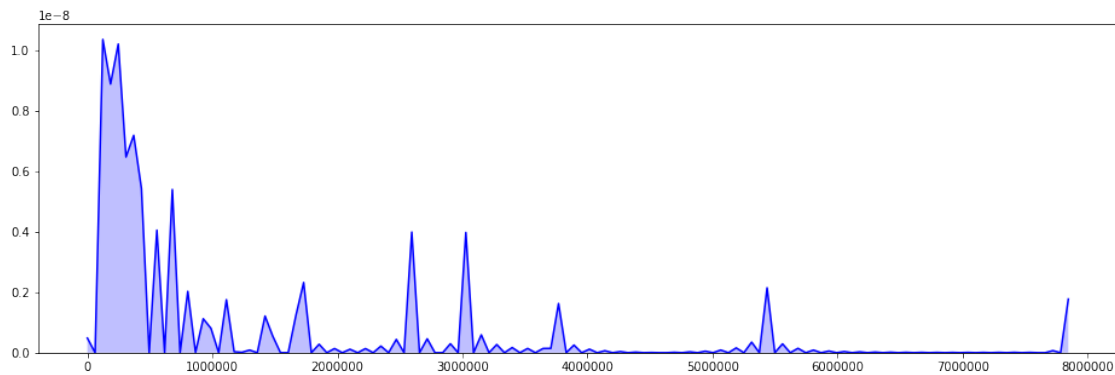

### 8.0.1 We can see that non-verified users (red) have on average much lesser number of followers than verified users (blue).

```
[99]: fig = plt.figure(figsize=(12,6))
      sns.kdeplot(df.
       ↪loc[(df["is_verified"]=="verified")]['num_user_followers'],shade=True,color="b",legend=Fals
      sns.kdeplot(df.
       ↪loc[(df["is_verified"]=="not_verified")]['num_user_followers'],shade=True,color='r',legend=
      df.groupby("is_verified")["num_user_followers"].describe()
```

```
[99]:                   count           mean             std     min      25%        50%  \
      is_verified
      not_verified  10309.0     1176.021632     7030.663970     0.0     18.0       97.0
      verified        191.0   255837.554974   854951.020319   591.0   6114.0   21603.0

                        75%          max
      is_verified
      not_verified     480.0     351581.0
      verified       93382.5   7846488.0
```
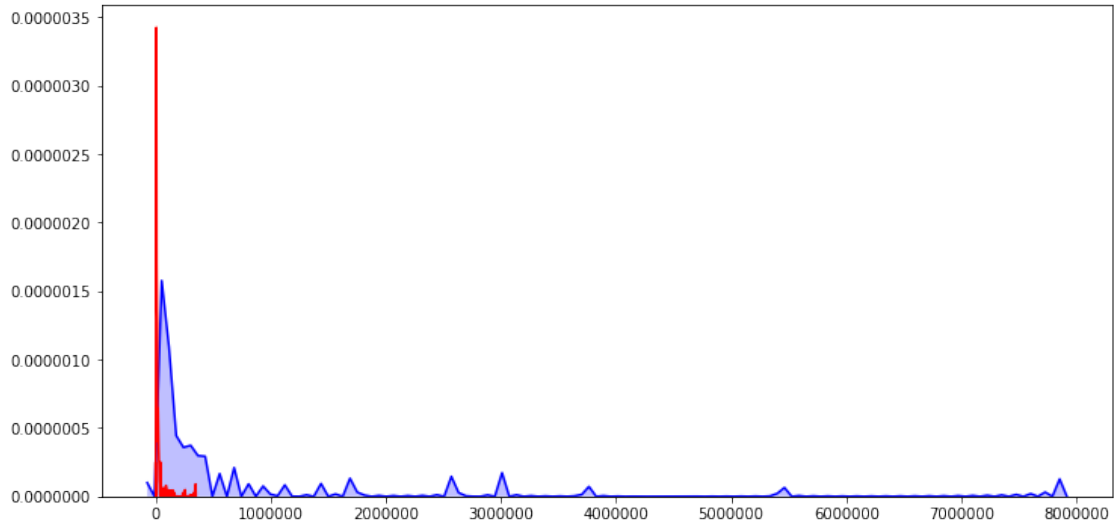
```
[128]:  # look at price distribution
        fig = plt.figure(figsize=(16,5))
        ax = fig.gca()
        col=df['num_user_followers']
        sns.distplot(col,kde=False,bins=10000)
        plt.xlabel('Price(in lakhs (Rs))',fontsize=14,fontweight="bold")
        plt.axvline(col.mean(),lw=3,ls='dashdot',
                    color='black',label='Mean price:'+'{0:.0f}'.format(np.mean(col)))
        plt.axvline(col.median(),lw=3,ls='dashed',
                    color='red',label='Median price:'+'{0:.0f}'.format(np.median(col)))
        plt.title('Distribution of Resale Prices over all␣
         ↪Listings',fontsize=18,fontweight="bold")
        plt.legend(loc='upper right',fontsize=16)
        plt.xlim(-1,90000)
        plt.show()
```
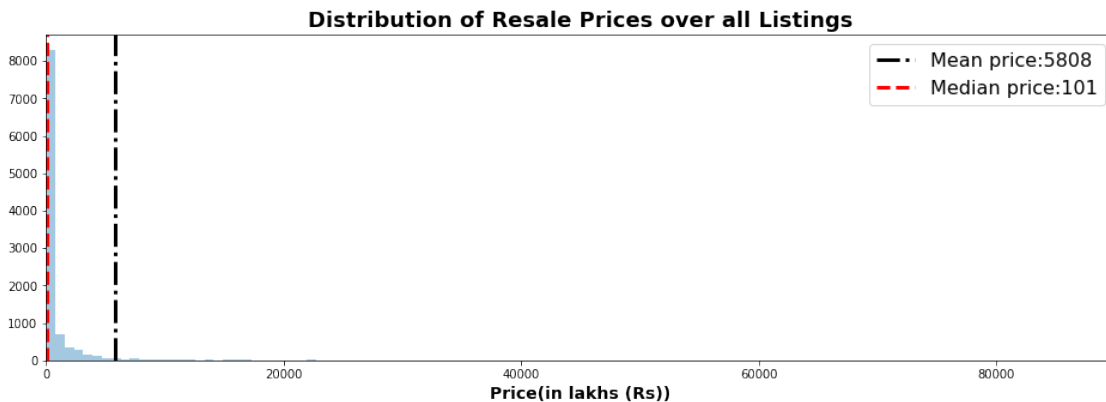
9 Number of likes trend

```
[100]: fig = plt.figure(figsize=(16,5))
       sns.kdeplot(df['num_likes'],shade=True,color="b",legend=False,bw=1.5)
```

```
[100]: <matplotlib.axes._subplots.AxesSubplot at 0x7fecb152e8d0>
```
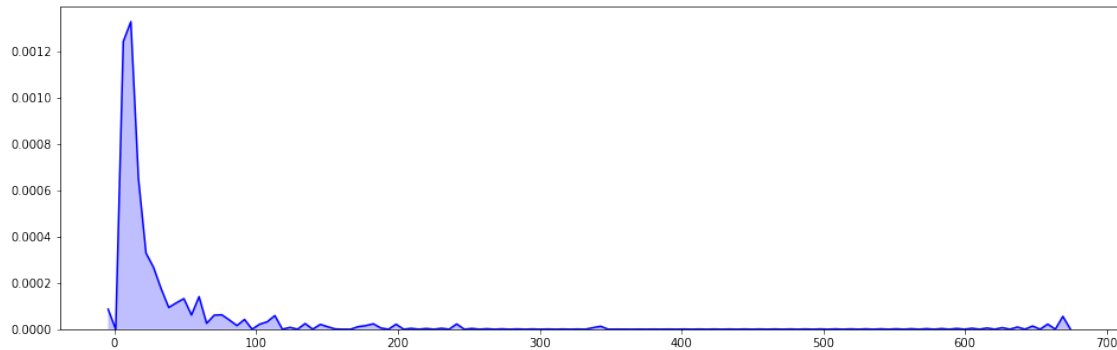
9.0.1 We can see that non-verified users (red) have on average much lesser number of likes on the tweets than verified users (blue).

```
[102]: fig = plt.figure(figsize=(15,8))
       sns.kdeplot(df.
        ↪loc[(df["is_verified"]=="verified")]['num_likes'],shade=True,color="b",legend=False,bw=1.
        ↪5)
       sns.kdeplot(df.
        ↪loc[(df["is_verified"]=="not_verified")]['num_likes'],shade=True,color='r',legend=False,bw=
        ↪5)
       df.groupby("is_verified")["num_likes"].describe()
```

```
[102]:                count       mean        std  min  25%  50%   75%    max
       is_verified
       not_verified  10309.0   0.800757   8.626609  0.0  0.0  0.0   0.0  670.0
       verified        191.0  20.994764  36.857977  0.0  1.0  6.0  21.5  198.0
```

70
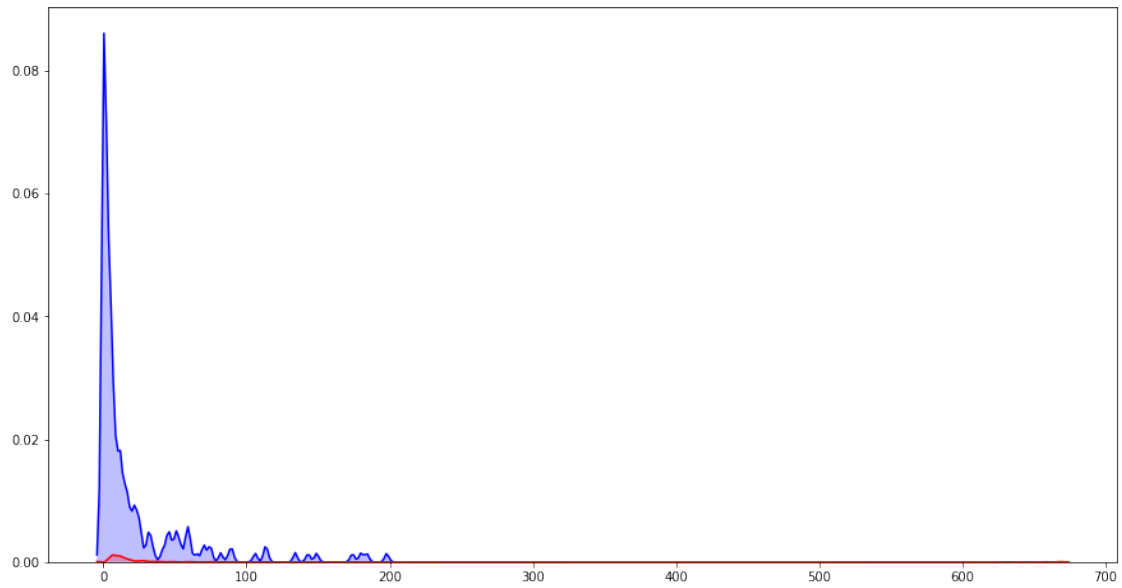
```
[103]: fig = plt.figure(figsize=(20,6))
       sns.boxplot(x="num_likes",y="is_verified",data=df,linewidth=2.5,palette="Set2")
```

[103]: <matplotlib.axes._subplots.AxesSubplot at 0x7fecabd61790>
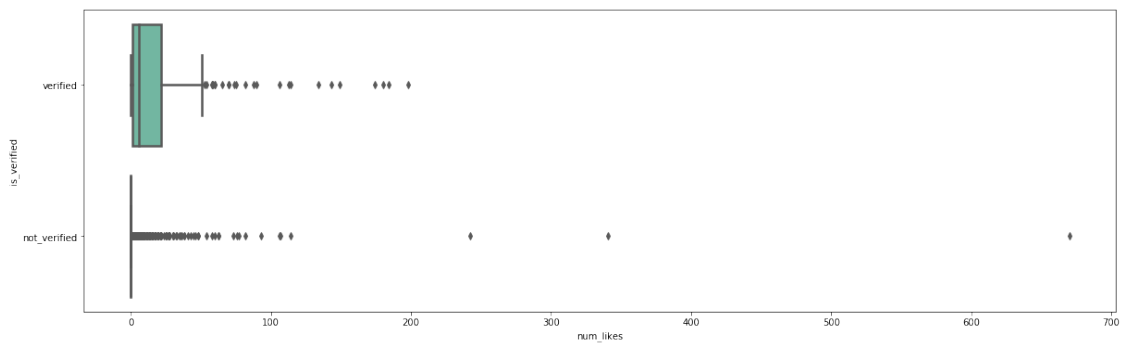
10   Number of retweets trend

```
[104]: fig = plt.figure(figsize=(16,5))
       sns.kdeplot(df['num_retweets'],shade=True,color="b",legend=False,bw=1.5)
```

[104]: <matplotlib.axes._subplots.AxesSubplot at 0x7fecb0977dd0>

71
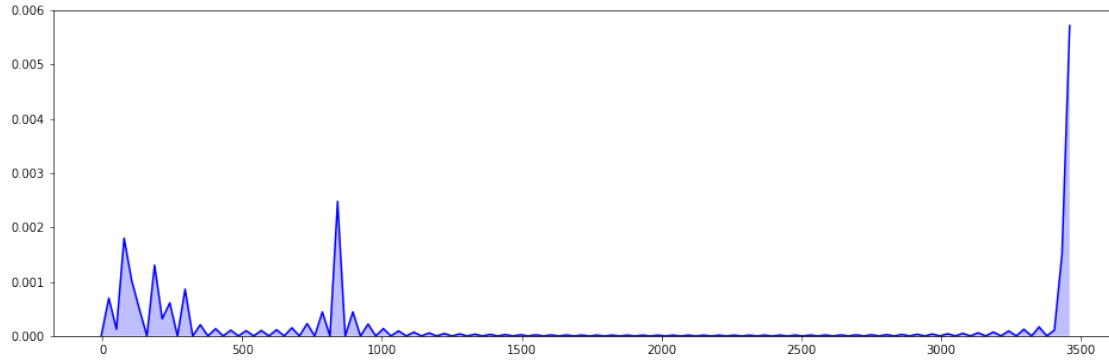
10.1 The retweets for tweets by non-verified users (seem higher) but this is misleading as let's say a non-verified (and hence, likely an unpopular user) retweets a tweet by the Prime Minister (where the original tweet by the PM itself has 1M retweets), the retweet by the non-verified user inherits the retweet count of the PM's original tweet and hence, no valid conclusions regarding retweets can be extracted.

```
[105]: fig = plt.figure(figsize=(20,10))
       sns.kdeplot(df.
        ↪loc[(df["is_verified"]=="verified")]['num_retweets'],shade=True,color="b",legend=False,bw=1
        ↪5)
       sns.kdeplot(df.
        ↪loc[(df["is_verified"]=="not_verified")]['num_retweets'],shade=True,color='r',legend=False,
        ↪5)
       df.groupby("is_verified")["num_retweets"].describe()
```

```
[105]:                 count        mean         std  min  25%   50%    75%     max
       is_verified
       not_verified  10309.0  667.336114  1291.433412  0.0  1.0  14.0  205.0  3456.0
       verified        191.0   34.209424   252.524846  0.0  1.0   3.0   12.5  3455.0
```
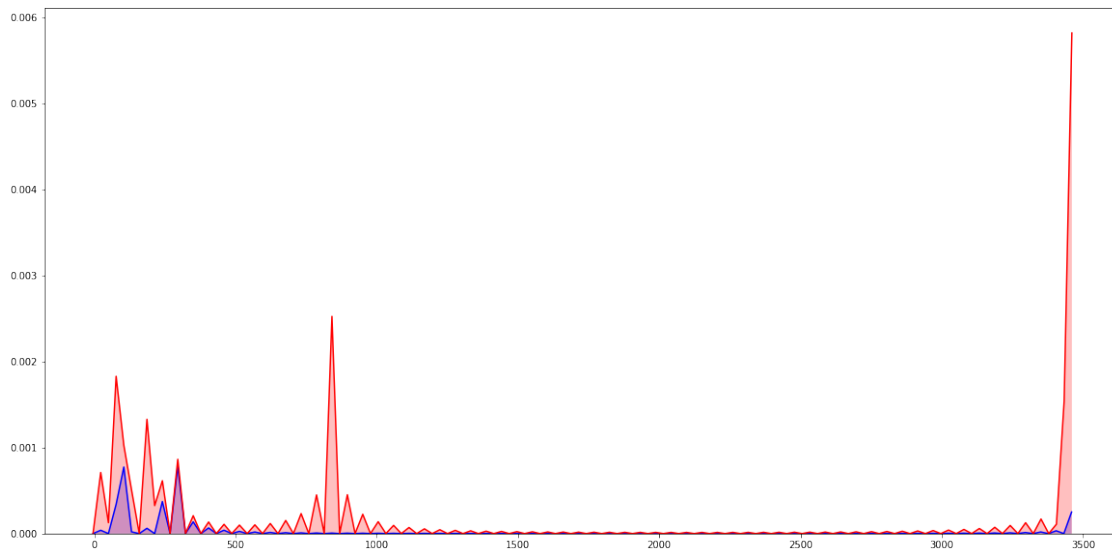
11 Language in which tweets were tweeted

11.0.1 Most of the tweets were in English and hindi but many languages (tweets were observed from all over the country) had their little contributions
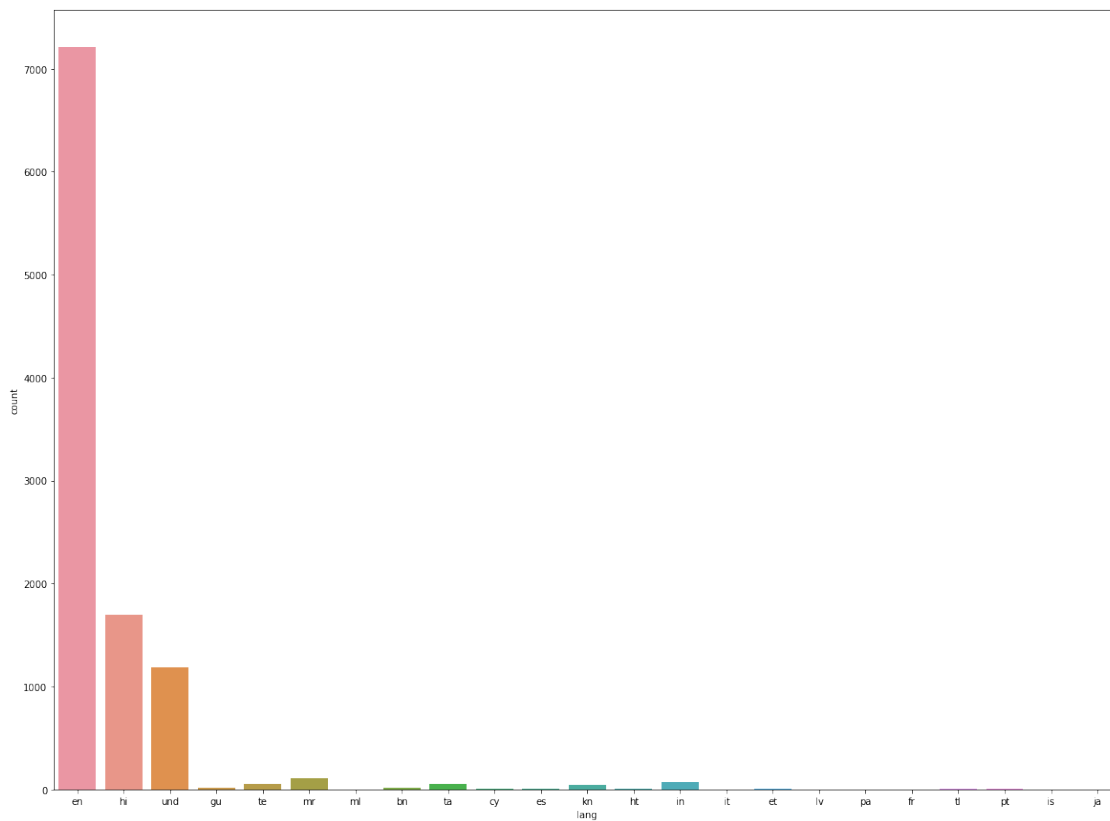
[110]:
```python
df['lang'].value_counts()
```

[110]:
```
en     7209
hi     1698
und    1188
mr      110
in       71
te       54
ta       54
kn       45
gu       17
bn       15
et        8
cy        6
ht        5
es        4
pt        3
tl        3
is        2
it        2
ml        2
fr        1
```

```
ja          1
pa          1
lv          1
Name: lang, dtype: int64
```

[114]:
```python
fig = plt.figure(figsize=(20,15))
sns.countplot(x="lang", data=df)
```

[114]: <matplotlib.axes._subplots.AxesSubplot at 0x7fecb05f3150>

12 Number of external links provided

12.0.1 The proportion of tweets having links is higher than usual. This seems to be due to 'news channels, trivia accounts' etc providing links to their individual articles on Ramanujan and National Mathematics Day.

```
[123]:  #The purpose of using plt.figure() is to create a figure object.
        fig = plt.figure(figsize=(15,4))
        sns.countplot(x="num_ext_urls", data=df)
```

```
[123]:  <matplotlib.axes._subplots.AxesSubplot at 0x7fecabab6d90>
```
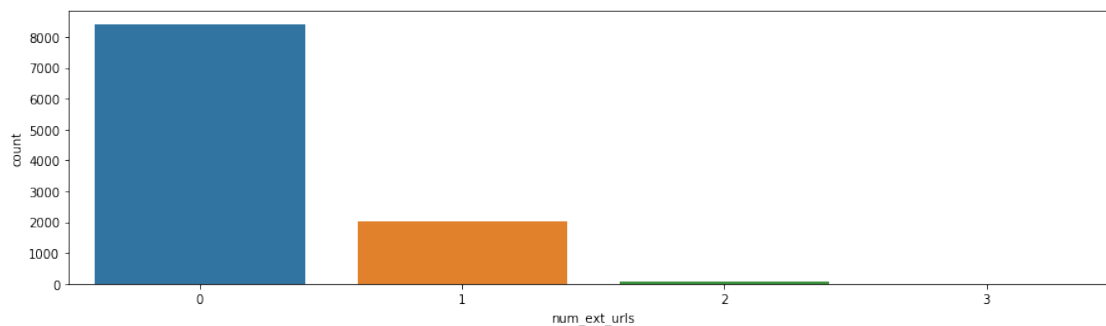

13 Number of images attached with tweets

13.0.1 Again, the number of tweets having an attached image seems higher than the usual case.

```
[126]:  df["num_ext_media"].value_counts()
```

```
[126]:  0    9312
        1    1188
        Name: num_ext_media, dtype: int64
```

```
[125]:  #The purpose of using plt.figure() is to create a figure object.
        fig = plt.figure(figsize=(15,4))
        sns.countplot(x="num_ext_media", data=df)
```

```
[125]:  <matplotlib.axes._subplots.AxesSubplot at 0x7fecaba20d50>
```
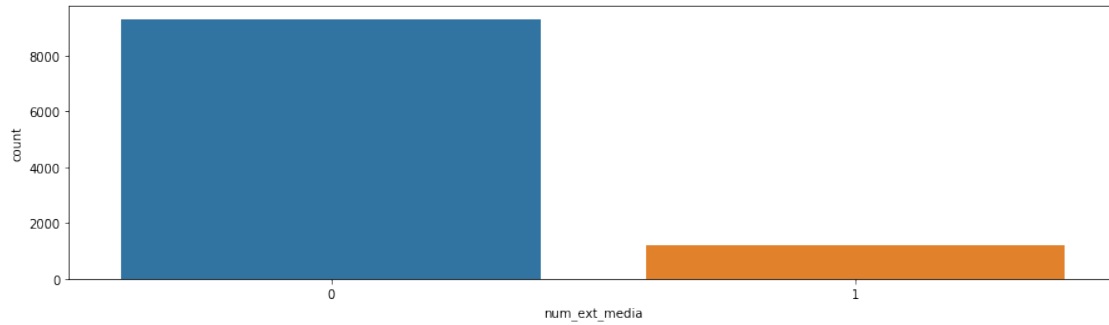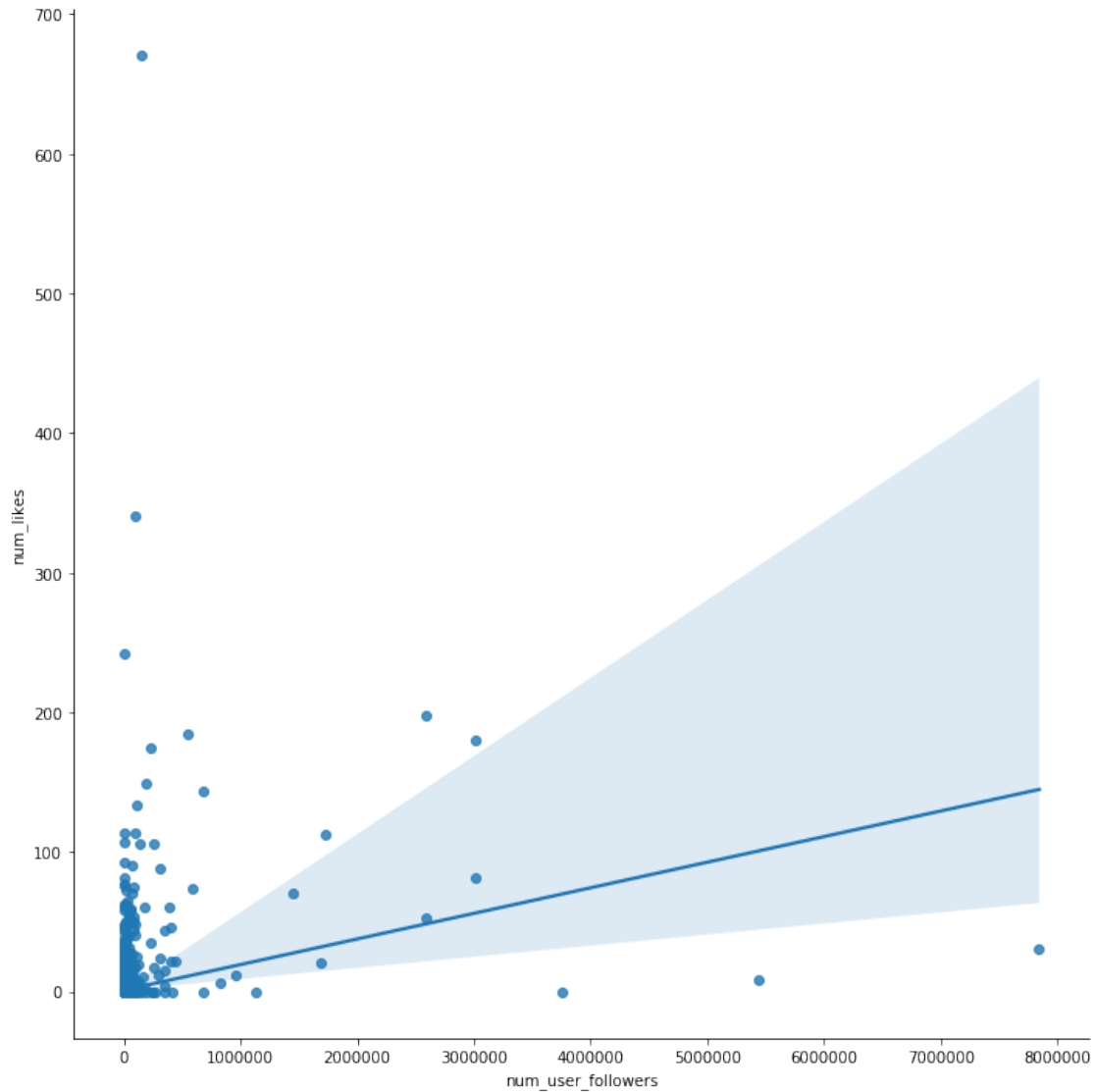
14 Correlation between likes and number of followers

14.0.1 We see that there is a decent correlation between number of followers and likes garenered by the tweet.

```
[135]: sns.
       ↪lmplot('num_user_followers','num_likes',data=df,order=1,scatter=True,height=10,aspect=1)
```

```
[135]: <seaborn.axisgrid.FacetGrid at 0x7feca4375e50>
```

[ ]:

15 Number of connected components (Failed attempt due to failed authentication :( )

[ ]: user_id_list

[ ]:
```python
list_set = set(user_id_list)
# convert the set to the list
user_id_list = (list(list_set))
```

```python
def is_connected(num1,num2):
    a_headers = {
    'Authorization': 'Bearer {}'.format(access_token)
    }

    paramsa = {

        'source_id': num1,
        'target_id': num2,
        'source_screen_name':user_map[num1],
        'target_screen_name':user_map[num2]


    }
    import requests
    from requests.auth import HTTPBasicAuth

    print(paramsa)
    # https://developer.twitter.com/en/docs/twitter-api/v1/accounts-and-users/
    ↪follow-search-get-users/api-reference/get-friendships-show
    url = 'https://api.twitter.com/1.1/friendships/lookup.json'
    resp = requests.get(url, headers=a_headers, params=paramsa,auth =␣
    ↪HTTPBasicAuth('anmolagarwal999', '5'))
    rel=resp.json()
    print(rel)
    if rel["source"]["following"]==True or rel["source"]["followed_by"]==True:
        return True
    if rel["target"]["following"]==True or rel["target"]["followed_by"]==True:
        return True
    return False
```

```python
len(user_id_list)
```

```python
adj={}
for i in range(0,len(user_id_list)):
    adj[user_id_list[i]]=[]

for i in range(0,len(user_id_list)):
    num1=user_id_list[i]
    for j in range(i+1,len(user_id_list)):
        num2=user_id_list[j]
        if is_connected(num1,num2)==True:
            adj[num1].append(num2)
            adj[num2].append(num1)
```

```python
""
```

[ ]:

[ ]: