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SMA Lab1. Real time crawling of tweets from Twitter

1. Install and import twitter library

```
In [10]:
import twitter
import json
```

2. Signup your twitter developer account and obtain the following credentials

```
consumer_key = "..."

consumer_secret = " ... "

access_token = " ... "

access_secret = " ... "

In [11]:

CONSUMER_KEY = 'jQkSc5TR31Vdkjn51Lgrm6Pg1'
CONSUMER_SECRET = 'eAaRfKD64xSKAFTXeZy0r7RXKWif4PjHqL9D6Wtc2nrreLgI3J'
OAUTH_TOKEN = '1426417914756825088-HVzGYrkMN5g7QBpoGdhqiHplPB5jFm'
OAUTH_TOKEN_SECRET = '1SQlRCKwjsjJgNT3at4gbuscUd5glw4GMKun5McsXlmWo'
```

3. Write code for crawling real time data from Twitter Streaming API.

4. Retrieve data that is trending around the world by specifying any geographic region of your choice

```
In [13]:
```

```
WORLD WOE ID = 1 #Where on Earth Identifier
INDIA_WOE_ID = 23424848
LUCKNOW_WOE_ID = 2295377
# Prefix ID with the underscore for query string parameterization.
# Without the underscore, the twitter package appends the ID value
# to the URL itself as a special case keyword argument.
India_trends = twitter_api.trends.place(_id=INDIA_WOE_ID)
Lucknow_trends = twitter_api.trends.place(_id=LUCKNOW_WOE_ID)
print(json.dumps(India_trends, indent=1))
print(json.dumps(Lucknow_trends, indent=1))
  "trends": [
    "name": "#MUNLEE",
    "url": "http://twitter.com/search?q=%23MUNLEE",
    "promoted_content": null,
    "query": "%23MUNLEE",
    "tweet_volume": 175863
   },
    "name": "Pogba",
    "url": "http://twitter.com/search?q=Pogba",
    "promoted_content": null,
    "query": "Pogba",
    "tweet_volume": 305499
   },
    "name": "SHAME ON YOU TEAM SAATH",
```

5. Print the trend names.

```
In [14]:
```

```
for trend in India_trends[0]['trends']:
    print(trend['name'])
#MUNLEE
Pogba
SHAME ON YOU TEAM SAATH
#7YearsOfAnjaanSupremacy
#MUFC
#GGMU
#FullPaisaVasoolSale
Joe Root
Sancho
Leeds
Bruno Fernandes
Old Trafford
Greenwood
Varane
Bruno hattrick
Ayling
Partition
पूर्व संध्या
14 Months Of Injustice 2 SSR
Hat-trick
Lindelof
Bairstow
Mason
NOT FUNNY
Dan James
NAYA GHAR MUBARAK JASMIN
Bielsa
ONE MAN ARMY PRATIK
Ashwin
REMINISCING SHARAD AS SAGAR
Pique
McTominay
Cube
Jinnah
Muslim League
SBI Debit & Credit Cards
McFred
Nehru
IT Rules
Man United
Steve Smith
Ishant
T&C Apply
Martial
#BheemlaNayakArrivesTMRW
#ManUtd
#HinaKhanOnMoj
#IndependenceDayIndia2021
#ManchesterUnited
#TirangaYatra
```

6. Print common trends using set function.

In [15]:

{'#MUNLEE', 'Joe Root', 'Bruno Fernandes', 'Greenwood', 'Lindelof', 'Mason', 'Nehru', '#7YearsOfAnjaanSupremacy', 'SHAME ON YOU TEAM SAATH', 'REMINISCING SHARAD AS SAGAR', '#BheemlaNayakArrivesTMRW', 'Ayling', 'Dan James', 'NAYA G HAR MUBARAK JASMIN', 'Cube', 'SBI Debit & Credit Cards', 'Bairstow', 'McTomi nay', 'ONE MAN ARMY PRATIK', 'McFred', 'Old Trafford', 'Martial', 'IT Rule s', '#IndependenceDayIndia2021', '#FullPaisaVasoolSale', '14 Months Of Injus tice 2 SSR', '#MUFC', 'Sancho', 'Varane', 'पूर्व संध्या', 'Muslim League', 'Ashwi n', 'Hat-trick', 'Bruno hattrick', 'Ishant', 'NOT FUNNY', 'Man United', 'Bie lsa', 'Pogba', '#ManUtd', 'Pique', 'Leeds', 'T&C Apply', 'Jinnah', '#GGMU', 'Steve Smith'}