Task No: 11 A	Collect Social Media Data from a Twitter to a Local File with the Topic	CO5
Date: 08/10/2025	'covid 19'	K3
	Tools: Python: Tweepy, Twitter Developer	

AIM:

To collect Social Media Data from a Twitter to a Local File with the Topic 'covid 19'

PROCEDURE:

- 1. Install tweepy and json module in pycharm
- 2. Import tweepy and json module.
- 3. Create an account in Twitter Developer mode.
- 4. Get the Twitter API credentials consumer key, consumer secret, access token, access token secret.
- 5. Authenticate with Twitter API
- 6. Search query and set, number of tweets to collect
- 7. Create File to save the collected data with file name 'covid19_tweets.json'
- 8. Collect tweets and save to a file

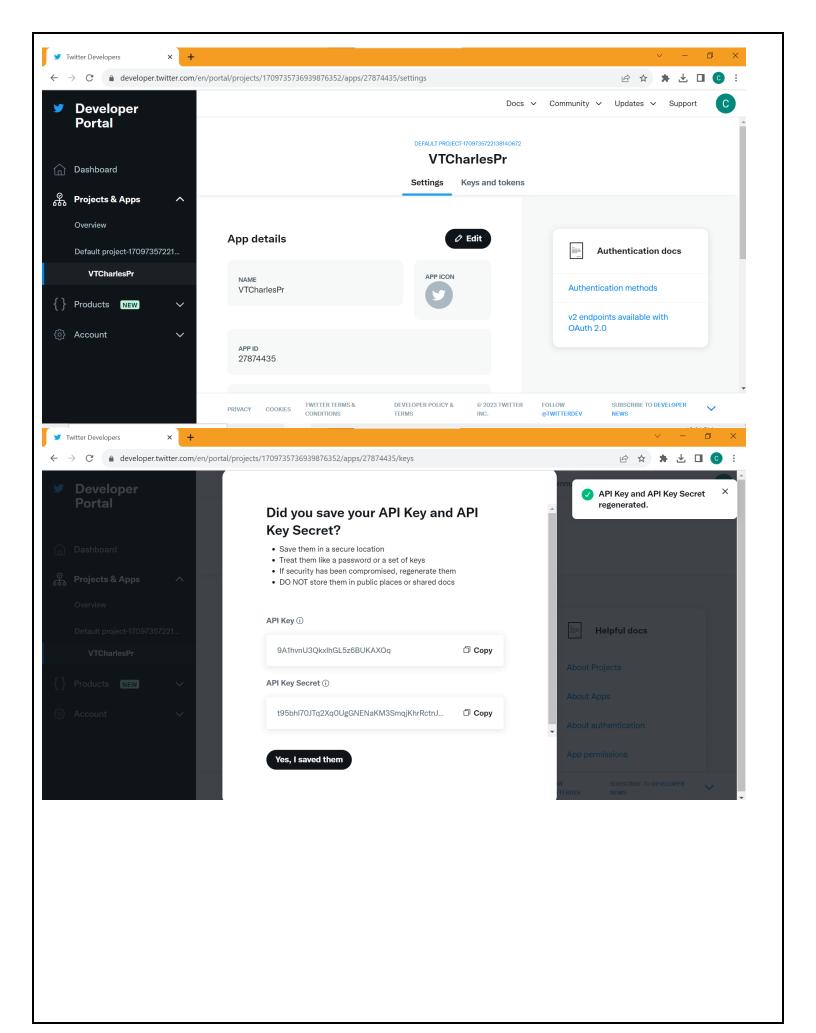
PROGRAM:

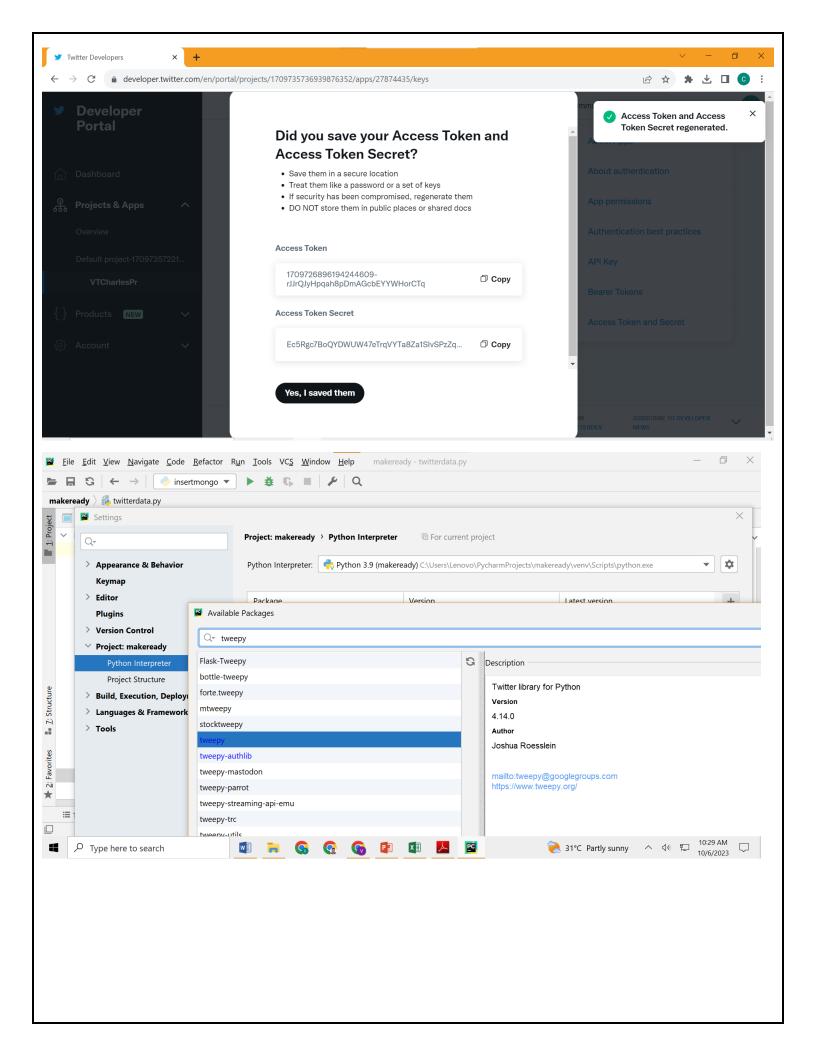
```
import tweepy
import ison
consumer key = 'KbKxl06BkeqAcwNhJnBMN5s5M'
consumer_secret = 'LaVFLQhzzy57mVDo9dbT60QOXnN6Ajm09Q6PAmSgPGoozZqhM9'
access token = '1709726896194244609-w4KYxcGTyA4GHjlO7kJHzQlCWiVvSm'
access_token_secret = 'G8uyaHaIXoDUmFzVW3Ao6sAWRZ328Y2B6RraAeEU8p4e3'
auth = tweepy.OAuth2BearerHandler(consumer_key, consumer_secret)
auth.set_access_token(access_token, access_token_secret)
api = tweepy.API(auth, wait on rate limit=True)
search_query = 'covid 19'
num\_tweets = 1000
output_file = 'covid19_tweets.json'
tweets = []
for tweet in tweepy. Cursor(api.search, q=search_query, lang='en').items(num_tweets):
  tweets.append(tweet._json)
with open(output file, 'w', encoding='utf-8') as file:
  json.dump(tweets, file, ensure_ascii=False, indent=4)
print(f'{len(tweets)} tweets collected and saved to {output_file}')
```

```
SAMPLE OUTPUT: 'covid19_tweets.json'
  "State": "Andaman and Nicobar Islands",
  "Confirmed": 7651,
  "Recovered": 7518,
  "Deaths": 129,
  "Active": 4,
  "Last_Updated_Time": "13/08/2021 23:27:22",
  "Migrated_Other": 0,
  "State_code": "AN",
  "Delta_Confirmed": 0,
  "Delta_Recovered": 0,
  "Delta Deaths": 0,
  "State_Notes": ""
 },
  "State": "Andhra Pradesh",
  "Confirmed": 2066450,
  "Recovered": 2047722,
  "Deaths": 14373,
  "Active": 4355,
  "Last_Updated_Time": "13/08/2021 23:27:22",
  "Migrated_Other": 0,
  "State_code": "AP",
  "Delta_Confirmed": 0,
  "Delta_Recovered": 0,
  "Delta_Deaths": 0,
  "State_Notes": ""
 }]
```

RESULT:

Thus, to collect Social Media Data from a Twitter to a Local File with the Topic 'covid 19' using python were successfully completed.





Task No: 11 B	Download and Set Up MongoDB Server and a Client Mongodb Compass.	CO5
Date:	Tools: MongoDB, Python: Scipy	K3

AIM:

To download, configure and upload the COVID19 datasets using MongoDB Server and a Client Mongodb Compass.

PROCEDURE:

- 1. Installing MongoDB on Windows:
- 2. Go to the official MongoDB website (https://www.mongodb.com/try/download/community) and download the MongoDB Community Server for Windows.
- 3. Run the downloaded installer (.msi file).
- 4. Choose a custom installation if you want to specify a custom installation directory or options.
- 5. After installation, MongoDB should start automatically as a Windows service. Check this in the Windows Services Manager.
- 6. Open Mongodb Compass, By default, MongoDB listens on port 27017.
- 7. Import the COIVD19, state-wise data into the Mongodb

SAMPLE INPUT FILE: [File Name: covid19statewise.json]

```
[{
  "State": "Andaman and Nicobar Islands",
  "Confirmed": 7651,
  "Recovered": 7518,
  "Deaths": 129,
  "Active": 4,
  "Last_Updated_Time": "13/08/2021 23:27:22",
  "Migrated_Other": 0,
  "State_code": "AN",
  "Delta_Confirmed": 0,
  "Delta_Recovered": 0,
  "Delta Deaths": 0,
  "State Notes": ""
 },
  "State": "Andhra Pradesh",
  "Confirmed": 2066450,
  "Recovered": 2047722,
  "Deaths": 14373,
  "Active": 4355,
  "Last_Updated_Time": "13/08/2021 23:27:22",
  "Migrated Other": 0,
  "State_code": "AP",
  "Delta_Confirmed": 0,
  "Delta_Recovered": 0,
  "Delta_Deaths": 0,
  "State Notes": ""
 }]
OUTPUT:
```

Import Completed

38 Documents Imported.

RESULT:

Thus the MongoDB Server and a Client Mongodb Compass were download, configured and COVID19 datasets were imported into Mongodb.

