Google Drive

```
from google.colab import drive
drive.mount('/content/gdrive/')
```

```
    Drive already mounted at /content/gdrive/; to attempt to forcibly remount, call drive.mount("/content/gdrive/", force_remount=T
```

```
cd /content/gdrive/MyDrive/19CSE453_NLP
```

```
    /content/gdrive/MyDrive/19CSE453_NLP
```

‣ Secret Keys

▶ ↳ 1 cell hidden

Install and import tweepy

```
!pip install -U tweepy
```

```
    Requirement already satisfied: tweepy in /usr/local/lib/python3.7/dist-packages (4.5.0)
    Requirement already satisfied: requests<3,>=2.27.0 in /usr/local/lib/python3.7/dist-packages (from tweepy) (2.27.1)
    Requirement already satisfied: requests-oauthlib<2,>=1.0.0 in /usr/local/lib/python3.7/dist-packages (from tweepy) (1.3.0)
```

```
Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.7/dist-packages (from requests<3,>=2.27.0->tweepy) (2.10)
Requirement already satisfied: charset-normalizer~=2.0.0 in /usr/local/lib/python3.7/dist-packages (from requests<3,>=2.27.0->tu
Requirement already satisfied: urllib3<1.27,>=1.21.1 in /usr/local/lib/python3.7/dist-packages (from requests<3,>=2.27.0->tweepy
Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.7/dist-packages (from requests<3,>=2.27.0->tweepy)
Requirement already satisfied: oauthlib>=3.0.0 in /usr/local/lib/python3.7/dist-packages (from requests-oauthlib<2,>=1.0.0->twe
```

```
import tweepy
```

▾ Create client object

Pass all credential keys while creating object - [check](#)

```
client = tweepy.Client(bearer_token = bearer_token)
```

▾ Extract all tweets

We will use [Client.search_all_tweets()](#) to get tweets to our code.

In order to use this feature in Twitter you need [advanced research access](#).

Know more about Twitter API [access](#).

```
response = client.search_all_tweets("#omicron",max_results=500)

tweets = response.data
```

```
tweets_texts = []
```

```
for tweet in tweets:
  tweets_texts.append(tweet.text)

import pandas as pd

df = pd.DataFrame(data =  tweets_texts, columns=["Tweets"])
```

```
df
```

	Tweets
0	RT @UNICEF_Pakistan: Things can feel overwhelm...
1	RT @Children044: Et lui, il risque pas d'engor...
2	RT @jbloom_lab: Interesting new paper on #Omic...
3	RT @HeartOTXHeartMD: "The average citizen is j...
4	RT @Antonio_Caramia: 🚨BREAKING 🚨\n\n🚨In Italia...
...	...
495	RT @njoyflyfishing: 7 Day Distribution of Covi...
496	RT @rafaelg_fisica: @voceriavirtual No me acor...
497	RT @rafaelg_fisica: Se pasaron... de verdad es...
498	RT @1MarioCervantes: Sigamos cuidándonos, aten...
499	The end of #Covid, eh? Maybe #Omicron is a mut...

500 rows × 1 columns

```
df.to_csv("data.csv")
```

▾ Pagination

While invoking search functions() we can get upto max of 500 tweets. But if we need to access more tweets - use Pagination.

Using Paginator we can traverse page by page of the response returned and access tweets in the page.

In tweepy class Paginator for Twitter APIv2

Requests per 15-minute window

- Recent search : 450

- Full-archive search : 300

Full-archive also has a 1 request / 1 second limit

```
tweets_response = []
```

```
import time
```

https://docs.tweepy.org/en/stable/faq.html#why-am-i-getting-rate-limited-so-quickly-when-using-client-search-all-tweets-with-paginator

https://docs.tweepy.org/en/stable/faq.html#how-do-i-access-includes-data-while-using-paginator

```
for response in tweepy.Paginator(client.search_all_tweets, "#omicron #india lang:en -is:retweet",max_results=500).flatten(5000):
  tweets_response.append(response.text)
  time.sleep(1)
```

```
---------------------------------------------------------------------------
KeyboardInterrupt                         Traceback (most recent call last)
<ipython-input-85-e883f8caf3cc> in <module>()
      1 for response in tweepy.Paginator(client.search_all_tweets, "#omicron #india lang:en -is:retweet", max_results=500).flatt
```

len(tweets_response)

620

tweets_response[1:100]

```
['#Omicron sub-variant BA.2 is more prevalent in comparison to the BA.1 variant in #India now\n\nhttps://t.co/8sdv7I4MTo',
 'While the #Omicron tally remains high, there has been a drop in daily cases in some states. Here are the state-wise updated
 "#NSTworld #India's capital announced the end of a weekend #curfew and eased other stringent #coronavirus restrictions, with
 '‘Omicron wave may recede rapidly but India must strengthen health system’ #Omicron #wave https://t.co/yfIIlXUqYO #COvid #De
 'Indian army people's army\n#IndianArmy #India #JammuAndKashmir #Jammu #like #LoveStory #Trending #TREASURE #HealthTech #hea
 'Indian army people's army\n#IndianArmy #India #JammuAndKashmir #Jammu #like #LoveStory #Trending #TREASURE #HealthTech #hea
 'Indian army people's army\n#IndianArmy #India #JammuAndKashmir #Jammu #like #LoveStory #Trending #TREASURE #HealthTech #hea
 'Indian army people's army\n#IndianArmy #India #JammuAndKashmir #Jammu #like #LoveStory #Trending #TREASURE #HealthTech #hea
 'Indian army people's army\n#IndianArmy #India #JammuAndKashmir #Jammu #like #LoveStory #Trending #TREASURE #HealthTech #hea
 'Indian army people's army\n#IndianArmy #India #JammuAndKashmir #Jammu #like #LoveStory #Trending #TREASURE #HealthTech #hea
 'Indian army people's army\n#IndianArmy #India #JammuAndKashmir #Jammu #like #LoveStory #Trending #TREASURE #HealthTech #hea
 '⚠️Delhi Health bulletin 27th Jan 2022, +ve ⬇️\nTotal cases - 4291\nDeaths - 34\nPositivity- 9.56%\nRecovery- 9397\n#Omicro
 'Covid19 Updates Jan 27th 2022\n#covid #coronavirus #corona #stayhome #quarantine #staysafe #instagram #like #updates #india
 '@prudentgoa @goacm were bhivpachi garaz na during New Year. By the way is their government in #Goa ? \n\n#COVID19 #coronavi
 'Omicron sub-variant BA.2 gradually increasing in India: Centre\n\n#Omicron #SubVariantBA2 #India #YesPunjab\n\nhttps://t.co
 '#MiddayNews |\n\n#Omicron sub-variant BA.2 gradually #increasing in #India: Centre\n\nhttps://t.co/z2NuVHoC4L',
 'Omicron sub-variant BA.2 gradually increasing in India: Centre #Omicron #gradually https://t.co/4bWDxtNeQe #Bid #COvid #Del
 '@DrSJaishankar Praying for your quick and complete recovery 🙏\n\n@JPNadda #covid19 #omicron #india #Coronavirus #OmicronV
 'Omicron | Full Lockdown again | Valimai Update | KAVALAIGAL | Funny | Ch... https://t.co/KKVvjxltTj via @YouTube #youtube #
 'Omicron sub-variant BA.2 is more prevalent in India, says NCDC Director\n#India #Omicron #COVID19 #NationalCentreforDisease
 'Start Your Very Own Carpooling Venture!!!\n.\n#puchkoo #carpooling #family #weekend #cab #drive #driving #newconcept #india
 'Coronavirus Omicron India Live: India reports over 2.86 lakh new cases; positivity rate jumps to 19.5%\n\n▢: Read more at
 'Top News Live Updates: Centre confirms Omicron dominant Covid variant in India\n\n#Omicron #Coronavirus #India \n\nhttps://
 'Director of National Centre for Disease Control (#NCDC) Dr #SKSingh said that #Omicron sub-variant BA.2 is the more prevale
 '@ndtv #Omicron\n#COVID19\n#Coronavirus\n\nDisastrous lockdowns by useless #BJP buffoons 🐵 have destroyed the economy of #
 '#Omicron\n#COVID19\n#Coronavirus\n\nDisastrous lockdowns by useless #BJP buffoons 🐿️ have destroyed the economy of #India
 '#Omicron, which is also referred to as B.1.1.529, has three main substrains, BA.1, BA.2, and BA.3. #OmicronInIndia #COVID19
 'COVID-19: Omicron sub-variant BA.2 is more prevalent in India now, says Centre\n\n#coronavirus #CoronavirusUpdates #Covid19
```

```
'#Omicron sub-variant BA.2 is more prevalent in #India now: #NCDC Director on #COVID19situation in India https://t.co/9BLCr;
'India reports over 2.86 lakh new cases, positivity rate jumps to 19.5% #India #COVID19 #Covid_19 #CovidTesting #OmicronVari
'#Omicron sub-variant #BA2 is more prevalent in #India now: @NCDCgov Director https://t.co/xCz61nTkGt',
'#Omicron sub-variant BA.2 is more prevalent in India now: #NCDC Director on #COVID19 situation in #India',
'While the #Omicron tally remains high, there has been a drop in daily cases in some states. Here are the state-wise updated
'Do you see an endgame for Covid this year (2022)?\n\n#COVID19 #covid19news #covid19pandemic #covid19vaccines #covid #covidv
'Read the full news: https://t.co/DHjYA6kaBb\n\n#Apradhkyun #latestnews #CNBC #aajtak #khabarabtak \n#covid #coronavirus #lc
'No obstructions will stop @rishikulshala to perform on grounds. \n\nEducation is now become necessity for all let's brace u
'Omicron wave: What next? #Omicron #India #HealthcareSystem https://t.co/5e0YdkQXNh',
'Omicron wave: What next? #Omicron #India #HealthcareSystem https://t.co/lqkl1iHkRZ',
'#Indonesia #omicron cases are ramping higher and #Malaysia is on deck for trouble. https://t.co/Dib1YJcKX1 #Singapore #Japa
"I feel that 40% of (#Omicron) cases will go unreported/untested this time around owing to less severe symptoms &amp; #Dolo6
'While the #Omicron tally remains high, there has been a drop in daily cases in some states. Here are the state-wise updated
'Delhi will report less than 5,000 COVID cases today, situation in control: Satyendar Jain \n\n#NewsCapital #SatyendarJain #
'India logs 2,86,384 new COVID-19 cases in last 24 hours\n\n#coronavirus #COVID19 #India #IndiaFightsCorona #Omicron \n\nRea
"#India reports less than 3 lakh #Covid cases for the third straight day\n\nCheck out the country's #vaccination status as c
'As #COVID19 cases increase in #India there are many questions about #omicron. Join our #webinar on Feb 2, 2022 by Dr. K Pra
'Understanding COVID-19: Can Omicron save the world? https://t.co/wEXtFleZJC\n #trending #trendingnews #breakingnews #breaki
'India Reports Over 2.86 Lakh New Cases, Omicron Peak To Cross By February 15 @WHO @MoHFW_INDIA \n\n#India #CoronavirusUpdat
'India reports 2.86 lakh COVID-19 cases in 24 hours | Indiablooms - First Portal on Digital News Management https://t.co/z5(
'Happy Republic Day !!!\n#TogetherWeCanDefeat #RepublicDay #India #Indian #HappyRepublicDay #IndianArmy #RepublicDay2022 #7;
'Here are the latest updates.\n#VOHCovid19Tracker\n\n#voiceofhealth #coronavirus\n#coronavirusindia #covid19 #corona\n#covic
'USISPF President and CEO @MukeshAghi spoke to @joinsumit on @WIONews to discuss the impact of #Omicron on #India's economy
'#GIS Representation of #Covid_19 scenario for #India for 27th Jan 2022, prepared by @CSIR_NEERI\nTotal #Vaccination  1,63,8
'#COVID19 cases are once again rapidly increasing in the country. A total of 2,86,244 new cases &amp; 573 deaths have been r
'The new sub-varient is a branch of the main Omicron varient BA.1 and is studied by researchers around the globe #fitnorthea
'2 years into the #Covid19 pandemic; besides the #coronavaccine, masks have been an able ally in combating the virus. We sha
```

Save to csv

```
df2 = pd.DataFrame(tweets_response, columns=["tweets"])
```

```
df2.to_csv("omicronindia.csv")
```