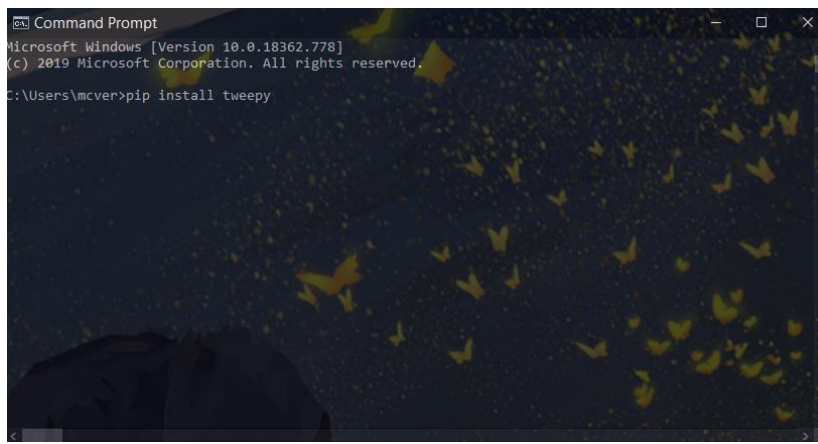


Twitter Analysis Prototype User guide

The system is coded in Python to ensure that the system runs there are some important dependencies to install first.

Open the Command prompt in windows or terminal in Linux and install the following libraries using the pip command as shown in the image below

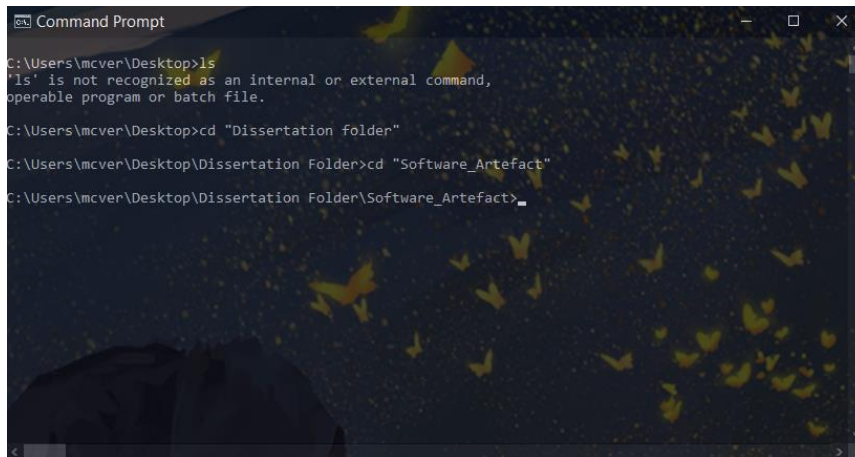
- Tweepy
- Pandas
- Matplotlib
- Textblob



```
Command Prompt
Microsoft Windows [Version 10.0.18362.778]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\mcver>pip install tweepy
```

Once each of the libraries has been installed locate the directory of the application this can be done using the cd command in the command prompt



```
Command Prompt

C:\Users\mcver\Desktop>ls
'ls' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\mcver\Desktop>cd "Dissertation folder"

C:\Users\mcver\Desktop\Dissertation Folder>cd "Software_Artefact"

C:\Users\mcver\Desktop\Dissertation Folder\Software_Artefact>
```

Once in the folder the next step is to run the application, this can be done using the python command followed by the name of the script:

```
Command Prompt

C:\Users\mcver\Desktop>ls
'ls' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\mcver\Desktop>cd "Dissertation folder"

C:\Users\mcver\Desktop\Dissertation Folder>cd "Software_Artefact"

C:\Users\mcver\Desktop\Dissertation Folder\Software_Artefact>python main.py
```

Once this is done the application will run prompting the user to enter a search term and asking for a number of tweets to load:

```
Command Prompt - python main.py

C:\Users\mcver\Desktop>ls
'ls' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\mcver\Desktop>cd "Dissertation folder"

C:\Users\mcver\Desktop\Dissertation Folder>cd "Software_Artefact"

C:\Users\mcver\Desktop\Dissertation Folder\Software_Artefact>python main.py
Enter Search term for Twitter Covid-19
Please enter number of tweets to load 10
```

Once selected the loaded tweets will be added into a data frame, with relevant information before asking if you would like to save the data as a csv this can be approved or denied:

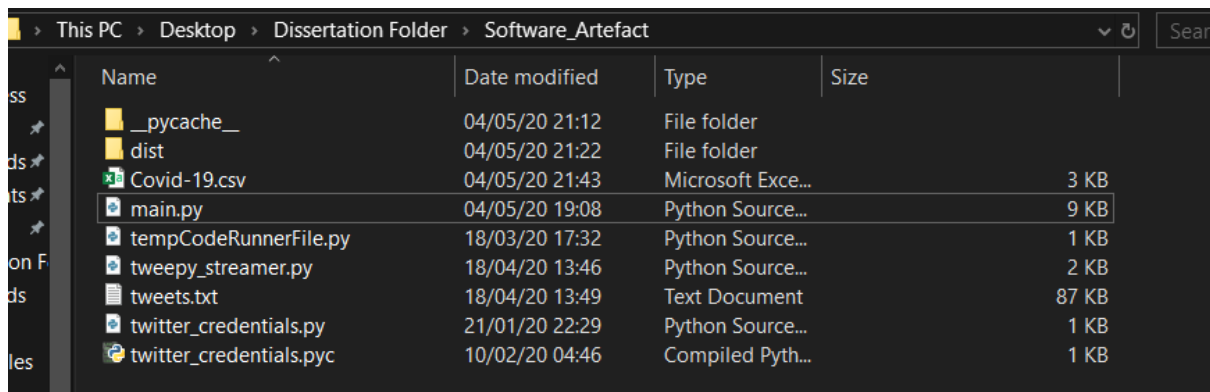
```
Command Prompt - python main.py

C:\Users\mcver\Desktop\Dissertation Folder\Software_Artefact>python main.py
Enter Search term for Twitter Covid-19
Please enter number of tweets to load 10

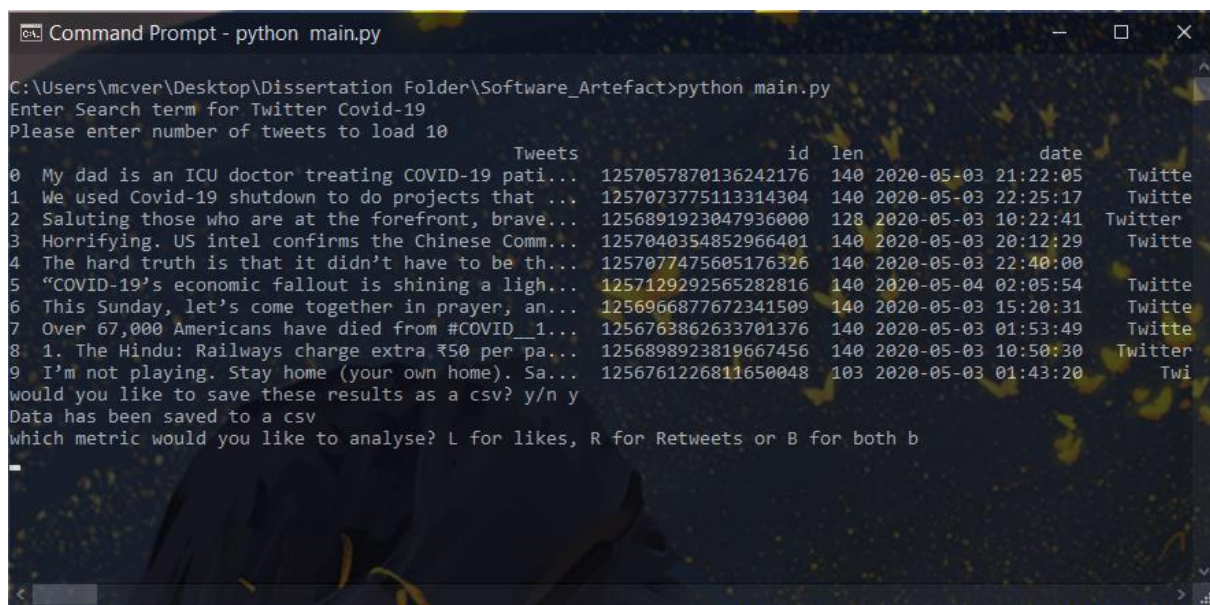
Tweets      id      len      date      source      likes      retweets      followers      verified      user      Influencer      sentiment
0  My dad is an ICU doctor treating COVID-19 pati...  1257057870136242176  140  2020-05-03  21:22:05  Twitter for iPhone  143341  56429  232478  True  bessbell  yes  Positive
1  We used Covid-19 shutdown to do projects that ...  1257073775113314304  140  2020-05-03  22:25:17  Twitter for iPhone  88913  9379  39367  True  StevenFulop  yes  Negative
2  Saluting those who are at the forefront, brave...  1256891923847936000  128  2020-05-03  10:22:41  Twitter Media Studio  89125  17314  56417244  True  narendramodi  yes  Positive
3  Horrifying, US Intel confirms the Chinese Comm...  1257040354952966401  140  2020-05-03  20:12:29  Twitter for iPhone  19766  5919  3702882  True  tederuz  yes  Negative
4  The hard truth is that it didn't have to be th...  1257077475605176326  140  2020-05-03  22:40:00  TweetDeck  36613  11271  5315218  True  JoeBiden  yes  Negative
5  "COVID-19's economic fallout is shining a ligh...  1257129292565282816  140  2020-05-04  02:05:54  Twitter for iPhone  21599  6362  4970949  True  DonaldJTrumpJr  yes  Positive
6  This Sunday, let's come together in prayer, an...  1256966877672341509  140  2020-05-03  15:20:31  Twitter for iPhone  47031  7120  8700852  True  Ivankalnump  yes  Neutral
7  Over 67,000 Americans have died from #COVID_1...  1256763802633781376  140  2020-05-03  01:53:49  Twitter for iPhone  16976  5120  1391912  True  tedlieu  yes  Negative
8  1. The Hindu: Railways charge extra ₹50 per pa...  1256898923819667456  140  2020-05-03  10:50:30  Twitter for Android  14944  5538  585308  True  AskAnshul  yes  Positive
9  I'm not playing. Stay home (your own home). Sa...  1256761226811650048  103  2020-05-03  01:43:20  Twitten Web App  39566  11643  146721  True  chicagosmayor  yes  Positive

would you like to save these results as a csv? y/n
```

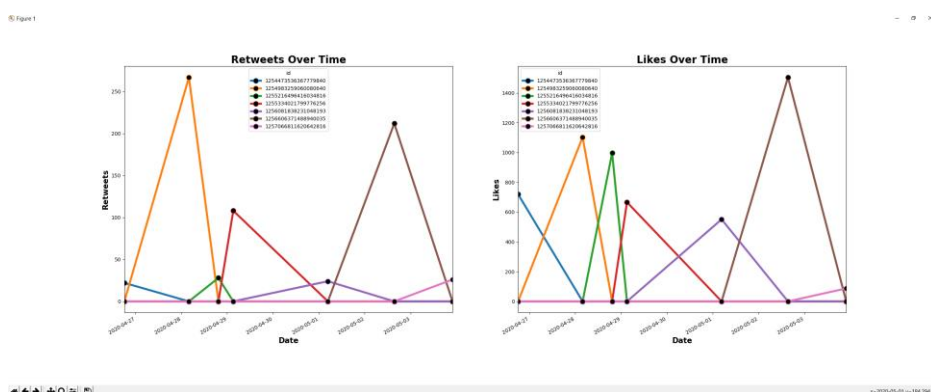
Upon answering Y the csv can be found within the application directory named after the search term used:



Once done the system will ask which metric to visualise, this can be likes retweets or both:



Upon answering a popup window with a graph displaying the metrics over time will pop up, which can be saved using the interface of the graph:



Upon completion the system will ask if you want to enter a new search term or exit

