

How to run the program?

IS 452A
Final program interpretation
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Please see my readme file posted on a public Github post here:

Part 1. Mining data by using facebook API

First, create a facebook developer account and then visit this webpage : <https://developers.facebook.com/docs/facebook-login/access-tokens/>

Access Tokens

When someone connects with an app using Facebook Login and approves the request for permissions, the app obtains an access token that provides temporary, secure access to Facebook APIs.



You can see a list of your access tokens and debugging information for each token in the [Access Token Tool](#).

An access token is an opaque string that identifies a user, app, or Page and can be used by the app to make graph API calls. Access tokens are obtained via a number of methods, each of which are covered later in this document. The token includes information about when the token will expire and which app generated the token. Because of privacy checks, the majority of API calls on Facebook need to include an access token. There are different types of access tokens to support different use cases:

After this, press the “Access Token” bottom for receiving API token:

Access Token Tool

The [user tokens](#) listed here are provided for convenience to test your apps. They [expire](#) like any other user access token and should not be hard coded into your apps. [App tokens](#) do not expire and should be kept secret as they are related to your app secret. For more information on how access tokens work and should be used, see the [documentation](#). If you want to debug an access token issue, try using the [access token debugger](#).

Ke-Rou's first app

User Token	EAAa5vIGsXhIBAMgJ0WTAJT9ZBYz0ZAqxRp0TGwj50MIUBFEVjH0cwZB0MEeXaxme62SJZBtgYE6Rj10p1NZCN9	Debug
App Token	1893069140811282 Fs--e8gVBYjGA82tLMkw8spEnxHs	Debug

Copy the “User Token” part and then paste it into the **Final_GetData.py**, line 5, then run the program.

##p.s Before running the program, the facebook package as to be installed.

After running the program, a .txt file will be out-ported.

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Part II. Getting data

For getting data, the token has to be pasted on the **Final_GetData.py** file, line 5, then the program should be able to run.

```
4 ##### change the token here #####
5 # token = 'EAAa5vIGsXhIBAHWRUZAFEl7xhXbYlP5EbuJ'
6 ##### ----- #####
7
```

After run through the program, we will receive a .txt file presented like below:

```
[{'id': '2198964263455717_2244276738924469', 'created_time': '2018-12-19T05:19:19+0000',
'comments_count': 1, 'likes_count': 2}, {'id': '2198964263455717_2243058569046286',
'created_time': '2018-12-18T08:57:49+0000', 'comments_count': 1, 'likes_count': 31},
{'id': '2198964263455717_2236827246336085', 'created_time': '2018-12-14T04:53:38+0000',
'comments_count': 5, 'likes_count': 32}, {'id': '2198964263455717_2235346313150845',
'created_time': '2018-12-13T03:32:22+0000', 'comments_count': 1, 'likes_count': 7}, {'id':
'2198964263455717_2231035146915295', 'created_time': '2018-12-10T05:37:19+0000',
'comments_count': 3, 'likes_count': 17}, {'id': '2198964263455717_2227449310607212',
'created_time': '2018-12-07T18:09:36+0000', 'comments_count': 0, 'likes_count': 24},
{'id': '2198964263455717_2218870108131799', 'created_time': '2018-12-02T02:36:38+0000',
'comments_count': 4, 'likes_count': 18}, {'id': '2198964263455717_2212359092116234',
'created_time': '2018-11-27T15:59:54+0000', 'comments_count': 0, 'likes_count': 0}, {'id':
'2198964263455717_2212288122123331', 'created_time': '2018-11-27T14:57:07+0000',
'comments_count': 1, 'likes_count': 31}, {'id': '2198964263455717_2207954242556719',
'created_time': '2018-11-24T15:25:50+0000', 'comments_count': 0, 'likes_count': 16},
{'id': '2198964263455717_2193524840666326', 'created_time': '2018-11-14T04:43:39+0000',
'comments_count': 3, 'likes_count': 47}, {'id': '2198964263455717_2192258924126251',
'created_time': '2018-11-13T07:48:09+0000', 'comments_count': 2, 'likes_count': 31},
{'id': '2198964263455717_2177421302276680', 'created_time': '2018-11-03T01:31:10+0000',
'comments_count': 4, 'likes_count': 23}, {'id': '2198964263455717_2174513589234118',
'created_time': '2018-11-01T04:00:40+0000', 'comments_count': 6, 'likes_count': 61},
{'id': '2198964263455717_2170302006321943', 'created_time': '2018-10-30T16:38:31+0000',
'comments_count': 5, 'likes_count': 40}, {'id': '2198964263455717_2163150337037110',
'created_time': '2018-10-27T00:07:57+0000', 'comments_count': 6, 'likes_count': 23},
{'id': '2198964263455717_2160147787337365', 'created_time': '2018-10-25T09:16:29+0000',
'comments_count': 0, 'likes_count': 0}, {'id': '2198964263455717_2153542437997900',
'created_time': '2018-10-20T22:03:49+0000', 'comments_count': 0, 'likes_count': 33},
{'id': '2198964263455717_2152520858100058', 'created_time': '2018-10-20T03:58:55+0000',
'comments_count': 1, 'likes_count': 0}, {'id': '2198964263455717_2150479184970892',
'created_time': '2018-10-18T14:51:18+0000', 'comments_count': 9, 'likes_count': 80},
```

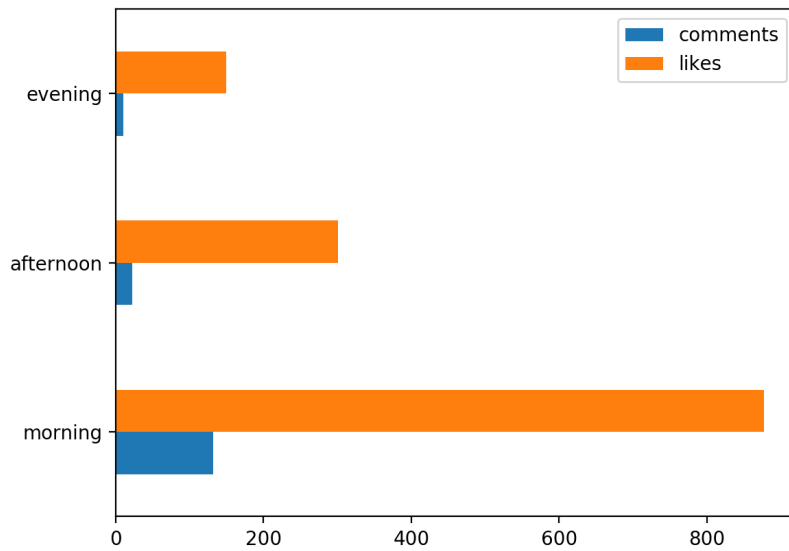
Part III. Analyzing data

For analyze data and output a bar graph, the outputted .txt file's name has to be pasted on the **Final_Analysis.py** file, line 7, then the program should be able to run.

```
6 ### change the target filename to analyze ###
7 # filename = 'Facebook_analysis.txt'
8 ### ----- ###
```

How to run the program?

After this, we should be able to receive a bar graph like this:



A Facebook comments and likes analysis program using Facebook API