------Module 1(Data Collection)------

Collection data from twitter for legitimate users

For collecting the data from twitter I am using Tweepy module

For that We need Counsumer\_KEY, Counsumer\_secret\_KEY, Access\_token, Access\_Token

That all I can get from twitter app.devloper where we need to sign in and make an account and then twitter generate the keys

After that a simple program in python can extract data from twitter in given limit by twitter.

```
In [1]: import tweepy
    import pandas as pd
    import time
    import numpy as np
    import matplotlib.pyplot as plt
    from tweepy import Stream
    from tweepy.streaming import StreamListener
    import numpy as np
    import numpy as np
    import matplotlib.pyplot as plt
    from sklearn import svm
    from sklearn.model_selection import train_test_split
    from sklearn.metrics import confusion_matrix
    from sklearn.utils.multiclass import unique_labels
```

#### **Connection Authentication**

```
In [3]: consumer_key = 'd9Ksoz6Wb1jD0mqbW8rjaSNb7'
    consumer_secret = 'pHXnVSJeLb0xaYlb0R7BWFdDNhZSF6IzegZV87qUSUqy6Qe8qG'
    access_token = '3648603434-dGRu1nHet22tdoYeqaAGoN8MyZrNw9oXZQvGZUD'
    access_token_secret = 'PZ8pcQBCb5zVPLRQNVQZc3Yzi0rz1wPef607R07gzcv0f'

auth = tweepy.OAuthHandler(consumer_key, consumer_secret)
    auth.set_access_token(access_token, access_token_secret)

api = tweepy.API(auth, wait_on_rate_limit=True)
    print(api)

<tweepy.api.API object at 0x000002050123E9A0>
```

Collecting Data list of Friends of a given screen\_name

Save data in txt file

```
In [3]:
        '''print('Name of the Friends of user')
        friends = []
        sn=['PoliceRajasthan','Uppolice','MumbaiPolice','PunjabPoliceInd','KolkataPolice','DelhiPolice','BlrCityPolice','noidapolice'
        print(len(sn))
        for name in sn:
            for friend in tweepy.Cursor(api.friends, screen_name = name).items(20):
                     friends.append(friend.screen_name)
                    print(friend.screen_name)
                    time.sleep()
                except Exception as e:
        print("Writing to file Luser...")
        with open("C:/Users/asha/Desktop/Final Year Project Phase 2/Phase 2/Dataset/luser.txt", "a") as f:
             for item in friends:
                f.write("%s\n" % item)
        print("Writed Successfully completed...")
        #output
        Name of the Friends of user
        shomarredpally
        ShoMarket
        shonarayanguda
        shomahankali
        shokulsumpura
        shokarkhana
        shokanchanbagh
        shocharminar
        shochaderghat
        shochilkalguda
        shogopalapuram
        shobegumpet
        shoafzalgunj
        shoamberpet
        Prabhamudhiraj
        rambanoth
        shocgt
        bhanu02468
        shobowenpally
        KTRTRS
        narendramodi
        WomenCid
        Writing to file Luser...
        Writed Succesfully completed...'''
```

Out[3]: 'print(\'Name of the Friends of user\')\nfriends = []\nsn=[\'PoliceRajasthan\',\'Uppolice\',\'MumbaiPolice\',\'PunjabPoliceI nd\',\'KolkataPolice\',\'DelhiPolice\',\'BlrCityPolice\',\'noidapolice\',\'igrangemeerut\',\'noidatraffic\',\'adgzonemeerut \',\'meerutpolice\',\'bulandshahrpol\',\'saharanpurpol\',\'shamlipolice\',\'hapurpolice\',\'baghpatpolice\',\'chennaipolice\_ \',\'hydcitypolice\']\nprint(len(sn))\nfor name in sn:\n for friend in tweepy.Cursor(api.friends, screen\_name = name).ite friends.append(friend.screen\_name)\n  $ms(20):\n$ try:\n print(friend.screen\_name)\n pass\n\nprint("Writing to file Luser...")\nwith open except Exception as e:\n ("C:/Users/asha/Desktop/Final Year Project Phase 2/Phase 2/Dataset/luser.txt", "a") as f:\n for item in friends:\n f.write("%s\n" % item)\nprint("Writed Succesfully completed...")\n\n\n#output\nName of the Friends of user\n19\nshomarredpal ly\nShoMarket\nshonarayanguda\nshomahankali\nshokulsumpura\nshokarkhana\nshokanchanbagh\nshocharminar\nshochaderghat\nshochi lkalguda\nshogopalapuram\nshobegumpet\nshoafzalgunj\nshoamberpet\nPrabhamudhiraj\nrambanoth\nshocgt\nbhanu02468\nshobowenpal ly\nKTRTRS\nnarendramodi\nsmittal\_ips\nshahalibanda\nshomusheerabad\nHCSC\_Hyd\nvishwa\_raghu\nChowraastaM\nNGopishetty\nravit ollywood\nKhammamCp\nPuneCityPolice\nSmitaSabharwal\npassportsevamea\nOfficeOfVKS\nTelanganaHealth\nTsspdclCorporat\nsho\_mog halpura\nCPMumbaiPolice\nOnlineBlooDonor\nspmahabubabad\nmhbdpolice\nshomadannapet\nPIBFactCheck\nghmc\_adw\nTSEduDept\nMAHal eem20\nspvikarabad\nCYBTRAFFIC\nipstelangana\nTelanganaCOPs\nMORTHRoadSafety\nTSPSCofficial\nTSMAUDOnline\nTSCSOffice\nTSCon sumers\nBlrCityPolice\nSpKothagudem\nlrvr1974\nMLA54327644\nWomenCid\nWriting to file Luser...\nWrited Succesfully complete d...'

#### Now collect 30 tweet from each user in luser file that I extracted from twitter

```
In [ ]: Total Data = []
        fo = open("C:/Users/asha/Desktop/Final Year Project Phase 2/Phase 2/Dataset/luser.txt", "r")
        f = fo.readlines()
        fo.close()
        dataset = map(lambda s: s.strip(),f)
        try:
            for datavar in dataset:
                data = api.get_user(datavar)
                counter = 0
                for status in tweepy.Cursor(api.user_timeline, id = datavar).items(30):
                         counter= counter+1
                         Total_Data.append(status)
                         time.sleep()
                    except Exception as e:
                         pass
        except Exception as e:
            pass
        print(len(Total_Data))
```

# Now from each tweet extract useful atributes that I need later for classification

```
In [5]: import urllib.parse
         import pandas as pd
         def process_http(string):
             url_count = 0
             for i in string.split():
                 s, n, p, pa, q, f = urllib.parse.urlparse(i)
                 if s and n:
                     url_count += 1
             return url_count
         def process_hashtag(string):
             hashtag count = 0
             for i in string.split():
                 s, n, p, pa, q, f = urllib.parse.urlparse(i)
                 if i[:1] == '#':
                     hashtag count += 1
             return hashtag count
         def process_mention(string):
             mention_count=0
             for i in string.split():
                 s, n, p, pa, q, f = urllib.parse.urlparse(i)
                 if i[:1] == '@':
                     mention_count += 1
             return mention_count
         def process_data(Total_Data):
             TwittID = [tweet.id for tweet in Total_Data]
             # Making the dataset in pandas frame
             Data = pd.DataFrame(TwittID, columns = ['TwittID'])
             # processing the data in Tweet Level
             Data["TextData"] = [tweet.text for tweet in Total_Data]
             Data["TweetCreatedAt"] = [tweet.created_at for tweet in Total_Data]
             Data["RetweetCount"] = [tweet.retweet_count for tweet in Total_Data]
             Data["TweetFavouriteCount"] = [tweet.favorite_count for tweet in Total_Data]
             Data["TweetSource"] = [tweet.source for tweet in Total_Data]
             # processing the data in User Graph level
             Data["UserID"] = [tweet.author.id for tweet in Total_Data]
             Data["UserScreenName"] = [tweet.author.screen_name for tweet in Total_Data]
             Data["UserName"] = [tweet.author.name for tweet in Total_Data]
             Data["UserCreatedAt"] = [tweet.author.created_at for tweet in Total_Data]
             Data["UserDescription"] = [tweet.author.description for tweet in Total_Data]
             Data["UserDescriptionLength"] = [len(tweet.author.description) for tweet in Total_Data]
             Data["UserFollowersCount"] = [tweet.author.followers_count for tweet in Total_Data]
             Data["UserFriendsCount"] = [tweet.author.friends_count for tweet in Total_Data]
             Data["UserLocation"] = [tweet.author.location for tweet in Total_Data]
             # Data["url"] = [tweet.author.url for in Total_Data]
             # Data["User_mention"] = [user_mentions.author.screen_name for tweet in Total Data]
             # Data["HashTag"] = [hashtag.text for tweet in Total_Data]
             Data["HttpCount"] = [process_http(tweet.text) for tweet in Total_Data]
             Data["HashtagCount"] = [process_hashtag(tweet.text) for tweet in Total_Data]
             Data["MentionCount"] = [process_mention(tweet.text) for tweet in Total_Data]
             Data["TweetCount"] = [tweet.author.statuses_count for tweet in Total_Data]
             return Data
         Data = process_data(Total_Data)
        Data.shape
Out[5]: (330, 19)
In [6]: |Data.tail(4)
Out[6]:
                                                                                                           UserID UserScreenName UserName
                                         TextData
                                                TweetCreatedAt RetweetCount TweetFavouriteCount TweetSource
                                             RT
                                 @shailylPSspeaks:
                                                     2019-11-05
                                                                                                                                       IPS
                                                                                                Twitter for
         326 1191764131088437248
                                                                       13
                                                                                          0
                                                                                                        371293553
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                                                                                                                                   YAMUNA
                                 We have seen this.
                                                       17:08:05
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                                         We hav...
                                  RT @jatinnarwal1:
                                                     2019-11-05
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             1191763983344140288
                                  Its not about which
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                                                                                          0
                                                                                                        371293553
                                                                                                                       pihuprasad
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                                                       17:07:30
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                                        professi...
                                  RT @Hii_VT: Let's
                                                     2019-11-05
                                                                                                                                      IPS
                                                                                                Twitter for
                                                                                                        371293553
         328 1191763742935019522
                                   learn how to burn
                                                                       12
                                                                                          0
                                                                                                                       pihuprasad
                                                       17:06:32
                                                                                                 Android
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                                             RT
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                                 condemn incident...
```

#### Save data in csv\_files in Leg\_user.csv

In [7]: import sys
# Saving data with item space separating
Data.to\_csv('C:/Users/asha/Desktop/Final Year Project Phase 2/Phase 2/Dataset/Leg\_user.csv', sep=',' , encoding='utf8')

extracting Spam data from twitter by searching @spam and find out the user for reported that hypothesis is that there is highly chances is that that user be fake

We can later analyse by text any volgor word and find our later first like legitimate user we have to collect data for spammer too

```
"""# printing all the friends names of the user
In [12]:
         friends = []
         class listener(StreamListener):
             def on_data(self, data):
                 try:
                     tweet = data.split(',"screen_name":"')[1].split('","location')[0]
                     friends.append(tweet)
                     return True
                 except BaseException as e:
                     print('failed on data' + str(e))
                     time.sleep(5)
             def on_error(self, status):
                 print(status)
         twitterStream = Stream(auth, listener())
         try:
             for x in range(1,10):
                 twitterStream.filter(track=["cougar"])
         except KeyboardInterrupt:
             print("Key board interuption")
         with open("C:/Users/asha/Desktop/Final Year Project Phase 2/Phase 2/Dataset/suser.txt", "w") as f:
              for item in friends:
                 f.write("%s\n" % item)
         output:
         josef_morasch
         hyenafluff
         MattLov14455762
         HerFabulousWays
         ShatteredReaper
         HornyScotsman98
         kfkffmdm
         kfkffmdm
         MdmMcCoy
         bradley33885052
         pollo0014
         tribink1
         MattLov14455762
         kyte_dave
         uDerThehOod
         Steffff32720432
         kfkffmdm
         eli_boggs
         _vaeXvae
         reno7817
         reno7817
         Emir20665707
         reno7817
         pollo0014
         carloshdez21
         Sara19275758
         CTG_tsutsumi
         pollo0014
         {\tt JDublim}
         ctg_machida
         Roberto441220
         OkomeeRice
         profbadoor
         pollo0014
         SlaveTraderJoes
         Amstron66093131
         Masterxii1_4
         Sexypro30863666
         Onlyfan13594367
         1st1966
         huggyair
         RosePro47247034
         Steffff32720432
         pollo0014
         cougarmilfclub
         JDublim
         masterbooblover
         Alex1little
         Dutch_DPP
         urbandictionary
         nicolas64091667
         luiginked
         nicolas64091667
         mommatiff3
         mommatiff3
         streitzfrank
         pollo0014
         beatsbygibbs
         noel6132
         lionloins
         LisaCochonne
         pollo0014
         JOHNMcILHONE2
         BLOODSADx
         PauldingRadio
```

justasksam3 OGKING04987433 winekunTM LuisEnri4400004 WhenSus8 alexand19024887 pollo0014 BbcRon\_ **PipPromos** bassshake Para\_Dox207 winekunTM LopedeVegan269 piranhajams tytheestallio KevinBr96780686 CougargamingE flvwrboy LouisePixie1 alexabrines pollo0014 Markanthony315 tytheestallio cougar\_an naughtysussex Christi07528537 Gsanchez7821 pollo0014 doodlebug247 ps236236 ps236236 hornynigga1521 saveurdesiles28 1041zion oozytube geezporn saveurdesiles28 joohwangblink EDG\_Group browniej45 saveurdesiles28 joohwangblink browniej45 browniej45 browniej45 browniej45 browniej45 browniej45 saveurdesiles28 browniej45 browniej45 browniej45 RootNationUA browniej45 browniej45 browniej45 justasksam3 browniej45 CurvesDelicious browniej45 browniej45 browniej45 pollo0014 TrylineUK BaidinNoer boobhunters1 browniej45 33Metalson AzurisDraws pollo0014 GregMooney2 justasksam3 mllgigi Nasser61597438 Itsimim SamJenk60032204 pollo0014 Hah52059025 BbcRon\_ thibodeaux\_nora PPPvideos1

scully29jamie Hah52059025 turtletesticles pollo0014 ninacelibataire adoptunecougar opium65 pornlegendsclub cougarmilfclub Tightrope\_Postm Baddies74810961 tazats1 TigerShoutout SH63927626 1041zion sexxebuddah69 pollo0014 slo159 InsaMarquez oozytube geezporn truckpornxxx Ben00182369 olddrive69 Paradise000x himansu92239715 cmu\_Eleasar mjohns2444 saveurdesiles28 wvmilfhunter pollo0014 mjohns2444 mjohns2444 oozytube geezporn Daniel S013 KinkyCuriousHo1 Daniel\_S013 PervertDiaries WifeisBitchPorn oozytube geezporn pollo0014 DOpararaeKWS Aaronnowak14 oozytube geezporn nate221217 Recaster20 oozytube geezporn pollo0014 fast\_girlswild SilverSeductres donne\_mature BbcRon\_ TheGILFNextDoor james68402115 ktdenise TheFallenLady\_ ovelhaJorge pollo0014 Qazi04968557 WiccaNymph mac2002 Socrate90341168 johnlamanna3 mpwCfbFldSQ0ZTA ZGLiraxD16 WAVMedia Hornybo68150984 pollo0014 IrisScarpinelli Infr3quentAddik Aaronnowak14 unuucla Srinu50041745 Srinu50041745 louisejacksonuk Andy\_Lifeguard Ym78200 meghan\_aleo Asuro\_Fluid Uhmmm26387032 Asuro\_Fluid acupof\_TAY ballc21 cougarmilfclub pollo0014 sindra38503651 stevenhead38 blindromance\_ Canijo74474417

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rdvlibertins
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HErottico
JamesALogan1
BenoitJoris
Gio58652487
18Beastman
JacobStockGuru
BriW74
kamdiv49
Emir20665707
Emir20665707
Belzouille1
AndeeSC2
KPromention
PassionCougar
promotion_feet
SexyPro18754447
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hellsivle
pollo0014
carolbaker10023
jay818jay
Alendil_fr
ESPINARjos2
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MurphyDuke_
MurphyDuke_
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jav_superfan"""
```

Out[12]: '# printing all the friends names of the user \n\nfriends = []\nclass listener(StreamListener):\n def on data(self, dat tweet = data.split(\',"screen\_name":"\')[1].split(\'","location\')[0]\n a):\n print(twee except BaseException as e:\n t)\n friends.append(tweet)\n return True\n print(\'fail def on error(self, status):\n print(status)\n\ntwitterStream = ed on data\' + str(e))\n time.sleep(5)\n twitterStream.filter(track=["cougar"])\nexcept KeyboardIn Stream(auth, listener())\ntry:\n for x in range(1,10): $\n$ print("Key board interuption")\nwith open("C:/Users/asha/Desktop/Final Year Project Phase 2/Phase 2/Dataset/su ser.txt", "w") as f:\n for item in friends:\n f.write("%s\n" % item)\n \noutput:\njosef\_morasch\nhyenafluf f\nMattLov14455762\nHerFabulousWays\nShatteredReaper\nHornyScotsman98\nkfkffmdm\nkfkffmdm\nMdmMcCoy\nbradley33885052\npollo0 014\ntribink1\nMattLov14455762\nkyte\_dave\nuDerThehOod\nSteffff32720432\nkfkffmdm\neli\_boggs\n\_vaeXvae\nreno7817\nreno7817\n Emir20665707\nreno7817\npollo0014\ncarloshdez21\nSara19275758\nCTG\_tsutsumi\npollo0014\nJDublim\nctg\_machida\nRoberto441220  $\n 0 kome e Rice \\n profbadoor \\n pollo 0 0 1 4 \\n Slave Trader Joes \\n Amstron 6 6 0 9 3 1 3 1 \\n Master xii 1\_4 \\n Sexypro 3 0 8 6 3 6 6 6 \\n On ly fan 1 3 5 9 4 3 6 7 \\n 1 5 t 1 9 6 \\n 1 5 t 1 9 6 \\n 2 5 t 1 9 6 \\n 3 5 t 1 9 6 \\n 4 5 t 1 9 6 \\n 5 t 1 9 6 \\n 5 t 1 9 6 \\n 6 5 t 1 9 6 \\n 6 5 t 1 9 6 \\n 7 5 t 1 9 6 \\n 7 5 t 1 9 6 \\n 7 5 t 1 9 6 \\n 8 5 t 1 9 6 \\n$ 66\nhuggyair\nRosePro47247034\nSteffff32720432\npollo0014\ncougarmilfclub\nJDublim\nmasterbooblover\nAlex1little\nDutch\_DPP  $\nurbandictionary\\nnicolas 64091667\\nluiginked\\nnicolas 64091667\\nmommatiff3\\nmommatiff3\\nstreitzfrank\\npollo0014\\nbeatsbygibb$ s\nnoel6132\nlionloins\nLisaCochonne\npollo0014\nJOHNMcILHONE2\nBLOODSADx\nPauldingRadio\njustasksam3\nOGKING04987433\nwinek unTM\nLuisEnri4400004\nWhenSus8\nalexand19024887\npollo0014\nBbcRon\_\nPipPromos\nbassshake\nPara\_Dox207\nwinekunTM\nLopedeVe  $gan 269 \\ npiranhajams \\ nty the estallio \\ nKevin Br 96780686 \\ nCougar gaming \\ E \\ nflvwrboy \\ nLouise \\ Pixie 1 \\ nalexabrines \\ npollo 0014 \\ nMarkanthing \\ nflvwrboy \\ nLouise \\ Pixie 1 \\ nalexabrines \\ npollo 0014 \\ nMarkanthing \\ nflvwrboy \\ nLouise \\ Pixie 1 \\ nalexabrines \\ npollo 0014 \\ nMarkanthing \\ nflvwrboy \\ nLouise \\ Pixie 1 \\ nalexabrines \\ npollo 0014 \\ nMarkanthing \\ nflvwrboy \\ nLouise \\ Pixie 2 \\ nflvwrboy \\ nLouise \\ nflvwrboy \\ nLouise \\ nflvwrboy \\ nflvwr$ ony315\ntytheestallio\ncougar\_an\nnaughtysussex\nChristi07528537\nGsanchez7821\npollo0014\ndoodlebug247\nps236236\nps236236 \nhornynigga1521\nsaveurdesiles28\n1041zion\noozytube\ngeezporn\nsaveurdesiles28\njoohwangblink\nEDG\_Group\nbrowniej45\nsave 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rn\nDaniel\_S013\nKinkyCuriousHo1\nDaniel\_S013\nPervertDiaries\nWifeisBitchPorn\noozytube\ngeezporn\npollo0014\nD0pararaeKWS \nAaronnowak14\noozytube\ngeezporn\nnate221217\nRecaster20\noozytube\ngeezporn\npollo0014\nfast\_girlswild\nSilverSeductres\n donne mature\nBbcRon \nTheGILFNextDoor\njames68402115\nktdenise\nTheFallenLady \novelhaJorge\npollo0014\nQazi04968557\nWicca Nymph\nmac2002\nSocrate90341168\njohnlamanna3\nmpwCfbFldSQOZTA\nZGLiraxD16\nWAVMedia\nHornybo68150984\npollo0014\nIrisScarpi nelli\nInfr3quentAddik\nAaronnowak14\nunuucla\nSrinu50041745\nSrinu50041745\nlouisejacksonuk\nAndy\_Lifeguard\nYm78200\nmegha  $n\_aleo \\ nAsuro\_Fluid \\ nUhmmm26387032 \\ nAsuro\_Fluid \\ nacupof\_TAY \\ nballc21 \\ ncougarmilfclub \\ npollo0014 \\ nsindra38503651 \\ nstevenhead3$ 8\nblindromance\_\nCanijo74474417\npollo0014\nrdvlibertins\npollo0014\nHErottico\nJamesALogan1\nBenoitJoris\nGio58652487\n18B eastman\nJacobStockGuru\nBriW74\nkamdiv49\nEmir20665707\nEmir20665707\nBelzouille1\nAndeeSC2\nKPromention\nPassionCougar\npr  $omotion\_feet \\ nS exy Pro18754447 \\ ndreins chis spur\\ nhell sivle\\ npollo 0014\\ ncar olbaker 10023\\ njay 818 \\ jay\\ nAlendil\_fr\\ nESPINAR \\ jos 2\\ nStandard \\ notion\_feet\\ notion\_feet\\$ adiumPrint\ncougar\_an\nMurphyDuke\_\nMurphyDuke\_\nMurphyDuke\_\nfuninlillian\njav\_superfan'

```
In [4]: Total_Data = []
        fo = open("C:/Users/asha/Desktop/Final Year Project Phase 2/Phase 2/Dataset/suser.txt", "r")
        f = fo.readlines()
        fo.close()
        dataset = map(lambda s: s.strip(),f)
            for datavar in dataset:
                data = api.get_user(datavar)
                counter = 0
                for status in tweepy.Cursor(api.user_timeline, id = datavar).items(10):
                    try:
                        counter= counter+1
                        Total_Data.append(status)
                        print(Total_data)
                        time.sleep()
                    except Exception as e:
                        pass
        except Exception as e:
        print(len(Total_Data))
```

### Now from tweet extract useful atributes

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```
In [20]: import urllib.parse
         import pandas as pd
         def process_http(string):
             url_count = 0
             for i in string.split():
                 s, n, p, pa, q, f = urllib.parse.urlparse(i)
                 if s and n:
                     url_count += 1
             return url_count
         def process_hashtag(string):
             hashtag_count = 0
             for i in string.split():
                 s, n, p, pa, q, f = urllib.parse.urlparse(i)
                 if i[:1] == '#':
                     hashtag count += 1
             return hashtag count
         def process_mention(string):
             mention count=0
             for i in string.split():
                 s, n, p, pa, q, f = urllib.parse.urlparse(i)
                 if i[:1] == '@':
                     mention_count += 1
             return mention_count
         def process_data(Total_Data):
             TwittID = [tweet.id for tweet in Total_Data]
             # Making the dataset in pandas frame
             Data = pd.DataFrame(TwittID, columns = ['TwittID'])
             # processing the data in Tweet Level
             Data["TextData"] = [tweet.text for tweet in Total_Data]
             Data["TweetCreatedAt"] = [tweet.created_at for tweet in Total_Data]
             Data["RetweetCount"] = [tweet.retweet_count for tweet in Total_Data]
             Data["TweetFavouriteCount"] = [tweet.favorite count for tweet in Total Data]
             Data["TweetSource"] = [tweet.source for tweet in Total_Data]
             # processing the data in User Graph level
             Data["UserID"] = [tweet.author.id for tweet in Total_Data]
             Data["UserScreenName"] = [tweet.author.screen_name for tweet in Total_Data]
             Data["UserName"] = [tweet.author.name for tweet in Total_Data]
             Data["UserCreatedAt"] = [tweet.author.created at for tweet in Total Data]
             Data["UserDescription"] = [tweet.author.description for tweet in Total_Data]
             Data["UserDescriptionLength"] = [len(tweet.author.description) for tweet in Total_Data]
             Data["UserFollowersCount"] = [tweet.author.followers_count for tweet in Total_Data]
             Data["UserFriendsCount"] = [tweet.author.friends_count for tweet in Total_Data]
             Data["UserLocation"] = [tweet.author.location for tweet in Total_Data]
             # Data["url"] = [tweet.author.url for in Total_Data]
             # Data["User_mention"] = [user_mentions.author.screen_name for tweet in Total_Data]
             # Data["HashTag"] = [hashtag.text for tweet in Total_Data]
             #Data["HttpCount"] = [process_http(tweet.text) for tweet in Total_Data]
             #Data["HashtagCount"] = [process_hashtag(tweet.text) for tweet in Total_Data]
             #Data["MentionCount"] = [process_mention(tweet.text) for tweet in Total_Data]
             #Data["TweetCount"] = [tweet.author.statuses_count for tweet in Total Data]
             return Data
         Data = process_data(Total_Data)
         Data.head()
```

Out[20]:	TwittID	TextData	TweetCreatedAt	RetweetCount	TweetFavouriteCount	TweetSource	UserID	UserScreenName	Use
	<b>0</b> 1396764493443698695	Okay Babe https://t.co/8ft3uj3UWc	2021-05-24 09:46:20	0	0	Twitter Web App	1084687742032924674	josef_morasch	N
	<b>1</b> 1396763990424948736	Yes Babe https://t.co/HtlTsLdbDo	2021-05-24 09:44:20	0	0	Twitter Web App	1084687742032924674	josef_morasch	N
	<b>2</b> 1396763678498869251	RT @kscpl88_91: Hope everyone had a great #Sun	2021-05-24 09:43:06	11	0	Twitter Web App	1084687742032924674	josef_morasch	V
	<b>3</b> 1396763521283760129	Undress your panty then its perfect https://t	2021-05-24 09:42:28	0	0	Twitter Web App	1084687742032924674	josef_morasch	V
	<b>4</b> 1396763261480144898	You are to fare https://t.co/dYhRDiTuEa	2021-05-24 09:41:26	0	0	Twitter Web App	1084687742032924674	josef_morasch	N

## To save spam user in suser.csv

```
In [23]: # Saving data with item space separating
         Data.to_csv("C:/Users/asha/Desktop/Final Year Project Phase 2/Phase 2/Dataset/Spam_user.csv", sep=',' , encoding='utf8')
```

In [ ]: