EXPERIMENT NO 2

COLLECTING & SAVING TWITTER DATA

```
1. DOWNLOADING THE TWITTER DATA
In [1]:
         # Importing Libraries
         import tweepy as tw
         import pandas as pd
         import numpy as np
In [2]:
         # gathering the consumer key and secret
         api key = 'iR8RR78dKB5Cji5RikrPacFYC'
         api key secret = '3VnG6gZRPzP4EF2bEZAeUXFb1LVXZWZ1J4HYb4JuWAAK5LMNit'
         access token = '797899482566369280-EERRBmQbu2H8EqTAfUQoDJSweO8U3Kb'
         access token secret = 'IxEx60W5d7MtOaW8ZW57bkAlff5t70IPoE01yldyzPwlB'
In [3]:
         # searching keyword name
         search words = "#Budget2022"
         # searching number of tweets
         number posts = 1000
In [4]:
         # using the Oauth for accessing tweets
         auth = tw.OAuthHandler(api_key, api_key_secret)
         auth.set access token(access token, access token secret)
         api = tw.API(auth, wait on rate limit=True)
In [5]:
         # downloading the tweets
         tweets = tw.Cursor(api.search_tweets, q=search_words,
                            lang='en').items(number posts)
         # list to store downloaded data
         tweets_text = []
         # downloading diffrent attributes
         for tweet in tweets:
             tweets text.append([
                tweet.user.screen_name, tweet.user.name, tweet.user.description,
                 tweet.text, tweet.user.location, tweet.user.followers count,
                 tweet.source, tweet.created_at, tweet.user.friends_count
             ])
       2.STORING THE DOWNLOADED DATA
In [6]:
         # storing tweet data
         tweet data = pd.DataFrame(tweets text,
                                        "User Name", "Name", "Description (Status)",
                                        "Tweets Posted", "Location", "No of Followers",
                                        "Device Used for Tweet",
                                        "Date of Tweet Creation", "No of Friends"
                                    ])
         # starting few tweet data
         tweet_data
Out[6]:
                                                                                                Device
                                                                                                                    No of
                                                                                                       Date of Tweet
                                                                                       No of
                 User_Name
                              Name
                                   Description (Status)
                                                             Tweets Posted
                                                                            Location
                                                                                               Used for
                                                                                    Followers
                                                                                                           Creation Friends
                                                                                                Tweet
                                                          RT @satishacharya:
                             Adarsh
                                                                                                         2022-02-07
                                                                                              Twitter for
          0
                AdarshPallav
                                                        Blueprint for 25 years!
                                                                                                                       38
                              Pallav
                                                                                               Android 07:11:43+00:00
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```

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Latest news on the
                                                                 #BSMorningShow | Will
                                                                                                                                      2022-02-07
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                                                                                                   India
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                            Standard
                                                                #RBI go for a hike in re...
                                                                                                                                   07:11:00+00:00
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                                                                  #BSMornigShow | Will
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                                                on security...
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                                                                   RT @IncomeTaxIndia:
                               विक्रम
                                               सहेयक आचार्य
                                                                                                                       Twitter for
                                                                                                                                      2022-02-06
        VikramB12Singh
                                                                                               छत्तीसगढ,
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                                        (Assistant Professor)
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                                                                #Budget2022 #Congress
                            Rational
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                                                                                                                                      2022-02-06
996
        TheRationalDesi
                                                                 #BJPHataoDeshBachao
                                                                                                                  0
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                                One
                                                                                                                        Web App 16:54:16+00:00
                                                                                 #UPE...
                                                                                             जांजगीरचांपा
                                                                     RT @cbic_india: Key
                               विक्रम
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                                                                                                                                      2022-02-06
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                                                                                               छत्तीसगढ,
                                                                     highlights of Union
                                                                                                                                                      2205
997
        VikramB12Singh
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                           बहादुर सिंह
                                        (Assistant Professor)
                                                                                                                                  16:51:46+00:00
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                                                                                               भरतखण्ड
                                                                               Budget...
                                       भारतीय जनता युवा मोर्चा
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                                                               RT @blsanthosh: 400 new
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        Vishalk23312052
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                                         Being sarcastic and
                          Vibhanshu
                                                              RT @thebubblebuste1: My
                                                                                                                                      2022-02-06
                                                                                                                       Twitter for
      Vibhans28836256
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                                          truthful are deadly
                                                                                            Seoni, India
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                              Mishra
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                                                                                                                        Android
                                                                                                                                  16:51:16+00:00
                                                    and cr...
1000 rows × 9 columns
```

```
In [7]:
         # collected data information
        tweet data.info()
        <class 'pandas.core.frame.DataFrame'>
        RangeIndex: 1000 entries, 0 to 999
        Data columns (total 9 columns):
             Column
                                     Non-Null Count Dtype
         0
             User_Name
                                     1000 non-null
                                                      object
        1
                                     1000 non-null
                                                      object
             Name
                                     1000 non-null
         2
             Description (Status)
                                                      object
             Tweets Posted
                                     1000 non-null
         3
                                                      object
                                     1000 non-null
         4
             Location
                                                      object
         5
             No of Followers
                                     1000 non-null
                                                      int64
                                     1000 non-null
         6
             Device Used for Tweet
                                                      object.
                                                      datetime64[ns, UTC]
         7
             Date of Tweet Creation 1000 non-null
                                     1000 non-null
             No of Friends
                                                      int64
        dtypes: datetime64[ns, UTC](1), int64(2), object(6)
        memory usage: 70.4+ KB
In [8]:
         # saving the data as csv file
        tweet_data.to_csv(
             '/DOCUMENTS/COLLEGE/CLASSES/EXPERIMENT_NO_2/tweet_data_preprocess.csv')
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