```
# This Python 3 environment comes with many helpful analytics
 libraries installed# It is defined by the kaggle/python Dock
er image: https://github.com/kaggle/docker-python# For exampl
e, here's several helpful packages to load

import numpy as np # linear algebraimport pandas as pd # data
 processing, CSV file I/O (e.g. pd.read_csv)

# Input data files are available in the read-only "../input/"
 directory# For example, running this (by clicking run or pre
ssing Shift+Enter) will list all files under the input direct
ory

import osfor dirname, _, filenames in os.walk('/kaggle/input
'):

    for filename in filenames:

        print(os.path.join(dirname, filename))

# You can write up to 20GB to the current directory (/kaggle/
working/) that gets preserved as output when you create a ver
sion using "Save & Run All" # You can also write temporary fi
les to /kaggle/temp/, but they won't be saved outside of the
current session
```

```
/kaggle/input/train-sentiment-analysiscsv/train.sentiment analysis.csv

/kaggle/input/test-1-sentimentanalysis/test sentiment analysis.csv
```

Twitter Sentiment Analysis

> This kernel is the solution for the challenge launched by School of AI - Algiers, which consist of building a system that can classify tweets as Sad or Happy.

1. Solution

   We will start by reading some tweets so we can understand our data better. We will then try to transform our tweets into something usable by different ML models, where we are going to choose the more efficient. We will finally fine tune our model and then test it to see its efficiency on new data.

Update

After getting some comments on the School of AI - Algiers group, especially from Belkacem, I updated the following:

I used lemmatization instead of steaming I also noticed that I was mistaken when I stopped the max_features parameter at 20000 while doing GridSearch, I should have tested a bigger one, because *if it stopped at 20000 (which is the max), it may get better using a bigger one. I just added None (no limit).*

Content

Load the data

In [2]:

```
import numpy as npimport pandas as pd

# This is for making some large tweets to be displayedpd.options.display.max_colwidth = 100

# I got some encoding issue, I didn't knew which one to use !
# This post suggested an encoding that worked!# https://stackoverflow.com/questions/19699367/unicodedecodeerror-utf-8-codec-cant-decode-bytetrain_data = pd.read_csv("/kaggle/input/train-sentiment-analysiscsv/train.sentiment analysis.csv")
```

In [3]:

```
train_data
```

Out[3]:

	ItemID	Sentiment	SentimentText
0	1	0	is so sad for my APL friend.............
1	2	0	I missed the New Moon trailer...
2	3	1	omg its already 7:30 :O

	ItemID	Sentiment	SentimentText
3	4	0	.. Omgaga. Im sooo im gunna CRy. I've been at this dentist since 11.. I was suposed 2...
4	5	0	i think mi bf is cheating on me!!! T_T
...	...	...	...
99984	99996	0	@Cupcake seems like a repeating problem hope you're able to find something.
99985	99997	1	@cupcake__ arrrr we both replied to each other over different tweets at the same time , i'll se...
99986	99998	0	@CuPcAkE_2120 ya i thought so
99987	99999	1	@Cupcake_Dollie Yes. Yes. I'm glad you had more fun with me.
99988	100000	1	@cupcake_kayla haha yes you do

99989 rows × 3 columns

Visualize the tweets

From the tweets above, we can already make some remarks about the data:

> We can see that there is some garbage like '&amp', '&lt' (which are basically used in HTML) that aren't gonna help us in our classification
>
> In twitter, people mention their friends with tags like @username, there is a lot of them in our data. I was discussing with a friend about the usefulness of tags in our classification, for him, people tend to mention more friends when they are happy, but I think that people may mention people because they made bad things. When we face this kind of uncertainty, it's better to try the different options and evaluate which will do well, this is what we are gonna do.

In [4]:

```
# We will now take a look at random tweets# to gain more insi
ghts

rand_indexs = np.random.randint(1,len(train_data),50).tolist()
train_data["SentimentText"][rand_indexs]
```

Out[4]:

```
56509                                                     @BDEugenio why would you do such a thing
 and leave me

62551    @blakeleray There's no way  You can't see what messages she reads.On her page you jus
t see what ...

10702                                                  &quot;When i love you a little less than be
fore...&quot;

65372           @brenda_song HI Brenda! How are you? I start exams tomorow.  btw ur Amazing! L
ove ya!  Xxxxx

30032                  @adamsmith I saw a lobster-colored woman at church this morning and tho
ught of you.

46789                                    @AprilRainer aaaaaahhhhhhhh is that new tonight? my tv guide
 says its not
```

```
51235                                                                        @ashleyann2009 i 
loveeeers you

34862    @alagu There is hi chnce dat TN nuclear facility may be visible now .. As GooG update
d images - ...

90181                                                      @babyguuuurl awww reunited and it f
eel soo good!

74312                                                             @caramelflavored hahah the p
owers of dana

82923                                   @caseyahf Maybe? No? K. I'll just sit here alone. And 
hum to myself

52396                     @avidbookreader Cronenberg directed The Thing? No, he didn't. John C
arpenter did.

17436                                                                            @__sugar aww 
what's wrong?

32217                      @Ali_Sweeney Thanks for sharing your pics from the photo shoot. Loo
ked like fun!

85588                                        @chrisfreeman LOL I'm following u now too! Night 
new friiiend!

67825                                                                        @BoobooBest I can
't find it...

33739                                                    @airbagged im so broke!!! i would oth
erwise though

4462                                                                                          #
andyhurleyday

32677                                                               @agoldenberg it was on my 
micro SD card

54996            @bannersrus Good to know!  Clouds and expected rain here   Enjoy your beauty 
of a day tho!!

12267            *in giddy voice* OH MY GOSH!!! The cute severe thunderstorm is headed this wa
y!!!!  BOOM!!!

70629                     @Butterfly_Sing awwww poor kya... that sucks  do ya plan to get anot
her pet later?

6154                        #ipv6summit - yes Windows OS has &quot;power shell&quot;!! weeeee 
- how useless

96497                                                 @crsimp01 Always fun to just get out. Go
lf or no golf

28851                                 @AJMIX969 sorry to hear about ur date, people just suck 
sometimes.

56590                                                                          @BeachNYC09 ye
aaaah you do!

80481                                   @chaoskittypie *flys to Scotland, goes to lowri's hous
e, kills fly*

45356    @anotherojplease I think Kelz, as well as myself, were doomed from the very beginning,
 regardles...

32617                                                  @AgingBackwards lol!  thanks.. I laughe
d! needed that
```

```
77399    @C3Mike Its out next week! Codemasters really isn't doing a good job of getting the w
ord out. I'...

2598                                                                 i feel like such a loser.
  i hate hills

4478                           #asot400 he said video should be up... but it is not.  Lovin' t
he audio, tho!

46550                    @aplusk Ashton can you explain to me what R and B means please as I 
am in the I'm

77978                                                                     @CAGEosaurus Hey,
 how are you?

61501                                                     @billmelater Lucky bastard!  Tell
 us how it is

90649                                      @backstreetboys We miss seeing the Panic dance i
n Canada  #BSB

55718          @babychoops denver to laguna beach to the hills, at least shes moving in the ri
ght direction

92480    @chrisivens we had that yesterday too!  some microsoft update got applied automatical
ly and it w...

23843    @abhishek Yes thank God for that - It's Raining and hopefully will continue to do so 
throughout ...

55262    @BarkingDogShoes I hear ya! I made my own... Wouldn't be able to drag myself out of t
he house wi...

23988                                       @1Superstar We're going to be good friends...Lo
l....Love ya!

31277                                                                 @aeroplanes IKR? It 
was terrible.

98907                                                                        @CoverFX Hello!
 How are you?

73772      @Candypants2 not quitting taking a break that's, personal crap, things have been sh
aky on my end

29909                                                     @adamlawlz its how u love me now 
by hey monday

80442                                @CareerDesign you're so welcome     #PersonalBranding
 #FollowFriday

24895     @33girl hehehe  Wasn't sure if that would offend or not, purely fun from my perspect
ive!  MEMBER!

31320    @AlexanderNixon always friendly ;-) Late answer but no more computer   My mac died...
 Trying to ...

57752                                                                               @AMyburg
h No problem.

91131                               @Chloii14  did Katie tell you about that amazing new s
how on living?

Name: SentimentText, dtype: object
```

Note

you will not have the same results at each execution because of the randomization. For me, after some execution, I noticed this:

There is tweets with a url (like tweet 35546): we must think about a way to handle URLs, I thought about deleting them because a domain name or the protocol used will not make someone happy or sad unless the domain name is 'food.com'.

The use of hashtags: we should keep only the words without '#' so words like python and the hashtag '#python' can be seen as the same word, and of course they are. Words like 'as', 'to' and 'so' should be deleted, because they only serve as a way to link phrases and words

Emoticons

The internet language includes so many emoticons, people also tend to create their own, so we will first analyze the emoticons included in our dataset, try to classify them as happy and said, and make sure that our model know about them.

In [5]:

```
# We are gonna find what emoticons are used in our datasetimp
ort retweets_text = train_data.SentimentText.str.cat()emos =
set(re.findall(r" ([xX:;][-']?.) ",tweets_text))emos_count =
[]for emo in emos:

    emos_count.append((tweets_text.count(emo), emo))sorted(em
os_count,reverse=True)
```

Out[5]:

```
[(3281, ':/'),

 (2874, 'x '),

 (2626, ': '),

 (1339, 'x@'),

 (1214, 'xx'),

 (1162, 'xa'),

 (984, ';3'),

 (887, 'xp'),

 (842, 'xo'),

 (713, ';)'),

 (483, 'xe'),

 (431, ';I'),

 (353, ';.'),

 (254, 'xD'),

 (251, 'x.'),
 (245, '::'),

 (234, 'X '),

 (217, ';t'),

 (209, ';s'),

 (185, ':O'),

 (176, ':3'),

 (166, ';D'),

 (159, ":'"),

 (157, 'XD'),

 (146, 'x3'),

 (142, ':p'),

 (126, ":'("),

 (118, ':@'),

 (117, 'xh'),

 (117, ':S'),

 (109, 'xm'),

 (104, ';p'),

 (104, ';-)'),

 (92, ':|'),

 (91, 'x,'),

 (89, ';P'),

 (76, 'xd'),

 (75, ';o'),

 (75, ';d'),

 (71, ':o'),

 (65, 'XX'),

 (63, ':L'),

 (59, 'Xx'),

 (59, ':1'),

 (58, ':]'),

 (57, ':s'),

 (56, ':0'),

 (54, 'XO'),
 (44, ';;'),

 (43, ';('),

 (38, ':-D'),

 (37, 'xk'),

 (36, 'XT'),

 (35, 'x?'),

 (35, 'x)'),

 (34, 'x2'),

 (33, ';/'),

 (32, 'x:'),

 (32, ':\\'),

 (31, 'x-'),

 (27, 'Xo'),

 (27, 'XP'),

 (27, ':-/'),

 (26, ':-P'),

 (25, ':*'),

 (23, 'xX'),

 (22, ":')"),

 (17, 'xP'),

 (16, ':['),

 (16, ':-p'),

 (14, 'x]'),

 (14, 'XM'),

 (13, ':-O'),

 (12, 'x('),

 (12, 'X1'),

 (12, ':x'),

 (11, 'XS'),

 (11, ':l'),

 (10, 'x*'),

 (10, 'X.'),

 (10, ':b'),
 (10, ':T'),

 (9, ';]'),

 (9, ':I'),

 (8, ':C'),

 (7, ';-('),

 (7, ':-|'),

 (6, 'X,'),

 (6, ':-o'),

 (6, ':-\\'),

 (6, ':-*'),

 (6, ':$'),

 (5, 'XL'),

 (5, ':d'),

 (5, ':X'),

 (5, ':H'),

 (5, ':?'),

 (5, ':-S'),

 (4, ';-D'),

 (3, ':Z'),

 (3, ':E'),

 (3, ':-s'),

 (3, ':-['),

 (3, ':-X'),

 (2, 'X5'),

 (2, 'X-('),

 (2, "X's"),

 (2, ';-;'),

 (2, ':}'),

 (2, ':D'),

 (2, ':;'),

 (2, ":'D"),

 (1, 'x|'),

 (1, "x'd"),
 (1, "x'D"),

 (1, ';-|'),

 (1, ';-/'),

 (1, ':('),

 (1, ':-x'),

 (1, ':-h'),

 (1, ':-]'),

 (1, ':-W'),

 (1, ':-$'),

 (1, ':('),

 (1, ":'[")]
```

We should by now know which emoticons are used (and its frequency) to build two regex, one for the happy ones and another for the sad ones. We will then use them in the preprocessing process to mark them as using happy emoticons or sad ones.

In [6]:

```
HAPPY_EMO = r" ([xX;:]-?[dD)]|:-?[\)]|[;:][pP]) "SAD_EMO = r" (:'?[/|\(]) "print("Happy emoticons:", set(re.findall(HAPPY_EMO, tweets_text)))print("Sad emoticons:", set(re.findall(SAD_EMO, tweets_text)))
```

```
Happy emoticons: {'xD', ':-D', 'xd', ';-)', ';p', ':p', ';P', ';d', ':D', ';D', 'XD', 'x)', ';
-D', ';)', ':d'}

Sad emoticons: {':|', ':(', ":'(", ':/'}
```

Most used words

What we are going to do next is to define a function that will show us top words, so we may fix things before running our learning algorithm. This function takes as input a text and output words sorted according to their frequency, starting with the most used word.

In [7]:

```
nltk.download('punkt')
```

```
---------------------------------------------------------------------------NameError
                              Traceback (most recent call last)<ipython-input-7-9533fb74b295> in <mod
ule>----> 1 nltk.download('punkt')

NameError: name 'nltk' is not defined
```

In [8]:

```
import nltkfrom nltk.tokenize import word_tokenize
```

```
# Uncomment this line if you haven't downloaded punkt before#
 or just run it as it is and uncomment it if you got an error.
#nltk.download('punkt')def most_used_words(text):

    tokens = word_tokenize(text)

    frequency_dist = nltk.FreqDist(tokens)

    print("There is %d different words" % len(set(tokens)))

    return sorted(frequency_dist,key=frequency_dist.__getitem
__, reverse=True)
```

In [9]:

```
most_used_words(train_data.SentimentText.str.cat())[:100]
```

```
There is 133864 different words
```

Out[9]:

```
['@',

 '!',

 '.',

 'I',

 ',',

 'to',

 'the',

 'you',

 '?',

 'a',

 'it',

 'i',

 '...',

 ';',

 'and',

 '&',

 'my',

 'for',

 'is',

 'that',

 "'s",
 "n't",
 'in',
 'of',
 'me',
 'have',
 'on',
 'quot',
 "'m",
 'so',
 ':',
 'but',
 '#',
 'do',
 'was',
 'be',
 'not',
 'your',
 'are',
 'just',
 'with',
 'like',
 '-',
 'at',
 'too',
 'get',
 'good',
 'u',
 'up',
 'know',
 'all',
 'this',
 'now',
 'no',
 'we',

 'out',

 ')',

 'love',

 'can',

 '(',

 'what',

 'one',

 'will',

 'lol',

 'go',

 'about',

 'did',

 "'ll",

 'got',

 'amp',

 'there',

 'day',

 'http',

 'see',

 "'re",

 'if',

 'time',

 'they',

 'think',

 'as',

 'when',

 'from',

 'You',

 'It',

 'going',

 'really',

 'am',
 'work',

 'well',

 'had',

 'would',

 'how',

 'he',

 'here',

 'some',

 'thanks',

 'back',

 'im',

 'haha',

 'or']
```

stop words

> *What we can see is that stop words are the most used, but in fact they don't help us determine if a tweet is happy/sad, however, they are consuming memory and they are making the learning process slower, so we really need to get rid of them.*

In [10]:

```
from nltk.corpus import stopwords

#nltk.download("stopwords")

mw = most_used_words(train_data.SentimentText.str.cat())most_
words = []for w in mw:

    if len(most_words) == 1000:

        break

    if w in stopwords.words("english"):

        continue

    else:

        most_words.append(w)
```

```
There is 133864 different words
```

In [11]:

```
# What we did is to filter only non stop words.# We will now get a look to the top 1000 wordssorted(most_words)
```

Out[11]:

```
['!',
 '#',
 '$',
 '%',
 '&',
 "'",
 "'d",
 "'ll",
 "'m",
 "'re",
 "'s",
 "'ve",
 '(',
 ')',
 '*',
 '*hugs*',
 '*sigh*',
 '+',
 ',',
 '-',
 '--',
 '.',
 '..',
 '...',
 '/',
 '1',
 '10',
 '100',
 '12',
 '1st',
 '2',

 '20',

 '2nd',

 '3',

 '30',

 '30SECONDSTOMARS',

 '4',

 '5',

 '6',

 '7',

 '8',

 ':',

 ';',

 '=',

 '?',

 '@',

 'A',

 'AND',

 'Ah',

 'AlexAllTimeLow',

 'All',

 'Also',

 'Alyssa_Milano',

 'Am',

 'And',

 'Are',

 'As',

 'At',

 'Aw',

 'Awesome',

 'Aww',

 'Awww',

 'BSB',
 'Birthday',

 'But',

 'Ca',

 'Can',

 'Chris',

 'Come',

 'Congrats',

 'Cool',

 'D',

 'DM',

 'DO',

 'Damn',

 'Day',

 'Did',

 'Do',

 'Enjoy',

 'FF',

 'Follow',

 'FollowFriday',

 'For',

 'Friday',

 'Get',

 'Glad',

 'Go',

 'God',

 'Good',

 'Got',

 'Great',

 'Had',

 'Haha',

 'Happy',

 'Have',

 'He',
 'Hello',

 'Hey',

 'Hi',

 'Hope',

 'How',

 'I',

 'IS',

 'IT',

 'If',

 'Im',

 'In',

 'Is',

 'It',

 'Its',

 'July',

 'June',

 'Just',

 'Keep',

 'LA',

 'LMAO',

 'LOL',

 'LOVE',

 'Let',

 'Like',

 'Lol',

 'London',

 'Love',

 'ME',

 'MY',

 'Maybe',

 'Me',

 'Monday',

 'Morning',
 'My',

 'NO',

 'NOT',

 'New',

 'Nice',

 'Night',

 'No',

 'Not',

 'Now',

 'O',

 'OK',

 'OMG',

 'Of',

 'Oh',

 'Ok',

 'On',

 'Once',

 'One',

 'Only',

 'Or',

 'Please',

 'Poor',

 'Really',

 'S',

 'SO',

 'Saturday',

 'See',

 'She',

 'So',

 'Sorry',

 'Sounds',

 'Still',

 'Sunday',
 'THAT',

 'THE',

 'TO',

 'TV',

 'Tell',

 'Thank',

 'Thanks',

 'That',

 'The',

 'Then',

 'There',

 'They',

 'This',

 'To',

 'Too',

 'Twitter',

 'U',

 'UK',

 'US',

 'Very',

 'Was',

 'We',

 'Welcome',

 'Well',

 'What',

 'When',

 'Where',

 'Who',

 'Why',

 'Will',

 'Wish',

 'Would',

 'Wow',
 'XD',

 'YAY',

 'YES',

 'YOU',

 'Yay',

 'Yeah',

 'Yep',

 'Yes',

 'You',

 'Your',

 '[',

 ']',

 'able',

 'absolutely',

 'account',

 'actually',

 'add',

 'afternoon',

 'ago',

 'agree',

 'ah',

 'ahh',

 'aint',

 'air',

 'album',

 'almost',

 'alone',

 'along',

 'alot',

 'already',

 'alright',

 'also',

 'always',
 'amazing',

 'amp',

 'andyclemmensen',

 'annoying',

 'another',

 'answer',

 'anymore',

 'anyone',

 'anything',

 'anyway',

 'aplusk',

 'app',

 'apparently',

 'appreciate',

 'around',

 'ashleytisdale',

 'ask',

 'asked',

 'asleep',

 'ass',

 'aw',

 'awake',

 'away',

 'awesome',

 'aww',

 'awww',

 'awwww',

 'b',

 'babe',

 'baby',

 'babygirlparis',

 'back',

 'backstreetboys',
 'bad',

 'band',

 'bday',

 'beach',

 'beat',

 'beautiful',

 'bed',

 'beer',

 'behind',

 'believe',

 'best',

 'bet',

 'better',

 'big',

 'billyraycyrus',

 'birthday',

 'bit',

 'bitch',

 'black',

 'blog',

 'blue',

 'body',

 'boo',

 'book',

 'books',

 'bored',

 'boring',

 'bought',

 'bout',

 'box',

 'boy',

 'boys',

 'bradiewebbstack',
 'break',

 'breakfast',

 'bring',

 'bro',

 'broke',

 'broken',

 'brother',

 'btw',

 'business',

 'busy',

 'buy',

 'c',

 'ca',

 'cake',

 'call',

 'called',

 'came',

 'camera',

 'cant',

 'car',

 'care',

 'case',

 'cat',

 'catch',

 'cause',

 'chance',

 'change',

 'chat',

 'check',

 'chocolate',

 'city',

 'class',

 'close',
 'club',

 'coffee',

 'cold',

 'come',

 'comes',

 'coming',

 'comment',

 'computer',

 'concert',

 'congrats',

 'cool',

 'cos',

 'could',

 'country',

 'couple',

 'course',

 'coz',

 'crap',

 'crazy',

 'cream',

 'cry',

 'crying',

 'cut',

 'cute',

 'cuz',

 'da',

 'dad',

 'damn',

 'dance',

 'date',

 'day',

 'days',

 'dead',
 'deal',

 'dear',

 'def',

 'definitely',

 'didnt',

 'die',

 'died',

 'different',

 'dinner',

 'doesnt',

 'dog',

 'done',

 'dont',

 'dream',

 'dreams',

 'drink',

 'drive',

 'dude',

 'due',

 'dunno',

 'earlier',

 'early',

 'easy',

 'eat',

 'eating',

 'eh',

 'either',

 'else',

 'em',

 'email',

 'end',

 'enjoy',

 'enjoyed',
 'enjoying',

 'enough',

 'especially',

 'etc',

 'even',

 'evening',

 'ever',

 'every',

 'everyone',

 'everything',

 'exactly',

 'exam',

 'exams',

 'except',

 'excited',

 'exciting',

 'eye',

 'eyes',

 'face',

 'facebook',

 'fact',

 'fail',

 'fair',

 'fall',

 'family',

 'fan',

 'fans',

 'far',

 'fast',

 'favorite',

 'feel',

 'feeling',

 'feels',
 'fell',

 'felt',

 'figure',

 'film',

 'finally',

 'find',

 'fine',

 'finish',

 'finished',

 'first',

 'fix',

 'flight',

 'follow',

 'followers',

 'followfriday',

 'following',

 'food',

 'forever',

 'forget',

 'forgot',

 'forward',

 'found',

 'free',

 'friday',

 'friend',

 'friends',

 'front',

 'fuck',

 'fucking',

 'full',

 'fun',

 'funny',

 'future',
 'game',

 'gave',

 'get',

 'gets',

 'getting',

 'girl',

 'girls',

 'give',

 'giving',

 'glad',

 'go',

 'god',

 'goes',

 'goin',

 'going',

 'gon',

 'gone',

 'good',

 'goodnight',

 'gorgeous',

 'got',

 'great',

 'green',

 'gt',

 'guess',

 'guy',

 'guys',

 'ha',

 'haha',

 'hahah',

 'hahaha',

 'hair',

 'half',
 'hand',

 'hang',

 'happen',

 'happened',

 'happens',

 'happy',

 'hard',

 'hate',

 'havent',

 'head',

 'hear',

 'heard',

 'heart',

 'hehe',

 'hell',

 'hello',

 'help',

 'hey',

 'hi',

 'high',

 'hit',

 'hmm',

 'hold',

 'home',

 'hope',

 'hopefully',

 'hoping',

 'horrible',

 'hot',

 'hour',

 'hours',

 'house',

 'http',
 'hug',

 'huge',

 'huh',

 'hun',

 'hungry',

 'hurt',

 'hurts',

 'iPhone',

 'ice',

 'idea',

 'idk',

 'ill',

 'im',

 'inaperfectworld',

 'indeed',

 'info',

 'instead',

 'interesting',

 'internet',

 'invite',

 'iphone',

 'iremember',

 'ive',

 'jealous',

 'job',

 'join',

 'keep',

 'keeps',

 'kid',

 'kidding',

 'kids',

 'kill',

 'kind',
 'kinda',

 'knew',

 'know',

 'knows',

 'lady',

 'lame',

 'laptop',

 'last',

 'late',

 'lately',

 'later',

 'laugh',

 'learn',

 'least',

 'leave',

 'leaving',

 'left',

 'less',

 'let',

 'lets',

 'life',

 'like',

 'liked',

 'lil',

 'line',

 'link',

 'list',

 'listen',

 'listening',

 'little',

 'live',

 'living',

 'lmao',
 'lol',

 'long',

 'longer',

 'look',

 'looked',

 'looking',

 'looks',

 'lose',

 'lost',

 'lot',

 'lots',

 'love',

 'loved',

 'lovely',

 'loves',

 'lt',

 'luck',

 'lucky',

 'lunch',

 'luv',

 'mad',

 'made',

 'make',

 'makes',

 'making',

 'man',

 'many',

 'mate',

 'matter',

 'may',

 'maybe',

 'mean',

 'means',
 'meant',

 'meet',

 'meeting',

 'mention',

 'message',

 'met',

 'might',

 'mind',

 'mine',

 'minute',

 'minutes',

 'miss',

 'missed',

 'missing',

 'mom',

 'moment',

 'monday',

 'money',

 'month',

 'months',

 'mood',

 'morning',

 'move',

 'movie',

 'movies',

 'moving',

 'much',

 'mum',

 'music',

 'musicmonday',

 'must',

 'myspace',

 'myweakness',
 'n',

 "n't",

 'na',

 'name',

 'near',

 'need',

 'needed',

 'needs',

 'never',

 'new',

 'news',

 'next',

 'nice',

 'night',

 'nite',

 'nope',

 'nothing',

 'number',

 'office',

 'oh',

 'ok',

 'okay',

 'old',

 'omg',

 'one',

 'ones',

 'online',

 'open',

 'order',

 'others',

 'outside',

 'p',

 'page',
 'pain',

 'parents',

 'part',

 'party',

 'pass',

 'past',

 'pay',

 'people',

 'perfect',

 'person',

 'phone',

 'photo',

 'photos',

 'pic',

 'pick',

 'pics',

 'picture',

 'pictures',

 'place',

 'plan',

 'plans',

 'play',

 'played',

 'playing',

 'please',

 'plus',

 'point',

 'pool',

 'poor',

 'post',

 'posted',

 'power',

 'ppl',
 'pretty',

 'prob',

 'probably',

 'problem',

 'profile',

 'proud',

 'put',

 'question',

 'quite',

 'quot',

 'r',

 'radio',

 'rain',

 'raining',

 'random',

 'rather',

 'read',

 'reading',

 'ready',

 'real',

 'really',

 'reason',

 'red',

 'remember',

 'reply',

 'rest',

 'ride',

 'right',

 'rock',

 'room',

 'run',

 'running',

 'sad',
 'sadly',

 'safe',

 'said',

 'save',

 'saw',

 'say',

 'saying',

 'says',

 'scared',

 'school',

 'season',

 'second',

 'see',

 'seeing',

 'seem',

 'seems',

 'seen',

 'self',

 'send',

 'sense',

 'sent',

 'serious',

 'seriously',

 'set',

 'sexy',

 'shall',

 'shame',

 'share',

 'sharing',

 'shit',

 'shopping',

 'short',

 'show',
 'shows',

 'shut',

 'sick',

 'side',

 'sign',

 'silly',

 'since',

 'single',

 'sis',

 'sister',

 'site',

 'sitting',

 'sleep',

 'sleeping',

 'slow',

 'small',

 'smile',

 'sold',

 'someone',

 'something',

 'sometimes',

 'somewhere',

 'son',

 'song',

 'songs',

 'soo',

 'soon',

 'sooo',

 'soooo',

 'sorry',

 'sort',

 'sound',

 'sounds',
 'special',

 'squarespace',

 'start',

 'started',

 'starting',

 'stay',

 'still',

 'stop',

 'store',

 'story',

 'stuck',

 'study',

 'stuff',

 'stupid',

 'suck',

 'sucks',

 'summer',

 'sun',

 'sunday',

 'sunny',

 'super',

 'support',

 'supposed',

 'sure',

 'sweet',

 'sweetie',

 'ta',

 'take',

 'taken',

 'taking',

 'talk',

 'talking',

 'tea',
 'team',

 'tell',

 'test',

 'text',

 'thank',

 'thanks',

 'thats',

 'thing',

 'things',

 'think',

 'thinking',

 'tho',

 'though',

 'thought',

 'three',

 'thx',

 'tickets',

 'til',

 'till',

 'time',

 'times',

 'tired',

 'today',

 'together',

 'told',

 'tomorrow',

 'tonight',

 'took',

 'top',

 'totally',

 'touch',

 'tour',

 'town',
 'train',

 'tried',

 'trip',

 'true',

 'try',

 'trying',

 'turn',

 'tv',

 'tweet',

 'tweeting',

 'tweets',

 'twitter',

 'two',

 'type',

 'u',

 'ugh',

 'understand',

 'unfortunately',

 'update',

 'updates',

 'upset',

 'ur',

 'us',

 'use',

 'used',

 'using',

 'usually',

 'version',

 'via',

 'video',

 'vip',

 'visit',

 'voice',
 'vote',

 'w/',

 'wait',

 'waiting',

 'wake',

 'walk',

 'wan',

 'want',

 'wanted',

 'wants',

 'warm',

 'watch',

 'watched',

 'watching',

 'water',

 'way',

 'wear',

 'weather',

 'website',

 'wedding',

 'week',

 'weekend',

 'weeks',

 'weird',

 'welcome',

 'well',

 'went',

 'whatever',

 'whats',

 'white',

 'whole',

 'win',

 'wine',
 'wish',

 'wit',

 'without',

 'wo',

 'woke',

 'woman',

 'wonder',

 'wonderful',

 'wont',

 'word',

 'words',

 'work',

 'worked',

 'working',

 'works',

 'world',

 'worry',

 'worse',

 'worst',

 'worth',

 'would',

 'wow',

 'write',

 'writing',

 'wrong',

 'x',

 'xD',

 'xoxo',

 'xx',

 'xxx',

 'ya',

 'yay',

 'yea',
 'yeah',

 'year',

 'years',

 'yep',

 'yes',

 'yesterday',

 'yet',

 'yo',

 'youtube',

 'yup',

 '|',

 '~',

 '�']
```

Stemming

You should have noticed something, right? There are words that have the same meaning, but written in a different manner, sometimes in the plural and sometimes with a suffix (ing, es ...), this will make our model think that they are different words and also make our vocabulary bigger (waste of memory and time for the learning process). The solution is to reduce those words with the same root, this is called stemming.

In [12]:

```
# I'm defining this function to use it in the # Data Preparat
ion Phasefrom nltk.stem.snowball import SnowballStemmerfrom n
ltk.stem import WordNetLemmatizer

#nltk.download('wordnet')def stem_tokenize(text):

    stemmer = SnowballStemmer("english")

    stemmer = WordNetLemmatizer()

    return [stemmer.lemmatize(token) for token in word_tokeni
ze(text)]

def lemmatize_tokenize(text):

    lemmatizer = WordNetLemmatizer()

    return [lemmatizer.lemmatize(token) for token in word_tok
enize(text)]
```

> *will stop here, but you can visualize tweets more and more to gain insights and take decisions about how to transform your data.*

Prepare the data

> *In this phase, we will transform our tweets into a more usable data by our ML models.*

Bag of Words

We are going to use the Bag of Words algorithm, which basically takes a text as input, extract words from it (this is our vocabulary) to use them in the vectorization process. When a tweet comes in, it will vectorize it by counting the number of occurrences of each word in our vocabulary.

For example, we have this two tweets: "I learned a lot today" and "hahaha I got you".

> ### tweet / words I learned a lot today hahaha got you
>
> 1.
>
>   ### first 1 1 1 1 1 0 0 0
>
> 2.
>
> -
>
>   ### second 1 0 0 0 0 1 1 1
>
> -

In [13]:

```
from sklearn.feature_extraction.text import TfidfVectorizer
```

Building the pipeline

> *It's always a good practice to make a pipeline of transformation for your data, it will make the process of data transformation really easy and reusable. We will implement a pipeline for transforming our tweets to something that our ML models can digest (vectors)*

In [14]:

```
from sklearn.base import TransformerMixin, BaseEstimatorfrom
sklearn.pipeline import Pipeline
```

In [15]:

```
# We need to do some preprocessing of the tweets.# We will de
lete useless strings (like @, # ...)# because we think that t
hey will not help# in determining if the person is Happy/Sad

class TextPreProc(BaseEstimator,TransformerMixin):

    def __init__(self, use_mention=False):

        self.use_mention = use_mention



    def fit(self, X, y=None):

        return self



    def transform(self, X, y=None):

        # We can choose between keeping the mentions

        # or deleting them

        if self.use_mention:

            X = X.str.replace(r"@[a-zA-Z0-9_]* ", " @tags ")

        else:

            X = X.str.replace(r"@[a-zA-Z0-9_]* ", "")



        # Keeping only the word after the #

        X = X.str.replace("#", "")

        X = X.str.replace(r"[-\.\n]", "")

        # Removing HTML garbage

        X = X.str.replace(r"&\w+;", "")

        # Removing links

        X = X.str.replace(r"https?://\S*", "")

        # replace repeated letters with only two occurences
        # heeeellllloooo => heelloo

        X = X.str.replace(r"(.)\1+", r"\1\1")

        # mark emoticons as happy or sad

        X = X.str.replace(HAPPY_EMO, " happyemoticons ")

        X = X.str.replace(SAD_EMO, " sademoticons ")

        X = X.str.lower()

        return X
```

In [16]:

```
# This is the pipeline that will transform our tweets to some
thing eatable.# You can see that we are using our previously
defined stemmer, it will# take care of the stemming process.#
 For stop words, we let the inverse document frequency do the
 jobfrom sklearn.model_selection import train_test_split

sentiments = train_data['Sentiment']tweets = train_data['Sent
imentText']

# I get those parameters from the 'Fine tune the model' partv
ectorizer = TfidfVectorizer(tokenizer=lemmatize_tokenize, ngr
am_range=(1,2))pipeline = Pipeline([

    ('text_pre_processing', TextPreProc(use_mention=True)),

    ('vectorizer', vectorizer),])

# Let's split our data into learning set and testing set# Thi
s process is done to test the efficency of our model at the e
nd.# You shouldn't look at the test data only after choosing
the final modellearn_data, test_data, sentiments_learning, se
ntiments_test = train_test_split(tweets, sentiments, test_siz
e=0.3)

# This will tranform our learning data from simple text to ve
ctor# by going through the preprocessing tranformer.learning_
data = pipeline.fit_transform(learn_data)
```

```
/opt/conda/lib/python3.7/site-packages/ipykernel_launcher.py:17: FutureWarning: The default va
lue of regex will change from True to False in a future version.

/opt/conda/lib/python3.7/site-packages/ipykernel_launcher.py:23: FutureWarning: The default va
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/opt/conda/lib/python3.7/site-packages/ipykernel_launcher.py:25: FutureWarning: The default va
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```

```
/opt/conda/lib/python3.7/site-packages/ipykernel_launcher.py:27: FutureWarning: The default va
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/opt/conda/lib/python3.7/site-packages/ipykernel_launcher.py:30: FutureWarning: The default va
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/opt/conda/lib/python3.7/site-packages/ipykernel_launcher.py:32: FutureWarning: The default va
lue of regex will change from True to False in a future version.

/opt/conda/lib/python3.7/site-packages/ipykernel_launcher.py:33: FutureWarning: The default va
lue of regex will change from True to False in a future version.
```

Select a model

When we have our data ready to be processed by ML models, the question we should ask is which model to use?

The answer varies depending on the problem and data, for example, it's known that Naive Bias has proven good efficacy against Text Based Problems.

A good way to choose a model is to try different candidate, evaluate them using cross validation, then chose the best one which will be later tested against our test data.

In [17]:

```
from sklearn.model_selection import cross_val_scorefrom sklea
rn.metrics import accuracy_scorefrom sklearn.linear_model imp
ort LogisticRegressionfrom sklearn.naive_bayes import Bernoul
liNB, MultinomialNB

lr = LogisticRegression()bnb = BernoulliNB()mnb = Multinomial
NB()

models = {

    'logitic regression': lr,

    'bernoulliNB': bnb,

    'multinomialNB': mnb,}

for model in models.keys():

    scores = cross_val_score(models[model], learning_data, se
ntiments_learning, scoring="f1", cv=10)

    print("===", model, "===")

    print("scores = ", scores)

    print("mean = ", scores.mean())

    print("variance = ", scores.var())
    models[model].fit(learning_data, sentiments_learning)

    print("score on the learning data (accuracy) = ", accurac
y_score(models[model].predict(learning_data), sentiments_lear
ning))

    print("")
```

```
/opt/conda/lib/python3.7/site-packages/sklearn/linear_model/_logistic.py:765: ConvergenceWarni
ng: lbfgs failed to converge (status=1):

STOP: TOTAL NO. of ITERATIONS REACHED LIMIT.



Increase the number of iterations (max_iter) or scale the data as shown in:

    https://scikit-learn.org/stable/modules/preprocessing.html

Please also refer to the documentation for alternative solver options:

    https://scikit-learn.org/stable/modules/linear_model.html#logistic-regression

  extra_warning_msg=_LOGISTIC_SOLVER_CONVERGENCE_MSG)

/opt/conda/lib/python3.7/site-packages/sklearn/linear_model/_logistic.py:765: ConvergenceWarni
ng: lbfgs failed to converge (status=1):

STOP: TOTAL NO. of ITERATIONS REACHED LIMIT.



Increase the number of iterations (max_iter) or scale the data as shown in:

    https://scikit-learn.org/stable/modules/preprocessing.html

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    https://scikit-learn.org/stable/modules/linear_model.html#logistic-regression

  extra_warning_msg=_LOGISTIC_SOLVER_CONVERGENCE_MSG)

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```
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  extra_warning_msg=_LOGISTIC_SOLVER_CONVERGENCE_MSG)

/opt/conda/lib/python3.7/site-packages/sklearn/linear_model/_logistic.py:765: ConvergenceWarni
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Increase the number of iterations (max_iter) or scale the data as shown in:

    https://scikit-learn.org/stable/modules/preprocessing.html

Please also refer to the documentation for alternative solver options:

    https://scikit-learn.org/stable/modules/linear_model.html#logistic-regression

  extra_warning_msg=_LOGISTIC_SOLVER_CONVERGENCE_MSG)

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Increase the number of iterations (max_iter) or scale the data as shown in:

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    https://scikit-learn.org/stable/modules/linear_model.html#logistic-regression

  extra_warning_msg=_LOGISTIC_SOLVER_CONVERGENCE_MSG)

/opt/conda/lib/python3.7/site-packages/sklearn/linear_model/_logistic.py:765: ConvergenceWarni
ng: lbfgs failed to converge (status=1):
```

```
STOP: TOTAL NO. of ITERATIONS REACHED LIMIT.



Increase the number of iterations (max_iter) or scale the data as shown in:

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Please also refer to the documentation for alternative solver options:

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  extra_warning_msg=_LOGISTIC_SOLVER_CONVERGENCE_MSG)

/opt/conda/lib/python3.7/site-packages/sklearn/linear_model/_logistic.py:765: ConvergenceWarni
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Increase the number of iterations (max_iter) or scale the data as shown in:

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Please also refer to the documentation for alternative solver options:

    https://scikit-learn.org/stable/modules/linear_model.html#logistic-regression

  extra_warning_msg=_LOGISTIC_SOLVER_CONVERGENCE_MSG)

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Increase the number of iterations (max_iter) or scale the data as shown in:

    https://scikit-learn.org/stable/modules/preprocessing.html

Please also refer to the documentation for alternative solver options:

    https://scikit-learn.org/stable/modules/linear_model.html#logistic-regression

  extra_warning_msg=_LOGISTIC_SOLVER_CONVERGENCE_MSG)

=== logitic regression ===

scores =  [0.80952957 0.80996132 0.80512573 0.80941516 0.81088894 0.8125908

 0.81534023 0.81049212 0.80781759 0.81136638]

mean =  0.810252782485254

variance =  6.657698428255754e-06

/opt/conda/lib/python3.7/site-packages/sklearn/linear_model/_logistic.py:765: ConvergenceWarni
ng: lbfgs failed to converge (status=1):

STOP: TOTAL NO. of ITERATIONS REACHED LIMIT.
```

```
Increase the number of iterations (max_iter) or scale the data as shown in:

    https://scikit-learn.org/stable/modules/preprocessing.html

Please also refer to the documentation for alternative solver options:

    https://scikit-learn.org/stable/modules/linear_model.html#logistic-regression

  extra_warning_msg=_LOGISTIC_SOLVER_CONVERGENCE_MSG)

score on the learning data (accuracy) =  0.8717996342439136


=== bernoulliNB ===

scores =  [0.79156909 0.78775079 0.78224201 0.78791387 0.79228972 0.78485451

 0.78859527 0.78725639 0.78480122 0.78928906]

mean =  0.7876561913042192

variance =  8.58773568689337e-06

score on the learning data (accuracy) =  0.9027317407703738


=== multinomialNB ===

scores =  [0.8087226  0.81302801 0.80400445 0.80567879 0.80681944 0.80842105

 0.80549098 0.80649105 0.8067917  0.8118196 ]

mean =  0.8077267675835677

variance =  7.260135677129156e-06

score on the learning data (accuracy) =  0.8981312149959996
```

None of those models is likely to be overfitting, I will choose the multinomialNB.

Fine tune the model

I'm going to use the GridSearchCV to choose the best parameters to use.

What the GridSearchCV does is trying different set of parameters, and for each one, it runs a cross validation and estimate the score. At the end we can see what are the best parameter and use them to build a better classifier.

In [18]:

```python
from sklearn.model_selection import GridSearchCV

grid_search_pipeline = Pipeline([

    ('text_pre_processing', TextPreProc()),

    ('vectorizer', TfidfVectorizer()),
    ('model', MultinomialNB()),])

params = [

    {

        'text_pre_processing__use_mention': [True, False],

        'vectorizer__max_features': [1000, 2000, 5000, 10000,
 20000, None],

        'vectorizer__ngram_range': [(1,1), (1,2)],

    },]grid_search = GridSearchCV(grid_search_pipeline, param
s, cv=5, scoring='f1')grid_search.fit(learn_data, sentiments_
learning)print(grid_search.best_params_)
```

```
/opt/conda/lib/python3.7/site-packages/ipykernel_launcher.py:17: FutureWarning: The default va
lue of regex will change from True to False in a future version.

/opt/conda/lib/python3.7/site-packages/ipykernel_launcher.py:23: FutureWarning: The default va
lue of regex will change from True to False in a future version.

/opt/conda/lib/python3.7/site-packages/ipykernel_launcher.py:25: FutureWarning: The default va
lue of regex will change from True to False in a future version.

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lue of regex will change from True to False in a future version.

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lue of regex will change from True to False in a future version.

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lue of regex will change from True to False in a future version.

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lue of regex will change from True to False in a future version.

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{'text_pre_processing__use_mention': True, 'vectorizer__max_features': None, 'vectorizer__ngra
m_range': (1, 2)}
```

Testing our model against data other than the data used for training our model
will show how well the model is generalising on new data.

Note

We shouldn't test to choose the model, this will only let us confirm that the choosen model is doing well.

In [19]:

```
mnb.fit(learning_data, sentiments_learning)
```

Out[19]:

```
MultinomialNB()
```

In [20]:

```
testing_data = pipeline.transform(test_data)mnb.score(testing_data, sentiments_test)
```

```
/opt/conda/lib/python3.7/site-packages/ipykernel_launcher.py:17: FutureWarning: The default va
lue of regex will change from True to False in a future version.

/opt/conda/lib/python3.7/site-packages/ipykernel_launcher.py:23: FutureWarning: The default va
lue of regex will change from True to False in a future version.

/opt/conda/lib/python3.7/site-packages/ipykernel_launcher.py:25: FutureWarning: The default va
lue of regex will change from True to False in a future version.

/opt/conda/lib/python3.7/site-packages/ipykernel_launcher.py:27: FutureWarning: The default va
lue of regex will change from True to False in a future version.

/opt/conda/lib/python3.7/site-packages/ipykernel_launcher.py:30: FutureWarning: The default va
lue of regex will change from True to False in a future version.

/opt/conda/lib/python3.7/site-packages/ipykernel_launcher.py:32: FutureWarning: The default va
lue of regex will change from True to False in a future version.

/opt/conda/lib/python3.7/site-packages/ipykernel_launcher.py:33: FutureWarning: The default va
lue of regex will change from True to False in a future version.
```

Out[20]:

```
0.7543754375437544
```

Not bad for my first attempt to solve a sentiment analysis problem. I will try to make it better if I got more free time.

In [21]:

```
# Predecting on the test.csvsub_data = pd.read_csv("/kaggle/input/test-1-sentimentanalysis/test sentiment analysis.csv", encoding='ISO-8859-1')sub_learning = pipeline.transform(sub_data.SentimentText)sub = pd.DataFrame(sub_data.ItemID, columns=("ItemID", "Sentiment"))sub["Sentiment"] = mnb.predict(sub_learning)print(sub)
```

```
/opt/conda/lib/python3.7/site-packages/ipykernel_launcher.py:17: FutureWarning: The default va
lue of regex will change from True to False in a future version.

/opt/conda/lib/python3.7/site-packages/ipykernel_launcher.py:23: FutureWarning: The default va
lue of regex will change from True to False in a future version.

/opt/conda/lib/python3.7/site-packages/ipykernel_launcher.py:25: FutureWarning: The default va
lue of regex will change from True to False in a future version.

/opt/conda/lib/python3.7/site-packages/ipykernel_launcher.py:27: FutureWarning: The default va
lue of regex will change from True to False in a future version.

/opt/conda/lib/python3.7/site-packages/ipykernel_launcher.py:30: FutureWarning: The default va
lue of regex will change from True to False in a future version.

/opt/conda/lib/python3.7/site-packages/ipykernel_launcher.py:32: FutureWarning: The default va
lue of regex will change from True to False in a future version.

/opt/conda/lib/python3.7/site-packages/ipykernel_launcher.py:33: FutureWarning: The default va
lue of regex will change from True to False in a future version.
```

```
        ItemID  Sentiment

0            1          0

1            2          0

2            3          1

3            4          0

4            5          0

...        ...        ...

299984  299996          1

299985  299997          1

299986  299998          1

299987  299999          1

299988  300000          1


[299989 rows x 2 columns]
```

Test your tweet

The most exciting part ! Don't be too hard with my classifier...

In [22]:

```
# Just run itmodel = MultinomialNB()model.fit(learning_data,
sentiments_learning)tweet = pd.Series([input(),])tweet = pipe
line.transform(tweet)proba = model.predict_proba(tweet)[0]pri
nt("The probability that this tweet is sad is:", proba[0])pri
nt("The probability that this tweet is happy is:", proba[1])
```

```
---------------------------------------------------------------------------StdinNotImplemented
Error                     Traceback (most recent call last)<ipython-input-22-22515163dabf> in <mo
dule>      2 model = MultinomialNB()      3 model.fit(learning_data, sentiments_learning)---->
 4 tweet = pd.Series([input(),])      5 tweet = pipeline.transform(tweet)      6 proba = model.
predict_proba(tweet)[0]

/opt/conda/lib/python3.7/site-packages/ipykernel/kernelbase.py in raw_input(self, prompt)    8
53         if not self._allow_stdin:    854             raise StdinNotImplementedError(--> 855
                 "raw_input was called, but this frontend does not support input requests."
 856             )    857         return self._input_request(str(prompt),

StdinNotImplementedError: raw_input was called, but this frontend does not support input reque
sts.
```