```
In [1]:
```

```
import pickle
import re
import numpy as np
import pandas as pd
from tqdm import tqdm
import nltk
nltk.download('stopwords')
[nltk_data] Downloading package stopwords to
                C:\Users\91874\AppData\Roaming\nltk_data...
[nltk_data]
[nltk_data]
              Package stopwords is already up-to-date!
Out[1]:
True
In [2]:
def preprocess_tweet(text):
   text = re.sub('<[^>]*>', '', text)
   emoticons = re.findall('(?::|;|=)(?:-)?(?:\)|\(|D|P)', text)
   lowercase_text = re.sub('[\W]+', ' ', text.lower())
   text = lowercase_text+' '.join(emoticons).replace('-', '')
   return text
In [3]:
tqdm.pandas()
df = pd.read_csv('Data.csv')
df['text'] = df['text'].progress_apply(preprocess_tweet)
D:\Users\91874\anaconda3\lib\site-packages\tqdm\std.py:668: FutureWarning: T
he Panel class is removed from pandas. Accessing it from the top-level names
pace will also be removed in the next version
  from pandas import Panel
100%
        115/115 [00:00<00:00, 23269.09it/s]
In [4]:
from nltk.stem.porter import PorterStemmer
porter = PorterStemmer()
def tokenizer porter(text):
   return [porter.stem(word) for word in text.split()]
In [5]:
from nltk.corpus import stopwords
stop = stopwords.words('english')
In [6]:
[w for w in tokenizer_porter('a runner likes running and runs a lot') if w not in stop]
```

['runner', 'like', 'run', 'run', 'lot']

Out[6]:

```
In [7]:
```

```
def tokenizer(text):
    text = re.sub('<[^>]*>', '', text)
    emoticons = re.findall('(?::|;|=)(?:-)?(?:\(|D|P)',text.lower())
    text = re.sub('[\W]+', ' ', text.lower())
    text += ' '.join(emoticons).replace('-', '')
    tokenized = [w for w in tokenizer_porter(text) if w not in stop]
    return tokenized
```

In [8]:

In [9]:

```
from sklearn.linear_model import SGDClassifier
clf = SGDClassifier(loss='log', random_state=1)
```

In [11]:

```
X = df["text"].to_list()
y = df['labels']
```

In [12]:

In [13]:

```
X_train = vect.transform(X_train)
X_test = vect.transform(X_test)
```

In [14]:

```
classes = np.array([0, 1])
clf.partial_fit(X_train, y_train,classes=classes)
```

Out[14]:

SGDClassifier(loss='log', random_state=1)

In [15]:

```
print('Accuracy: %.3f' % clf.score(X_test, y_test))
```

Accuracy: 0.783

In [16]:

Prediction: positive Probability: 95.93%

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In []: