```python
import numpy as np                                              # t
o preform numerical operations
from sklearn import datasets                                    # t
o import required dataset
from sklearn import model_selection                            # t
o split data into training and testing data
from nltk.corpus import stopwords                               # f
or removing stopwords
import itertools                                                # f
or slicing vocabulary dictionary into required length
import  pandas as pd                                            # f
or dataset manipulation
from sklearn.metrics import classification_report, confusion_matrix # f
or getting info of result precision and accuracy
from nltk.tokenize import word_tokenize                         # f
or tokenizing
import math as ma
```

```python
stop_words=set(stopwords.words('english'))
                # get the stopwords
news=datasets.fetch_20newsgroups()
                # load data into news
x_train,x_test,y_train,y_test=model_selection.train_test_split(news.dat
a,news.target,test_size=0.1) # split data into test and train
```

```python
print(stop_words)                                              # J
ust checking what are the stopwords
```

```
{'should', 'such', 'which', 'in', "hasn't", 'of', 'his', 'them', 'the',
'll', "you've", 'too', 'me', 'above', 'was', "doesn't", 'being', 'by',
'myself', 'their', 'couldn', 'against', 'won', 'out', 'into', "you'd",
'same', 'have', "it's", 'both', 'most', 'hasn', 'so', 'mightn', 'shan',
'i', 'haven', 'shouldn', 'himself', 'own', 'hers', 'but', 't', 'for',
'all', 'any', 'is', 'wouldn', "needn't", 'where', 'each', 'to', 'off',
'doesn', 'didn', 'theirs', "should've", 'these', 'yourselves', 'he', 'a
```

```
n', 'from', 'it', 'who', 'with', 'on', 'under', 'very', 'why', 'does',
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'herself', "won't", 'yours', 'and', "isn't", 'at', 'do'}
```

In [17]:
```python
#import nltk
#nltk.download('punkt')                                              # n
eeded to be done first time
d={}                                                                 # d
 is going to be our vocabulary dictionary
for i in range(len(x_train)):                                        # t
his function filters stopwords and creates vocabulary
    data=x_train[i]                                                  # t
aken one row at a time of training data
    words=word_tokenize(data)                                       # t
okenize the data
    filtered_sentence=[ele for ele in words if ele not in stop_words] #
 get filtered sentence
    for ele in filtered_sentence:                                    # c
reate vocabulary from filtered sentence
        d[ele]=d.get(ele,0)+1
new_dict={}                                                          # t
his will be our final vocabulary dictionary
for key,value in sorted(d.items(), key=lambda kv: kv[1],reverse=True):
# put the key,value pair from d in decreasing order of value
    new_dict[key]=value
new_dict=dict(itertools.islice(new_dict.items(),6000))              # Ta
ke the top 6000 elements into final vocabulary
features=[]
```

```
for i in new_dict:
    features.append(i)
```

In [18]:
```
print(new_dict)                                              # j
ust checking final created vocabulary dictionary
print(features.shape)
```

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atellite': 43, 'sooner': 43, 'laid': 43, 'prize': 43, 'interview': 43,
 'mono': 43, '508': 43, 'Ross': 43, 'throttle': 43, 'Title': 43, 'Sea':
 43, 'silver': 43}
```

```
--------------------------------------------------------------------
----
AttributeError                            Traceback (most recent call l
ast)
<ipython-input-18-5799d4f06db1> in <module>
      1 print(new_dict)
        # just checking final created vocabulary dictionary
----> 2 print(features.shape)

AttributeError: 'list' object has no attribute 'shape'
```

In [20]:
```python
def updatedRow(words,features,i):
    lst=np.array([0]*6000)                                      # In
itialise the lst to be np.zeros with dimensions 1 X 6000
                                        # i will help us iterate ou
r lst
    for ele in words:
        if ele in features:
            lst[features.index(ele)]=words.count(ele)
    return lst

def updateXTrain(x_train,features):
    x_train_updated=pd.DataFrame(np.zeros((len(x_train),6000)))    # I
ntialise the np.zeros 2-D array to x_train_updated
    x_train_updated.columns=features                           # A
dd columns to the x_train_updated
    for i in range(len(x_train)):                              # N
ow operate on each row
        curr_x=x_train[i]                                     # c
urr_x contains the row i content
        words=word_tokenize(curr_x)                           # e
xtract all words of curr_x into words
        x_train_updated.iloc[i,:]=updatedRow(words,features,i)    # r
eplace row i with the updateRow() function's list
    return x_train_updated                                    # r
```

```
                eturn x_train_updated

                x_train_updated=updateXTrain(x_train,features)              # g
                et updated x_train_updated
                x_train_updated.columns                                     # j
                ust checking the columns

Out[20]: Index(['>', ',', '.', '--', ':', ')', '(', ''AX', '@', 'I',
                ...
                'laid', 'prize', 'interview', 'mono', '508', 'Ross', 'throttle',
                'Title', 'Sea', 'silver'],
              dtype='object', length=6000)


In [21]:  def fit(X_train, Y_train):                                       # T
          his function is used to fit training data into our model
              result = {}                                                  # T
          his dictionary is going to be useful in later calculations
              class_values = set(Y_train)
              for current_class in class_values:                          # W
          e create keys for all the possible classes
                  result[current_class] = {}                              # W
          e create a dictionary as value for each key itself
                  result["total"] = len(Y_train)                          # I
          t gives total element present in our dictionary
                  current_class_rows = (Y_train == current_class)         # O
          btain rows for the current class
                  X_train_current = X_train[current_class_rows]           # F
          ilter the x_train for current class
                  Y_train_current = Y_train[current_class_rows]           # F
          ilter the y_train for current class
                  num_features = X_train.shape[1]
                  result[current_class]["count"] = len(Y_train_current)   # I
          t gives total number of features of our data
                  a=0                                                     # T
          o get total number of a particular feature
                  for j in range(num_features):                          # t
          raverse each feature
                      result[current_class][j]=X_train_current[:,j].sum() # G
          et total number of current feature
```

```
            a+=result[current_class][j]                          # I
ncrement a by total number of current feature
            result[current_class]['total']=a                     # A
ssign a, will be used in later calculations
        return result                                            # R
eturn result


    x_train_updated=np.array(x_train_updated)                    # C
hange pandas dataframe to numpy array
    d=fit(x_train_updated,y_train)                               # F
it ur trainig data
```

In [22]:
```
def probability(dictionary, x, current_class):
    output = ma.log(dictionary[current_class]["total"]) - ma.log(dictio
nary["total"])
    num_features = len(dictionary[current_class].keys()) - 2
    for j in range( num_features ):
        if x[j]==0:
            continue
        count_current_class_with_value_j = dictionary[current_class][j]
+1
        count_current_class = dictionary[current_class]['total']+num_fe
atures
        current_j_probablity = ma.log(count_current_class_with_value_j)
 - ma.log(count_current_class)
        output = output + current_j_probablity
    return output

def doSinglePrediction(x,dictionary):
# Function to predict class for a single row
    classes = dictionary.keys()
# Get all possible classes
    best_p = -100
# Initialise best probablity & class to some -ve number
    best_class = -100
    first_run = True
# Running for first time = True
    for current_class in classes:
```

```python
        # Iterate over each possible class
        if (current_class == "total"):
# Ignore 'total' key
            continue
        p_current_class = probability(dictionary, x, current_class)
# Get probablity for x belonging to current class
        if (first_run or p_current_class > best_p):
# If this is greatest probablity till now, change the
            best_p = p_current_class
 # value of greatest probability & predicted class
            best_class = current_class
        first_run = False
# First run complete
    return best_class
# Return the predicted class out of all classes

def y_predict(x_test,d,features):
 # Function to predict the output values for test data
    y_pred=np.zeros(len(x_test))
 # We will use this numpy array to store predictions
    x_test_updated=updateXTrain(x_test,features)
 # Update x_test so that our model can operate on it
    x_test_updated=np.array(x_test_updated)
 # Change pandas dataframe to numpy array
    for i in range(len(x_test)):
                                                        # Extr
act one-one row from data
        curr_x=x_test_updated[i,:]
 # Extract one-one row
        y_pred[i]=doSinglePrediction(curr_x,d)
 # Predict class for current row, store the prediction
    return y_pred
 # Return predictions
```

In [23]:
```python
y_pred=y_predict(x_test,d,features)
 # Call function to predict classes for x_test
print(classification_report(y_test,y_pred))
 # Print classification report
```

```python
print(confusion_matrix(y_test,y_pred))
 # Print confusion matrix
```

```
              precision    recall  f1-score   support

           0       0.93      0.88      0.90        42
           1       0.50      0.69      0.58        54
           2       1.00      0.06      0.11        54
           3       0.56      0.61      0.58        66
           4       0.53      0.84      0.65        56
           5       0.92      0.70      0.79        66
           6       0.71      0.88      0.79        50
           7       0.75      0.85      0.80        61
           8       0.86      0.85      0.86        60
           9       0.91      0.89      0.90        66
          10       0.96      0.87      0.91        55
          11       0.91      0.96      0.94        54
          12       0.71      0.83      0.77        60
          13       0.90      0.83      0.86        52
          14       0.86      0.92      0.89        60
          15       0.89      0.93      0.91        60
          16       0.96      0.81      0.88        62
          17       0.97      0.90      0.93        62
          18       0.88      0.84      0.86        45
          19       0.78      0.74      0.76        47

    accuracy                           0.79      1132
   macro avg       0.82      0.79      0.78      1132
weighted avg       0.82      0.79      0.78      1132

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```

```
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```

In [24]:
```python
from sklearn.metrics import accuracy_score
print(accuracy_score(y_test,y_pred))
```

```
0.7941696113074205
```

In [25]:
```python
print('\n\n\t\tCOMPARING WITH LIBRARY IMPLEMENTATION')      # Compare built model with the sklearn's inbuilt model

from sklearn.naive_bayes import MultinomialNB               # Import MultinomialDB from sklearn
clf = MultinomialNB()                                       # Create object of MultinomialDB
clf.fit(x_train_updated, y_train)                           # Fit the training data
x_test_updated=updateXTrain(x_test,features)                # Update x_test so that model can operate on it
x_test_updated=np.array(x_test_updated)                     # Convert to np array
y_pred = clf.predict(x_test_updated)                        # Do predictions
print(classification_report(y_test,y_pred))                 # Print classification report
print(confusion_matrix(y_test,y_pred))                      # Print confusion matrix
print(accuracy_score(y_test,y_pred))
```

```
		COMPARING WITH LIBRARY IMPLEMENTATION
```

```
              precision    recall  f1-score   support

           0       0.90      0.88      0.89        42
           1       0.47      0.65      0.55        54
           2       0.60      0.06      0.10        54
           3       0.60      0.65      0.62        66
           4       0.59      0.82      0.69        56
           5       0.64      0.67      0.65        66
           6       0.65      0.88      0.75        50
           7       0.75      0.74      0.74        61
           8       0.75      0.90      0.82        60
           9       0.89      0.88      0.89        66
          10       0.96      0.87      0.91        55
          11       0.94      0.89      0.91        54
          12       0.73      0.78      0.76        60
          13       0.93      0.83      0.88        52
          14       0.91      0.85      0.88        60
          15       0.95      0.92      0.93        60
          16       0.84      0.76      0.80        62
          17       0.93      0.90      0.92        62
          18       0.87      0.76      0.81        45
          19       0.77      0.79      0.78        47

    accuracy                           0.77      1132
   macro avg       0.78      0.77      0.76      1132
weighted avg       0.78      0.77      0.76      1132

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```

```
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[ 0  2  0  0  0  1  1  0  0  1  0  0  2  1 51  0  1  0  0  0]
[ 1  1  0  0  0  0  1  0  1  0  0  0  1  0  0 55  0  0  0  0]
[ 1  0  0  1  0  0  1  1  0  0  0  2  0  0  0  0 47  3  2  4]

[ 0  0  0  0  1  0  2  1  1  0  0  0  1  0  0  0  0 56  0  0]
[ 0  0  0  1  0  0  1  0  0  1  0  0  0  0  1  1  4  0 34  2]
[ 2  0  0  0  0  1  0  0  1  1  0  0  1  0  0  2  0  1  1 37]]
0.7729681978798587
```

On comparing above results we can see that our implementation is performing better than the library implementation of Naive Bayes.