In [1]:
```
import os
import math
import numpy as np
from collections import Counter
import time
```

In [2]:
```
# make prior probabilities dynamic

sizett = 463
x = os.listdir("assignment3_train\\train")
spamwc={}
hamwc = {}
totalwc = {}
for i in x:
    y = os.listdir("assignment3_train\\train\\" + i)
    if i=="spam":
        for j in y:
            f = "assignment3_train\\train\\" + i + "\\" + j
            file=open(f,"r", errors = 'ignore')
            for word in file.read().split():
                if word not in spamwc and word.isalpha():
                    spamwc[word] = 1
                    totalwc[word] = 1
                elif word.isalpha():
                    spamwc[word] += 1
                    totalwc[word] += 1
    else:
        for j in y:
            f = "assignment3_train\\train\\" + i + "\\" + j
            file=open(f,"r", errors = 'ignore')
            for word in file.read().split():
                if word not in hamwc and word.isalpha():
                    hamwc[word] = 1
                    totalwc[word] = 1
                elif word.isalpha():
                    hamwc[word] += 1
                    totalwc[word] += 1

# totalwc = Counter(hamwc) + Counter(spamwc)
print(len(totalwc))
```

```
9186
```

In [3]:
```
totalw_s = sum(spamwc.values())
totalw_h = sum(hamwc.values())
novoc = len(totalwc)
cs = 0
ch = 0
cst = 0
cht = 0
# Naive Bayes
for i in x:
    y = os.listdir("assignment3_test\\test\\" + i)
    for j in y:
        test_sh = {}
        f = "assignment3_test\\test\\" + i + "\\" + j
        file=open(f,"r", errors = 'ignore')
```

```
        for word in file.read().split():
            if word not in test_sh and word.isalpha():
                test_sh[word] = 1
            elif word.isalpha():
                test_sh[word] += 1
        prob_s = math.log(123/sizett)
        prob_h = math.log(340/sizett)
        # print(prob_s, prob_h)
        for k in test_sh:
            if spamwc.get(k) != None:
                prob_s = prob_s + math.log((spamwc.get(k)+1)/((totalw_s)+(novoc)))
            else:
                prob_s = prob_s + math.log((1)/((totalw_s)+(novoc)))
            if hamwc.get(k) != None:
                prob_h = prob_h + math.log((hamwc.get(k)+1)/((totalw_h)+(novoc)))
            else:
                prob_h = prob_h + math.log((1)/((totalw_h)+(novoc)))

            if prob_s > prob_h:
                cs = cs + 1
                if i=="spam":
                    cst = cst + 1
            elif prob_h > prob_s:
                ch = ch + 1
                if i=="ham":
                    cht = cht + 1

print(cst/cs,cht/ch,(cst+cht)/(cs+ch))
```

```
0.8550707046185592 0.9708009762591524 0.9219214600635702
```

In [4]:

```
ltotalwc = list(totalwc.keys())
mat = np.zeros((sizett,len(ltotalwc)+1))
ind = 0
for i in x:
    y = os.listdir("assignment3_train\\train\\" + i)
    for j in y:
        logwc = {}
        f = "assignment3_train\\train\\" + i + "\\" + j
        file=open(f,"r", errors = 'ignore')
        for word in file.read().split():
            if word not in logwc and word.isalpha():
                logwc[word] = 1
            elif word.isalpha():
                logwc[word] += 1
        for k in logwc:
            mat[ind][ltotalwc.index(k)] = logwc[k]
        if i=="spam":
            mat[ind][len(ltotalwc)] = 1
        ind = ind + 1
# print(mat[343][mat.shape[0]]+1)
```

In [6]:

```
# def L_one(x):
#     if x<=0:
#         return np.log(1+np.exp(x))
#     if x>0:
#         return np.log(1+np.exp(-x))+x

def prob(w,x):
```

```
    s = 0
#     print(x)
    for i in range(len(x)):
        s = s + (w[i]*x[i])
    try:
        p = math.exp(w[0]+s)/(1 + math.exp(w[0]+s))
    except:
        p = 1
    return p

# w_new = np.ones(len(totalwc)+1)
# for k in range(1):
#     w = w_new
#     for i in range(mat.shape[0]):
#         temp = 0
#         probab = prob(w,mat[i])
#         for j in range(mat.shape[1]):
#             temp = temp + mat[i][j]*((mat[i][mat.shape[1]-1])-probab)
#         w_new[i] = w[0]+ (0.01 * temp) - (0.01*0.01*w[0])
```

In [7]:

```
# np.set_printoptions(threshold=np.inf)
# print(w_new[:464])
```

In [54]:

```
w_new = np.ones(len(totalwc)+1)
w = np.ones(len(totalwc)+1)
j = 0
start = time.time()
for i in range(len(w)):
    temp = 0
    for j in range(mat.shape[0]):
#             probab =
        temp = temp + mat[j][i]*((mat[j][mat.shape[1]-1])-prob(w,mat[j]))
    w_new[i] = w[i]+ (0.01 * temp) - (0.01*0.01*w[i])
end = time.time()

print(f"Runtime of the program is {end - start}")
```

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Runtime of the program is 14970.166781187057
```

In [55]:

```
np.set_printoptions(threshold=np.inf)
print(w_new)
```

```
[-3.70099656e-01  7.99900000e-01  7.09900454e-01  1.59902616e-01
  8.09900000e-01  5.59900000e-01  8.99900000e-01  7.39900000e-01
  6.99900000e-01 -1.50100000e-01 -1.25010000e+00 -3.01000000e-02
  8.09900000e-01 -6.80010000e+00 -1.42001000e+01 -4.09009999e+00
 -1.31010000e+00 -1.53009665e+00  8.39900000e-01  8.99900000e-01
 -1.28000983e+01 -1.11010000e+00  7.09900000e-01  4.69900000e-01
  7.49900000e-01 -1.26010000e+00 -3.40009648e+00 -1.70099601e-01
 -6.00996040e-02  9.49900000e-01  9.29900000e-01 -3.61009977e+00
 -3.77009540e+00  7.79900000e-01 -6.54009563e+00 -1.08010000e+00
  9.39900000e-01 -5.90096624e-01  7.79900000e-01  9.19900000e-01
 -5.70100000e-01  2.99000000e-02  1.39900000e-01 -2.20100000e-01
```

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 8.09900000e-01 -1.10009999e+00 -6.80100000e-01  8.39900000e-01
 9.89900000e-01 -8.60100000e-01 -3.88010000e+00 -1.83010000e+00
 8.79900000e-01  7.89900000e-01  9.19900000e-01  7.19900000e-01
 9.89900000e-01  2.69900000e-01 -1.26009994e+00 -1.41009983e+00
-1.87009279e+00 -9.30100000e-01  9.19900167e-01  4.99000002e-02
 8.99900000e-01  9.49900000e-01  8.29900000e-01  7.89900000e-01
-4.26004925e+00  7.59900000e-01  9.49900000e-01  9.59900000e-01
 4.09900167e-01  3.29900000e-01  5.19900000e-01  7.29900000e-01
 9.89900000e-01 -1.18009983e+00  8.39900000e-01  4.89924726e-01
-1.80100000e-01  8.69900000e-01  9.29900000e-01  8.79903354e-01
 9.69900000e-01  8.79900000e-01  7.89900000e-01 -1.51000889e+01
 8.89900000e-01  8.29900062e-01  1.49900000e-01 -2.40100000e-01
 3.29900000e-01  6.69900000e-01  6.39900000e-01 -3.48009998e+00
-5.50009938e+00  8.79900000e-01  6.99033535e-02 -2.27009954e+00
 5.89900000e-01 -1.62009998e+00  5.79900000e-01  6.59900000e-01
 2.69900008e-01  1.59900000e-01 -8.70098764e-01  9.09900000e-01
 8.69900000e-01  7.99900000e-01  9.19900000e-01  9.79900000e-01
 8.29900000e-01 -2.01000000e-02  9.79900000e-01  5.59900000e-01
 8.79903354e-01  9.49900000e-01  5.99900000e-01  9.69900000e-01
 8.89900000e-01  9.39900000e-01  7.99900000e-01  8.79900000e-01
 3.29900000e-01  8.29900000e-01  6.29900000e-01  9.09900000e-01
 6.69900000e-01  8.59900000e-01  8.49900000e-01  8.89900000e-01
 9.89900000e-01  9.19900000e-01 -3.07009901e+00  9.49900000e-01
 9.59900000e-01  8.49900000e-01  6.19900000e-01 -1.50100000e-01
 9.69900000e-01  7.79900000e-01  9.79900000e-01  6.39900169e-01
 8.89900000e-01  6.19900167e-01  7.49900000e-01 -6.90099546e-01
 9.89900000e-01 -1.20100000e-01  5.89900003e-01  4.39900000e-01
 8.89900000e-01 -1.03010000e+00  9.79900000e-01 -1.24010000e+00
 5.99900000e-01 -3.01000000e-02  8.69900000e-01  5.29900000e-01
 9.19901234e-01  9.79900003e-01 -8.10100000e-01  8.89900000e-01
 6.89901234e-01  6.79900000e-01  9.89900000e-01  8.49900001e-01
 8.79901234e-01  6.79900000e-01  9.29900000e-01  9.89900000e-01
-7.40100000e-01  7.69900000e-01  8.49900000e-01  6.99900000e-01
 3.59900000e-01  9.89900000e-01  9.19900000e-01  6.69900000e-01
 7.29900000e-01  8.49900000e-01  9.79900000e-01  9.39900000e-01
 9.19900000e-01  9.19900000e-01  8.69900000e-01 -2.41010000e+00
 9.49900000e-01  8.39900000e-01  9.69900000e-01  6.19900000e-01
 9.59900000e-01  9.19900000e-01  2.49900000e-01  8.59900000e-01
 9.39900000e-01  8.29900000e-01  9.90000083e-03  9.79900000e-01
 5.99900000e-01  9.09900000e-01  8.49900000e-01  8.99900000e-01
 8.79900000e-01  9.79900000e-01  9.79900000e-01 -3.80100000e-01
 9.09900000e-01  9.59900000e-01  8.39900000e-01  8.29900000e-01
 6.59900008e-01  4.39900000e-01  9.89900000e-01  8.09900000e-01
 5.69900000e-01 -1.90100000e-01 -1.00009870e+00  9.89900000e-01
 9.39900000e-01  3.29900000e-01 -1.70100000e-01  9.39900000e-01
 9.49900000e-01  4.69900000e-01  8.19900000e-01  8.39900000e-01
 9.89900000e-01  8.79900000e-01  9.39900000e-01  7.89900000e-01
 7.09900001e-01  8.69900000e-01  9.09900000e-01  9.89900000e-01
 9.09900000e-01  9.09900000e-01  9.49900000e-01  9.59900000e-01
 9.59900000e-01  8.49900000e-01  6.79900000e-01  8.89900000e-01
-2.10010000e+00  9.59900000e-01  7.89900000e-01  7.99000000e-02
 2.99000000e-02  9.69900000e-01  8.59900000e-01  9.79900000e-01
 9.09900000e-01  9.69900000e-01  9.29900000e-01  8.89900000e-01
 9.79900000e-01  9.89900000e-01  6.19900167e-01  9.59900000e-01
 5.69900000e-01  3.79900000e-01  6.89900000e-01  7.09900000e-01
 7.69900000e-01 -5.00009660e+00  9.39900000e-01  9.49900000e-01
 8.59900000e-01  9.59900000e-01  9.49900000e-01  9.69900000e-01
 9.89900000e-01  8.69900000e-01  7.89900000e-01  6.49903825e-01
 5.39900000e-01  9.59900000e-01  5.99900000e-01  9.89900000e-01
 9.89900000e-01  9.69900000e-01 -1.67009418e+00  8.79900167e-01
 8.29900000e-01  5.09900000e-01  8.19900001e-01  4.99000015e-02
 9.49900000e-01  9.69900000e-01  9.89900000e-01  6.29900000e-01
 9.89900000e-01  9.79900000e-01  9.29900000e-01  9.79900000e-01
 9.79900000e-01  9.79900000e-01  6.99900000e-01  9.59900000e-01
 9.59900000e-01  9.39900000e-01  8.89900000e-01  9.89900000e-01
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 8.09900000e-01  7.99900000e-01  9.19900000e-01  9.39900000e-01
 9.59900000e-01  9.69900000e-01  9.69900000e-01  9.79900000e-01
 9.69900000e-01  5.39900000e-01  9.39900000e-01  8.59900000e-01
 9.89900000e-01  9.39900000e-01  9.49900000e-01  8.39900000e-01
 9.39900000e-01  4.79900000e-01  9.39900000e-01  9.09900000e-01
 6.69900000e-01  8.59900000e-01  9.89900000e-01  8.29900000e-01
-1.16009645e+00  8.79900000e-01  9.39900000e-01  9.79900000e-01
 8.99900000e-01  8.89900023e-01  9.79900000e-01  9.89900000e-01
 9.89900000e-01  1.39900000e-01  3.99900000e-01  1.39900000e-01
 6.09900000e-01  9.29900000e-01  7.39900000e-01  9.79900000e-01
 7.29900939e-01  9.49900000e-01  5.79900000e-01  7.99900000e-01
 9.69900000e-01  9.39900000e-01  8.69900000e-01  8.99900000e-01
 6.19900000e-01  3.69900000e-01  8.29900000e-01  9.69900000e-01
 9.39900000e-01  9.09900000e-01  8.89900000e-01  3.99900000e-01
 9.09900000e-01  9.89900000e-01  9.89900000e-01  9.19900000e-01
 9.79900000e-01  5.79900000e-01  9.69900000e-01  2.79900000e-01
 2.99901175e-01  7.49900000e-01  6.49900000e-01  7.29900000e-01
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 9.89900000e-01  2.89900000e-01  9.69900000e-01  8.49900003e-01
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 7.89900418e-01  9.19900000e-01  7.89900000e-01  7.69900000e-01
 7.89903354e-01  9.39900000e-01  9.89900000e-01  9.49900000e-01
 9.89900000e-01  5.89900000e-01  9.59900000e-01  9.69900000e-01
 9.89900000e-01  9.89900000e-01  9.29900000e-01  9.69900000e-01
 7.19900230e-01  9.89900000e-01  7.69900000e-01  6.29900000e-01
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 9.89900000e-01  8.99900000e-01  6.09900184e-01  8.39900000e-01
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 9.19900000e-01 -6.01000000e-02  5.99039117e-02  5.19901360e-01
 6.99031734e-02  9.29900000e-01  9.69900000e-01  7.19900000e-01
 4.89900001e-01  8.89900000e-01  9.79900000e-01  8.89900000e-01
 9.69900000e-01  7.39900008e-01  9.79900000e-01  9.89900000e-01
 9.29900000e-01  9.79900000e-01  9.69900000e-01  9.49900000e-01
 5.99900167e-01  7.89900000e-01  6.19900003e-01  7.19900000e-01
 8.39900000e-01  5.09910344e-01  8.59900000e-01  9.79900000e-01
 8.89900000e-01  4.59900000e-01  6.89900000e-01  7.69900000e-01
 9.89900000e-01  9.79900000e-01  9.49900000e-01  9.19900000e-01
 9.69900000e-01  7.39900000e-01  7.09900000e-01  9.89900000e-01
 5.09900000e-01  9.29900000e-01  6.39900000e-01  9.79900000e-01
 9.79900000e-01  3.29924730e-01  7.09901741e-01  9.69900000e-01
 8.29903354e-01  9.29900000e-01  8.79900000e-01  5.09900000e-01
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In [60]:

```
mat_test = np.zeros((478,len(ltotalwc)+1))
ind = 0
for i in x:
    y = os.listdir("assignment3_test\\test\\" + i)
    for j in y:
        logwc = {}
        f = "assignment3_test\\test\\" + i + "\\" + j
        file=open(f,"r", errors = 'ignore')
        for word in file.read().split():
            if word not in logwc and word.isalpha():
                logwc[word] = 1
            elif word.isalpha():
                logwc[word] += 1
        for k in logwc:
            if k in ltotalwc:
                mat_test[ind][ltotalwc.index(k)] = logwc[k]
        if i=="spam":
            mat_test[ind][len(ltotalwc)] = 1
        ind = ind + 1
```

In [73]:

```
th = 0
ts = 0
tt = 0
for i in range(mat_test.shape[0]):
    s = 0
    for j in range(mat_test.shape[1]-1):
        s = s + (w_new[j]*mat_test[i][j])
    s = s + w[0]
    tt += 1
    if mat_test[i][len(ltotalwc)]==1 and s>0:
        ts += 1
    elif mat_test[i][len(ltotalwc)]==0 and s<0:
        th += 1
print("Accuracy:",(ts+th)/tt)
```

```
Accuracy: 0.7719665271966527
```

With Stopwords

In [76]:

```
stopWords = ["a", "about", "above", "after", "again", "against", "all", "am", "an", "an
             "any", "are", "aren't", "as", "at", "be", "because", "been", "before", "be
             "between", "both", "but", "by", "can't", "cannot", "could", "couldn't", "d
             "do", "does", "doesn't", "doing", "don't", "down", "during", "each", "few"
             "further", "had", "hadn't", "has", "hasn't", "have", "haven't", "having",
             "he'll", "he's", "her", "here", "here's", "hers", "herself", "him", "himse
             "how's", "i", "i'd", "i'll", "i'm", "i've", "if", "in", "into", "is", "isn
```

```
"itself", "let's", "me", "more", "most", "mustn't", "my", "myself", "no",
"off", "on", "once", "only", "or", "other", "ought", "our", "ours", "ourse
"own", "same", "shan't", "she", "she'd", "she'll", "she's", "should", "sho
"such", "than", "that", "that's", "the", "their", "theirs", "them", "thems
"there's", "these", "they", "they'd", "they'll", "they're", "they've", "th
"to", "too", "under", "until", "up", "very", "was", "wasn't", "we", "we'd"
"were", "weren't", "what", "what's", "when", "when's", "where", "where's",
"who's", "whom", "why", "why's", "with", "won't", "would", "wouldn't", "yo
"you're", "you've", "your", "yours", "yourself", "yourselves"]
```

In [82]:

```
sizett = 463
x = os.listdir("assignment3_train\\train")
spamwc={}
hamwc = {}
totalwc = {}
for i in x:
    y = os.listdir("assignment3_train\\train\\" + i)
    if i=="spam":
        for j in y:
            f = "assignment3_train\\train\\" + i + "\\" + j
            file=open(f,"r", errors = 'ignore')
            for word in file.read().split():
                if word not in stopWords:
                    if word not in spamwc and word.isalpha():
                        spamwc[word] = 1
                        totalwc[word] = 1
                    elif word.isalpha():
                        spamwc[word] += 1
                        totalwc[word] += 1
    else:
        for j in y:
            f = "assignment3_train\\train\\" + i + "\\" + j
            file=open(f,"r", errors = 'ignore')
            for word in file.read().split():
                if word not in stopWords:
                    if word not in hamwc and word.isalpha():
                        hamwc[word] = 1
                        totalwc[word] = 1
                    elif word.isalpha():
                        hamwc[word] += 1
                        totalwc[word] += 1

# totalwc = Counter(hamwc) + Counter(spamwc)
print(len(totalwc))
```

```
9068
```

In [83]:

```
totalw_s = sum(spamwc.values())
totalw_h = sum(hamwc.values())
novoc = len(totalwc)
cs = 0
ch = 0
cst = 0
cht = 0
# Naive Bayes
for i in x:
    y = os.listdir("assignment3_test\\test\\" + i)
    for j in y:
        test_sh = {}
```

```
        f = "assignment3_test\\test\\" + i + "\\" + j
        file=open(f,"r", errors = 'ignore')
        for word in file.read().split():
            if word not in stopWords:
                if word not in test_sh and word.isalpha():
                    test_sh[word] = 1
                elif word.isalpha():
                    test_sh[word] += 1
        prob_s = math.log(123/sizett)
        prob_h = math.log(340/sizett)
        # print(prob_s, prob_h)
        for k in test_sh:
            if spamwc.get(k) != None:
                prob_s = prob_s + math.log((spamwc.get(k)+1)/((totalw_s)+(novoc)))
            else:
                prob_s = prob_s + math.log((1)/((totalw_s)+(novoc)))
            if hamwc.get(k) != None:
                prob_h = prob_h + math.log((hamwc.get(k)+1)/((totalw_h)+(novoc)))
            else:
                prob_h = prob_h + math.log((1)/((totalw_h)+(novoc)))

            if prob_s > prob_h:
                cs = cs + 1
                if i=="spam":
                    cst = cst + 1
            elif prob_h > prob_s:
                ch = ch + 1
                if i=="ham":
                    cht = cht + 1

print("Accuracy",(cst+cht)/(cs+ch))
```

```
Accuracy 0.9231868643222761
```

In [84]:

```
ltotalwc = list(totalwc.keys())
mat = np.zeros((sizett,len(ltotalwc)+1))
ind = 0
for i in x:
    y = os.listdir("assignment3_train\\train\\" + i)
    for j in y:
        logwc = {}
        f = "assignment3_train\\train\\" + i + "\\" + j
        file=open(f,"r", errors = 'ignore')
        for word in file.read().split():
            if word not in stopWords:
                if word not in logwc and word.isalpha():
                    logwc[word] = 1
                elif word.isalpha():
                    logwc[word] += 1
        for k in logwc:
            mat[ind][ltotalwc.index(k)] = logwc[k]
        if i=="spam":
            mat[ind][len(ltotalwc)] = 1
        ind = ind + 1
```

In [85]:

```
w_new = np.ones(len(totalwc)+1)
w = np.ones(len(totalwc)+1)
j = 0
for k in range(itr):
```

```
    w = w_new.copy()
    w_new = np.ones(len(totalwc)+1)
    for i in range(len(w)):
        temp = 0
        if i%20==0:
            print(i)
        for j in range(mat.shape[0]):
    #             probab =
            temp = temp + mat[j][i]*((mat[j][mat.shape[1]-1])-prob(w,mat[j]))
        w_new[i] = w[i]+ (0.01 * temp) - (0.01*0.01*w[i])
```

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0
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In [86]:
```
print(w_new)
```

```
[ -0.37008718   0.7999       0.70990052   0.1599051    0.8099
   0.8999       0.7399       0.6999      -0.1501      -0.0301
   0.8099      -6.8001     -14.2001       0.8399       0.8999
  -1.1101       0.7099       0.4699       0.7499      -1.2601
   0.9499       0.9299       0.9399      -0.59007403   0.7799
   0.9199      -0.57009993   0.0299       0.1399      -0.2201
   0.8099       0.8399       0.9899      -0.8601       0.8799
   0.7899       0.9199       0.7199       0.9899       0.2699
  -1.4100983   -1.86996029   0.91990911   0.04990001   0.8999
   0.9499       0.8299       0.7899       0.7599       0.9499
   0.9599       0.40990911   0.32990002   0.5199       0.7299
   0.9899      -1.18009954   0.48996693  -0.1801       0.8699
   0.9299       0.87992473   0.9699       0.8799       0.7899
   0.8899       0.82990017   0.6699       0.6399       0.8799
  -1.62009976   0.5799       0.6599       0.1599       0.9099
   0.7999       0.9199       0.9799       0.8299      -0.0201
   0.9799       0.5599       0.87990911   0.9499       0.5999
   0.9699       0.8899       0.9399       0.7999       0.8799
   0.3299       0.8299       0.6299       0.9099       0.6699
   0.8599       0.8499       0.8899       0.9899       0.9199
   0.9499       0.9599       0.8499       0.61990017  -0.1501
   0.9699       0.9799       0.63990046   0.8899       0.61990123
   0.7499      -0.69007527   0.9899      -0.1201       0.4399
   0.9799       0.5999       0.8699       0.52990002   0.91996693
   0.9799       0.8899       0.68990123   0.6799       0.9899
   0.84990124   0.87990123   0.6799       0.9299       0.9899
  -0.7401       0.8499       0.6999       0.3599       0.9899
   0.6699       0.9799       0.9399       0.9199       0.9199
   0.8699       0.9499       0.8399       0.9699       0.9599
   0.9199       0.8599       0.9399       0.8299       0.9799
   0.5999       0.9099       0.8499       0.8999       0.9799
   0.9799      -0.3801       0.9099       0.9599       0.82990001
   0.65990123   0.9899       0.8099      -0.1901       0.9899
   0.9399       0.3299       0.9399       0.8199       0.8399
   0.9899       0.8799       0.9399       0.78990123   0.70990123
   0.8699       0.9099       0.9899       0.9099       0.9099
   0.9499       0.9599       0.9599       0.8499       0.6799
   0.8899      -2.10009997   0.9599       0.7899       0.0799
   0.0299       0.9699       0.8599       0.9799       0.9099
   0.9699       0.9299       0.8899       0.9799       0.9899
   0.61990914   0.9599       0.56990006   0.3799       0.6899
   0.7099       0.7699      -5.00009074   0.9399       0.9499
   0.8599       0.9599       0.9499       0.9699       0.9899
   0.8699       0.7899       0.64992191   0.9599       0.5999
   0.9899       0.9899       0.9699       0.87990911   0.8299
   0.5099       0.81990012   0.04990247   0.9499       0.9699
   0.9899       0.6299       0.9899       0.9799       0.9299
   0.9799       0.9799       0.9799       0.6999       0.9599
   0.9599       0.9399       0.8899       0.9899       0.8099
   0.7999       0.9199       0.9399       0.9599       0.9699
```

0.9699	0.9799	0.9699	0.5399	0.9399
0.8599	0.9899	0.9399	0.9499	0.8399
0.9399	0.4799	0.9399	0.9099	0.6699
0.85990006	0.9899	0.8299	-1.16009035	0.8799
0.9399	0.9799	0.8999	0.88990017	0.9799
0.9899	0.9899	0.6099	0.9299	0.7399
0.9799	0.9499	0.5799	0.7999	0.9699
0.8699	0.8999	0.6199	0.8299	0.9699
0.9399	0.9099	0.8899	0.3999	0.9099
0.9899	0.9899	0.9199	0.9799	0.5799
0.9699	0.2799	0.2999032	0.74990123	0.6499
0.9099	0.9599	0.78990297	0.9899	0.9899
0.9699	0.8499	0.9899	0.9699	0.9099
0.6899	0.8899	0.7599	0.9299	0.9499
0.9299	0.9899	0.9899	0.9599	0.9499
0.8199	0.9899	0.11990001	0.9799	0.8999
0.9899	0.4899	0.8699	0.8699	0.9499
0.9499	0.81990001	0.9599	0.8099	0.9299
0.7699	0.9799	0.9899	0.78990114	0.7899
0.9399	0.9899	0.94990123	0.9899	0.5899
0.9599	0.9699	0.9899	0.9899	0.9299
0.9699	0.71990062	0.9899	0.7699	0.62990006
0.9099	0.9599	0.5599	0.9199	0.9899
0.9899	0.8999	0.6099005	0.8399	0.9799
0.6999	0.9699	0.9699	0.9199	-0.0601
0.05991545	0.5199037	0.06990786	0.9299	0.9699
0.7199	0.48990123	0.8899	0.9799	0.8899
0.9699	0.73990123	0.9799	0.9899	0.9299
0.9799	0.9699	0.9499	0.59990336	0.7899
0.61990045	0.7199	0.8399	0.50997604	0.8599
0.9799	0.8899	0.4599	0.6899	0.7699
0.9899	0.9799	0.9499	0.9199	0.9699
0.70990001	0.9899	0.5099	0.9299	0.9799
0.9799	0.32996741	0.70990481	0.9699	0.82996693
0.9299	0.8799	0.5099	0.9599	0.9499
0.9399	0.9699	0.9299	0.8799	0.93997604
0.97996693	0.8199773	0.9899	0.9499	0.9499
0.8699	0.9499	0.8899	0.9499	0.9299
0.8599	0.9799	0.90990459	0.9499	0.7099671
0.8799	0.9699	0.9599	0.9699	0.5999
0.6099	0.73990123	0.9099	0.8799	0.9599
0.9699	0.8299	0.9699	0.8999	0.9599
0.9899	0.86990123	0.8699	0.9599	0.9899
0.9899	0.9399	0.9599	0.9799	0.9899
0.9799	0.9799	0.9399	0.9599	0.9599
0.8899	0.46990001	0.9599	0.9799	0.9899
0.8999	0.9499	0.9299	0.9899	0.9899
0.9499	0.9799	0.9199	0.8199	0.6799
0.9899	0.9799	0.9799	0.9199	0.9799
0.9699	0.9899	0.9799	0.9899	0.8399
0.8999	0.8499	0.6999	0.9799	0.9899
0.8899	0.9499	0.9899	0.9699	0.9499
0.9799	0.9799	0.8799	0.9499	0.9499
0.8999	0.9899	0.9699	0.9699	0.9899
0.8999	0.9899	0.9199	0.9899	0.71990091
0.8399	0.9899	0.9299	0.9699	0.9699
0.9899	0.9799	0.9899	0.9499	0.9799
0.8199	0.9799	0.9299	0.9699	0.9099
0.9199	0.9799	0.9899	0.9799	0.9499
0.8799	0.9899	0.9399	0.9899	0.9899
0.9199	0.9599	0.9299	0.7799	0.9499
0.8199	0.9899	0.8799	0.9499	0.20990174
0.9899	0.9699	0.9899	0.9499	0.9799
0.9299	0.9799	0.7599	0.9699	0.8899
0.9399	0.9899	0.79990123	0.60992508	0.78990001

0.8299	0.9899	0.7499	0.8699	0.9199
0.9199	0.9799	0.9899	0.4399	0.9899
0.9499	0.9499	0.8899	0.8599	0.7999
0.7299	0.9699	0.8799	0.9399	0.9599
0.81992473	0.8999	0.96990017	0.9399	0.9499
0.9799	0.9799	0.65990123	0.9599	0.9499
0.8899	0.9499	0.8599	0.62990342	0.9699
0.9799	0.9899	0.9699	0.9299	0.82990001
0.9699	0.9899	0.9899	0.7899	0.9799
0.6599	0.9899	0.9399	0.9199	0.9599
0.8499	0.9699	0.9799	0.9199	0.9799
0.9899	0.9399	0.87990369	0.7699	0.9799
0.9299	0.9299	0.9799	0.9899	0.8199
0.9399	0.9599	0.9599	0.9699	0.7999
0.81990123	0.9799	0.7099	0.9099	0.9799
0.9799	0.7899	0.9499	0.9799	0.9099
0.9199	0.8999	0.9899	0.9499	0.8999
0.9899	0.9699	0.9399	0.9799	0.9399
0.8899	0.8399	0.9899	0.3999	0.9399
0.9499	0.9699	0.9899	0.9599	0.9899
0.9899	0.9699	0.9599	0.7299	0.9599
0.8099	0.9599	0.8999	0.9899	0.7099
0.8299	-0.0301	0.67990091	0.8799	0.9099
0.9399	0.77996693	0.8299	0.8699	0.7799
0.8099	0.9899	0.9099	0.9099	0.9799
0.53990023	0.8999	0.8799	0.9499	0.9299
0.9599	0.9799	0.9599	0.9699	0.9699
0.9799	0.9199	0.9299	0.8099	0.9399
0.6099	0.8999	0.9899	0.9599	0.9799
0.9799	0.9899	0.9899	0.9799	0.9499
0.7399	0.8799	0.8799	0.9899	0.7299
0.7699	0.9799	0.9399	0.75990264	0.7599
0.9799	0.6999	0.6699	0.31990007	0.9799
0.9599	0.9799	0.5899	0.9899	0.9799
0.9799	0.9199	0.9399	0.9799	0.9899
0.9799	0.9699	0.9399	0.9799	0.6199
0.7899	0.9899	0.9599	0.8899	0.9399
0.6299	0.9599	0.9899	0.7299	0.6899013
0.9899	0.85992473	0.8599	0.8799	0.9199
0.9499	0.8899	0.9299	0.9599	0.9799
0.9599	0.9599	0.9899	0.9899	0.9399
0.9499	0.9899	0.9499	0.79990001	0.26990001
0.9399	0.9899	0.9899	0.8799	0.9899
0.9899	0.9199	0.78992473	0.9399	0.9199
0.9799	0.9599	0.8599	0.9099	0.8299
0.78990123	0.9399	0.9299	0.8799	0.9899
0.9699	0.9799	0.9699	0.9799	0.9799
0.7999	0.9699	0.9499	0.9399	0.9899
0.9899	0.9899	0.9799	0.9899	0.9499
0.8199	0.7399	0.9599	0.9699	0.86990017
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0.9699	0.9899	0.9399	0.9799	0.9599
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0.8899	0.8199	0.7699	0.9799	0.9699
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0.9799	0.8399	0.7399	0.9599	0.9899
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0.9799	0.9699	0.9599	0.9699	0.9499

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0.9899       0.9899       0.2399       0.51990476   0.9599
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0.9899  0.9799  0.9899  0.9499  0.9699
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0.9899	0.9399	0.9899	0.9599	0.9799
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0.9899	0.9799	0.9899	0.9899	0.9899
0.9899	0.9599	0.9899	0.9899	0.9899

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0.97990911 0.9899     0.9899     0.9799     0.9699
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0.9999     0.9999     0.9999     0.9999     0.9999
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0.9999      0.9999      0.9999      0.9999      0.9999
0.9999      0.9999      0.9999      1.00154393]
```

In [87]:

```
mat_test = np.zeros((478,len(ltotalwc)+1))
ind = 0
for i in x:
    y = os.listdir("assignment3_test\\test\\" + i)
    for j in y:
        logwc = {}
        f = "assignment3_test\\test\\" + i + "\\" + j
        file=open(f,"r", errors = 'ignore')
        for word in file.read().split():
            if word not in stopWords:
                if word not in logwc and word.isalpha():
                    logwc[word] = 1
                elif word.isalpha():
                    logwc[word] += 1
        for k in logwc:
            if k in ltotalwc:
                mat_test[ind][ltotalwc.index(k)] = logwc[k]
        if i=="spam":
            mat_test[ind][len(ltotalwc)] = 1
        ind = ind + 1
```

In [88]:

```
th = 0
ts = 0
tt = 0
for i in range(mat_test.shape[0]):
    s = 0
    for j in range(mat_test.shape[1]-1):
        s = s + (w_new[j]*mat_test[i][j])
    s = s + w[0]
    tt += 1
    if mat_test[i][len(ltotalwc)]==1 and s>0:
        ts += 1
    elif mat_test[i][len(ltotalwc)]==0 and s<0:
        th += 1
print("Accuracy:",(ts+th)/tt)
```

```
Accuracy: 0.502092050209205
```

In [ ]: