Microsoft Malware detection

1.Business/Real-world Problem

1.1. What is Malware?

The term malware is a contraction of malicious software. Put simply, malware is any piece of software that was written with the intent of doing harm to data, devices or to people.
Source: https://www.avg.com/en/signal/what-is-malware

1.2. Problem Statement

In the past few years, the malware industry has grown very rapidly that, the syndicates invest heavily in technologies to evade traditional protection, forcing the anti-malware groups/communities to build more robust softwares to detect and terminate these attacks. The major part of protecting a computer system from a malware attack is to **identify whether a given piece of file/software is a malware.**

1.3 Source/Useful Links

Microsoft has been very active in building anti-malware products over the years and it runs it's anti-malware utilities over 150 million computers around the world. This generates tens of millions of daily data points to be analyzed as potential malware. In order to be effective in analyzing and classifying such large amounts of data, we need to be able to group them into groups and identify their respective families.

This dataset provided by Microsoft contains about 9 classes of malware. ,

Source: https://www.kaggle.com/c/malware-classification

1.4. Real-world/Business objectives and constraints.

1. **Minimize multi-class error.**
2. **Multi-class probability estimates.**
3. **Malware detection should not take hours and block the user's computer. It should fininsh in a few seconds or a minute.**

2. Machine Learning Problem

2.1. Data

2.1.1. Data Overview

- **Source : https://www.kaggle.com/c/malware-classification/data**
- **For every malware, we have two files**
  1. **.asm file (read more: https://www.reviversoft.com/file-extensions/asm)**
  2. **.bytes file (the raw data contains the hexadecimal representation of the file's binary content, without the PE header)**
- **Total train dataset consist of 200GB data out of which 50Gb of data is .bytes files and 150GB of data is .asm files:**
- **Lots of Data for a single-box/computer.**
- **There are total 10,868 .bytes files and 10,868 asm files total 21,736 files**
- **There are 9 types of malwares (9 classes) in our give data**
- **Types of Malware:**
  1. **Ramnit**

1. Kammt
2. Lollipop
3. Kelihos_ver3
4. Vundo
5. Simda
6. Tracur
7. Kelihos_ver1
8. Obfuscator.ACY
9. Gatak

2.1.2. Example Data Point

.asm file

```
.text:00401000                                  assume es:nothing, ss:nothing, ds:_data,
s:nothing, gs:nothing
.text:00401000 56                               push    esi
.text:00401001 8D 44 24 08                          lea     eax, [esp+8]
.text:00401005 50                               push    eax
.text:00401006 8B F1                                mov     esi, ecx
.text:00401008 E8 1C 1B 00 00                           call    ??
0exception@std@@QAE@ABQBD@Z ; std::exception::exception(char const * const &)
.text:0040100D C7 06 08 BB 42 00                        mov     dword ptr [esi], offset o
f_42BB08
.text:00401013 8B C6                                mov     eax, esi
.text:00401015 5E                               pop     esi
.text:00401016 C2 04 00                             retn    4
.text:00401016                          ; ---------------------------------------------
-------------------------
.text:00401019 CC CC CC CC CC CC CC                      align 10h
.text:00401020 C7 01 08 BB 42 00                        mov     dword ptr [ecx], offset o
f_42BB08
.text:00401026 E9 26 1C 00 00                           jmp     sub_402C51
.text:00401026                          ; ---------------------------------------------
-------------------------
.text:0040102B CC CC CC CC CC                           align 10h
.text:00401030 56                               push    esi
.text:00401031 8B F1                                mov     esi, ecx
.text:00401033 C7 06 08 BB 42 00                        mov     dword ptr [esi], offset o
f_42BB08
.text:00401039 E8 13 1C 00 00                           call    sub_402C51
.text:0040103E F6 44 24 08 01                           test    byte ptr [esp+8], 1
.text:00401043 74 09                                jz      short loc_40104E
.text:00401045 56                               push    esi
.text:00401046 E8 6C 1E 00 00                           call    ??3@YAXPAX@Z    ; operato
delete(void *)
.text:0040104B 83 C4 04                             add     esp, 4
.text:0040104E
.text:0040104E                          loc_40104E:                 ; CODE XREF:
.text:00401043 j
.text:0040104E 8B C6                                mov     eax, esi
.text:00401050 5E                               pop     esi
.text:00401051 C2 04 00                             retn    4
.text:00401051                          ; ---------------------------------------------
-------------------------
```

.bytes file

```
00401000 00 00 80 40 40 28 00 1C 02 42 00 C4 00 20 04 20
00401010 00 00 20 09 2A 02 00 00 00 00 8E 10 41 0A 21 01
00401020 40 00 02 01 00 90 21 00 32 40 00 1C 01 40 C8 18
00401030 40 82 02 63 20 00 00 09 10 01 02 21 00 82 00 04
00401040 82 20 08 83 00 08 00 00 00 00 02 00 60 80 10 80
00401050 18 00 00 20 A9 00 00 00 00 04 04 78 01 02 70 90
```

```
00401060 00 02 00 08 20 12 00 00 00 40 10 00 80 00 40 19
00401070 00 00 00 00 11 20 80 04 80 10 00 20 00 00 25 00
00401080 00 00 01 00 00 04 00 10 02 C1 80 80 00 20 20 00
00401090 08 A0 01 01 44 28 00 00 08 10 20 00 02 08 00 00
004010A0 00 40 00 00 00 34 40 40 00 04 00 08 80 08 00 08
004010B0 10 00 40 00 68 02 40 04 E1 00 28 14 00 08 20 0A
004010C0 06 01 02 00 40 00 00 00 00 00 00 20 00 02 00 04
004010D0 80 18 90 00 00 10 A0 00 45 09 00 10 04 40 44 82
004010E0 90 00 26 10 00 00 04 00 82 00 00 00 20 40 00 00
004010F0 B4 00 00 40 00 02 20 25 08 00 00 00 00 00 00 00
00401100 08 00 00 50 00 08 40 50 00 02 06 22 08 85 30 00
00401110 00 80 00 80 60 00 09 00 04 20 00 00 00 00 00 00
00401120 00 82 40 02 00 11 46 01 4A 01 8C 01 E6 00 86 10
00401130 4C 01 22 00 64 00 AE 01 EA 01 2A 11 E8 10 26 11
00401140 4E 11 8E 11 C2 00 6C 00 0C 11 60 01 CA 00 62 10
00401150 6C 01 A0 11 CE 10 2C 11 4E 10 8C 00 CE 01 AE 01
00401160 6C 10 6C 11 A2 01 AE 00 46 11 EE 10 22 00 A8 00
00401170 EC 01 08 11 A2 01 AE 10 6C 00 6E 00 AC 11 8C 00
00401180 EC 01 2A 10 2A 01 AE 00 40 00 C8 10 48 01 4E 11
00401190 0E 00 EC 11 24 10 4A 10 04 01 C8 11 E6 01 C2 00
```

2.2. Mapping the real-world problem to an ML problem

2.2.1. Type of Machine Learning Problem

There are nine different classes of malware that we need to classify a given a data point => Multi class classification problem

2.2.2. Performance Metric

Source: https://www.kaggle.com/c/malware-classification#evaluation

Metric(s):

- **Multi class log-loss**
- **Confusion matrix**

2.2.3. Machine Learing Objectives and Constraints

Objective: Predict the probability of each data-point belonging to each of the nine classes.

Constraints:

- **Class probabilities are needed.**
- **Penalize the errors in class probabilites => Metric is Log-loss.**
- **Some Latency constraints.**

2.3. Train and Test Dataset

Split the dataset randomly into three parts train, cross validation and test with 64%,16%, 20% of data respectively

2.4. Useful blogs, videos and reference papers

http://blog.kaggle.com/2015/05/26/microsoft-malware-winners-interview-1st-place-no-to-overfitting/
https://arxiv.org/pdf/1511.04317.pdf
First place solution in Kaggle competition: https://www.youtube.com/watch?v=VLQTRILGz5Y

https://github.com/dchad/malware-detection
http://vizsec.org/files/2011/Nataraj.pdf
https://www.dropbox.com/sh/gfqzv0ckgs4l1bf/AAB6EeInEjvvuQg2nu_plB6ua?dl=0
" Cross validation is more trustworthy than domain knowledge."

3. Exploratory Data Analysis

In [1]:

```
import warnings
warnings.filterwarnings("ignore")
import shutil
import os
import pandas as pd
import matplotlib
matplotlib.use(u'nbAgg')
import matplotlib.pyplot as plt
import seaborn as sns
import numpy as np
import pickle
from sklearn.manifold import TSNE
from sklearn import preprocessing
import pandas as pd
from multiprocessing import Process# this is used for multithreading
import multiprocessing
import codecs# this is used for file operations
import random as r
from xgboost import XGBClassifier
from sklearn.model_selection import RandomizedSearchCV
from sklearn.tree import DecisionTreeClassifier
from sklearn.calibration import CalibratedClassifierCV
from sklearn.neighbors import KNeighborsClassifier
from sklearn.metrics import log_loss
from sklearn.metrics import confusion_matrix
from sklearn.model_selection import train_test_split
from sklearn.linear_model import LogisticRegression
from sklearn.ensemble import RandomForestClassifier
```

In [2]:

```
import py7zr
```

In [5]:

```
!wget --header="Host: storage.googleapis.com" --header="User-Agent: Mozilla/5.0 (Windows NT 10.0;
Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/81.0.4044.138 Safari/537.36" --header="A
ccept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8,application/s
d-exchange;v=b3;q=0.9" --header="Accept-Language: en-IN,en-GB;q=0.9,en-US;q=0.8,en;q=0.7" --header
="Referer: https://www.kaggle.com/"
"https://storage.googleapis.com/kagglesdsdata/competitions/4117/46665/train.7z?GoogleAccessId=web-
data@kaggle-
161607.iam.gserviceaccount.com&Expires=1590395690&Signature=sS0tuOxkehiCnee2nPrSJNPgwEN5gPdfM%2BDWy
%2FL1qL%2BW%2Bb8gTPM%2F8p%2FRH7nTtwoBd1kTADZOpOMji98Ce9iq3y9VVcZbgYOvBS%2BLGMRXD4YkYvpj2p1Z1boNV85C
zyaTsppnA7R%2FdS1EvE0koF86imX5AUjM%2BVZLLogA%2F2ijHK7KT5m7GIGbrFRpTKrwRrDJG%2FSPbAEmzrD4H4YGUN3NaHZ
xhNhzz27Hu9QRSzBm6aavlSoBbheviursTzvdKf6KsCg3QhMI4llEU7cDRaAEFecobE6ps103Wk0NMPFyd2Y2mONJWTX0sxNtXE
d9WyjiZTspuSvQ%3D%3D&response-content-disposition=attachment%3B+filename%3Dtrain.7z" -c -O 'train.
7z'
```

```
--2020-05-22 08:35:16--
https://storage.googleapis.com/kagglesdsdata/competitions/4117/46665/train.7z?GoogleAccessId=web-d
ata@kaggle-
161607.iam.gserviceaccount.com&Expires=1590395690&Signature=sS0tuOxkehiCnee2nPrSJNPgwEN5gPdfM%2BDWy
%2FL1qL%2BW%2Bb8gTPM%2F8p%2FRH7nTtwoBd1kTADZOpOMji98Ce9iq3y9VVcZbgYOvBS%2BLGMRXD4YkYvpj2p1Z1boNV85C
zyaTsppnA7R%2FdS1EvE0koF86imX5AUjM%2BVZLLogA%2F2ijHK7KT5m7GIGbrFRpTKrwRrDJG%2FSPbAEmzrD4H4YGUN3NaHZ
xhNhzz27Hu9QRSzBm6aavlSoBbheviursTzvdKf6KsCg3QhMI4llEU7cDRaAEFecobE6ps103Wk0NMPFyd2Y2mONJWTX0sxNtXE
d9WyjiZTspuSvQ%3D%3D&response-content-disposition=attachment%3B+filename%3Dtrain.7z
Resolving storage.googleapis.com (storage.googleapis.com)... 64.233.191.128,
2607:f8b0:4001:c19::80
Connecting to storage.googleapis.com (storage.googleapis.com)|64.233.191.128|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 18810691091 (18G) [application/x-7z-compressed]
```

```
Saving to: 'train.7z'

train.7z            100%[===================>]  17.52G   111MB/s    in 5m 11s

2020-05-22 08:40:27 (57.8 MB/s) - 'train.7z' saved [18810691091/18810691091]
```

In [6]:

```
#reading 7z file
train_7z=py7zr.SevenZipFile('train.7z',mode='r')
```

In [7]:

```
#extracting file
train_7z.extractall()
```

In [22]:

```
#separating byte files and asm files

source = 'train'
destination_1 = 'byteFiles'
destination_2 = 'asmFiles'

# we will check if the folder 'byteFiles' exists if it not there we will create a folder with the
same name
if not os.path.isdir(destination_1):
    os.makedirs(destination_1)
if not os.path.isdir(destination_2):
    os.makedirs(destination_2)
```

In [23]:

```
# if we have folder called 'train' (train folder contains both .asm files and .bytes files) we wil
l rename it 'asmFiles'
# for every file that we have in our 'asmFiles' directory we check if it is ending with .bytes, if
yes we will move it to
# 'byteFiles' folder

# so by the end of this snippet we will separate all the .byte files and .asm files
data_files=os.listdir(source)
for file in data_files:
    #print(i)
    if (file.endswith("bytes")) or (file.endswith("txt")):
        shutil.move(source+'/'+file,destination_1)
    if (file.endswith("asm")):
        shutil.move(source+'/'+file,destination_2)
```

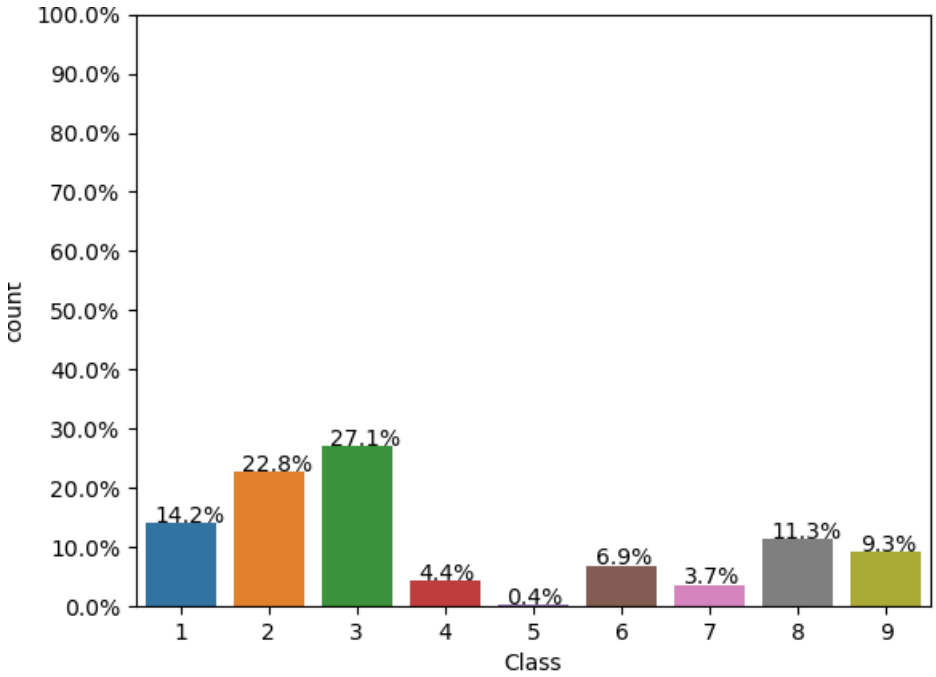
3.1. Distribution of malware classes in whole data set

In [3]:

```
Y=pd.read_csv("trainLabels.csv")
total = len(Y)*1.
ax=sns.countplot(x="Class", data=Y)
for p in ax.patches:
        ax.annotate('{:.1f}%'.format(100*p.get_height()/total), (p.get_x()+0.1, p.get_height()+5))

#put 11 ticks (therefore 10 steps), from 0 to the total number of rows in the dataframe
ax.yaxis.set_ticks(np.linspace(0, total, 11))

#adjust the ticklabel to the desired format, without changing the position of the ticks.
ax.set_yticklabels(map('{:.1f}%'.format, 100*ax.yaxis.get_majorticklocs()/total))
plt.show()
```



3.2. Feature extraction

3.2.1 File size of byte files as a feature

In [75]:

```
#file sizes of byte files

files=os.listdir('byteFiles')
filenames=Y['ID'].tolist()
class_y=Y['Class'].tolist()
class_bytes=[]
sizebytes=[]
fnames=[]
for file in files:
    # print(os.stat('byteFiles/0A32eTdBKayjCWhZqDOQ.txt'))
    # os.stat_result(st_mode=33206, st_ino=1125899906874507, st_dev=3561571700, st_nlink=1,
st_uid=0, st_gid=0,
    # st_size=3680109, st_atime=1519638522, st_mtime=1519638522, st_ctime=1519638522)
    # read more about os.stat: here https://www.tutorialspoint.com/python/os_stat.htm
    statinfo=os.stat('byteFiles/'+file)
    # split the file name at '.' and take the first part of it i.e the file name
    file=file.split('.')[0]
    if any(file == filename for filename in filenames):
        i=filenames.index(file)
        class_bytes.append(class_y[i])
        # converting into Mb's
        sizebytes.append(statinfo.st_size/(1024.0*1024.0))
        fnames.append(file)
data_size_byte=pd.DataFrame({'ID':fnames,'size':sizebytes,'Class':class_bytes})
print (data_size_byte.head())
```

```
Empty DataFrame
Columns: [ID, size, Class]
Index: []
```

In [26]:

```
data_size_byte.to_pickle("data_size_feature.pkl")
```

In [4]:

```
data_size_byte=pd.read_pickle("data_size_feature.pkl")
```

In [5]:

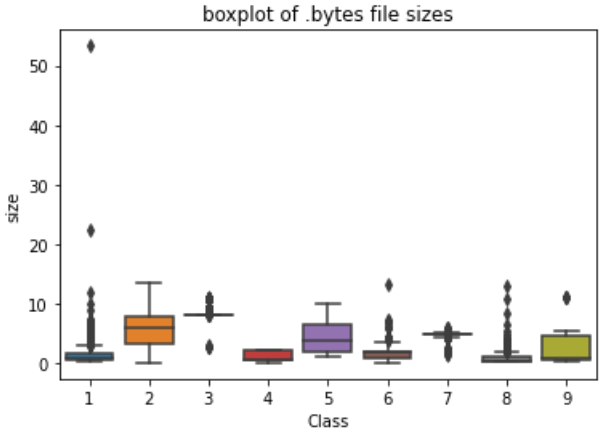
```
print(data_size_byte.head())
```

```
                      ID      size  Class
0  gJQLAK983BsIvVwCHXRD  3.384277      1
1  iEhMwSYF4f7O6clnzgv0  0.523926      1
2  D6b9fCwnyHXaipBtWrK8  8.113770      3
3  3kqaIlVuPtxQJejvyNZ0  8.127930      2
4  jgNc6pwRCBPetnT2yXQH  5.621582      2
```

3.2.2 box plots of file size (.byte files) feature

In [6]:

```
#boxplot of byte files
%matplotlib inline
ax = sns.boxplot(x="Class", y="size", data=data_size_byte)
plt.title("boxplot of .bytes file sizes")
plt.show()
```



3.2.3 feature extraction from byte files

In [7]:

```
#removal of addres from byte files
# contents of .byte files
# ----------------
#00401000 56 8D 44 24 08 50 8B F1 E8 1C 1B 00 00 C7 06 08
#--------------------
#we remove the starting address 00401000
from tqdm import tqdm
files = os.listdir('byteFiles')
filenames=[]
array=[]
for file in tqdm(files):
    if(file.endswith("bytes")):
        file=file.split('.')[0]
        text_file = open('byteFiles/'+file+".txt", 'w+')
        with open('byteFiles/'+file+".bytes","r") as fp:
            lines=""
            for line in fp:
                a=line.rstrip().split(" ")[1:]
                b=' '.join(a)
                b=b+"\n"
                text_file.write(b)
            fp.close()
            os.remove('byteFiles/'+file+".bytes")
        text_file.close()

files = os.listdir('byteFiles')
filenames2=[]
feature_matrix = np.zeros((len(files),257),dtype=int)
```

```
k=0
```

```
100%|██████████| 10869/10869 [26:58<00:00,  6.72it/s]
```

In [7]:

```
vocab =
"00,01,02,03,04,05,06,07,08,09,0a,0b,0c,0d,0e,0f,10,11,12,13,14,15,16,17,18,19,1a,1b,1c,1d,1e,1f,2(
22,23,24,25,26,27,28,29,2a,2b,2c,2d,2e,2f,30,31,32,33,34,35,36,37,38,39,3a,3b,3c,3d,3e,3f,40,41,42,
4,45,46,47,48,49,4a,4b,4c,4d,4e,4f,50,51,52,53,54,55,56,57,58,59,5a,5b,5c,5d,5e,5f,60,61,62,63,64,(
,67,68,69,6a,6b,6c,6d,6e,6f,70,71,72,73,74,75,76,77,78,79,7a,7b,7c,7d,7e,7f,80,81,82,83,84,85,86,8
89,8a,8b,8c,8d,8e,8f,90,91,92,93,94,95,96,97,98,99,9a,9b,9c,9d,9e,9f,a0,a1,a2,a3,a4,a5,a6,a7,a8,a9,
b,ac,ad,ae,af,b0,b1,b2,b3,b4,b5,b6,b7,b8,b9,ba,bb,bc,bd,be,bf,c0,c1,c2,c3,c4,c5,c6,c7,c8,c9,ca,cb,(
,ce,cf,d0,d1,d2,d3,d4,d5,d6,d7,d8,d9,da,db,dc,dd,de,df,e0,e1,e2,e3,e4,e5,e6,e7,e8,e9,ea,eb,ec,ed,ee
f0,f1,f2,f3,f4,f5,f6,f7,f8,f9,fa,fb,fc,fd,fe,ff,??"


bigram_vocab = []

for i, v in enumerate(vocab.split(',')):
    for j in range(len(vocab.split(','))):
        bigram_vocab.append(v + ' ' +vocab.split(',')[j])
```

In [9]:

```
folder_bytes=['b_1','b_2','b_3','b_4','b_5','b_6','b_7','b_8']
for i in folder_bytes:
    if not os.path.isdir(i):
        os.makedirs(i)
```

In [10]:

```
source = 'byteFiles/'
files = os.listdir('byteFiles')
data = list(range(0,10868))
```

In [11]:

```
for i in range(len(files)):
    if i % 8 == 0:
        shutil.move(source+files[data[i]],'b_1')
    if i % 8 == 1:
        shutil.move(source+files[data[i]],'b_2')
    if i % 8 == 2:
        shutil.move(source+files[data[i]],'b_3')
    if i % 8 == 3:
        shutil.move(source+files[data[i]],'b_4')
    if i % 8 == 4:
        shutil.move(source+files[data[i]],'b_5')
    if i % 8 == 5:
        shutil.move(source+files[data[i]],'b_6')
    if i % 8 == 6:
        shutil.move(source+files[data[i]],'b_7')
    if i % 8 == 7:
        shutil.move(source+files[data[i]],'b_8')
```

In [8]:

```
import timeit
from tqdm import tqdm
```

In [9]:

```
from sklearn.feature_extraction.text import CountVectorizer
```

In [10]:

```
import timeit
start = timeit.default_timer()
```

```python
def firstprocess():
    print("first process running")
    vectorizer = CountVectorizer(lowercase=False, ngram_range=(2,2), vocabulary=bigram_vocab)
    ID1=os.listdir("b_1")
    corpus=[]
    for file in tqdm(os.listdir('b_1')):
        a=""
        with open('b_1/'+file,"r") as byte_file:
            for line in byte_file:
                a+=str(line)
        corpus.append(a)
    X=vectorizer.fit_transform(corpus)
    X1=X.todense()
    bigram_features11=pd.DataFrame(X1,columns=bigram_vocab)
    bigram_features11["ID"]=ID1
    bigram_features11.to_pickle('bigram11.pkl')



def secondprocess():
    print("second process running")
    vectorizer = CountVectorizer(lowercase=False, ngram_range=(2,2), vocabulary=bigram_vocab)
    ID2=os.listdir("b_2")
    corpus=[]
    for file in tqdm(os.listdir('b_2')):
        a=""
        with open('b_2/'+file,"r") as byte_file:
            for line in byte_file:
                a+=str(line)
        corpus.append(a)
    X=vectorizer.fit_transform(corpus)
    X1=X.todense()
    bigram_features12=pd.DataFrame(X1,columns=bigram_vocab)
    bigram_features12["ID"]=ID2
    bigram_features12.to_pickle('bigram12.pkl')



def thirdprocess():
    print("third process running")
    vectorizer = CountVectorizer(lowercase=False, ngram_range=(2,2), vocabulary=bigram_vocab)
    ID3=os.listdir("b_3")
    corpus=[]
    for file in tqdm(os.listdir('b_3')):
        a=""
        with open('b_3/'+file,"r") as byte_file:
            for line in byte_file:
                a+=str(line)
        corpus.append(a)
    X=vectorizer.fit_transform(corpus)
    X1=X.todense()
    bigram_features13=pd.DataFrame(X1,columns=bigram_vocab)
    bigram_features13["ID"]=ID3
    bigram_features13.to_pickle('bigram13.pkl')



def fourthprocess():
    print("fourth process running")
    vectorizer = CountVectorizer(lowercase=False, ngram_range=(2,2), vocabulary=bigram_vocab)
    ID4=os.listdir("b_4")
    corpus=[]
    for file in tqdm(os.listdir('b_4')):
        a=""
        with open('b_4/'+file,"r") as byte_file:
            for line in byte_file:
                a+=str(line)
        corpus.append(a)
    X=vectorizer.fit_transform(corpus)
    X1=X.todense()
    bigram_features14=pd.DataFrame(X1,columns=bigram_vocab)
    bigram_features14["ID"]=ID4
    bigram_features14.to_pickle('bigram14.pkl')
```

```python
def fifthprocess():
    print("fifth process running")
    vectorizer = CountVectorizer(lowercase=False, ngram_range=(2,2), vocabulary=bigram_vocab)
    ID5=os.listdir("b_5")
    corpus=[]
    for file in tqdm(os.listdir('b_5')):
        a=""
        with open('b_5/'+file,"r") as byte_file:
            for line in byte_file:
                a+=str(line)
        corpus.append(a)
    X=vectorizer.fit_transform(corpus)
    X1=X.todense()
    bigram_features15=pd.DataFrame(X1,columns=bigram_vocab)
    bigram_features15["ID"]=ID5
    bigram_features15.to_pickle('bigram15.pkl')




def sixthprocess():
    print("sixth process running")
    vectorizer = CountVectorizer(lowercase=False, ngram_range=(2,2), vocabulary=bigram_vocab)
    ID6=os.listdir("b_6")
    corpus=[]
    for file in tqdm(os.listdir('b_6')):
        a=""
        with open('b_6/'+file,"r") as byte_file:
            for line in byte_file:
                a+=str(line)
        corpus.append(a)
    X=vectorizer.fit_transform(corpus)
    X1=X.todense()
    bigram_features16=pd.DataFrame(X1,columns=bigram_vocab)
    bigram_features16["ID"]=ID6
    bigram_features16.to_pickle('bigram16.pkl')




def seventhprocess():
    print("seventh process running")
    vectorizer = CountVectorizer(lowercase=False, ngram_range=(2,2), vocabulary=bigram_vocab)
    ID7=os.listdir("b_7")
    corpus=[]
    for file in tqdm(os.listdir('b_7')):
        a=""
        with open('b_7/'+file,"r") as byte_file:
            for line in byte_file:
                a+=str(line)
        corpus.append(a)
    X=vectorizer.fit_transform(corpus)
    X1=X.todense()
    bigram_features17=pd.DataFrame(X1,columns=bigram_vocab)
    bigram_features17["ID"]=ID7
    bigram_features17.to_pickle('bigram17.pkl')




def eightprocess():
    print("eighth process running")
    vectorizer = CountVectorizer(lowercase=False, ngram_range=(2,2), vocabulary=bigram_vocab)
    ID8=os.listdir("b_8")
    corpus=[]
    for file in tqdm(os.listdir('b_8')):
        a=""
        with open('b_8/'+file,"r") as byte_file:
            for line in byte_file:
                a+=str(line)
        corpus.append(a)
    X=vectorizer.fit_transform(corpus)
    X1=X.todense()
    bigram_features18=pd.DataFrame(X1,columns=bigram_vocab)
    bigram_features18["ID"]=ID8
    bigram_features18.to_pickle('bigram18.pkl')
```

```
def main():
    #the below code is used for multiprocessing
    #the number of process depends upon the number of cores present in the System
    #process is used to call multiprocessing
    manager=multiprocessing.Manager()
    p1=Process(target=firstprocess)
    p2=Process(target=secondprocess)
    p3=Process(target=thirdprocess)
    p4=Process(target=fourthprocess)
    p5=Process(target=fifthprocess)
    p6=Process(target=sixthprocess)
    p7=Process(target=seventhprocess)
    p8=Process(target=eightprocess)

    # starting multiple processes
    p1.start()
    p2.start()
    p3.start()
    p4.start()
    p5.start()
    p6.start()
    p7.start()
    p8.start()


    #After completion all the processes are joined
    p1.join()
    p2.join()
    p3.join()
    p4.join()
    p5.join()
    p6.join()
    p7.join()
    p8.join()



if __name__=="__main__":
    main()

stop = timeit.default_timer()
print('Time: ', (stop - start)/60)
```

```
first process running
second process running
third process running
fourth process running
fifth process running
sixth process running
seventh process running
eighth process running
```

```
100%|██████████| 1359/1359 [06:04<00:00,  3.73it/s]
100%|██████████| 1358/1358 [06:05<00:00,  3.72it/s]
100%|██████████| 1358/1358 [06:06<00:00,  3.71it/s]
100%|██████████| 1358/1358 [06:06<00:00,  3.71it/s]
100%|██████████| 1359/1359 [06:09<00:00,  3.68it/s]
100%|██████████| 1358/1358 [06:11<00:00,  3.66it/s]
100%|██████████| 1359/1359 [06:11<00:00,  3.66it/s]
100%|██████████| 1359/1359 [06:13<00:00,  3.64it/s]
```

```
Time:  42.20358542633333
```

In [7]:

```
byte_features11 = pd.read_pickle('bigram11.pkl')
```

```
byte_features12 = pd.read_pickle('bigram12.pkl')
byte_features13 = pd.read_pickle('bigram13.pkl')
byte_features14 = pd.read_pickle('bigram14.pkl')
byte_features15 = pd.read_pickle('bigram15.pkl')
byte_features16 = pd.read_pickle('bigram16.pkl')
byte_features17 = pd.read_pickle('bigram17.pkl')
byte_features18 = pd.read_pickle('bigram18.pkl')
```

In [8]:

```
frames=[byte_features11,byte_features12,byte_features13,byte_features14,byte_features15,byte_featur
es16,byte_features17,byte_features18]
```

In [9]:

```
byte_features=pd.concat(frames,ignore_index=True)
byte_features.head(4)
```

Out[9]:

	00 00	00 01	00 02	00 03	00 04	00 05	00 06	00 07	00 08	00 09	...	?? f8	?? f9	?? fa	?? fb	?? fc	?? fd	?? fe	?? ff	?? ??	ID
0	31441	1788	187	239	324	63	53	155	117	185	...	0	0	0	0	0	0	0	0	0	D2FbBoJAweiY8X0pxTOn.txt
1	11498	174	96	80	71	50	24	48	799	320	...	0	0	0	0	0	0	0	0	0	hlz7aimR9U8PWVqSvKgF.txt
2	22480	134	61	60	41	52	38	48	45	48	...	0	0	0	0	0	0	0	0	0	b3EWAzP4jaUevDKZrfqt.txt
3	22148	733	71	46	194	28	23	15	39	25	...	0	0	0	0	0	0	0	0	0	065EZhxgbLRSHsB87ulF.txt

4 rows × 66050 columns

In [10]:

```
byte_features.shape
```

Out[10]:

```
(10868, 66050)
```

In [11]:

```
byte_features['ID']  = byte_features['ID'].str.split('.').str[0]
byte_features.head(2)
```

Out[11]:

	00 00	00 01	00 02	00 03	00 04	00 05	00 06	00 07	00 08	00 09	...	?? f8	?? f9	?? fa	?? fb	?? fc	?? fd	?? fe	?? ff	?? ??	ID
0	31441	1788	187	239	324	63	53	155	117	185	...	0	0	0	0	0	0	0	0	0	D2FbBoJAweiY8X0pxTOn
1	11498	174	96	80	71	50	24	48	799	320	...	0	0	0	0	0	0	0	0	0	hlz7aimR9U8PWVqSvKgF

2 rows × 66050 columns

normalization

In [12]:

```
byte_features.head()
```

Out[12]:

	00 00	00 01	00 02	00 03	00 04	00 05	00 06	00 07	00 08	00 09	...	?? f8	?? f9	?? fa	?? fb	?? fc	?? fd	?? fe	?? ff	?? ??	ID
0	31441	1788	187	239	324	63	53	155	117	185	...	0	0	0	0	0	0	0	0	0	D2FbBoJAweiY8X0pxTOn

	00 00	00 01	00 02	00 03	00 04	00 05	00 06	00 07	00 08	00 09	...	?? f7	?? f8	?? f9	?? fa	?? fb	?? fc	?? fd	?? fe	?? ff	?? ??	ID
1	11498	174	96	80	71	50	24	48	799	320	...	0	0	0	0	0	0	0	0	0	0	hlz7amR9U8PWVqSvKgF
2	22480	134	61	60	41	52	38	48	45	48	...	0	0	0	0	0	0	0	0	0	0	b3EWAzP4jaUevDKZrfqt
3	22148	733	71	46	194	28	23	15	39	25	...	0	0	0	0	0	0	0	0	0	0	065EZhxgbLRSHsB87uIF
4	10489	181	92	57	61	52	20	46	787	319	...	0	0	0	0	0	0	0	0	0	0	b6v9EtuRPJncx0Os4FyN

5 rows × 66050 columns

In [13]:

```
ID11=byte_features["ID"]
```

In [14]:

```
byte_features1=byte_features.drop(["ID"],axis=1)
byte_features1.shape
```

Out[14]:

```
(10868, 66049)
```

In [15]:

```
byte_features1.head()
```

Out[15]:

	00 00	00 01	00 02	00 03	00 04	00 05	00 06	00 07	00 08	00 09	...	?? f7	?? f8	?? f9	?? fa	?? fb	?? fc	?? fd	?? fe	?? ff	?? ??
0	31441	1788	187	239	324	63	53	155	117	185	...	0	0	0	0	0	0	0	0	0	0
1	11498	174	96	80	71	50	24	48	799	320	...	0	0	0	0	0	0	0	0	0	0
2	22480	134	61	60	41	52	38	48	45	48	...	0	0	0	0	0	0	0	0	0	0
3	22148	733	71	46	194	28	23	15	39	25	...	0	0	0	0	0	0	0	0	0	0
4	10489	181	92	57	61	52	20	46	787	319	...	0	0	0	0	0	0	0	0	0	0

5 rows × 66049 columns

In [16]:

```
column_names=list(byte_features1.columns)
len(column_names)
```

Out[16]:

```
66049
```

In [17]:

```
print(type(column_names))
```

```
<class 'list'>
```

In [18]:

```
from sklearn.preprocessing import MinMaxScaler
scaler = MinMaxScaler()
```

In [19]:

```
X_new=scaler.fit_transform(byte_features1)
```

In [20]:

```
X_new.shape
```

```
X_new.shape
```

Out[20]:

```
(10868, 66049)
```

In [21]:

```
print(type(X_new))
```

```
<class 'numpy.ndarray'>
```

In [22]:

```
X_new1=pd.DataFrame(X_new,columns=column_names)
X_new1.head()
```

Out[22]:

	00 00	00 01	00 02	00 03	00 04	00 05	00 06	00 07	00 08	00 09	...	?? f7	?? f8	?? f9	?? fa	?? fb	?? fc
0	0.013752	0.125026	0.011168	0.015843	0.022293	0.006287	0.004481	0.016484	0.007858	0.008338	...	0.0	0.0	0.0	0.0	0.0	0.0
1	0.005029	0.012167	0.005733	0.005303	0.004885	0.004990	0.002029	0.005105	0.053660	0.014422	...	0.0	0.0	0.0	0.0	0.0	0.0
2	0.009833	0.009370	0.003643	0.003977	0.002821	0.005189	0.003213	0.005105	0.003022	0.002163	...	0.0	0.0	0.0	0.0	0.0	0.0
3	0.009687	0.051255	0.004240	0.003049	0.013348	0.002794	0.001945	0.001595	0.002619	0.001127	...	0.0	0.0	0.0	0.0	0.0	0.0
4	0.004588	0.012656	0.005495	0.003778	0.004197	0.005189	0.001691	0.004892	0.052854	0.014377	...	0.0	0.0	0.0	0.0	0.0	0.0

5 rows × 66049 columns

In [23]:

```
X_new1["ID"]=ID11
```

In [24]:

```
X_new1.head()
```

Out[24]:

	00 00	00 01	00 02	00 03	00 04	00 05	00 06	00 07	00 08	00 09	...	?? f8	?? f9	?? fa	?? fb	?? fc	?? fd
0	0.013752	0.125026	0.011168	0.015843	0.022293	0.006287	0.004481	0.016484	0.007858	0.008338	...	0.0	0.0	0.0	0.0	0.0	0.0
1	0.005029	0.012167	0.005733	0.005303	0.004885	0.004990	0.002029	0.005105	0.053660	0.014422	...	0.0	0.0	0.0	0.0	0.0	0.0
2	0.009833	0.009370	0.003643	0.003977	0.002821	0.005189	0.003213	0.005105	0.003022	0.002163	...	0.0	0.0	0.0	0.0	0.0	0.0
3	0.009687	0.051255	0.004240	0.003049	0.013348	0.002794	0.001945	0.001595	0.002619	0.001127	...	0.0	0.0	0.0	0.0	0.0	0.0
4	0.004588	0.012656	0.005495	0.003778	0.004197	0.005189	0.001691	0.004892	0.052854	0.014377	...	0.0	0.0	0.0	0.0	0.0	0.0

5 rows × 66050 columns

In [25]:

```
Y.head()
```

Out[25]:

	ID	Class
0	01kcPWA9K2BOxQeS5Rju	1
1	04EjIdbPV5e1XroFOpiN	1
2	05EeG39MTRrI6VY21DPd	1
3	05rJTUWYAKNegBk2wE8X	1

	ID	Class
4	0AnoOZDNbPXIr2MRBSGd	1

In [26]:

```
total_data=pd.merge(X_new1,Y,on="ID")
total_data.head()
```

Out[26]:

	00 00	00 01	00 02	00 03	00 04	00 05	00 06	00 07	00 08	00 09	...	?? f9	?? fa	?? fb	?? fc	?? fd	?? fe
0	0.013752	0.125026	0.011168	0.015843	0.022293	0.006287	0.004481	0.016484	0.007858	0.008338	...	0.0	0.0	0.0	0.0	0.0	0.0
1	0.005029	0.012167	0.005733	0.005303	0.004885	0.004990	0.002029	0.005105	0.053660	0.014422	...	0.0	0.0	0.0	0.0	0.0	0.0
2	0.009833	0.009370	0.003643	0.003977	0.002821	0.005189	0.003213	0.005105	0.003022	0.002163	...	0.0	0.0	0.0	0.0	0.0	0.0
3	0.009687	0.051255	0.004240	0.003049	0.013348	0.002794	0.001945	0.001595	0.002619	0.001127	...	0.0	0.0	0.0	0.0	0.0	0.0
4	0.004588	0.012656	0.005495	0.003778	0.004197	0.005189	0.001691	0.004892	0.052854	0.014377	...	0.0	0.0	0.0	0.0	0.0	0.0

5 rows × 66051 columns

In [27]:

```
total_data.shape
```

Out[27]:

```
(10868, 66051)
```

In [28]:

```
ID2=total_data["ID"]
```

In [29]:

```
XX1=total_data.drop(["ID","Class"],axis=1)
XX1.shape
```

Out[29]:

```
(10868, 66049)
```

In [30]:

```
YY1=total_data["Class"]
YY1.shape
```

Out[30]:

```
(10868,)
```

selecting top 1000 byte features using randomforest classifier

In [31]:

```
all_feature_names=list(XX1.columns)
len(all_feature_names)
```

Out[31]:

```
66049
```

Here we are selecting top 1000 fetures

In [32]:

```
from sklearn.ensemble import RandomForestClassifier
```

In [33]:

```
clf=RandomForestClassifier(n_estimators=20,n_jobs=-1)
clf.fit(XX1,YY1)
```

Out[33]:

```
RandomForestClassifier(bootstrap=True, ccp_alpha=0.0, class_weight=None,
                       criterion='gini', max_depth=None, max_features='auto',
                       max_leaf_nodes=None, max_samples=None,
                       min_impurity_decrease=0.0, min_impurity_split=None,
                       min_samples_leaf=1, min_samples_split=2,
                       min_weight_fraction_leaf=0.0, n_estimators=200,
                       n_jobs=-1, oob_score=False, random_state=None, verbose=0,
                       warm_start=False)
```

In [34]:

```
imp_feature_index=np.argsort(clf.feature_importances_)[::-1]
```

In [35]:

```
print(imp_feature_index)
print(len(imp_feature_index))
```

```
[ 6062 26351 16773 ... 44361 44360 66048]
66049
```

In [36]:

```
imp_feature_index_1000=list(imp_feature_index[0:1000])
```

In [38]:

```
len(imp_feature_index_1000)
```

Out[38]:

```
1000
```

In [39]:

```
print(type(imp_feature_index_1000))
```

```
<class 'list'>
```

In [40]:

```
x_new1=XX1.to_numpy()
```

In [41]:

```
print(type(x_new1))
```

```
<class 'numpy.ndarray'>
```

In [42]:

```
print(x_new1.shape)
x_new1
```

```
(10868, 66049)
```

Out[42]:

```
array([[0.01375203, 0.12502622, 0.01116818, ..., 0.        , 0.        ,
        0.        ],
       [0.00502913, 0.01216698, 0.0057334 , ..., 0.        , 0.        ,
        0.        ],
       [0.00983256, 0.00936997, 0.0036431 , ..., 0.        , 0.        ,
        0.        ],
       ...,
       [0.01137349, 0.01419481, 0.00394171, ..., 0.        , 0.        ,
        0.        ],
       [0.00508643, 0.01216698, 0.0057334 , ..., 0.        , 0.        ,
        0.        ],
       [0.0756145 , 0.88686106, 0.09531773, ..., 0.        , 0.        ,
        0.        ]])
```

In [43]:

```
x_new2=x_new1[:,imp_feature_index_1000]
x_new2.shape
```

Out[43]:

```
(10868, 1000)
```

In [44]:

```
imp_feature_name=np.take(all_feature_names,imp_feature_index[0:1000])
```

In [45]:

```
imp_feature_name
```

Out[45]:

```
array(['17 97', '66 89', '41 44', '03 83', '97 86', '97 27', '77 29',
       '26 29', '28 82', '86 27', '87 27', '29 86', '16 61', '17 60',
       '87 17', '42 94', '94 27', '82 19', '87 09', '07 77', '93 27',
       '09 94', '19 82', '29 93', '98 25', '09 98', '28 97', '89 48',
       '18 67', '27 87', '69 98', '58 50', '77 70', '74 08', '47 50',
       '85 00', '89 44', '74 20', '04 89', '74 69', '03 89', '89 59',
       '59 89', '89 30', '72 00', '00 84', '04 00', '07 50', '89 00',
       '00 73', '75 07', '03 55', '50 50', '00 06', '46 08', '75 10',
       '70 77', '00 81', '00 04', '98 87', '82 09', '83 00', '00 01',
       '59 00', '57 56', '00 05', '00 80', '20 74', '45 10', '02 00',
       '01 83', '17 93', '18 75', '00 20', '00 40', '29 81', '04 24',
       '02 59', '79 17', '94 00', '45 08', '54 00', '53 53', '33 03',
       '26 81', '26 97', '02 33', '36 00', '29 95', '64 95', '00 00',
       '26 58', '25 87', '16 92', '60 00', '69 00', '70 00', '89 45',
       '98 88', '42 00', '00 83', '91 26', '78 29', '03 88', '99 24',
       '65 00', '97 88', '00 68', '80 25', '09 92', '29 60', '52 96',
       '99 25', '79 19', '00 60', '27 95', '17 71', '42 93', '95 09',
       '99 27', '28 96', '99 89', '96 87', '07 96', '46 83', '07 72',
       '00 66', '75 24', '10 10', '09 79', '92 36', '94 86', '00 69',
       '93 09', '91 29', '17 72', '29 89', '65 09', '91 14', '16 65',
       '96 88', '50 00', '28 91', '25 76', '96 26', '17 94', '42 15',
       '14 97', '79 26', '65 19', '91 25', '09 61', '97 16', '26 00',
       '87 26', '61 00', '16 52', '47 98', '47 15', '92 09', '07 91',
       '15 99', '87 29', '92 26', '87 15', '28 86', '47 96', '15 95',
       '19 26', '09 16', '04 33', '18 96', '52 36', '16 86', '19 79',
       '19 94', '17 87', '92 27', '89 75', '79 16', '92 16', '26 16',
       '90 26', '36 97', '00 65', '09 77', '98 24', '26 52', '65 15',
       '86 17', '91 24', '94 28', '47 93', '25 91', '44 96', '28 92',
       '14 89', '09 17', '26 60', '15 29', '19 70', '17 67', '17 98',
       '69 18', '19 92', '91 36', '48 00', '26 86', '64 17', '94 29',
       '82 14', '00 50', '98 28', '93 17', '07 54', '26 94', '45 95',
       '15 77', '69 26', '36 82', '44 49', '26 92', '66 26', '87 61',
       '95 27', '87 95', '61 16', '15 82', '73 00', '00 47', '26 19',
       '48 26', '97 34', '26 71', '27 54', '51 71', '62 60', '78 27',
       '35 95', '27 53', '42 17', '44 44', '43 96', '36 79', '17 77',
       '20 73', '37 82', '44 24', '92 25', '86 92', '46 98', '00 48',
       '19 36', '66 96', '67 95', '18 89', '09 26', '67 19', '47 27',
```

```
'19 36', '66 96', '67 95', '18 89', '09 26', '67 19', '47 27',
'26 84', '03 45', '83 65', '27 71', '75 06', '12 07', '78 25',
'69 19', '00 61', '98 00', '03 18', '01 00', '59 85', '20 61',
'02 83', '00 64', '00 74', '01 02', '00 86', '00 42', '24 14',
'03 00', '18 00', '00 85', '00 30', '29 00', '86 00', '34 00',
'46 01', '75 05', '01 75', '00 70', '66 39', '66 81', '75 00',
'63 64', '00 97', '00 59', '05 00', '37 18', '00 19', '53 00',
'56 00', '23 00', '81 00', '00 89', '74 24', '77 00', '00 76',
'14 34', '93 00', '00 21', '00 09', '88 47', '00 82', '46 02',
'01 01', '58 58', '71 00', '50 41', '88 44', '89 06', '68 00',
'00 49', '02 47', '00 17', '22 00', '88 00', '89 46', '73 19',
'01 47', '37 35', '15 00', '70 65', '47 58', '61 65', '24 95',
'40 00', '99 00', '24 04', '91 92', '43 00', '64 00', '00 90',
'61 79', '53 56', '65 26', '01 89', '00 34', '00 26', '39 28',
'83 60', '82 00', '46 00', '00 53', '28 00', '00 11', '00 91',
'00 75', '35 00', '77 07', '40 04', '08 83', '75 08', '14 03',
'74 07', '32 00', '74 00', '65 72', '75 18', '06 84', '65 69',
'77 77', '19 00', '10 83', '08 85', '03 05', '03 40', '24 10',
'00 27', '00 46', '59 04', '74 65', '76 00', '00 22', '21 00',
'00 02', '00 56', '31 00', '54 24', '06 35', '65 65', '75 67',
'39 94', '08 03', '08 89', '65 74', '00 87', '84 00', '45 02',
'98 99', '00 32', '88 06', '67 00', '00 03', '59 83', '00 08',
'00 98', '72 75', '55 08', '46 04', '69 74', '03 90', '76 03',
'00 13', '00 44', '49 49', '15 35', '87 00', '08 53', '16 00',
'06 33', '17 38', '74 31', '49 00', '13 00', '83 10', '10 00',
'44 34', '56 03', '00 39', '72 74', '69 63', '02 03', '99 83',
'07 70', '37 58', '00 88', '08 08', '73 07', '50 68', '03 56',
'70 71', '89 55', '80 03', '06 00', '45 03', '74 15', '80 80',
'65 64', '00 71', '63 00', '00 67', '03 20', '52 00', '33 00',
'64 65', '57 58', '07 83', '08 00', '00 38', '87 88', '04 50',
'60 89', '66 00', '18 71', '04 85', '34 70', '00 33', '58 25',
'02 02', '72 72', '75 04', '37 98', '00 24', '29 96', '64 89',
'30 00', '74 09', '97 00', '76 37', '39 75', '09 83', '91 00',
'79 00', '00 28', '06 30', '00 52', '01 82', '39 00', '09 00',
'00 57', '04 74', '33 14', '00 41', '36 28', '00 51', '66 67',
'58 00', '43 02', '00 79', '00 77', '52 04', '10 85', '95 00',
'35 93', '80 00', '16 36', '39 55', '00 18', '18 53', '11 07',
'04 73', '72 88', '04 02', '81 05', '20 00', '33 01', '65 35',
'01 73', '68 69', '53 57', '59 03', '04 04', '00 78', '08 01',
'50 03', '72 65', '08 50', '00 55', '33 10', '20 20', '85 85',
'39 18', '01 81', '00 35', '17 00', '03 03', '01 46', '49 75',
'21 19', '29 34', '81 65', '74 01', '89 29', '90 00', '10 57',
'27 83', '56 57', '14 00', '02 04', '65 27', '47 89', '58 59',
'01 49', '05 93', '20 65', '02 84', '20 03', '24 00', '95 85',
'00 23', '08 72', '83 25', '33 18', '15 16', '75 13', '24 61',
'49 64', '72 05', '00 94', '06 02', '07 20', '31 89', '99 20',
'00 37', '00 58', '07 85', '10 44', '06 29', '02 20', '21 21',
'77 16', '14 83', '53 03', '53 10', '01 74', '08 75', '38 06',
'00 72', '00 12', '03 01', '60 70', '20 88', '03 85', '20 40',
'72 69', '00 25', '60 65', '89 15', '84 10', '06 99', '00 96',
'53 55', '47 74', '04 11', '55 00', '35 19', '08 20', '39 25',
'18 12', '18 02', '21 59', '30 33', '32 83', '12 40', '35 27',
'00 63', '35 35', '04 75', '07 10', '89 41', '44 65', '75 02',
'05 02', '00 15', '94 36', '48 49', '04 38', '36 30', '78 00',
'91 39', '01 07', '63 75', '00 16', '19 35', '51 00', '46 28',
'40 89', '18 38', '56 50', '22 27', '31 16', '57 00', '19 74',
'00 14', '02 01', '00 31', '96 00', '43 27', '24 08', '47 65',
'52 45', '43 26', '01 05', '10 07', '00 93', '70 04', '29 05',
'37 00', '06 88', '22 59', '04 40', '14 85', '65 67', '73 20',
'29 35', '04 35', '38 34', '03 50', '15 51', '74 16', '20 66',
'34 94', '92 00', '26 74', '65 73', '05 12', '25 00', '66 05',
'05 35', '01 35', '62 00', '07 00', '15 08', '41 00', '19 04',
'59 51', '69 35', '27 63', '02 74', '74 74', '93 19', '90 35',
'70 70', '89 50', '00 36', '06 01', '97 05', '81 45', '47 00',
'00 10', '04 60', '38 00', '10 50', '36 90', '00 54', '83 05',
'04 59', '15 37', '59 81', '75 72', '12 00', '64 72', '56 56',
'98 86', '61 08', '45 78', '03 13', '72 27', '89 26', '61 73',
'11 48', '72 14', '00 45', '28 39', '13 43', '24 36', '65 71',
'80 65', '68 04', '36 07', '12 68', '88 77', '60 35', '69 36',
'44 00', '70 36', '38 38', '36 18', '10 29', '87 14', '32 03',
'68 65', '24 24', '06 66', '03 75', '48 27', '52 25', '81 29',
'60 01', '75 14', '05 83', '85 50', '00 92', '78 28', '65 20',
'22 75', '17 96', '31 94', '30 58', '49 53', '03 15', '61 86',
'00 29', '80 28', '37 92', '02 13', '00 95', '54 63', '69 20',
'19 60', '34 45', '06 90', '51 68', '89 39', '74 50', '10 89',
'73 74', '16 51', '03 23', '36 25', '74 13', '01 10', '32 28',
'74 04', '28 41', '79 70', '04 57', '65 61', '35 07', '39 49',
'06 07', '09 63', '81 75', '07 00', '37 01', '02 53', '65 57',
```

```
       '96 97', '92 63', '81 75', '27 00', '37 91', '02 53', '65 57',
       '07 27', '04 37', '61 20', '34 17', '31 17', '45 00', '64 36',
       '56 08', '72 08', '61 76', '76 82', '77 78', '79 98', '02 75',
       '34 05', '34 28', '28 49', '83 45', '74 85', '40 03', '61 70',
       '76 65', '01 04', '34 90', '25 34', '13 31', '04 79', '99 30',
       '36 58', '73 63', '01 15', '73 73', '70 08', '16 49', '71 75',
       '72 79', '79 54', '90 90', '82 25', '87 34', '37 94', '89 56',
       '56 51', '83 19', '04 30', '86 91', '80 75', '00 43', '74 75',
       '14 08', '09 36', '95 96', '63 61', '36 68', '68 10', '28 06',
       '63 74', '74 03', '02 80', '06 44', '81 31', '99 07', '89 35',
       '10 34', '38 25', '09 50', '47 18', '56 68', '76 61', '20 32',
       '36 14', '76 17', '16 97', '64 37', '41 05', '38 12', '19 85',
       '11 76', '08 74', '50 59', '74 19', '24 18', '01 03', '53 68',
       '62 34', '14 24', '21 40', '73 65', '52 24', '82 01', '65 78',
       '49 02', '93 36', '50 04', '34 38', '24 81', '65 63', '74 10',
       '75 65', '20 01', '42 83', '04 29', '11 31', '61 63', '69 65',
       '10 03', '12 24', '07 35', '26 85', '01 53', '50 89', '50 08',
       '19 19', '88 07', '89 94', '83 64', '08 81', '35 36', '83 83',
       '26 37', '79 59', '60 39', '33 08', '02 89', '68 81', '65 41',
       '56 71', '94 09', '93 94', '68 17', '33 32', '76 76', '25 74',
       '48 93', '75 59', '18 83', '29 98', '32 39', '27 08', '00 07',
       '38 27', '67 14', '91 37', '92 29', '90 14', '68 50', '36 73',
       '67 65', '20 30', '75 09', '13 50', '23 05', '04 53', '90 91',
       '92 75', '93 47', '96 85', '57 68', '20 75', '31 31', '85 59',
       '02 30', '50 40', '25 61', '20 69', '73 22', '03 33', '58 83',
       '33 04', '30 34', '75 03', '72 73', '25 83', '53 89', '24 70',
       '01 91', '15 68', '80 63', '94 37', '21 76', '03 74', '06 59',
       '02 61', '71 94', '65 79', '87 97', '07 47', '00 99', '38 14',
       '86 11', '22 76', '83 03', '69 16', '39 35', '93 73', '73 03',
       '83 01', '57 69', '27 48', '26 21', '61 64', '01 90'], dtype='<U5')
```

In [46]:

```
len(imp_feature_name)
```

Out[46]:

```
1000
```

In [47]:

```
x_new3=pd.DataFrame(x_new2,columns=imp_feature_name)
```

In [48]:

```
x_new3["ID"]=ID2
```

In [49]:

```
x_new3.head()
```

Out[49]:

	17 97	66 89	41 44	03 83	97 86	97 27	77 29	26 29	28 82	86 27	...	39 35	93 73	73 0
0	0.000000	0.003022	0.011209	0.000586	0.000000	0.000297	0.000000	0.004057	0.000000	0.001330	...	0.003905	0.004505	0.00004
1	0.000000	0.047259	0.002156	0.004395	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	...	0.000814	0.000000	0.00027
2	0.000023	0.000000	0.000647	0.000098	0.005495	0.000297	0.002857	0.000000	0.000047	0.003989	...	0.000163	0.000000	0.00032
3	0.000000	0.019508	0.000216	0.007521	0.038462	0.000000	0.002857	0.000000	0.000000	0.000000	...	0.000325	0.000000	0.00036
4	0.000000	0.038192	0.000647	0.004493	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	...	0.000814	0.000000	0.00032

5 rows × 1001 columns

merging it with byte file size feature

In [50]:

```
data_size_byte.head()
```

Out[50]:

	ID	size	Class
0	gJQLAK983BslvVwCHXRD	3.384277	1
1	iEhMwSYF4f7O6clnzgv0	0.523926	1
2	D6b9fCwnyHXaipBtWrK8	8.113770	3
3	3kqallVuPtxQJejvyNZ0	8.127930	2
4	jgNc6pwRCBPetnT2yXQH	5.621582	2

In [51]:

```
data_size_byte["byte_size"]=data_size_byte["size"]
```

In [52]:

```
data_size_byte.head()
```

Out[52]:

	ID	size	Class	byte_size
0	gJQLAK983BslvVwCHXRD	3.384277	1	3.384277
1	iEhMwSYF4f7O6clnzgv0	0.523926	1	0.523926
2	D6b9fCwnyHXaipBtWrK8	8.113770	3	8.113770
3	3kqallVuPtxQJejvyNZ0	8.127930	2	8.127930
4	jgNc6pwRCBPetnT2yXQH	5.621582	2	5.621582

In [53]:

```
data_size_byte1=data_size_byte.drop(["size"],axis=1)
```

In [54]:

```
data_size_byte1.head()
```

Out[54]:

	ID	Class	byte_size
0	gJQLAK983BslvVwCHXRD	1	3.384277
1	iEhMwSYF4f7O6clnzgv0	1	0.523926
2	D6b9fCwnyHXaipBtWrK8	3	8.113770
3	3kqallVuPtxQJejvyNZ0	2	8.127930
4	jgNc6pwRCBPetnT2yXQH	2	5.621582

In [130]:

```
data_size_byte2=normalize(data_size_byte1)
```

In [131]:

```
byte_feature_with_size=pd.merge(x_new3,data_size_byte2,on="ID")
```

In [163]:

```
byte_feature_with_size.head()
```

Out[163]:

Out[163]:

	17 97	66 89	41 44	03 83	97 86	97 27	77 29	26 29	28 82	86 27	...	73 03	83 01	57 6
0	0.000000	0.003022	0.011209	0.000586	0.000000	0.000297	0.000000	0.004057	0.000000	0.001330	...	0.000046	0.000550	0.00039
1	0.000000	0.047259	0.002156	0.004395	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	...	0.000275	0.000412	0.00011
2	0.000023	0.000000	0.000647	0.000098	0.005495	0.000297	0.002857	0.000000	0.000047	0.003989	...	0.000321	0.001237	0.00003
3	0.000000	0.019508	0.000216	0.007521	0.038462	0.000000	0.002857	0.000000	0.000000	0.000000	...	0.000367	0.002336	0.00021
4	0.000000	0.038192	0.000647	0.004493	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	...	0.000321	0.000412	0.00010

5 rows × 1003 columns

In [164]:

```
byte_data=byte_feature_with_size
```

In [165]:

```
byte_data.head()
```

Out[165]:

	17 97	66 89	41 44	03 83	97 86	97 27	77 29	26 29	28 82	86 27	...	73 03	83 01	57 6
0	0.000000	0.003022	0.011209	0.000586	0.000000	0.000297	0.000000	0.004057	0.000000	0.001330	...	0.000046	0.000550	0.00039
1	0.000000	0.047259	0.002156	0.004395	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	...	0.000275	0.000412	0.00011
2	0.000023	0.000000	0.000647	0.000098	0.005495	0.000297	0.002857	0.000000	0.000047	0.003989	...	0.000321	0.001237	0.00003
3	0.000000	0.019508	0.000216	0.007521	0.038462	0.000000	0.002857	0.000000	0.000000	0.000000	...	0.000367	0.002336	0.00021
4	0.000000	0.038192	0.000647	0.004493	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	...	0.000321	0.000412	0.00010

5 rows × 1003 columns

In [59]:

```
import pickle
filename="top_byte_features_withsize_final"
outfile=open(filename,"wb")
```

In [60]:

```
pickle.dump(byte_data,outfile)
outfile.close()
```

In [61]:

```
y_new=byte_data["Class"]
```

multivarite analysis on 1000 byte features and 1 size feature

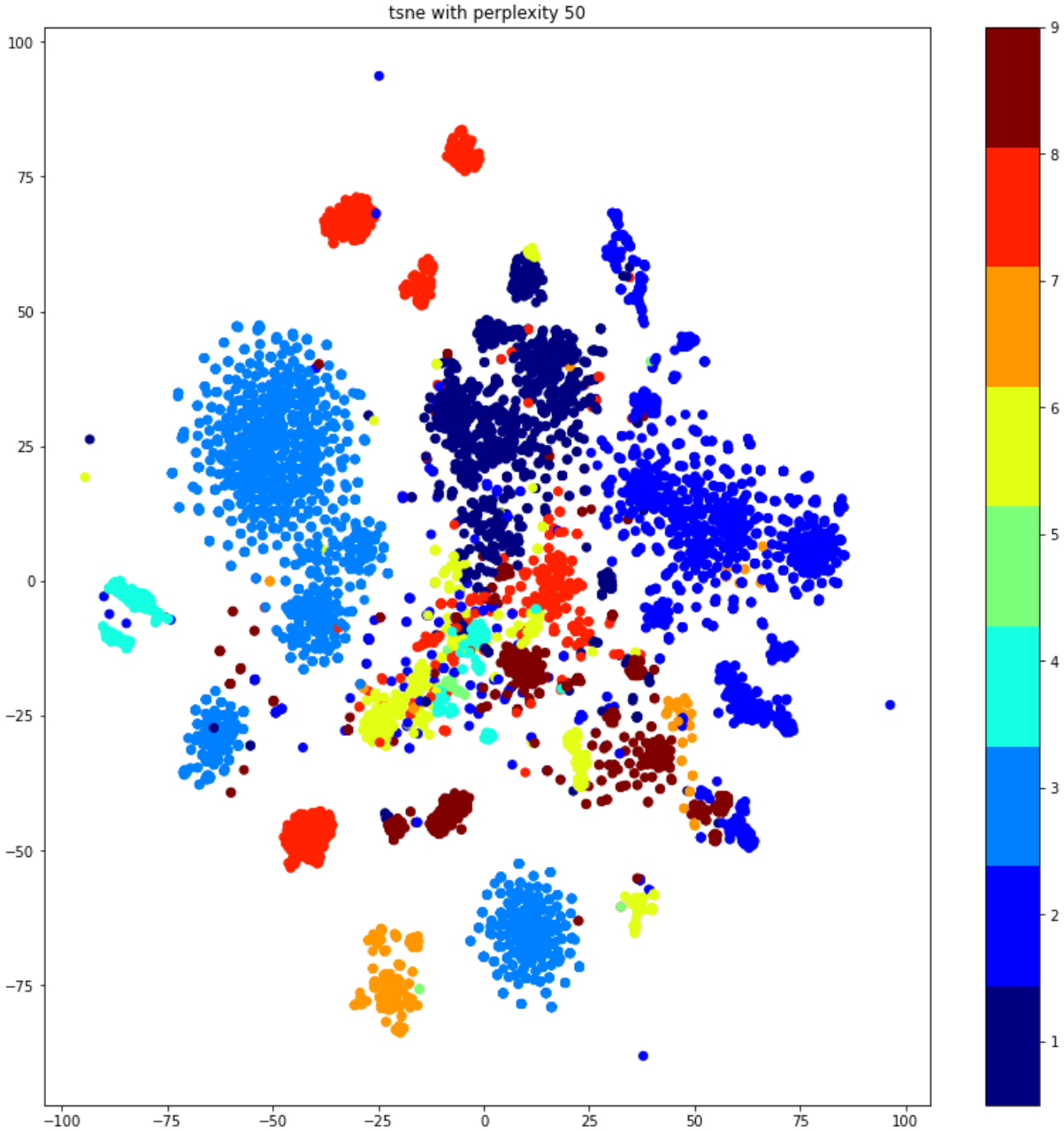
In [166]:

```
%matplotlib inline
xtsne=TSNE(perplexity=50)
results1=xtsne.fit_transform(byte_data.drop(['ID','Class'],axis=1))

vis_x=results1[:,0]
vis_y=results1[:,1]


plt.figure(figsize=(14,14))
plt.scatter(vis_x,vis_y, c=y_new ,cmap=plt.cm.get_cmap("jet", 9) )
plt.colorbar(ticks=range(10))
plt.clim(0.5, 9)
plt.title("tsne with perplexity 50")
```

```
plt.show()
```

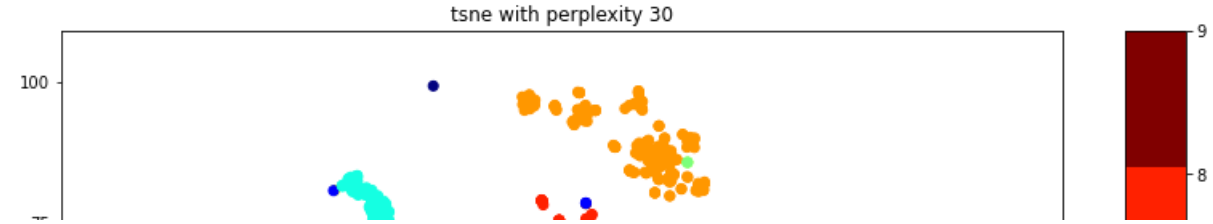


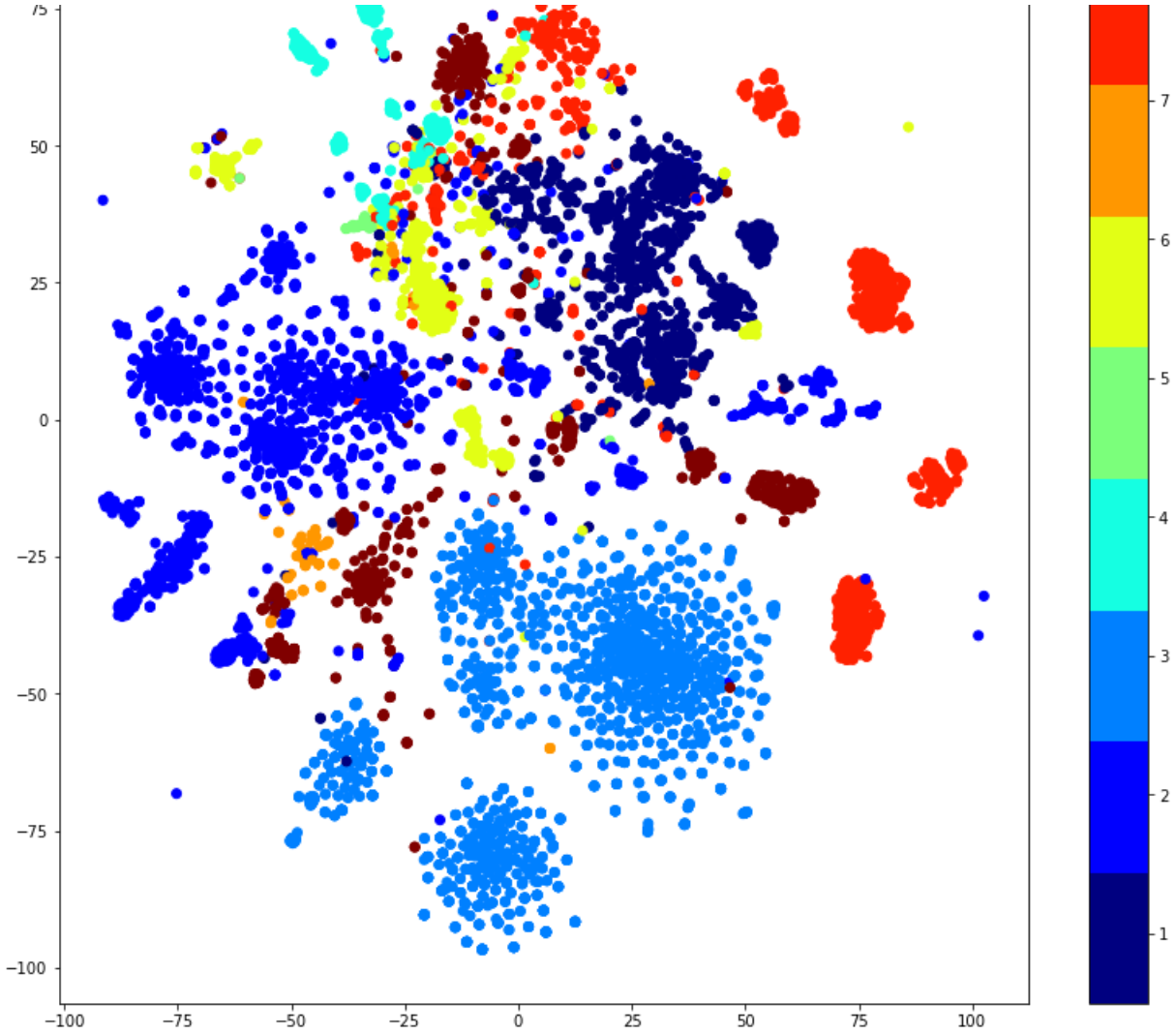
In [167]:

```
xtsne=TSNE(perplexity=30)
results1=xtsne.fit_transform(byte_data.drop(['ID','Class'],axis=1))

vis_x=results1[:,0]
vis_y=results1[:,1]


plt.figure(figsize=(14,14))
plt.scatter(vis_x,vis_y, c=y_new ,cmap=plt.cm.get_cmap("jet", 9) )
plt.colorbar(ticks=range(10))
plt.clim(0.5, 9)
plt.title("tsne with perplexity 30")
plt.show()
```





selecting top 1000 byte features using selectbestk

In [30]:

```
all_feature_names=list(XX1.columns)
len(all_feature_names)
```

Out[30]:

```
66049
```

In [31]:

```
#selecting top 1000 features
from sklearn.feature_selection import SelectKBest, chi2
clf= SelectKBest(chi2, k=1000)
```

In [32]:

```
X_new11=clf.fit_transform(XX1,YY1)
```

In [33]:

```
X_new11.shape
```

Out[33]:

```
(10868, 1000)
```

In [34]:

```
print(type(X_new11))
```

```
<class 'numpy.ndarray'>
```

In [35]:

```
len(clf.scores_)
```

Out[35]:

```
66049
```

In [36]:

```
feature_scores=[]
for i ,j in enumerate(clf.scores_):
    aa=(j,i)
    feature_scores.append(aa)
```

In [37]:

```
feature_scores23=[]
for i in feature_scores:
    if str(i[0]) != "nan":
        feature_scores23.append(i)
```

In [38]:

```
len(feature_scores23)
```

Out[38]:

```
10000
```

In [39]:

```
feature_scores1=sorted(feature_scores23)[::-1]
```

In [40]:

```
#top 1000 features name
top_column_names=[]
for i in range(1000):
    a1=feature_scores1[i][1]
    b1=all_feature_names[a1]
    top_column_names.append(b1)
```

In [41]:

```
len(top_column_names)
```

Out[41]:

```
1000
```

In [42]:

```
top_byte_features=pd.DataFrame(X_new11,columns=top_column_names)
```

In [43]:

```
top_byte_features.head(5)
```

Out[43]:

	60 41	86 36	36 86	97 86	95 87	60 72	52 60	63 60	86 72	98 87	...	14 01	99 82	48 0
0	0.125026	0.011168	0.022293	0.006287	0.004481	0.007858	0.006671	0.002811	0.003047	0.026772	...	0.000000	0.015748	0.00000
1	0.012167	0.005733	0.004885	0.004990	0.002029	0.053660	0.017891	0.004497	0.002624	0.018955	...	0.000000	0.000000	0.00274
2	0.009370	0.003643	0.002821	0.005189	0.003213	0.003022	0.018497	0.004404	0.004486	0.005140	...	0.012346	0.003937	0.00274
3	0.051255	0.004240	0.013348	0.002794	0.001945	0.002619	0.031461	0.001124	0.001439	0.012637	...	0.000000	0.023622	0.00274
4	0.012656	0.005495	0.004197	0.005189	0.001691	0.052854	0.017967	0.004216	0.001862	0.017563	...	0.000000	0.000000	0.00274

5 rows × 1000 columns

In [44]:

```
top_byte_features["ID"]=ID2
```

In [45]:

```
top_byte_features.head()
```

Out[45]:

	60 41	86 36	36 86	97 86	95 87	60 72	52 60	63 60	86 72	98 87	...	99 82	48 02	89 3
0	0.125026	0.011168	0.022293	0.006287	0.004481	0.007858	0.006671	0.002811	0.003047	0.026772	...	0.015748	0.000000	0.00425
1	0.012167	0.005733	0.004885	0.004990	0.002029	0.053660	0.017891	0.004497	0.002624	0.018955	...	0.000000	0.002747	0.00000
2	0.009370	0.003643	0.002821	0.005189	0.003213	0.003022	0.018497	0.004404	0.004486	0.005140	...	0.003937	0.002747	0.01276
3	0.051255	0.004240	0.013348	0.002794	0.001945	0.002619	0.031461	0.001124	0.001439	0.012637	...	0.023622	0.002747	0.00000
4	0.012656	0.005495	0.004197	0.005189	0.001691	0.052854	0.017967	0.004216	0.001862	0.017563	...	0.000000	0.002747	0.00000

5 rows × 1001 columns

In [46]:

```
top_byte_features.shape
```

Out[46]:

```
(10868, 1001)
```

merging it with size feature

In [53]:

```
data_size_byte1.head()
```

Out[53]:

	ID	Class	byte_size
0	gJQLAK983BsIvVwCHXRD	1	3.384277
1	iEhMwSYF4f7O6cInzgv0	1	0.523926
2	D6b9fCwnyHXaipBtWrK8	3	8.113770
3	3kqaIlVuPtxQJejvyNZ0	2	8.127930
4	jgNc6pwRCBPetnT2yXQH	2	5.621582

In [54]:

```
byte_data=pd.merge(top_byte_features,data_size_byte1,on="ID")
```

In [55]:

```
byte_data.head()
```

Out[55]:

	60 41	86 36	36 86	97 86	95 87	60 72	52 60	63 60	86 72	98 87	...	89 31	32 02	04 6
0	0.125026	0.011168	0.022293	0.006287	0.004481	0.007858	0.006671	0.002811	0.003047	0.026772	...	0.004255	0.000000	0.01831
1	0.012167	0.005733	0.004885	0.004990	0.002029	0.053660	0.017891	0.004497	0.002624	0.018955	...	0.000000	0.000000	0.00000
2	0.009370	0.003643	0.002821	0.005189	0.003213	0.003022	0.018497	0.004404	0.004486	0.005140	...	0.012766	0.002494	0.00366
3	0.051255	0.004240	0.013348	0.002794	0.001945	0.002619	0.031461	0.001124	0.001439	0.012637	...	0.000000	0.000000	0.00000
4	0.012656	0.005495	0.004197	0.005189	0.001691	0.052854	0.017967	0.004216	0.001862	0.017563	...	0.000000	0.000000	0.00000

5 rows × 1003 columns

3.2.4 Multivariate Analysis

In [56]:

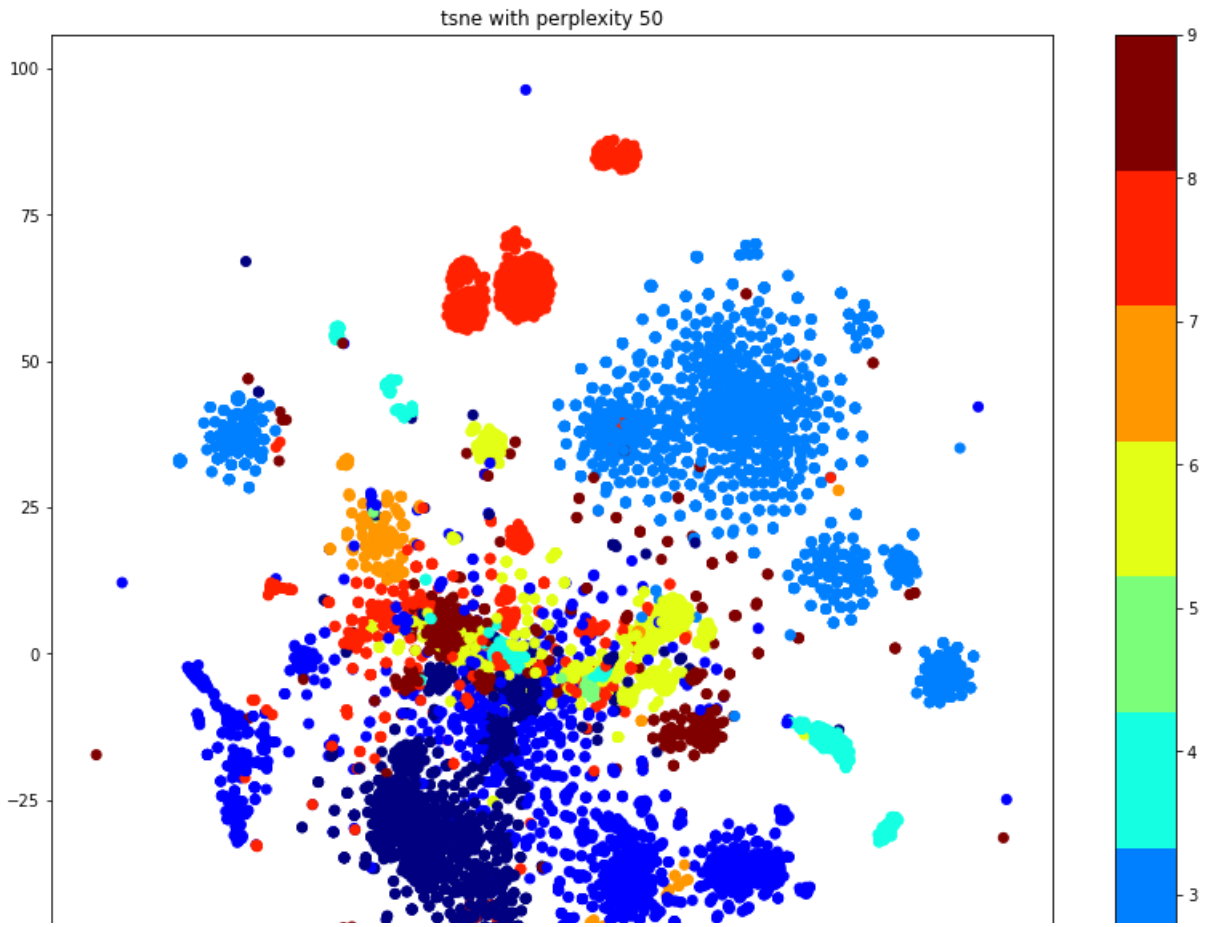
```
%matplotlib inline
```

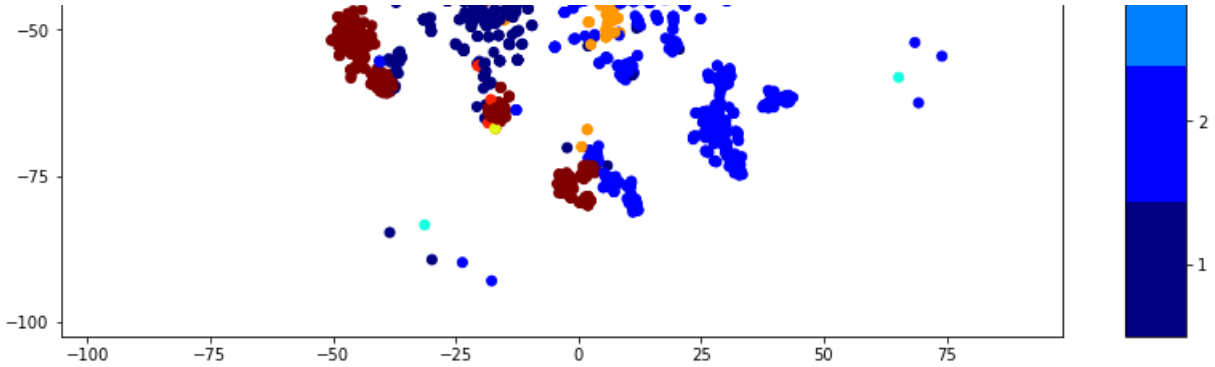
In [72]:

```
xtsne=TSNE(perplexity=50)
results1=xtsne.fit_transform(top_byte_features.drop(['ID','Class'],axis=1))

vis_x=results1[:,0]
vis_y=results1[:,1]


plt.figure(figsize=(14,14))
plt.scatter(vis_x,vis_y, c=data_y1 ,cmap=plt.cm.get_cmap("jet", 9) )
plt.colorbar(ticks=range(10))
plt.clim(0.5, 9)
plt.title("tsne with perplexity 50")
plt.show()
```

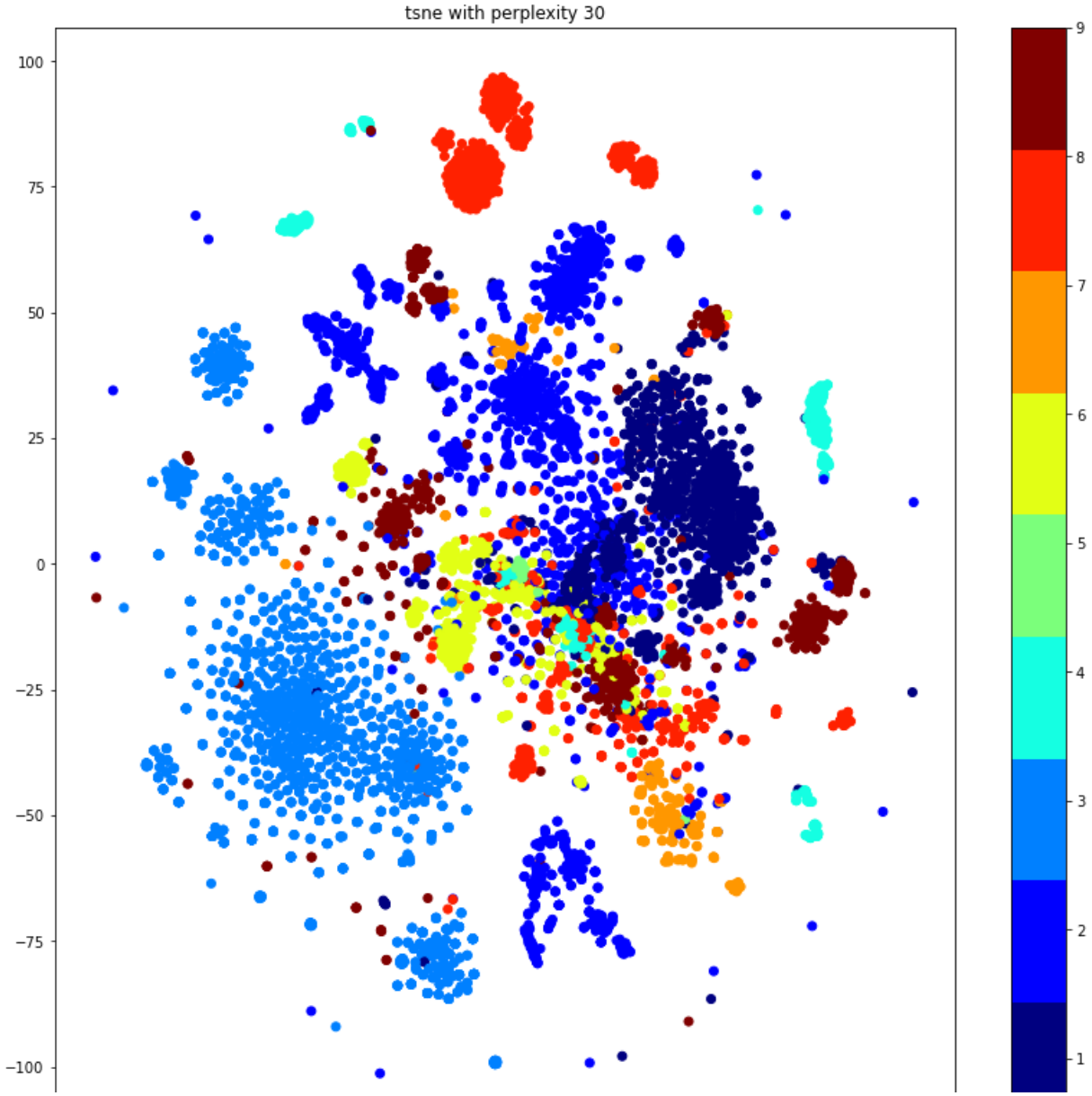




In [73]:

```
#multivariate analysis on byte files
#this is with perplexity 50
xtsne=TSNE(perplexity=30)
results1=xtsne.fit_transform(top_byte_features.drop(['ID','Class'], axis=1))
vis_x = results1[:, 0]
vis_y = results1[:, 1]

plt.figure(figsize=(14,14))
plt.scatter(vis_x, vis_y, c=data_y1, cmap=plt.cm.get_cmap("jet", 9))
plt.colorbar(ticks=range(10))
plt.clim(0.5, 9)
plt.title("tsne with perplexity 30")
plt.show()
```



Train Test split

In [168]:

```
data_y = byte_data['Class']
# split the data into test and train by maintaining same distribution of output varaible 'y_true'
[stratify=y_true]
X_train, X_test, y_train, y_test = train_test_split(byte_data.drop(['ID','Class'], axis=1), data_y,
stratify=data_y,test_size=0.20)
# split the train data into train and cross validation by maintaining same distribution of output
varaible 'y_train' [stratify=y_train]
X_train, X_cv, y_train, y_cv = train_test_split(X_train, y_train,stratify=y_train,test_size=0.20)
```

In [169]:

```
print('Number of data points in train data:', X_train.shape)
print('Number of data points in test data:', X_test.shape)
print('Number of data points in cross validation data:', X_cv.shape)
```

```
Number of data points in train data: (6955, 1001)
Number of data points in test data: (2174, 1001)
Number of data points in cross validation data: (1739, 1001)
```

In [79]:

```
!pip3 install --upgrade pandas
```

```
Requirement already up-to-date: pandas in /opt/conda/lib/python3.7/site-packages (1.0.3)
Requirement already satisfied, skipping upgrade: python-dateutil>=2.6.1 in
/opt/conda/lib/python3.7/site-packages (from pandas) (2.8.1)
Requirement already satisfied, skipping upgrade: numpy>=1.13.3 in /opt/conda/lib/python3.7/site-pa
ckages (from pandas) (1.18.3)
Requirement already satisfied, skipping upgrade: pytz>=2017.2 in /opt/conda/lib/python3.7/site-pac
kages (from pandas) (2019.3)
Requirement already satisfied, skipping upgrade: six>=1.5 in /opt/conda/lib/python3.7/site-
packages (from python-dateutil>=2.6.1->pandas) (1.14.0)
```

In [170]:

```
# it returns a dict, keys as class labels and values as the number of data points in that class
train_class_distribution = y_train.value_counts().sort_index()
test_class_distribution = y_test.value_counts().sort_index()
cv_class_distribution = y_cv.value_counts().sort_index()

my_colors = ['r', 'g', 'b', 'k', 'y', 'm', 'c']
#my_colors = 'rgbkymc'
train_class_distribution.plot(kind='bar', color=my_colors)
plt.xlabel('Class')
plt.ylabel('Data points per Class')
plt.title('Distribution of yi in train data')
plt.grid()
plt.show()

# ref: argsort https://docs.scipy.org/doc/numpy/reference/generated/numpy.argsort.html
# -(train_class_distribution.values): the minus sign will give us in decreasing order
sorted_yi = np.argsort(-train_class_distribution.values)
for i in sorted_yi:
    print('Number of data points in class', i+1, ':',train_class_distribution.values[i], '(', np.ro
und((train_class_distribution.values[i]/y_train.shape[0]*100), 3), '%)')

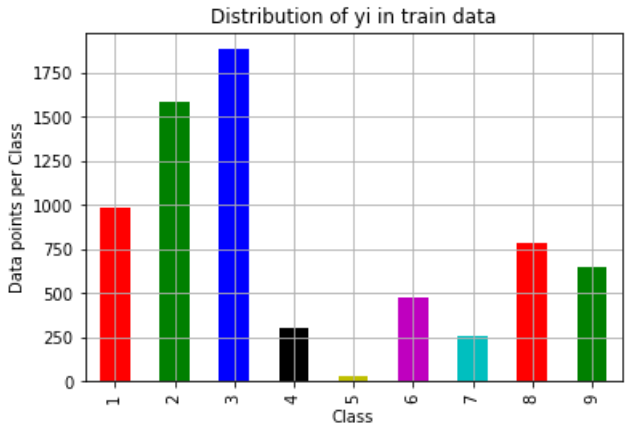

print('-'*80)
my_colors = ['r', 'g', 'b', 'k', 'y', 'm', 'c']
#my_colors = 'rgbkymc'
test_class_distribution.plot(kind='bar', color=my_colors)
plt.xlabel('Class')
```

```
plt.ylabel('Data points per Class')
plt.title('Distribution of yi in test data')
plt.grid()
plt.show()

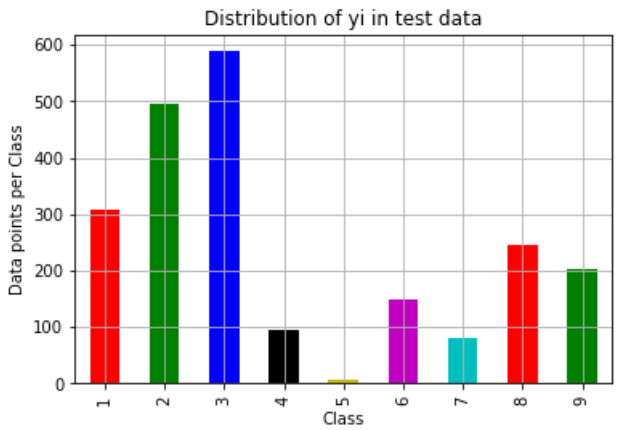
# ref: argsort https://docs.scipy.org/doc/numpy/reference/generated/numpy.argsort.html
# -(train_class_distribution.values): the minus sign will give us in decreasing order
sorted_yi = np.argsort(-test_class_distribution.values)
for i in sorted_yi:
    print('Number of data points in class', i+1, ':',test_class_distribution.values[i], '(', np.rou
nd((test_class_distribution.values[i]/y_test.shape[0]*100), 3), '%)')

print('-'*80)
my_colors = ['r', 'g', 'b', 'k', 'y', 'm', 'c']
#my_colors = 'rgbkymc'
cv_class_distribution.plot(kind='bar', color=my_colors)
plt.xlabel('Class')
plt.ylabel('Data points per Class')
plt.title('Distribution of yi in cross validation data')
plt.grid()
plt.show()

# ref: argsort https://docs.scipy.org/doc/numpy/reference/generated/numpy.argsort.html
# -(train_class_distribution.values): the minus sign will give us in decreasing order
sorted_yi = np.argsort(-train_class_distribution.values)
for i in sorted_yi:
    print('Number of data points in class', i+1, ':',cv_class_distribution.values[i], '(', np.round
((cv_class_distribution.values[i]/y_cv.shape[0]*100), 3), '%)')
```

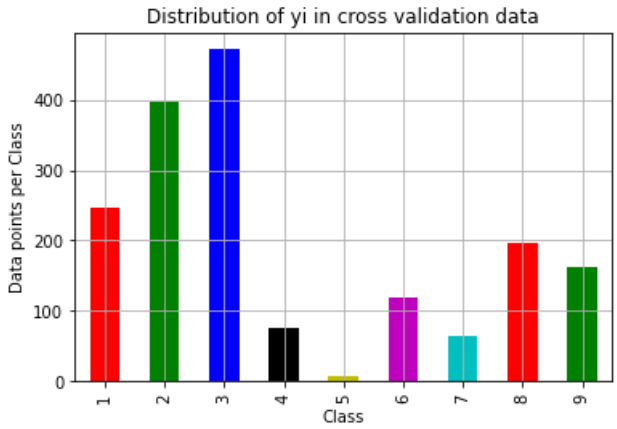



```
Number of data points in class 3 : 1883 ( 27.074 %)
Number of data points in class 2 : 1586 ( 22.804 %)
Number of data points in class 1 : 986 ( 14.177 %)
Number of data points in class 8 : 786 ( 11.301 %)
Number of data points in class 9 : 648 ( 9.317 %)
Number of data points in class 6 : 481 ( 6.916 %)
Number of data points in class 4 : 304 ( 4.371 %)
Number of data points in class 7 : 254 ( 3.652 %)
Number of data points in class 5 : 27 ( 0.388 %)
--------------------------------------------------------------------------------
```




```
Number of data points in class 3 : 588 ( 27.047 %)
```

```
Number of data points in class 3 : 588 ( 27.047 %)
Number of data points in class 2 : 496 ( 22.815 %)
Number of data points in class 1 : 308 ( 14.167 %)
Number of data points in class 8 : 246 ( 11.316 %)
Number of data points in class 9 : 203 ( 9.338 %)
Number of data points in class 6 : 150 ( 6.9 %)
Number of data points in class 4 : 95 ( 4.37 %)
Number of data points in class 7 : 80 ( 3.68 %)
Number of data points in class 5 : 8 ( 0.368 %)
--------------------------------------------------------------------------------
```




```
Number of data points in class 3 : 471 ( 27.085 %)
Number of data points in class 2 : 396 ( 22.772 %)
Number of data points in class 1 : 247 ( 14.204 %)
Number of data points in class 8 : 196 ( 11.271 %)
Number of data points in class 9 : 162 ( 9.316 %)
Number of data points in class 6 : 120 ( 6.901 %)
Number of data points in class 4 : 76 ( 4.37 %)
Number of data points in class 7 : 64 ( 3.68 %)
Number of data points in class 5 : 7 ( 0.403 %)
```

In [171]:

```
def plot_confusion_matrix(test_y, predict_y):
    C = confusion_matrix(test_y, predict_y)
    print("Number of misclassified points ",(len(test_y)-np.trace(C))/len(test_y)*100)
    # C = 9,9 matrix, each cell (i,j) represents number of points of class i are predicted class j

    A =(((C.T)/(C.sum(axis=1))).T)
    #divid each element of the confusion matrix with the sum of elements in that column

    # C = [[1, 2],
    #     [3, 4]]
    # C.T = [[1, 3],
    #        [2, 4]]
    # C.sum(axis = 1)  axis=0 corresonds to columns and axis=1 corresponds to rows in two
diamensional array
    # C.sum(axix =1) = [[3, 7]]
    # ((C.T)/(C.sum(axis=1))) = [[1/3, 3/7]
    #                           [2/3, 4/7]]

    # ((C.T)/(C.sum(axis=1))).T = [[1/3, 2/3]
    #                             [3/7, 4/7]]
    # sum of row elements = 1

    B =(C/C.sum(axis=0))
    #divid each element of the confusion matrix with the sum of elements in that row
    # C = [[1, 2],
    #     [3, 4]]
    # C.sum(axis = 0)  axis=0 corresonds to columns and axis=1 corresponds to rows in two
diamensional array
    # C.sum(axix =0) = [[4, 6]]
    # (C/C.sum(axis=0)) = [[1/4, 2/6],
    #                      [3/4, 4/6]]

    labels = [1,2,3,4,5,6,7,8,9]
    cmap=sns.light_palette("green")
    # representing A in heatmap format
```

```
    print("-"*50, "Confusion matrix", "-"*50)
    plt.figure(figsize=(10,5))
    sns.heatmap(C, annot=True, cmap=cmap, fmt=".3f", xticklabels=labels, yticklabels=labels)
    plt.xlabel('Predicted Class')
    plt.ylabel('Original Class')
    plt.show()

    print("-"*50, "Precision matrix", "-"*50)
    plt.figure(figsize=(10,5))
    sns.heatmap(B, annot=True, cmap=cmap, fmt=".3f", xticklabels=labels, yticklabels=labels)
    plt.xlabel('Predicted Class')
    plt.ylabel('Original Class')
    plt.show()
    print("Sum of columns in precision matrix",B.sum(axis=0))

    # representing B in heatmap format
    print("-"*50, "Recall matrix"    , "-"*50)
    plt.figure(figsize=(10,5))
    sns.heatmap(A, annot=True, cmap=cmap, fmt=".3f", xticklabels=labels, yticklabels=labels)
    plt.xlabel('Predicted Class')
    plt.ylabel('Original Class')
    plt.show()
    print("Sum of rows in precision matrix",A.sum(axis=1))
```

4. Machine Learning Models

4.1. Machine Leaning Models on bytes files

4.1.1. Random Model

In [172]:

```
# we need to generate 9 numbers and the sum of numbers should be 1
# one solution is to genarate 9 numbers and divide each of the numbers by their sum
# ref: https://stackoverflow.com/a/18662466/4084039

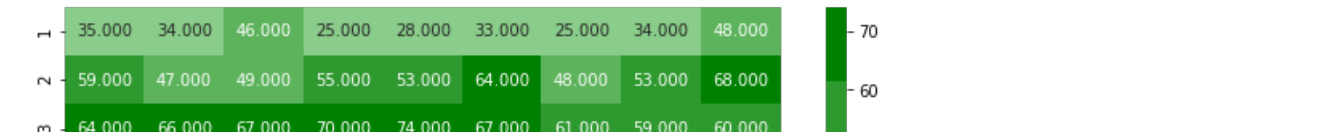
test_data_len = X_test.shape[0]
cv_data_len = X_cv.shape[0]

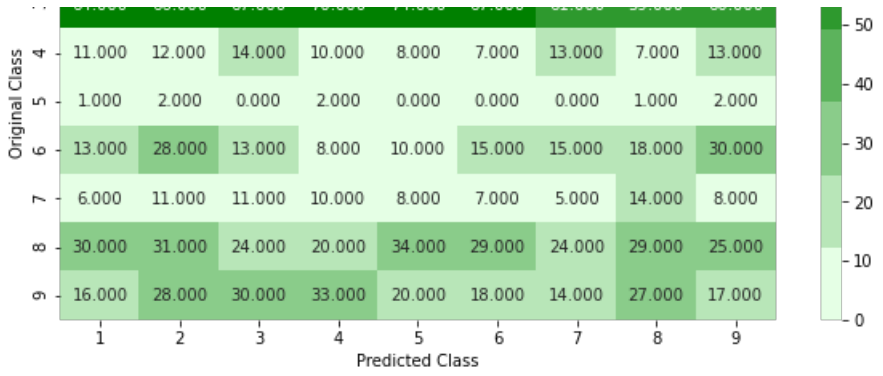
# we create a output array that has exactly same size as the CV data
cv_predicted_y = np.zeros((cv_data_len,9))
for i in range(cv_data_len):
    rand_probs = np.random.rand(1,9)
    cv_predicted_y[i] = ((rand_probs/sum(sum(rand_probs)))[0])
print("Log loss on Cross Validation Data using Random Model",log_loss(y_cv,cv_predicted_y, eps=1e-
15))


# Test-Set error.
#we create a output array that has exactly same as the test data
test_predicted_y = np.zeros((test_data_len,9))
for i in range(test_data_len):
    rand_probs = np.random.rand(1,9)
    test_predicted_y[i] = ((rand_probs/sum(sum(rand_probs)))[0])
print("Log loss on Test Data using Random Model",log_loss(y_test,test_predicted_y, eps=1e-15))

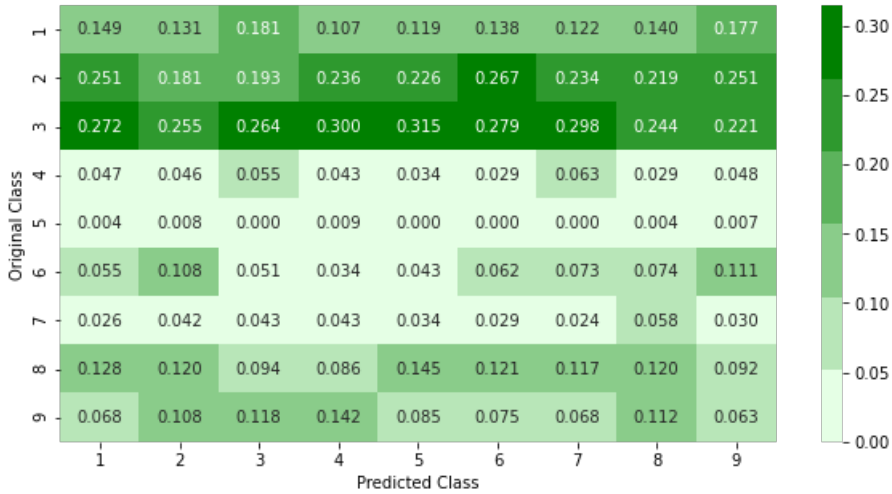
predicted_y =np.argmax(test_predicted_y, axis=1)
plot_confusion_matrix(y_test, predicted_y+1)
```

```
Log loss on Cross Validation Data using Random Model 2.4858360186042407
Log loss on Test Data using Random Model 2.513264516052997
Number of misclassified points  89.65041398344066
-------------------------------------------------- Confusion matrix --------------------------------
----------------
```

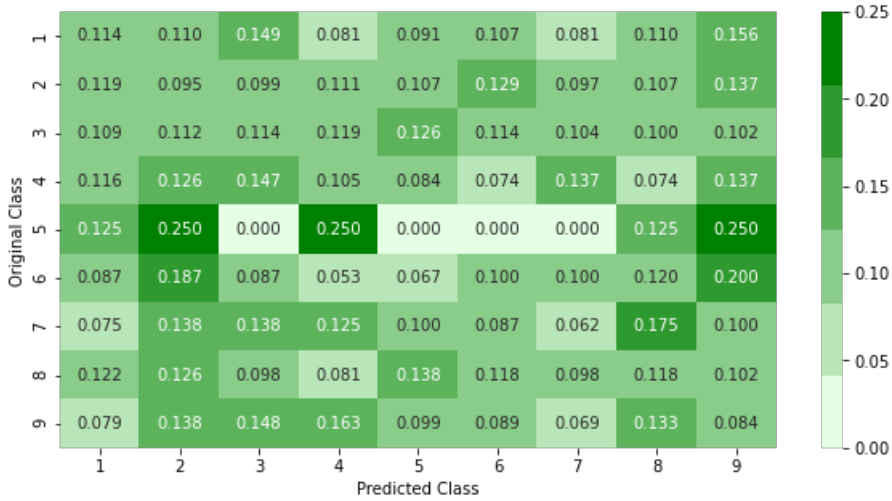





```
------------------------------------------------- Precision matrix ------------------------------
----------------
```




```
Sum of columns in precision matrix [1. 1. 1. 1. 1. 1. 1. 1. 1.]
------------------------------------------------- Recall matrix ---------------------------------
-------------
```




```
Sum of rows in precision matrix [1. 1. 1. 1. 1. 1. 1. 1. 1.]
```

4.1.4. Random Forest Classifier

In [173]:

```
# --------------------------------
# default parameters
# sklearn.ensemble.RandomForestClassifier(n_estimators=10, criterion='gini', max_depth=None, min_s
amples_split=2,
# min_samples_leaf=1, min_weight_fraction_leaf=0.0, max_features='auto', max_leaf_nodes=None, min
```

```
# min_samples_leaf=1, min_weight_fraction_leaf=0.0, max_features='auto', max_leaf_nodes=None, min_
impurity_decrease=0.0,
# min_impurity_split=None, bootstrap=True, oob_score=False, n_jobs=1, random_state=None,
verbose=0, warm_start=False,
# class_weight=None)

# Some of methods of RandomForestClassifier()
# fit(X, y, [sample_weight]) Fit the SVM model according to the given training data.
# predict(X) Perform classification on samples in X.
# predict_proba (X) Perform classification on samples in X.

# some of attributes of  RandomForestClassifier()
# feature_importances_ : array of shape = [n_features]
# The feature importances (the higher, the more important the feature).

# --------------------------------
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/random-fores
t-and-their-construction-2/
# --------------------------------

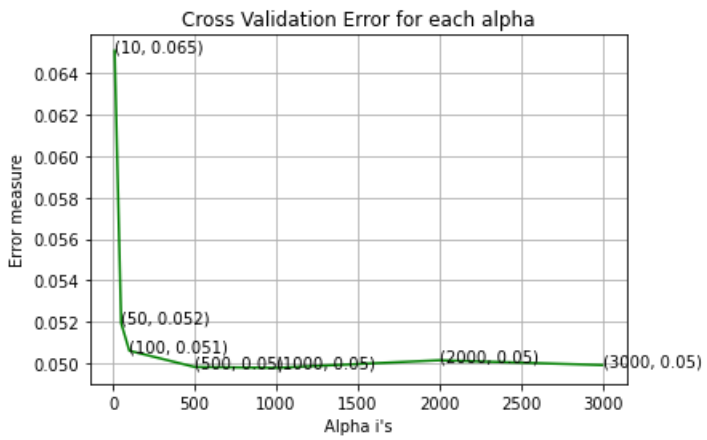
alpha=[10,50,100,500,1000,2000,3000]
cv_log_error_array=[]
train_log_error_array=[]
from sklearn.ensemble import RandomForestClassifier
for i in alpha:
    r_cfl=RandomForestClassifier(n_estimators=i,random_state=42,n_jobs=-1)
    r_cfl.fit(X_train,y_train)
    sig_clf = CalibratedClassifierCV(r_cfl, method="sigmoid")
    sig_clf.fit(X_train, y_train)
    predict_y = sig_clf.predict_proba(X_cv)
    cv_log_error_array.append(log_loss(y_cv, predict_y, labels=r_cfl.classes_, eps=1e-15))

for i in range(len(cv_log_error_array)):
    print ('log_loss for c = ',alpha[i],'is',cv_log_error_array[i])


best_alpha = np.argmin(cv_log_error_array)

fig, ax = plt.subplots()
ax.plot(alpha, cv_log_error_array,c='g')
for i, txt in enumerate(np.round(cv_log_error_array,3)):
    ax.annotate((alpha[i],np.round(txt,3)), (alpha[i],cv_log_error_array[i]))
plt.grid()
plt.title("Cross Validation Error for each alpha")
plt.xlabel("Alpha i's")
plt.ylabel("Error measure")
plt.show()
```

```
log_loss for c =  10 is 0.065086110795661
log_loss for c =  50 is 0.05193373440631388
log_loss for c =  100 is 0.05060078344114557
log_loss for c =  500 is 0.049818255413188337
log_loss for c =  1000 is 0.04977394879316765
log_loss for c =  2000 is 0.0501411664270819
log_loss for c =  3000 is 0.049908863333610554
```



In [174]:

```
best_alpha=350
```

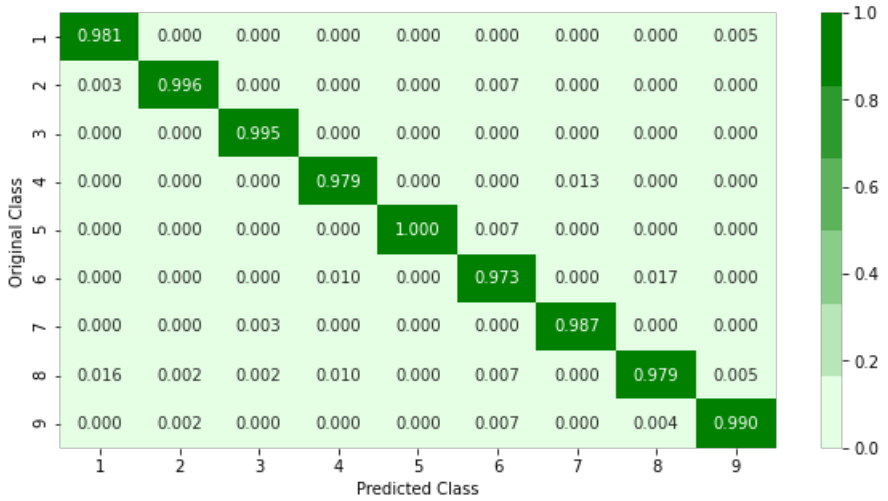
In [175]:

```
r_cfl=RandomForestClassifier(n_estimators=best_alpha,random_state=42,n_jobs=-1)
r_cfl.fit(X_train,y_train)
sig_clf = CalibratedClassifierCV(r_cfl, method="sigmoid")
sig_clf.fit(X_train, y_train)

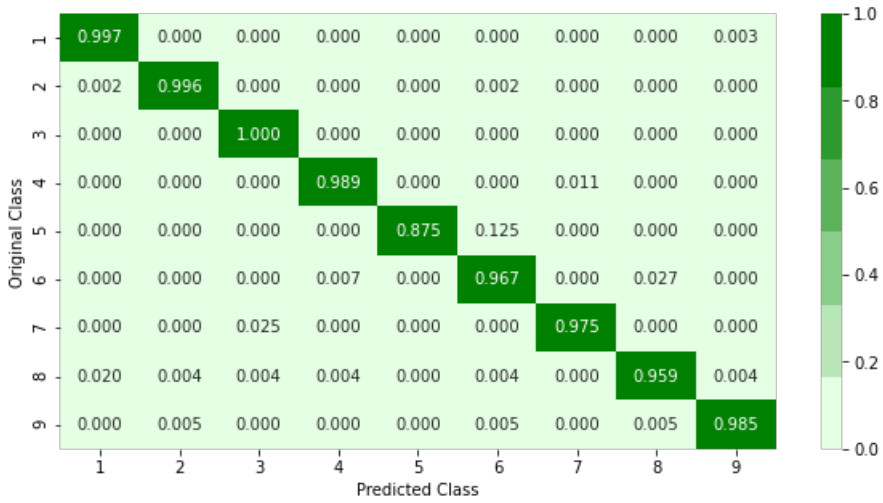
predict_y = sig_clf.predict_proba(X_train)
print('For values of best alpha = ', best_alpha, "The train log loss is:",log_loss(y_train,
predict_y))
predict_y = sig_clf.predict_proba(X_cv)
print('For values of best alpha = ', best_alpha, "The cross validation log loss is:",log_loss(y_cv
, predict_y))
predict_y = sig_clf.predict_proba(X_test)
print('For values of best alpha = ', best_alpha, "The test log loss is:",log_loss(y_test,
predict_y))
plot_confusion_matrix(y_test, sig_clf.predict(X_test))
```

```
For values of best alpha =  350 The train log loss is: 0.01723020210397686
For values of best alpha =  350 The cross validation log loss is: 0.04978406470072153
For values of best alpha =  350 The test log loss is: 0.052534346590903745
Number of misclassified points  1.1499540018399264
-------------------------------------------------- Confusion matrix ------------------------------
----------------
```

```
-------------------------------------------------- Precision matrix ------------------------------
----------------
```




```
Sum of columns in precision matrix [1. 1. 1. 1. 1. 1. 1. 1. 1.]
-------------------------------------------------- Recall matrix ---------------------------------
-------------
```




```
Sum of rows in precision matrix [1. 1. 1. 1. 1. 1. 1. 1. 1.]
```

4.1.5. XgBoost Classification with best hyper parameters using RandomSearch

In [92]:

```
# https://www.analyticsvidhya.com/blog/2016/03/complete-guide-parameter-tuning-xgboost-with-codes-python/
x_cfl=XGBClassifier()

prams={
    'learning_rate':[0.01,0.03,0.05,0.1,0.15,0.2],
     'n_estimators':[100,200,500,1000,2000],
     'max_depth':[3,5,10],
    'colsample_bytree':[0.1,0.3,0.5,1],
    'subsample':[0.1,0.3,0.5,1]
}
random_cfl1=RandomizedSearchCV(x_cfl,param_distributions=prams,verbose=10,n_jobs=-1,)
random_cfl1.fit(X_train,y_train)
```

```
Fitting 5 folds for each of 10 candidates, totalling 50 fits
```

```
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   2 tasks      | elapsed:  3.5min
[Parallel(n_jobs=-1)]: Done   9 tasks      | elapsed:  4.9min
[Parallel(n_jobs=-1)]: Done  16 tasks      | elapsed: 12.4min
[Parallel(n_jobs=-1)]: Done  25 tasks      | elapsed: 17.3min
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed: 35.2min
[Parallel(n_jobs=-1)]: Done  41 out of  50 | elapsed: 38.0min remaining:  8.3min
[Parallel(n_jobs=-1)]: Done  47 out of  50 | elapsed: 39.7min remaining:  2.5min
[Parallel(n_jobs=-1)]: Done  50 out of  50 | elapsed: 40.7min finished
```

Out[92]:

```
RandomizedSearchCV(cv=None, error_score=nan,
                   estimator=XGBClassifier(base_score=None, booster=None,
                                           colsample_bylevel=None,
                                           colsample_bynode=None,
                                           colsample_bytree=None, gamma=None,
                                           gpu_id=None, importance_type='gain',
                                           interaction_constraints=None,
                                           learning_rate=None,
                                           max_delta_step=None, max_depth=None,
                                           min_child_weight=None, missing=nan,
                                           monotone_constraints=Non...
                                           validate_parameters=None,
                                           verbosity=None),
                   iid='deprecated', n_iter=10, n_jobs=-1,
                   param_distributions={'colsample_bytree': [0.1, 0.3, 0.5, 1],
                                        'learning_rate': [0.01, 0.03, 0.05, 0.1,
                                                          0.15, 0.2],
                                        'max_depth': [3, 5, 10],
```

```
                                        'max_depth': [3, 5, 10],
                                        'n_estimators': [100, 200, 500, 1000,
                                                         2000],
                                        'subsample': [0.1, 0.3, 0.5, 1]},
                    pre_dispatch='2*n_jobs', random_state=None, refit=True,
                    return_train_score=False, scoring=None, verbose=10)
```

In [93]:

```
print (random_cfl1.best_params_)
```

```
{'subsample': 1, 'n_estimators': 1000, 'max_depth': 3, 'learning_rate': 0.2, 'colsample_bytree': 0
.1}
```

In [176]:

```
# Training a hyper-parameter tuned Xg-Boost regressor on our train data

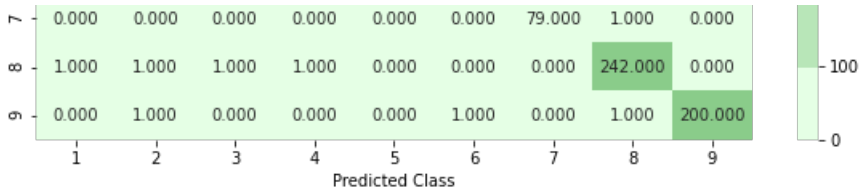
# find more about XGBClassifier function here
http://xgboost.readthedocs.io/en/latest/python/python_api.html?#xgboost.XGBClassifier
# -------------------------
# default paramters
# class xgboost.XGBClassifier(max_depth=3, learning_rate=0.1, n_estimators=100, silent=True,
# objective='binary:logistic', booster='gbtree', n_jobs=1, nthread=None, gamma=0,
min_child_weight=1,
# max_delta_step=0, subsample=1, colsample_bytree=1, colsample_bylevel=1, reg_alpha=0,
reg_lambda=1,
# scale_pos_weight=1, base_score=0.5, random_state=0, seed=None, missing=None, **kwargs)

# some of methods of RandomForestRegressor()
# fit(X, y, sample_weight=None, eval_set=None, eval_metric=None, early_stopping_rounds=None, verbo
se=True, xgb_model=None)
# get_params([deep]) Get parameters for this estimator.
# predict(data, output_margin=False, ntree_limit=0) : Predict with data. NOTE: This function is no
t thread safe.
# get_score(importance_type='weight') -> get the feature importance
# -----------------------
# video link2: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/what-are-en
sembles/
# -----------------------

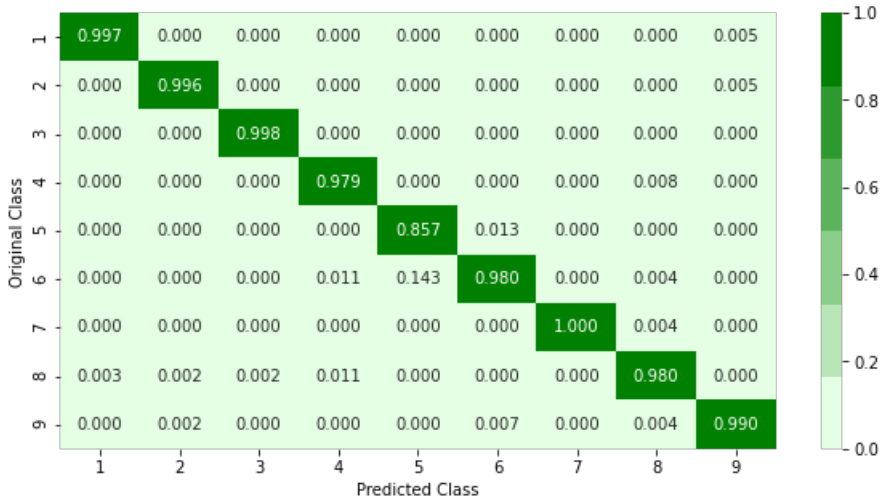
x_cfl=XGBClassifier(n_estimators=1000, learning_rate=0.15, colsample_bytree=0.5, max_depth=3,subsam
ple=1)
x_cfl.fit(X_train,y_train)
c_cfl=CalibratedClassifierCV(x_cfl,method='sigmoid')
c_cfl.fit(X_train,y_train)

predict_y = c_cfl.predict_proba(X_train)
print ('train loss',log_loss(y_train, predict_y))
predict_y = c_cfl.predict_proba(X_cv)
print ('cv loss',log_loss(y_cv, predict_y))
predict_y = c_cfl.predict_proba(X_test)
print ('test loss',log_loss(y_test, predict_y))
plot_confusion_matrix(y_test,c_cfl.predict(X_test))
```

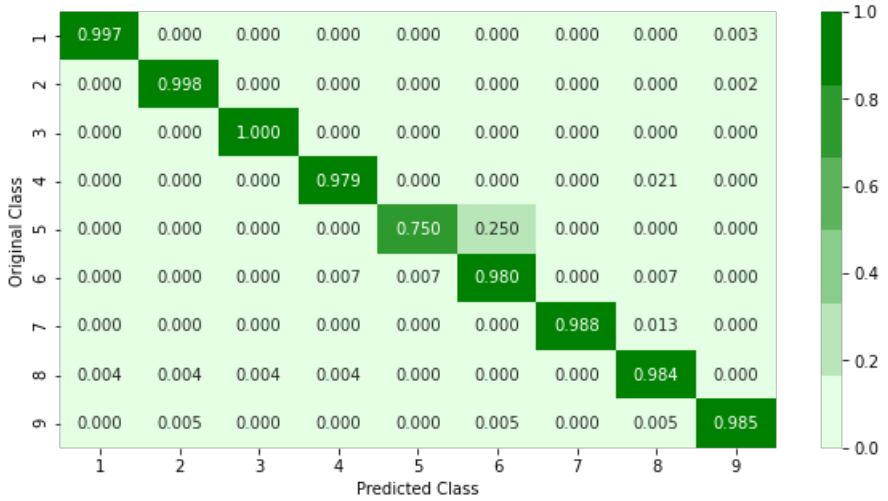
```
train loss 0.014210153723453694
cv loss 0.047709435732108375
test loss 0.04506363684993079
Number of misclassified points  0.78196872125115
---------------------------------------------------- Confusion matrix ------------------------------
----------------
```




```
---------------------------------------------------- Precision matrix ------------------------------
----------------
```




```
Sum of columns in precision matrix [1. 1. 1. 1. 1. 1. 1. 1. 1.]
---------------------------------------------------- Recall matrix ---------------------------------
-------------
```




```
Sum of rows in precision matrix [1. 1. 1. 1. 1. 1. 1. 1. 1.]
```

4.2 Modeling with .asm files

```
There are 10868 files of asm
All the files make up about 150 GB
The asm files contains :
1. Address
2. Segments
3. Opcodes
4. Registers
5. function calls
6. APIs
With the help of parallel processing we extracted all the features.In parallel we can use a
```

With the help of parallel processing we extracted all the features.In parallel we can use a
ll the cores that are present in our computer.

Here we extracted 52 features from all the asm files which are important.

We read the top solutions and handpicked the features from those papers/videos/blogs.
 Refer:https://www.kaggle.com/c/malware-classification/discussion

4.2.1 Feature extraction from asm files

- To extract the unigram features from the .asm files we need to process ~150GB of data
- **Note: Below two cells will take lot of time (over 48 hours to complete)**
- We will provide you the output file of these two cells, which you can directly use it

In [0]:

```
#intially create five folders
#first
#second
#thrid
#fourth
#fifth
#this code tells us about random split of files into five folders
folder_1 ='first'
folder_2 ='second'
folder_3 ='third'
folder_4 ='fourth'
folder_5 ='fifth'
folder_6 = 'output'
for i in [folder_1,folder_2,folder_3,folder_4,folder_5,folder_6]:
    if not os.path.isdir(i):
        os.makedirs(i)

source='train/'
files = os.listdir('train')
ID=df['Id'].tolist()
data=range(0,10868)
r.shuffle(data)
count=0
for i in range(0,10868):
    if i % 5==0:
        shutil.move(source+files[data[i]],'first')
    elif i%5==1:
        shutil.move(source+files[data[i]],'second')
    elif i%5 ==2:
        shutil.move(source+files[data[i]],'thrid')
    elif i%5 ==3:
        shutil.move(source+files[data[i]],'fourth')
    elif i%5==4:
        shutil.move(source+files[data[i]],'fifth')
```

In [0]:

```
#http://flint.cs.yale.edu/cs421/papers/x86-asm/asm.html

def firstprocess():
    #The prefixes tells about the segments that are present in the asm files
    #There are 450 segments(approx) present in all asm files.
    #this prefixes are best segments that gives us best values.
    #https://en.wikipedia.org/wiki/Data_segment

    prefixes = ['HEADER:','.text:','.Pav:','.idata:','.data:','.bss:','.rdata:','.edata:','.rsrc:',
'.tls:','.reloc:','.BSS:','.CODE']
    #this are opcodes that are used to get best results
    #https://en.wikipedia.org/wiki/X86_instruction_listings

    opcodes = ['jmp', 'mov', 'retf', 'push', 'pop', 'xor', 'retn', 'nop', 'sub', 'inc', 'dec',
'add','imul', 'xchg', 'or', 'shr', 'cmp', 'call', 'shl', 'ror', 'rol', 'jnb','jz','rtn','lea','movz
x']
    #best keywords that are taken from different blogs
```

```
    keywords = ['.dll','std::',':dword']
    #Below taken registers are general purpose registers and special registers
    #All the registers which are taken are best
    registers=['edx','esi','eax','ebx','ecx','edi','ebp','esp','eip']
    file1=open("output\asmsmallfile.txt","w+")
    files = os.listdir('first')
    for f in files:
        #filling the values with zeros into the arrays
        prefixescount=np.zeros(len(prefixes),dtype=int)
        opcodescount=np.zeros(len(opcodes),dtype=int)
        keywordcount=np.zeros(len(keywords),dtype=int)
        registerscount=np.zeros(len(registers),dtype=int)
        features=[]
        f2=f.split('.')[0]
        file1.write(f2+",")
        opcodefile.write(f2+" ")
        # https://docs.python.org/3/library/codecs.html#codecs.ignore_errors
        # https://docs.python.org/3/library/codecs.html#codecs.Codec.encode
        with codecs.open('first/'+f,encoding='cp1252',errors ='replace') as fli:
            for lines in fli:
                # https://www.tutorialspoint.com/python3/string_rstrip.htm
                line=lines.rstrip().split()
                l=line[0]
                #counting the prefixs in each and every line
                for i in range(len(prefixes)):
                    if prefixes[i] in line[0]:
                        prefixescount[i]+=1
                line=line[1:]
                #counting the opcodes in each and every line
                for i in range(len(opcodes)):
                    if any(opcodes[i]==li for li in line):
                        features.append(opcodes[i])
                        opcodescount[i]+=1
                #counting registers in the line
                for i in range(len(registers)):
                    for li in line:
                        # we will use registers only in 'text' and 'CODE' segments
                        if registers[i] in li and ('text' in l or 'CODE' in l):
                            registerscount[i]+=1
                #counting keywords in the line
                for i in range(len(keywords)):
                    for li in line:
                        if keywords[i] in li:
                            keywordcount[i]+=1
        #pushing the values into the file after reading whole file
        for prefix in prefixescount:
            file1.write(str(prefix)+",")
        for opcode in opcodescount:
            file1.write(str(opcode)+",")
        for register in registerscount:
            file1.write(str(register)+",")
        for key in keywordcount:
            file1.write(str(key)+",")
        file1.write("\n")
    file1.close()


#same as above
def secondprocess():
    prefixes = ['HEADER:','.text:','.Pav:','.idata:','.data:','.bss:','.rdata:','.edata:','.rsrc:',
'.tls:','.reloc:','.BSS:','.CODE']
    opcodes = ['jmp', 'mov', 'retf', 'push', 'pop', 'xor', 'retn', 'nop', 'sub', 'inc', 'dec',
'add','imul', 'xchg', 'or', 'shr', 'cmp', 'call', 'shl', 'ror', 'rol', 'jnb','jz','rtn','lea','movz
x']
    keywords = ['.dll','std::',':dword']
    registers=['edx','esi','eax','ebx','ecx','edi','ebp','esp','eip']
    file1=open("output\mediumasmfile.txt","w+")
    files = os.listdir('second')
    for f in files:
        prefixescount=np.zeros(len(prefixes),dtype=int)
        opcodescount=np.zeros(len(opcodes),dtype=int)
        keywordcount=np.zeros(len(keywords),dtype=int)
        registerscount=np.zeros(len(registers),dtype=int)
        features=[]
        f2=f.split('.')[0]
        file1.write(f2+",")
        opcodefile.write(f2+" ")
```

```
        with codecs.open('second/'+f,encoding='cp1252',errors ='replace') as fli:
            for lines in fli:
                line=lines.rstrip().split()
                l=line[0]
                for i in range(len(prefixes)):
                    if prefixes[i] in line[0]:
                        prefixescount[i]+=1
                line=line[1:]
                for i in range(len(opcodes)):
                    if any(opcodes[i]==li for li in line):
                        features.append(opcodes[i])
                        opcodescount[i]+=1
                for i in range(len(registers)):
                    for li in line:
                        if registers[i] in li and ('text' in l or 'CODE' in l):
                            registerscount[i]+=1
                for i in range(len(keywords)):
                    for li in line:
                        if keywords[i] in li:
                            keywordcount[i]+=1
        for prefix in prefixescount:
            file1.write(str(prefix)+",")
        for opcode in opcodescount:
            file1.write(str(opcode)+",")
        for register in registerscount:
            file1.write(str(register)+",")
        for key in keywordcount:
            file1.write(str(key)+",")
        file1.write("\n")
    file1.close()

# same as smallprocess() functions
def thirdprocess():
    prefixes = ['HEADER:','.text:','.Pav:','.idata:','.data:','.bss:','.rdata:','.edata:','.rsrc:',
'.tls:','.reloc:','.BSS:','.CODE']
    opcodes = ['jmp', 'mov', 'retf', 'push', 'pop', 'xor', 'retn', 'nop', 'sub', 'inc', 'dec',
'add','imul', 'xchg', 'or', 'shr', 'cmp', 'call', 'shl', 'ror', 'rol', 'jnb','jz','rtn','lea','movz
x']
    keywords = ['.dll','std::',':dword']
    registers=['edx','esi','eax','ebx','ecx','edi','ebp','esp','eip']
    file1=open("output\largeasmfile.txt","w+")
    files = os.listdir('thrid')
    for f in files:
        prefixescount=np.zeros(len(prefixes),dtype=int)
        opcodescount=np.zeros(len(opcodes),dtype=int)
        keywordcount=np.zeros(len(keywords),dtype=int)
        registerscount=np.zeros(len(registers),dtype=int)
        features=[]
        f2=f.split('.')[0]
        file1.write(f2+",")
        opcodefile.write(f2+" ")
        with codecs.open('thrid/'+f,encoding='cp1252',errors ='replace') as fli:
            for lines in fli:
                line=lines.rstrip().split()
                l=line[0]
                for i in range(len(prefixes)):
                    if prefixes[i] in line[0]:
                        prefixescount[i]+=1
                line=line[1:]
                for i in range(len(opcodes)):
                    if any(opcodes[i]==li for li in line):
                        features.append(opcodes[i])
                        opcodescount[i]+=1
                for i in range(len(registers)):
                    for li in line:
                        if registers[i] in li and ('text' in l or 'CODE' in l):
                            registerscount[i]+=1
                for i in range(len(keywords)):
                    for li in line:
                        if keywords[i] in li:
                            keywordcount[i]+=1
        for prefix in prefixescount:
            file1.write(str(prefix)+",")
        for opcode in opcodescount:
            file1.write(str(opcode)+",")
        for register in registerscount:
            file1.write(str(register)+",")
```

```
        for key in keywordcount:
            file1.write(str(key)+",")
        file1.write("\n")
    file1.close()


def fourthprocess():
    prefixes = ['HEADER:','.text:','.Pav:','.idata:','.data:','.bss:','.rdata:','.edata:','.rsrc:',
'.tls:','.reloc:','.BSS:','.CODE']
    opcodes = ['jmp', 'mov', 'retf', 'push', 'pop', 'xor', 'retn', 'nop', 'sub', 'inc', 'dec',
'add','imul', 'xchg', 'or', 'shr', 'cmp', 'call', 'shl', 'ror', 'rol', 'jnb','jz','rtn','lea','movz
x']
    keywords = ['.dll','std::',':dword']
    registers=['edx','esi','eax','ebx','ecx','edi','ebp','esp','eip']
    file1=open("output\hugeasmfile.txt","w+")
    files = os.listdir('fourth/')
    for f in files:
        prefixescount=np.zeros(len(prefixes),dtype=int)
        opcodescount=np.zeros(len(opcodes),dtype=int)
        keywordcount=np.zeros(len(keywords),dtype=int)
        registerscount=np.zeros(len(registers),dtype=int)
        features=[]
        f2=f.split('.')[0]
        file1.write(f2+",")
        opcodefile.write(f2+" ")
        with codecs.open('fourth/'+f,encoding='cp1252',errors ='replace') as fli:
            for lines in fli:
                line=lines.rstrip().split()
                l=line[0]
                for i in range(len(prefixes)):
                    if prefixes[i] in line[0]:
                        prefixescount[i]+=1
                line=line[1:]
                for i in range(len(opcodes)):
                    if any(opcodes[i]==li for li in line):
                        features.append(opcodes[i])
                        opcodescount[i]+=1
                for i in range(len(registers)):
                    for li in line:
                        if registers[i] in li and ('text' in l or 'CODE' in l):
                            registerscount[i]+=1
                for i in range(len(keywords)):
                    for li in line:
                        if keywords[i] in li:
                            keywordcount[i]+=1
        for prefix in prefixescount:
            file1.write(str(prefix)+",")
        for opcode in opcodescount:
            file1.write(str(opcode)+",")
        for register in registerscount:
            file1.write(str(register)+",")
        for key in keywordcount:
            file1.write(str(key)+",")
        file1.write("\n")
    file1.close()


def fifthprocess():
    prefixes = ['HEADER:','.text:','.Pav:','.idata:','.data:','.bss:','.rdata:','.edata:','.rsrc:',
'.tls:','.reloc:','.BSS:','.CODE']
    opcodes = ['jmp', 'mov', 'retf', 'push', 'pop', 'xor', 'retn', 'nop', 'sub', 'inc', 'dec',
'add','imul', 'xchg', 'or', 'shr', 'cmp', 'call', 'shl', 'ror', 'rol', 'jnb','jz','rtn','lea','movz
x']
    keywords = ['.dll','std::',':dword']
    registers=['edx','esi','eax','ebx','ecx','edi','ebp','esp','eip']
    file1=open("output\trainasmfile.txt","w+")
    files = os.listdir('fifth/')
    for f in files:
        prefixescount=np.zeros(len(prefixes),dtype=int)
        opcodescount=np.zeros(len(opcodes),dtype=int)
        keywordcount=np.zeros(len(keywords),dtype=int)
        registerscount=np.zeros(len(registers),dtype=int)
        features=[]
        f2=f.split('.')[0]
        file1.write(f2+",")
        opcodefile.write(f2+" ")
        with codecs.open('fifth/'+f,encoding='cp1252',errors ='replace') as fli:
```

```
            for lines in fli:
                line=lines.rstrip().split()
                l=line[0]
                for i in range(len(prefixes)):
                    if prefixes[i] in line[0]:
                        prefixescount[i]+=1
                line=line[1:]
                for i in range(len(opcodes)):
                    if any(opcodes[i]==li for li in line):
                        features.append(opcodes[i])
                        opcodescount[i]+=1
                for i in range(len(registers)):
                    for li in line:
                        if registers[i] in li and ('text' in l or 'CODE' in l):
                            registerscount[i]+=1
                for i in range(len(keywords)):
                    for li in line:
                        if keywords[i] in li:
                            keywordcount[i]+=1
        for prefix in prefixescount:
            file1.write(str(prefix)+",")
        for opcode in opcodescount:
            file1.write(str(opcode)+",")
        for register in registerscount:
            file1.write(str(register)+",")
        for key in keywordcount:
            file1.write(str(key)+",")
        file1.write("\n")
    file1.close()


def main():
    #the below code is used for multiprogramming
    #the number of process depends upon the number of cores present System
    #process is used to call multiprogramming
    manager=multiprocessing.Manager()
    p1=Process(target=firstprocess)
    p2=Process(target=secondprocess)
    p3=Process(target=thirdprocess)
    p4=Process(target=fourthprocess)
    p5=Process(target=fifthprocess)
    #p1.start() is used to start the thread execution
    p1.start()
    p2.start()
    p3.start()
    p4.start()
    p5.start()
    #After completion all the threads are joined
    p1.join()
    p2.join()
    p3.join()
    p4.join()
    p5.join()

if __name__=="__main__":
    main()
```

In [127]:

```
# asmoutputfile.csv(output genarated from the above two cells) will contain all the extracted feat
ures from .asm files
# this file will be uploaded in the drive, you can directly use this
dfasm=pd.read_csv("asmoutputfile.csv")
Y.columns = ['ID', 'Class']
result_asm = pd.merge(dfasm, Y,on='ID', how='left')
result_asm.head()
```

Out[127]:

	ID	HEADER:	.text:	.Pav:	.idata:	.data:	.bss:	.rdata:	.edata:	.rsrc:	...	edx	esi	eax	ebx	ecx	edi	eb
0	01kcPWA9K2BOxQeS5Rju	19	744	0	127	57	0	323	0	3	...	18	66	15	43	83	0	1
1	1E93CpP60RHFNiT5Qfvn	17	838	0	103	49	0	0	0	3	...	18	29	48	82	12	0	1
2	3ekVow2ajZHbTnBcsDfX	17	427	0	50	43	0	145	0	3	...	13	42	10	67	14	0	1

	ID	HEADER	.text	.Pav	.idata	.data	.bss	.rdata	.edata	.rsrc	...	edx	esi	eax	ebx	ecx	edi	eb
3	3X2nY7iQaPBlWDrAZqJe	17	227	0	43	19	0	0	0	3	...	6	8	14	7	2	0	
4	46OZzdsSKDCFV8h7XWxf	17	402	0	59	170	0	0	0	3	...	12	9	18	29	5	0	1

5 rows × 53 columns

4.2.1.1 Files sizes of each .asm file

In [82]:

```
#file sizes of byte files

files=os.listdir('asmFiles')
filenames=Y['ID'].tolist()
class_y=Y['Class'].tolist()
class_bytes=[]
sizebytes=[]
fnames=[]
for file in files:
    # print(os.stat('byteFiles/0A32eTdBKayjCWhZqDOQ.txt'))
    # os.stat_result(st_mode=33206, st_ino=1125899906874507, st_dev=3561571700, st_nlink=1,
st_uid=0, st_gid=0,
    # st_size=3680109, st_atime=1519638522, st_mtime=1519638522, st_ctime=1519638522)
    # read more about os.stat: here https://www.tutorialspoint.com/python/os_stat.htm
    statinfo=os.stat('asmFiles/'+file)
    # split the file name at '.' and take the first part of it i.e the file name
    file=file.split('.')[0]
    if any(file == filename for filename in filenames):
        i=filenames.index(file)
        class_bytes.append(class_y[i])
        # converting into Mb's
        sizebytes.append(statinfo.st_size/(1024.0*1024.0))
        fnames.append(file)
asm_size_byte=pd.DataFrame({'ID':fnames,'size':sizebytes,'Class':class_bytes})
print (asm_size_byte.head())
```

```
                     ID       size  Class
0  8VU3wPKq2lBY5bvnHQMS  12.485002      2
1  ErYMOiwT8h3yqvfkm9Pu   1.660654      4
2  dKNk2oDiqevnRTsgCmG0  10.842202      8
3  dFUABXPZzn3mL06OEjek   8.723547      9
4  EuH31db0IYoVintDaL9v   1.852554      1
```

In [83]:

```
print(asm_size_byte.shape)
asm_size_byte.head()
```

```
(10868, 3)
```

Out[83]:

	ID	size	Class
0	8VU3wPKq2lBY5bvnHQMS	12.485002	2
1	ErYMOiwT8h3yqvfkm9Pu	1.660654	4
2	dKNk2oDiqevnRTsgCmG0	10.842202	8
3	dFUABXPZzn3mL06OEjek	8.723547	9
4	EuH31db0IYoVintDaL9v	1.852554	1

In [84]:

```
asm_size=asm_size_byte["size"]
asm_size_byte["asm_size"]=asm_size
asm_size_byte.head()
```

Out[84]:

	ID	size	Class	asm_size
0	8VU3wPKq2lBY5bvnHQMS	12.485002	2	12.485002
1	ErYMOiwT8h3yqvfkm9Pu	1.660654	4	1.660654
2	dKNk2oDiqevnRTsgCmG0	10.842202	8	10.842202
3	dFUABXPZzn3mL06OEjek	8.723547	9	8.723547
4	EuH31db0lYoVintDaL9v	1.852554	1	1.852554

In [85]:

```
asm_size_byte1=asm_size_byte.drop(["size"],axis=1)
asm_size_byte1.head()
```

Out[85]:

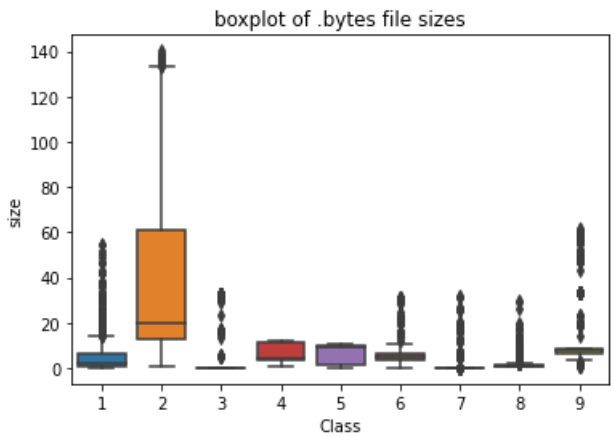
	ID	Class	asm_size
0	8VU3wPKq2lBY5bvnHQMS	2	12.485002
1	ErYMOiwT8h3yqvfkm9Pu	4	1.660654
2	dKNk2oDiqevnRTsgCmG0	8	10.842202
3	dFUABXPZzn3mL06OEjek	9	8.723547
4	EuH31db0lYoVintDaL9v	1	1.852554

4.2.1.2 Distribution of .asm file sizes

In [86]:

```
#boxplot of asm files
%matplotlib inline
ax = sns.boxplot(x="Class", y="size", data=asm_size_byte)

plt.title("boxplot of .bytes file sizes")
plt.show()
```



In [7]:

```
# add the file size feature to previous extracted features
print(result_asm.shape)
print(asm_size_byte.shape)
result_asm = pd.merge(result_asm, asm_size_byte.drop(['Class'], axis=1),on='ID', how='left')
result_asm.head()
```

```
(10868, 53)
(10868, 3)
```

Out[7]:

	ID	HEADER:	.text:	.Pav:	.idata:	.data:	.bss:	.rdata:	.edata:	.rsrc:	...	esi	eax	ebx	ecx	edi	ebp	es
0	01kcPWA9K2BOxQeS5Rju	19	744	0	127	57	0	323	0	3	...	66	15	43	83	0	17	4
1	1E93CpP60RHFNiT5Qfvn	17	838	0	103	49	0	0	0	3	...	29	48	82	12	0	14	
2	3ekVow2ajZHbTnBcsDfX	17	427	0	50	43	0	145	0	3	...	42	10	67	14	0	11	
3	3X2nY7iQaPBlWDrAZqJe	17	227	0	43	19	0	0	0	3	...	8	14	7	2	0	8	
4	46OZzdsSKDCFV8h7XWxf	17	402	0	59	170	0	0	0	3	...	9	18	29	5	0	11	

5 rows × 54 columns

In [8]:

```
# https://stackoverflow.com/a/29651514
def normalize(df):
    result1 = df.copy()
    for feature_name in df.columns:
        if (str(feature_name) != str('ID') and str(feature_name)!=str('Class')):
            max_value = df[feature_name].max()
            min_value = df[feature_name].min()
            result1[feature_name] = (df[feature_name] - min_value) / (max_value - min_value)
    return result1
```

In [9]:

```
# we normalize the data each column
result_asm = normalize(result_asm)
result_asm.head()
```

Out[9]:

	ID	HEADER:	.text:	.Pav:	.idata:	.data:	.bss:	.rdata:	.edata:	.rsrc:	...	esi	eax
0	01kcPWA9K2BOxQeS5Rju	0.107345	0.001092	0.0	0.000761	0.000023	0.0	0.000084	0.0	0.000072	...	0.000746	0.000301
1	1E93CpP60RHFNiT5Qfvn	0.096045	0.001230	0.0	0.000617	0.000019	0.0	0.000000	0.0	0.000072	...	0.000328	0.000965
2	3ekVow2ajZHbTnBcsDfX	0.096045	0.000627	0.0	0.000300	0.000017	0.0	0.000038	0.0	0.000072	...	0.000475	0.000201
3	3X2nY7iQaPBlWDrAZqJe	0.096045	0.000333	0.0	0.000258	0.000008	0.0	0.000000	0.0	0.000072	...	0.000090	0.000281
4	46OZzdsSKDCFV8h7XWxf	0.096045	0.000590	0.0	0.000353	0.000068	0.0	0.000000	0.0	0.000072	...	0.000102	0.000362

5 rows × 54 columns

In [10]:

```
result_asm.to_pickle("asm_fetaures_with_size")
```

In [11]:

```
result_asm.head(4)
```

Out[11]:

	ID	HEADER:	.text:	.Pav:	.idata:	.data:	.bss:	.rdata:	.edata:	.rsrc:	...	esi	eax
0	01kcPWA9K2BOxQeS5Rju	0.107345	0.001092	0.0	0.000761	0.000023	0.0	0.000084	0.0	0.000072	...	0.000746	0.000301
1	1E93CpP60RHFNiT5Qfvn	0.096045	0.001230	0.0	0.000617	0.000019	0.0	0.000000	0.0	0.000072	...	0.000328	0.000965
2	3ekVow2ajZHbTnBcsDfX	0.096045	0.000627	0.0	0.000300	0.000017	0.0	0.000038	0.0	0.000072	...	0.000475	0.000201
3	3X2nY7iQaPBlWDrAZqJe	0.096045	0.000333	0.0	0.000258	0.000008	0.0	0.000000	0.0	0.000072	...	0.000090	0.000281

4 rows × 54 columns

converting asm file to images

In [12]:

```
# https://towardsdatascience.com/malware-classification-using-machine-learning-7c648fb1da79
# https://www.youtube.com/watch?v=VLQTRlLGz5Y&t=918s
def file_to_image_asm():
    count = 1
    for asmfile in os.listdir("asmFiles"):
        filename = asmfile.split('.')[0]
        file = codecs.open("asmFiles/" + asmfile, 'rb')  # decodes asm to bytes
        filelen = os.path.getsize("asmFiles/" + asmfile) # size of the file
        width = int(filelen ** 0.5) # calculates width of the file
        rem = int(filelen / width)
        arr = array.array('B')   # an empty unsigned char array
        arr.frombytes(file.read()) # adding bytes representation of file to arr
        file.close()
        reshaped = np.reshape(arr[:width * width], (width, width))  # creating the shape of your im
age
        reshaped = np.uint8(reshaped)     # the whole image values are converted into 8bit unsignec
int
        imageio.imwrite('asm_image/' + filename + '.png',reshaped)  # i've created a new folder and
adding to that
        print('{0} files converted'.format(count))
        count += 1
```

In [13]:

```
import timeit
import array
import imageio
start = timeit.default_timer()

file_to_image_asm()
stop = timeit.default_timer()
print('Time in mins: ', (stop - start)/60)
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Time in mins:  219.92790929606664
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converting images to pixel (taking 800 pixel)

In [26]:

```
# https://towardsdatascience.com/malware-classification-using-machine-learning-7c648fb1da79
# https://www.youtube.com/watch?v=VLQTRlLGz5Y&t=918s, as discussed in this video we are taking 800
features from the pixel arr

def extract_pixels(file_dir):
    image_matrix = np.zeros((10868, 800))
    image_names = []
    for i, file in enumerate(os.listdir(str(file_dir))):
        img = imageio.imread(str(file_dir)+'/' + file.split('.')[0] + '.png', as_gray=True)  # takes
a image at a time
        img_arr = img.flatten()[:800] # converts it into an array with only 800 features
        image_matrix[i, :] += img_arr # adding our array into the image matrix
        image_names.append(file.split('.')[0])  # adding names/id of our images
        print('{0} files converted'.format(i+1))
```

```
    return image_matrix, image_names
```

In [22]:

```
!pip3 install imread
```

```
Collecting imread
  Downloading imread-0.7.4-cp37-cp37m-manylinux2010_x86_64.whl (1.6 MB)
     |████████████████████████████████| 1.6 MB 3.5 MB/s eta 0:00:01
Requirement already satisfied: numpy in /opt/conda/lib/python3.7/site-packages (from imread)
(1.18.3)
Installing collected packages: imread
Successfully installed imread-0.7.4
```

In [27]:

```
start = timeit.default_timer()

img_matrix, img_names = extract_pixels('asm_image')
stop = timeit.default_timer()
print()
print('Time in mins: ', (stop - start)/60)
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Time in mins:  50.8817275561
```

creating dataframe on 800 pixel features

In [28]:

```
pixel_feature_names=[]
for i in range(800):
     pixel_feature_names.append('pix' + str(i+1))
```

In [29]:

```
pixel_feature_data= pd.DataFrame(img_matrix, columns = pixel_feature_names)
pixel_feature_data["ID"]=img_names
pixel_feature_data.head()
```

Out[29]:

	pix1	pix2	pix3	pix4	pix5	pix6	pix7	pix8	pix9	pix10	...	pix792	pix793	pix794	pix795	pix796	pix797	pix798	pix799	pix8(
0	72.0	69.0	65.0	68.0	69.0	82.0	58.0	52.0	66.0	53.0	...	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61
1	72.0	69.0	65.0	68.0	69.0	82.0	58.0	48.0	48.0	52.0	...	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61
2	72.0	69.0	65.0	68.0	69.0	82.0	58.0	54.0	67.0	66.0	...	111.0	100.0	101.0	108.0	32.0	102.0	108.0	97.0	116

	pix1	pix2	pix3	pix4	pix5	pix6	pix7	pix8	pix9	pix10	...	pix792	pix793	pix794	pix795	pix796	pix797	pix798	pix799	pix80
3	72.0	69.0	65.0	68.0	69.0	82.0	58.0	48.0	48.0	52.0	...	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61
4	72.0	69.0	65.0	68.0	69.0	82.0	58.0	48.0	48.0	52.0	...	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61

5 rows × 801 columns

In [31]:

```
pixel_feature_data.to_pickle("800_pixel_features")
```

In [135]:

```
pixel_features=pd.read_pickle("800_pixel_features")
```

In [136]:

```
pixel_features.head()
```

Out[136]:

	pix1	pix2	pix3	pix4	pix5	pix6	pix7	pix8	pix9	pix10	...	pix792	pix793	pix794	pix795	pix796	pix797	pix798	pix799	pix80
0	72.0	69.0	65.0	68.0	69.0	82.0	58.0	52.0	66.0	53.0	...	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61
1	72.0	69.0	65.0	68.0	69.0	82.0	58.0	48.0	48.0	52.0	...	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61
2	72.0	69.0	65.0	68.0	69.0	82.0	58.0	54.0	67.0	66.0	...	111.0	100.0	101.0	108.0	32.0	102.0	108.0	97.0	116
3	72.0	69.0	65.0	68.0	69.0	82.0	58.0	48.0	48.0	52.0	...	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61
4	72.0	69.0	65.0	68.0	69.0	82.0	58.0	48.0	48.0	52.0	...	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61

5 rows × 801 columns

In [137]:

```
# https://stackoverflow.com/a/29651514
def normalize(df):
    result1 = df.copy()
    for feature_name in df.columns:
        if (str(feature_name) != str('ID') and str(feature_name)!=str('Class')):
            max_value = df[feature_name].max()
            min_value = df[feature_name].min()
            result1[feature_name] = (df[feature_name] - min_value) / (max_value - min_value)
    return result1
```

In [138]:

```
pixel_features1=normalize(pixel_features)
```

In [139]:

```
pixel_features1.head()
```

Out[139]:

	pix1	pix2	pix3	pix4	pix5	pix6	pix7	pix8	pix9	pix10	...	pix792	pix793	pix794	pix795
0	0.481928	0.302632	0.0	0.277778	0.291667	0.5	1.0	0.235294	0.818182	0.227273	...	0.481481	0.481481	0.490566	0.525253
1	0.481928	0.302632	0.0	0.277778	0.291667	0.5	1.0	0.000000	0.000000	0.181818	...	0.481481	0.481481	0.490566	0.525253
2	0.481928	0.302632	0.0	0.277778	0.291667	0.5	1.0	0.352941	0.863636	0.818182	...	0.944444	0.842593	0.867925	1.000000
3	0.481928	0.302632	0.0	0.277778	0.291667	0.5	1.0	0.000000	0.000000	0.181818	...	0.481481	0.481481	0.490566	0.525253
4	0.481928	0.302632	0.0	0.277778	0.291667	0.5	1.0	0.000000	0.000000	0.181818	...	0.481481	0.481481	0.490566	0.525253

5 rows × 801 columns

merging pixel feature with asm size feature

In [140]:

```
pixel_features.shape
```

Out[140]:

```
(10868, 801)
```

In [141]:

```
asm_size_byte1.head()
```

Out[141]:

	ID	Class	asm_size
0	8VU3wPKq2lBY5bvnHQMS	2	12.485002
1	ErYMOiwT8h3yqvfkm9Pu	4	1.660654
2	dKNk2oDiqevnRTsgCmG0	8	10.842202
3	dFUABXPZzn3mL06OEjek	9	8.723547
4	EuH31db0lYoVintDaL9v	1	1.852554

In [125]:

```
# https://stackoverflow.com/a/29651514
def normalize(df):
    result1 = df.copy()
    for feature_name in df.columns:
        if (str(feature_name) != str('ID') and str(feature_name)!=str('Class')):
            max_value = df[feature_name].max()
            min_value = df[feature_name].min()
            result1[feature_name] = (df[feature_name] - min_value) / (max_value - min_value)
    return result1
```

In [142]:

```
asm_size_byte2=normalize(asm_size_byte1)
```

In [143]:

```
asm_data=pd.merge(pixel_features,asm_size_byte2,on="ID")
asm_data.head()
```

Out[143]:

	pix1	pix2	pix3	pix4	pix5	pix6	pix7	pix8	pix9	pix10	...	pix794	pix795	pix796	pix797	pix798	pix799	pix800	
0	72.0	69.0	65.0	68.0	69.0	82.0	58.0	52.0	66.0	53.0	...	61.0	61.0	61.0	61.0	61.0	61.0	61.0	jxuKaQ3YtE
1	72.0	69.0	65.0	68.0	69.0	82.0	58.0	48.0	48.0	52.0	...	61.0	61.0	61.0	61.0	61.0	61.0	61.0	GBQtWjTxb4
2	72.0	69.0	65.0	68.0	69.0	82.0	58.0	54.0	67.0	66.0	...	101.0	108.0	32.0	102.0	108.0	97.0	116.0	ilogAd4QsU
3	72.0	69.0	65.0	68.0	69.0	82.0	58.0	48.0	48.0	52.0	...	61.0	61.0	61.0	61.0	61.0	61.0	61.0	cIkRCKEyz
4	72.0	69.0	65.0	68.0	69.0	82.0	58.0	48.0	48.0	52.0	...	61.0	61.0	61.0	61.0	61.0	61.0	61.0	1NpWfIMxU5e

5 rows × 803 columns

In [144]:

```
byte_data.head()
```

Out[144]:

	17 97	66 89	41 44	03 83	97 86	97 27	77 29	26 29	28 82	86 27	...	73 03	83 01	57 6
0	0.000000	0.003022	0.011209	0.000586	0.000000	0.000297	0.000000	0.004057	0.000000	0.001330	...	0.000046	0.000550	0.00039

	17 97	66 89	41 44	03 83	97 86	97 27	77 29	26 29	28 82	86 27	...	73 03	83 01	57 6
1	0.000000	0.047259	0.002156	0.004395	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	...	0.000275	0.000412	0.00011
2	0.000023	0.000000	0.000647	0.000098	0.005495	0.000297	0.002857	0.000000	0.000047	0.003989	...	0.000321	0.001237	0.00003
3	0.000000	0.019508	0.000216	0.007521	0.038462	0.000000	0.002857	0.000000	0.000000	0.000000	...	0.000367	0.002336	0.00021
4	0.000000	0.038192	0.000647	0.004493	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	...	0.000321	0.000412	0.00010

5 rows × 1003 columns

In [145]:

```
byte_data1=byte_data.drop(["Class"],axis=1)
byte_data1.head()
```

Out[145]:

	17 97	66 89	41 44	03 83	97 86	97 27	77 29	26 29	28 82	86 27	...	93 73	73 03	83 0
0	0.000000	0.003022	0.011209	0.000586	0.000000	0.000297	0.000000	0.004057	0.000000	0.001330	...	0.004505	0.000046	0.00055
1	0.000000	0.047259	0.002156	0.004395	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	...	0.000000	0.000275	0.00041
2	0.000023	0.000000	0.000647	0.000098	0.005495	0.000297	0.002857	0.000000	0.000047	0.003989	...	0.000000	0.000321	0.00123
3	0.000000	0.019508	0.000216	0.007521	0.038462	0.000000	0.002857	0.000000	0.000000	0.000000	...	0.000000	0.000367	0.00233
4	0.000000	0.038192	0.000647	0.004493	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	...	0.000000	0.000321	0.00041

5 rows × 1002 columns

In [146]:

```
final_data23=pd.merge(byte_data1,asm_data,on="ID")
```

In [147]:

```
final_data24=final_data23.drop(["ID"],axis=1)
```

In [148]:

```
final_data24.head()
```

Out[148]:

	17 97	66 89	41 44	03 83	97 86	97 27	77 29	26 29	28 82	86 27	...	pix793	pix794	pix795	pix
0	0.000000	0.003022	0.011209	0.000586	0.000000	0.000297	0.000000	0.004057	0.000000	0.001330	...	100.0	101.0	108.0	3
1	0.000000	0.047259	0.002156	0.004395	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	...	32.0	97.0	100.0	10
2	0.000023	0.000000	0.000647	0.000098	0.005495	0.000297	0.002857	0.000000	0.000047	0.003989	...	61.0	61.0	61.0	6
3	0.000000	0.019508	0.000216	0.007521	0.038462	0.000000	0.002857	0.000000	0.000000	0.000000	...	32.0	40.0	80.0	6
4	0.000000	0.038192	0.000647	0.004493	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	...	32.0	97.0	100.0	10

5 rows × 1803 columns

In [112]:

```
final_data24.to_pickle("full_data.pkl")
```

train and test split

In [149]:

```
yy= final_data24['Class']
# split the data into test and train by maintaining same distribution of output varaible 'y_true'
[stratify=y_true]
X_train, X_test, y_train, y_test = train_test_split(final_data24.drop(["Class"],axis=1),
```

```
yy,stratify=data_y,test_size=0.20)
# split the train data into train and cross validation by maintaining same distribution of output
varaible 'y_train' [stratify=y_train]
X_train, X_cv, y_train, y_cv = train_test_split(X_train, y_train,stratify=y_train,test_size=0.20)
```

In [150]:

```
print('Number of data points in train data:', X_train.shape)
print('Number of data points in test data:', X_test.shape
     )
print('Number of data points in cross validation data:', X_cv.shape)
```

```
Number of data points in train data: (6955, 1802)
Number of data points in test data: (2174, 1802)
Number of data points in cross validation data: (1739, 1802)
```

In [151]:

```
# it returns a dict, keys as class labels and values as the number of data points in that class
train_class_distribution = y_train.value_counts().sort_index()
test_class_distribution = y_test.value_counts().sort_index()
cv_class_distribution = y_cv.value_counts().sort_index()

my_colors = ['r', 'g', 'b', 'k', 'y', 'm', 'c']
#my_colors = 'rgbkymc'
train_class_distribution.plot(kind='bar', color=my_colors)
plt.xlabel('Class')
plt.ylabel('Data points per Class')
plt.title('Distribution of yi in train data')
plt.grid()
plt.show()

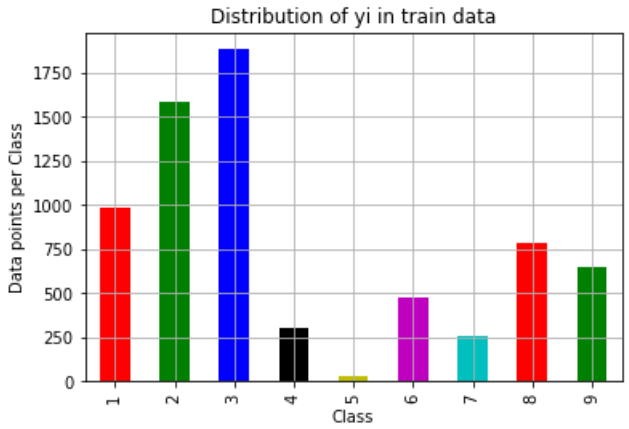
# ref: argsort https://docs.scipy.org/doc/numpy/reference/generated/numpy.argsort.html
# -(train_class_distribution.values): the minus sign will give us in decreasing order
sorted_yi = np.argsort(-train_class_distribution.values)
for i in sorted_yi:
    print('Number of data points in class', i+1, ':',train_class_distribution.values[i], '(', np.ro
und((train_class_distribution.values[i]/y_train.shape[0]*100), 3), '%)')


print('-'*80)
my_colors = ['r', 'g', 'b', 'k', 'y', 'm', 'c']
#my_colors = 'rgbkymc'
test_class_distribution.plot(kind='bar', color=my_colors)
plt.xlabel('Class')
plt.ylabel('Data points per Class')
plt.title('Distribution of yi in test data')
plt.grid()
plt.show()

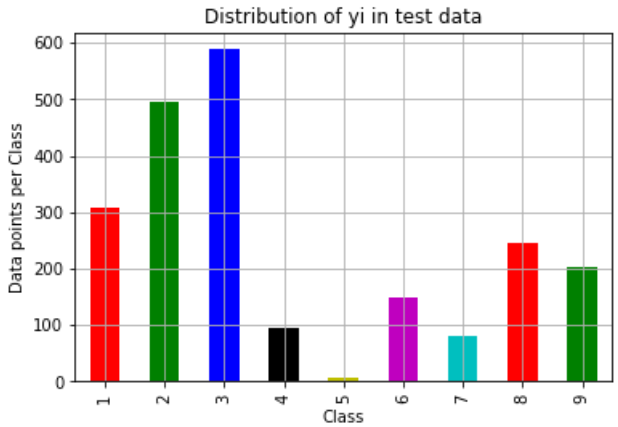
# ref: argsort https://docs.scipy.org/doc/numpy/reference/generated/numpy.argsort.html
# -(train_class_distribution.values): the minus sign will give us in decreasing order
sorted_yi = np.argsort(-test_class_distribution.values)
for i in sorted_yi:
    print('Number of data points in class', i+1, ':',test_class_distribution.values[i], '(', np.rou
nd((test_class_distribution.values[i]/y_test.shape[0]*100), 3), '%)')

print('-'*80)
my_colors = ['r', 'g', 'b', 'k', 'y', 'm', 'c']
#my_colors = 'rgbkymc'
cv_class_distribution.plot(kind='bar', color=my_colors)
plt.xlabel('Class')
plt.ylabel('Data points per Class')
plt.title('Distribution of yi in cross validation data')
plt.grid()
plt.show()

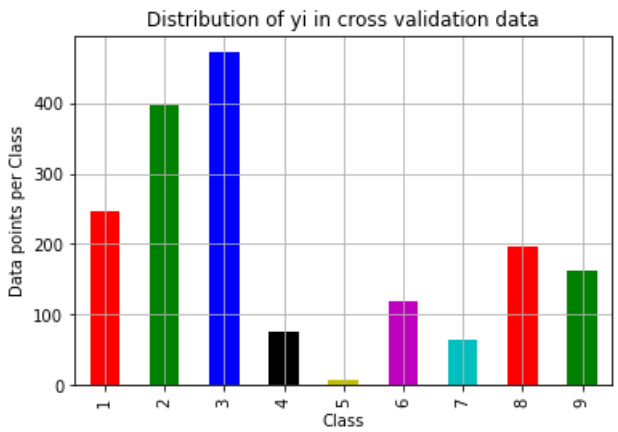
# ref: argsort https://docs.scipy.org/doc/numpy/reference/generated/numpy.argsort.html
# -(train_class_distribution.values): the minus sign will give us in decreasing order
sorted_yi = np.argsort(-train_class_distribution.values)
for i in sorted_yi:
    print('Number of data points in class', i+1, ':',cv_class_distribution.values[i], '(', np.round
((cv_class_distribution.values[i]/y_cv.shape[0]*100), 3), '%)')
```




```
Number of data points in class 3 : 1883 ( 27.074 %)
Number of data points in class 2 : 1586 ( 22.804 %)
Number of data points in class 1 : 986 ( 14.177 %)
Number of data points in class 8 : 786 ( 11.301 %)
Number of data points in class 9 : 648 ( 9.317 %)
Number of data points in class 6 : 481 ( 6.916 %)
Number of data points in class 4 : 304 ( 4.371 %)
Number of data points in class 7 : 254 ( 3.652 %)
Number of data points in class 5 : 27 ( 0.388 %)
--------------------------------------------------------------------------------
```




```
Number of data points in class 3 : 588 ( 27.047 %)
Number of data points in class 2 : 496 ( 22.815 %)
Number of data points in class 1 : 308 ( 14.167 %)
Number of data points in class 8 : 246 ( 11.316 %)
Number of data points in class 9 : 203 ( 9.338 %)
Number of data points in class 6 : 150 ( 6.9 %)
Number of data points in class 4 : 95 ( 4.37 %)
Number of data points in class 7 : 80 ( 3.68 %)
Number of data points in class 5 : 8 ( 0.368 %)
--------------------------------------------------------------------------------
```




```
Number of data points in class 3 : 471 ( 27.085 %)
```

```
Number of data points in class 3 : 471 ( 27.085 %)
Number of data points in class 2 : 396 ( 22.772 %)
Number of data points in class 1 : 247 ( 14.204 %)
Number of data points in class 8 : 196 ( 11.271 %)
Number of data points in class 9 : 162 ( 9.316 %)
Number of data points in class 6 : 120 ( 6.901 %)
Number of data points in class 4 : 76 ( 4.37 %)
Number of data points in class 7 : 64 ( 3.68 %)
Number of data points in class 5 : 7 ( 0.403 %)
```

applying random forest classifier

In [154]:

```
# -------------------------------
# default parameters
# sklearn.ensemble.RandomForestClassifier(n_estimators=10, criterion='gini', max_depth=None, min_s
amples_split=2,
# min_samples_leaf=1, min_weight_fraction_leaf=0.0, max_features='auto', max_leaf_nodes=None, min_
impurity_decrease=0.0,
# min_impurity_split=None, bootstrap=True, oob_score=False, n_jobs=1, random_state=None,
verbose=0, warm_start=False,
# class_weight=None)

# Some of methods of RandomForestClassifier()
# fit(X, y, [sample_weight]) Fit the SVM model according to the given training data.
# predict(X) Perform classification on samples in X.
# predict_proba (X) Perform classification on samples in X.

# some of attributes of  RandomForestClassifier()
# feature_importances_ : array of shape = [n_features]
# The feature importances (the higher, the more important the feature).

# -------------------------------
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/random-fores
t-and-their-construction-2/
# -------------------------------

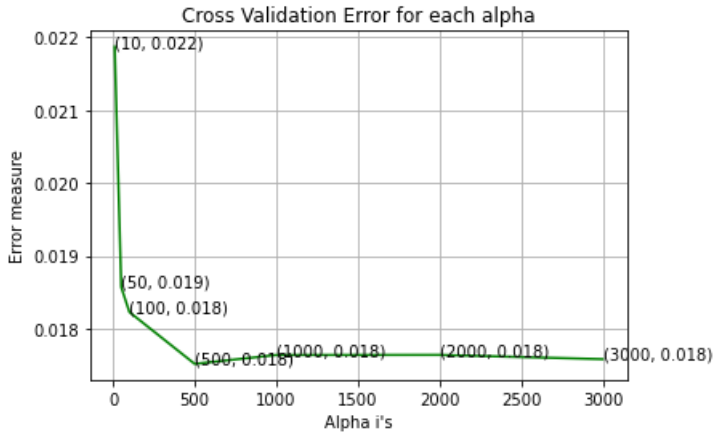
alpha=[10,50,100,500,1000,2000,3000]
cv_log_error_array=[]
train_log_error_array=[]
from sklearn.ensemble import RandomForestClassifier
for i in alpha:
    r_cfl=RandomForestClassifier(n_estimators=i,random_state=42,n_jobs=-1)
    r_cfl.fit(X_train,y_train)
    sig_clf = CalibratedClassifierCV(r_cfl, method="sigmoid")
    sig_clf.fit(X_train, y_train)
    predict_y = sig_clf.predict_proba(X_cv)
    cv_log_error_array.append(log_loss(y_cv, predict_y, labels=r_cfl.classes_, eps=1e-15))

for i in range(len(cv_log_error_array)):
    print ('log_loss for c = ',alpha[i],'is',cv_log_error_array[i])


best_alpha = np.argmin(cv_log_error_array)

fig, ax = plt.subplots()
ax.plot(alpha, cv_log_error_array,c='g')
for i, txt in enumerate(np.round(cv_log_error_array,3)):
    ax.annotate((alpha[i],np.round(txt,3)), (alpha[i],cv_log_error_array[i]))
plt.grid()
plt.title("Cross Validation Error for each alpha")
plt.xlabel("Alpha i's")
plt.ylabel("Error measure")
plt.show()
```

```
log_loss for c =  10 is 0.021872290368196094
log_loss for c =  50 is 0.018572571317177614
log_loss for c =  100 is 0.01822982824575317
log_loss for c =  500 is 0.017518228999630382
log_loss for c =  1000 is 0.017639596553033286
log_loss for c =  2000 is 0.017641217086216646
log_loss for c =  3000 is 0.017582584389925267
```



In [158]:

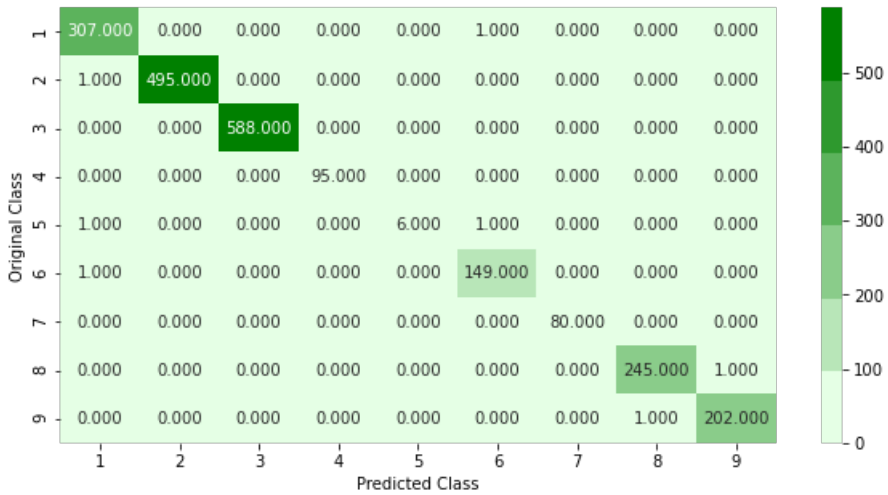
```
best_alpha=550
```

In [159]:

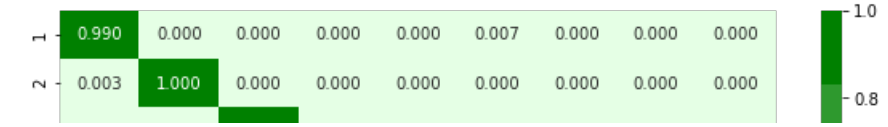
```
r_cfl=RandomForestClassifier(n_estimators=best_alpha,random_state=42,n_jobs=-1)
r_cfl.fit(X_train,y_train)
sig_clf = CalibratedClassifierCV(r_cfl, method="sigmoid")
sig_clf.fit(X_train, y_train)

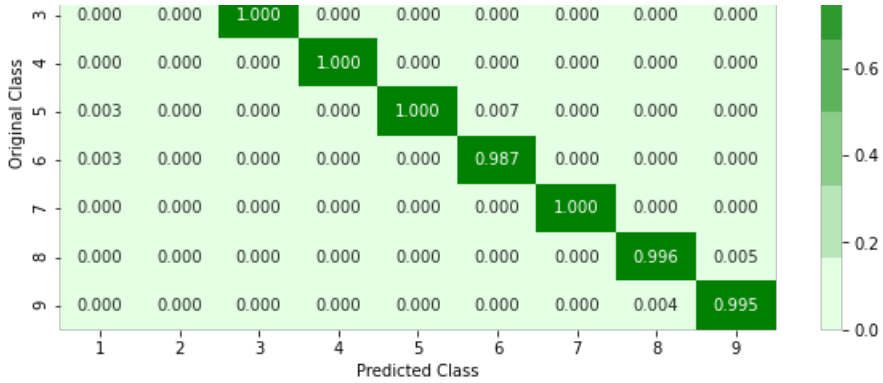
predict_y = sig_clf.predict_proba(X_train)
print('For values of best alpha = ',best_alpha, "The train log loss is:",log_loss(y_train,
predict_y))
predict_y = sig_clf.predict_proba(X_cv)
print('For values of best alpha = ', best_alpha, "The cross validation log loss is:",log_loss(y_cv
, predict_y))
predict_y = sig_clf.predict_proba(X_test)
print('For values of best alpha = ', best_alpha, "The test log loss is:",log_loss(y_test,
predict_y))
plot_confusion_matrix(y_test, sig_clf.predict(X_test))
```

```
For values of best alpha =  550 The train log loss is: 0.01142646059863253
For values of best alpha =  550 The cross validation log loss is: 0.01747168109555346
For values of best alpha =  550 The test log loss is: 0.017512383996023156
Number of misclassified points  0.3219871205151794
--------------------------------------------------- Confusion matrix ------------------------------
----------------
```

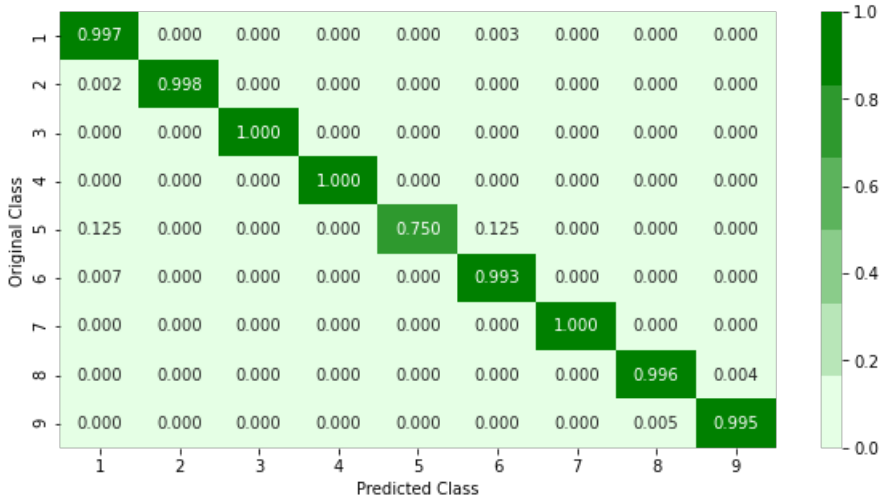


--- Precision matrix ------------------------------






```
Sum of columns in precision matrix [1. 1. 1. 1. 1. 1. 1. 1. 1.]
------------------------------------------------- Recall matrix ----------------------------------
-------------
```




```
Sum of rows in precision matrix [1. 1. 1. 1. 1. 1. 1. 1. 1.]
```

XGboost

In [117]:

```
# https://www.analyticsvidhya.com/blog/2016/03/complete-guide-parameter-tuning-xgboost-with-codes-
python/
x_cfl=XGBClassifier()

prams={
    'learning_rate':[0.01,0.03,0.05,0.1,0.15,0.2],
     'n_estimators':[100,200,500,1000,2000],
     'max_depth':[3,5,10],
    'colsample_bytree':[0.1,0.3,0.5,1],
    'subsample':[0.1,0.3,0.5,1]
}
random_cfl1=RandomizedSearchCV(x_cfl,param_distributions=prams,verbose=10,n_jobs=-1,)
random_cfl1.fit(X_train,y_train)
```

```
Fitting 5 folds for each of 10 candidates, totalling 50 fits
```

```
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   2 tasks      | elapsed:  5.4min
[Parallel(n_jobs=-1)]: Done   9 tasks      | elapsed: 14.5min
[Parallel(n_jobs=-1)]: Done  16 tasks      | elapsed: 25.0min
[Parallel(n_jobs=-1)]: Done  25 tasks      | elapsed: 35.9min
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed: 42.2min
[Parallel(n_jobs=-1)]: Done  41 out of  50 | elapsed: 46.5min remaining: 10.2min
[Parallel(n_jobs=-1)]: Done  47 out of  50 | elapsed: 73.1min remaining:  4.7min
[Parallel(n_jobs=-1)]: Done  50 out of  50 | elapsed: 75.3min finished
```

Out[117]:

```
RandomizedSearchCV(cv=None, error_score=nan,
                   estimator=XGBClassifier(base_score=None, booster=None,
                                           colsample_bylevel=None,
                                           colsample_bynode=None,
                                           colsample_bytree=None, gamma=None,
                                           gpu_id=None, importance_type='gain',
                                           interaction_constraints=None,
                                           learning_rate=None,
                                           max_delta_step=None, max_depth=None,
                                           min_child_weight=None, missing=nan,
                                           monotone_constraints=Non...
                                           validate_parameters=None,
                                           verbosity=None),
                   iid='deprecated', n_iter=10, n_jobs=-1,
                   param_distributions={'colsample_bytree': [0.1, 0.3, 0.5, 1],
                                        'learning_rate': [0.01, 0.03, 0.05, 0.1,
                                                          0.15, 0.2],
                                        'max_depth': [3, 5, 10],
                                        'n_estimators': [100, 200, 500, 1000,
                                                         2000],
                                        'subsample': [0.1, 0.3, 0.5, 1]},
                   pre_dispatch='2*n_jobs', random_state=None, refit=True,
                   return_train_score=False, scoring=None, verbose=10)
```

In [118]:

```
print (random_cfl1.best_params_)
```

```
{'subsample': 0.3, 'n_estimators': 500, 'max_depth': 5, 'learning_rate': 0.2, 'colsample_bytree':
0.3}
```

In [152]:

```
import timeit
```

In [153]:

```
# Training a hyper-parameter tuned Xg-Boost regressor on our train data

# find more about XGBClassifier function here
http://xgboost.readthedocs.io/en/latest/python/python_api.html?#xgboost.XGBClassifier
# -------------------------
# default paramters
# class xgboost.XGBClassifier(max_depth=3, learning_rate=0.1, n_estimators=100, silent=True,
# objective='binary:logistic', booster='gbtree', n_jobs=1, nthread=None, gamma=0,
min_child_weight=1,
# max_delta_step=0, subsample=1, colsample_bytree=1, colsample_bylevel=1, reg_alpha=0,
reg_lambda=1,
# scale_pos_weight=1, base_score=0.5, random_state=0, seed=None, missing=None, **kwargs)

# some of methods of RandomForestRegressor()
# fit(X, y, sample_weight=None, eval_set=None, eval_metric=None, early_stopping_rounds=None, verbo
se=True, xgb_model=None)
# get_params([deep]) Get parameters for this estimator.
# predict(data, output_margin=False, ntree_limit=0) : Predict with data. NOTE: This function is no
t thread safe.
# get_score(importance_type='weight') -> get the feature importance
# -----------------------
# video link2: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/what-are-en
sembles/
# -----------------------

start = timeit.default_timer()

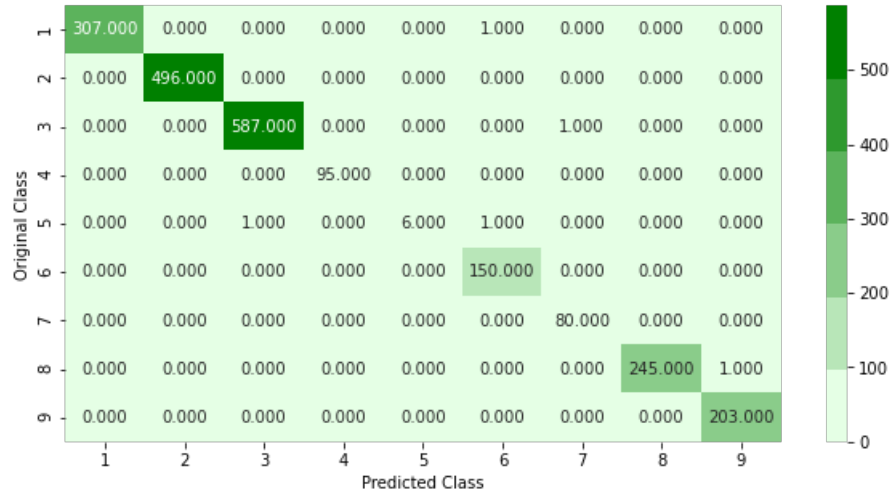
x_cfl=XGBClassifier(n_estimators=2000, learning_rate=0.15, colsample_bytree=1, max_depth=3,subsampl
e=1)
x_cfl.fit(X_train,y_train)
c_cfl=CalibratedClassifierCV(x_cfl,method='sigmoid')
c_cfl.fit(X_train,y_train)

predict_y = c_cfl.predict_proba(X_train)
print ('train loss',log_loss(y_train, predict_y))
predict_y = c_cfl.predict_proba(X_cv)
```

```
print ('cv loss',log_loss(y_cv, predict_y))
predict_y = c_cfl.predict_proba(X_test)
print ('test loss',log_loss(y_test, predict_y))
plot_confusion_matrix(y_test,c_cfl.predict(X_test))

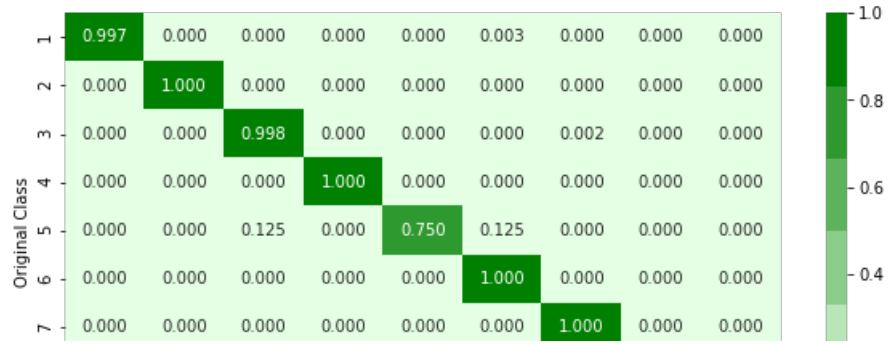
print()
stop = timeit.default_timer()
print('Time in mins: ',(stop - start)/60)
```

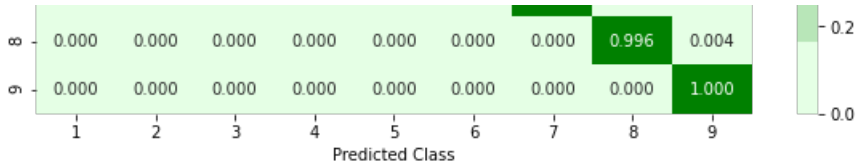
```
train loss 0.01148149489433657
cv loss 0.0232442448747469
test loss 0.015267879200711296
Number of misclassified points  0.22999080036798528
---------------------------------------------------- Confusion matrix ------------------------------
----------------
```




```
---------------------------------------------------- Precision matrix ------------------------------
----------------
```

```
Sum of columns in precision matrix [1. 1. 1. 1. 1. 1. 1. 1. 1.]
---------------------------------------------------- Recall matrix ---------------------------------
-------------
```






```
Sum of rows in precision matrix [1. 1. 1. 1. 1. 1. 1. 1. 1.]

Time in mins:  36.83748583313333
```

conclusion

1. **first i created byte features for byte file . there are around 65k total byte features .**
1. **then i extracted top 1000 features from 65k features using two methods**

   `(1) using randomforest classifier (2) selectbestk`

1. **but i used randomforestclassifier for feature selction because it gives good class separation as copmared to selectbestk as you can see in multivariate analysis**
1. **then i add byte_size feature to top 1000 byte features .so now i have 1001 features.**
1. **for asm i used pixel intesity features.**
1. **here fisrt i convert asm files to images and then i flatten it extracted top 800 pixel features.(top 800 features are selected because according first prize solution they recommend to use 800 pixel features)**
1. **then i add asm_size feature to it . so for asm file i have total 801 feature**
1. **now i will combine both byte features and asm features . so i have total 1802 features.**
1. **while selecting model the data (classes) are not linear so i have not used logistic regression . tree based models will perform better on it .**

low training error = high variance (overfitting) & low bias (underfitting)

high training error = low variance (underfitting) & high bias (underfitting)

1. **so according that i have adjusted hyperparameter in randomforest and xgboost and got desired result**

conclusion table

In [177]:

```
from prettytable import PrettyTable

x = PrettyTable()

x.field_names = ['Model', 'Features', 'Test Log-Loss', ]
x.add_row(['Random Model','Byte Bigrams', 2.51326])
x.add_row(['RandomForrest', 'Byte Bigrams', 0.05253])
x.add_row(['XGBoost', 'Byte Bigrams',  0.04506])
x.add_row(['RandomForrest', 'ASM Pixel intensity & Byte Bigrams',  0.01751 ])
x.add_row(['XGBoost', 'ASM Pixel intensity & Byte Bigrams', 0.01526 ])

print(x)
```

```
+---------------+-----------------------------------+---------------+
|     Model     |               Features            | Test Log-Loss |
+---------------+-----------------------------------+---------------+
|  Random Model |             Byte Bigrams          |    2.51326    |
```

RandomForrest	Byte Bigrams	0.05253
XGBoost	Byte Bigrams	0.04506
RandomForrest	ASM Pixel intensity & Byte Bigrams	0.01751
XGBoost	ASM Pixel intensity & Byte Bigrams	0.01526