	Date <u> </u>					
Expt. No. 7 Miliad Bijukumay 7 MT17csos 8 Page No. 17						
	9					
	Assuming a Set document that recel to be classified use					
	the naire Bayesian Clarsifier made to perform this teak					
	Built-10 Java Clases / API can be used to earlie the program.					
	Calculate the accurancy precision and recall for your					
	clasest.					
*						
	insat parts					
	import pendes espol					
	msg = pd. read_csv (c:/users/Millione Drive / Derktop/Mile AMTIXSOSE_					
_	Milind/lab6.csv1) mane=(message, label)					
	priof "Toky postance is the datasets:", msg. Shpe [0])					
	msq['labelname'] =msq. label.map ((pos':1, neg':0))					
	Y=msg. message					
	y= msg. labelnam					
	point ("In The message and its label of first 5 instance are listed					
	helow')					
	X5,y5= × [0.5], mg. label (ois)					
	For xy is zip (x5,yr):					
	priot (x, '', y)					
	2					
	from Skleam model selection import frain-test-split					
+	x bain, x test y frain, y set = frain-test_split (x,y)					
+	print ("Data Set is split isto Training and Testing Saraplas")					
-	port Total training instance: (x train . Shape (o))					
-	ponjot ("Total texting usstance: 1, x test. shape (a))					
_						
	Teacher's Signature					

	Date
Expt. No	Page No
From Sklazin. Peatine-extraction. Lext import a	Bust verlor! zer
count-vect = Sounderventorszer()	
x hais _oftm = court_vert - fut hers form (xhair)	
x fest-oftm= count-vert-transform (xfest)	
prist ("In Total feature extracted extracing	Costventorier: xtrais dto.
11 5 . 0 0	Shape (1)
point 'n Features for first 5 having Instance	are lyled below")
of = pd. Datoframe (xhain-dfm toannay (), Columns = 9	antivert get featurement)
prist (alt [o:5])	
from Sklears noire-bayes import MultiNoni	ral NB
off-Multi Nominal NR() - fit (x hours - oltra), yhai	
predict ("In Classifications results of testing	
for doc,p is zip (xtert, predicted):	
pred = pos' if p==1 else 'ray'	
prist ("%5 -> %5" "(cloc, pred))	
from Sklearn import metrices	
parist ("/ Accuracy matrices")	
parist ("In Accuracy of the classifer is", no	atrices - accuracy -
	re (yest, producted))
print ("Recall:", metrices recent-score Cylest	
prent ("Precision", metrics, precision siere	
prist ("Costusion makix")	
print (markey - Confusion _ matrix (y test pre	edicted))
Teacher's Signa	ature

Juneuro Total instance in the dataset : 18 The message and its label of first 5 isstance are liked bloco: I have this Sandwich, pos This is a amazing place, pos I beel very good about there heers pos This is my best work, pos cohod on spesone view, pes Data set is sparit is Training & Tenting Sample Total braining isstance: 13 Total testing isstance :5 Total Feature extracted using count vertorizer: 46
Feature For first straining isstoric are listed below an awend pack an best boss deal do today - 1 \bigcirc 0 0 (l

	Comond	very	View	જ	coent	cohat	coill	وحائك	e ork
0	Comond	0	0	0	0	0	0	0	0
1	0		0	0	1	0	0	0	0
2	0	O	0	0	O	\bigcirc	0	1	0
3	0	0	0		0	0	0	0	0
4	٥	0	6	٥	0	0	0	0	\Diamond

[5000 x 46 Columns]

Classication result of testing sample are given below:

I have to chance > pos

I am sick and thread of this place > need

This is an amazing place > pos

what a great holiday > pos

This is a bed locality to stay > need

Accuracy metrices
Accuracy of the Classifier is 1-0
Recall: 1.0
Precision: 1.0
Confusion matrix:

[(2 o)]