1- (a) tf\_idf\_vector = TFIDFVectorizer(ngram\_range(1,2))

    (b) tf\_idf\_vector.fit\_transform()

2- train, test = train\_test\_split(tf\_idf\_vector, train\_size=0.75, test\_size=0.25)

3- NB = GaussianNB()

4- NB.fit(train, test)

5- x = NB.predict(test)

6- accuracy = accuracy\_score(test, x)

2) x\_train, x\_test, y\_train, y\_test = train\_test\_split(x,y, test\_size=0.255)

5)x\_train = sc.fit\_transform(x\_train), pred = classifier.predict(x\_test) pred