1. Write a program to implement the naïve Bayesian classifier for a sample training data set stored as a .csv file . compute the accuracy of the classifier , considering few test data sets.

```
import numpy as np
       import pandas as pd
       dataset=pd.read_csv('datanvc.csv')
       X=dataset.iloc[:,:-1].values
       y=dataset.iloc[:,-1].values
       from sklearn.model selection import train test split
       X_train,X_test,y_train,y_test=train_test_split(X,y,test_size=0.25,random_state=0)
       from sklearn.preprocessing import StandardScaler
       sc=StandardScaler()
       X_train=sc.fit_transform(X_train)
       X_test=sc.transform(X_test)
       from sklearn.naive_bayes import GaussianNB
       classifier=GaussianNB()
       classifier.fit(X_train,y_train)
output : GaussianNB()
       GaussianNB(priors=None,var_smoothing=1e-09)
output : GaussianNB()
       from sklearn.metrics import confusion_matrix,accuracy_score
       y_pred=classifier.predict(X_test)
       cm=confusion_matrix(y_test,y_pred)
       print(cm)
       accuracy_score(y_test,y_pred)
output : [[105 15]
 [ 32 40]]
                                                                                        Out[14]:
0.75520833333333334
```