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classifier for a sample training data set stored as a .CSV file.
Compute the accuracy of the classifier, considering few test
data sets.
import pandas as pd
from sklearn.preprocessing import LabelEncoder
from sklearn.model selection import train test split
data = pd.read csv('tennis.csv')
print("The first 5 Values of data is :\n", data.head())
X = data.iloc[:, :-1]
print("\nThe First 5 values of the train attributes is\n",
X.head())
Y = data.iloc[:, -1]
print("\nThe First 5 values of target values is\n", Y.head())
obj1= LabelEncoder()
X.Outlook = obj1.fit transform(X.Outlook)
print("\n The Encoded and Transformed Data in Outlook
\n", X.Outlook)
obj2 = LabelEncoder()
X.Temperature = obj2.fit transform(X.Temperature)
obj3 = LabelEncoder()
X.Humidity = obj3.fit transform(X.Humidity)
obj4 = LabelEncoder()
X.Wind = obj4.fit transform(X.Wind)
print("\n The Encoded and Transformed Training Examples \n",
X.head())
obj5 = LabelEncoder()
Y = obj5.fit transform(Y)
print("The class Label encoded in numerical form is",Y)
X train, X test, Y train, Y test = train test split(X,Y,
test size = 0.20)
from sklearn.naive bayes import GaussianNB
classifier = GaussianNB()
classifier.fit(X train, Y train)
from sklearn.metrics import accuracy score
```

Program-6: Write a program to implement the naive Bayesian

print("Accuracy is:", accuracy\_score(classifier.predict(X\_test),
Y\_test))