**U18ISI6204 – Machine Learning Techniques**

**LAB EXPERIMENT- 7**

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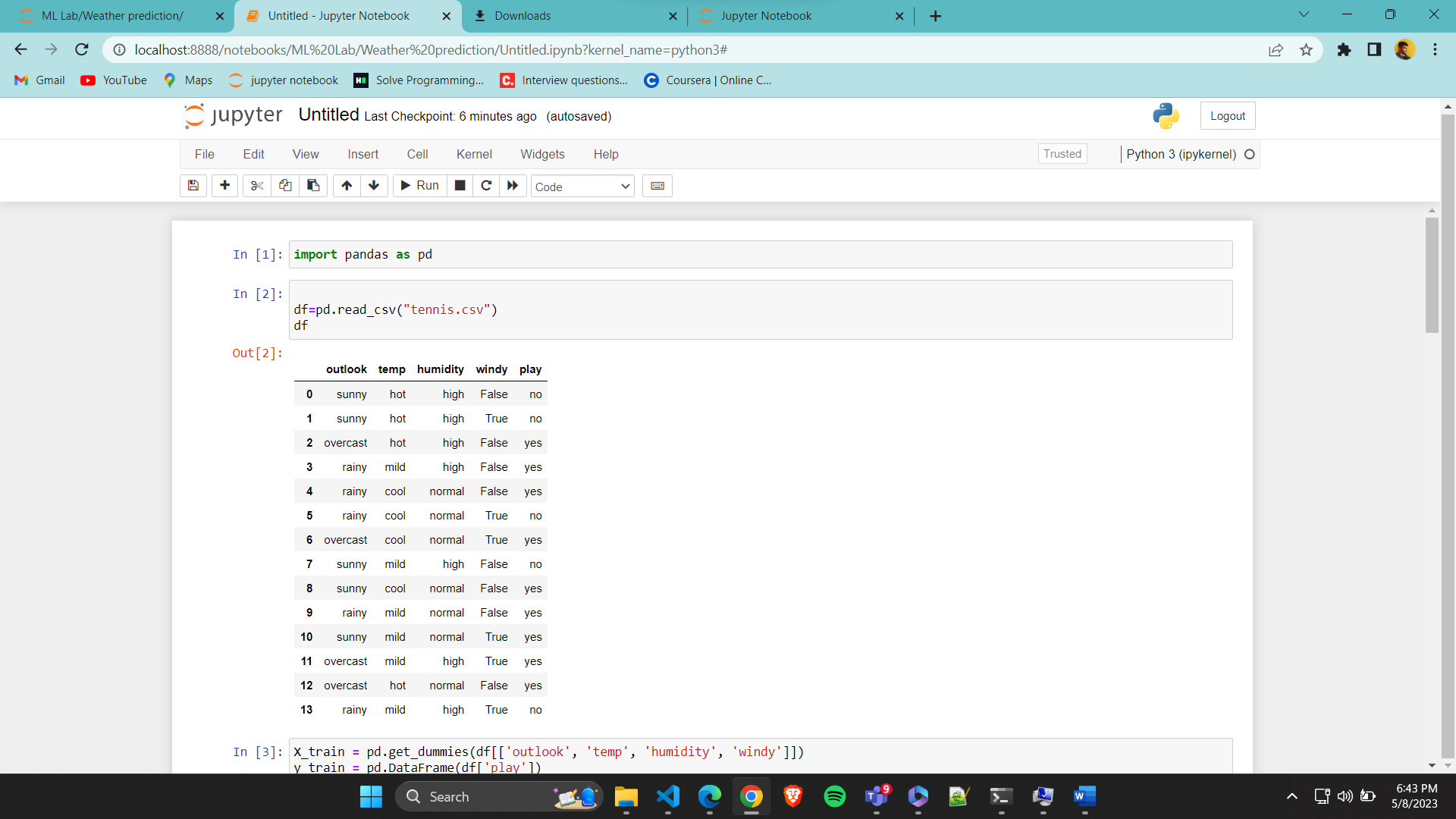
**ROLL\_NO:** 20BIS028

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 pandas as pd

df=pd.read\_csv("tennis.csv")

df



X\_train = pd.get\_dummies(df[['outlook', 'temp', 'humidity', 'windy']])

y\_train = pd.DataFrame(df['play'])

print(X\_train.info())

print(X\_train.head())

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Description automatically generated

print(y\_train.info())

print(y\_train)

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from sklearn.naive\_bayes import GaussianNB

classifier=GaussianNB()

classifier.fit(X\_train,y\_train)

classifier.score(X\_train,y\_train)

X\_train.head()

classifier.predict([[True,0,0,1,0,1,0,1,0]])

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y\_train.head()

a=classifier.predict([[True,0,0,1,0,1,1,1,1]])

if(a[0]=="yes"):

print("yOU CAN PLAY!!!!")

else:

print("You cant play!!!")

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