**Assignment 9**

**Roll no.: A-44**

**Subject: DAP**

**Code:**

import pandas as pd

from sklearn.linear\_model import LinearRegression

import seaborn as sns

import matplotlib.pyplot as plt

data=pd.read\_csv("Student\_Performance.csv")

df=pd.DataFrame(data)

X=df.drop("Performance\_Index",axis=1)

X=X.drop("Extracurricular\_Activities",axis=1)

Y=df["Performance\_Index"]

model=LinearRegression()

model.fit(X,Y)

new\_data=pd.DataFrame({

'Hours\_Studied':[2,6,3],

'Previous\_Scores':[71,77,62],

'Sleep\_Hours':[4,8,0],

'Sample\_Question':[5,6,9]

})

prediction=model.predict(new\_data)

print("Predictions : ",prediction)

**Output:**

Predictions : [46.88248998 ,66.58214657, 39.52917338]