import pandas as pd

import seaborn as sns

import matplotlib.pyplot as plt

from sklearn.model\_selection import train\_test\_split

from sklearn.ensemble import RandomForestClassifier

from sklearn.metrics import confusion\_matrix, ConfusionMatrixDisplay, accuracy\_score

df = pd.read\_csv("F:\exam\exp 3\Admission\_Predict.csv")

print(df)

y = df['GRE Score']

x = df.drop('GRE Score', axis=1)

corr = df.corr()

sns.heatmap(corr, annot=True, fmt='.1f')

plt.show()

xtrain, xtest, ytrain, ytest = train\_test\_split(x, y, test\_size=0.2)

model = RandomForestClassifier()

model.fit(xtrain, ytrain)

y\_pred = model.predict(xtest)

cm = confusion\_matrix(ytest, y\_pred)

pl = ConfusionMatrixDisplay(cm)

pl.plot()

plt.show()

print("Accuracy of our Random Forest Model =", accuracy\_score(ytest, y\_pred))