import matplotlib.pyplot as plt

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

import pandas as pd

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

print(df)

print(df.dtypes)

print(df.columns)

X = df.iloc[:, :-1]

y = df.iloc[:, -1]

# split the dataset

X\_train, X\_test, y\_train, y\_test = train\_test\_split(

X, y, test\_size=0.1, random\_state=0)

print(X\_train)

print(y\_train)

print(X\_test)

print(y\_test)

pt=pd.pivot\_table(df,index=["PlayTennis"],columns=['Outlook','Temperature'], aggfunc="size")

print(pt)

pt.dropna(axis=1,inplace=True)

print(pt)

pt=pd.pivot\_table(df,index=["PlayTennis"],columns=['Outlook','Temperature'], aggfunc="size")

print(pt)

pt.fillna(0,axis=1,inplace=True)

print(pt)

plt.subplot(1, 2,1)

plt.hist(pt.loc['Yes'])

plt.subplot(1, 2,2)

plt.hist(pt.loc['No'])

plt.show()