#Write a program to Visualize the dataset to gain insights using Matplotlib #or Seaborn by plotting scatter plots, bar charts.

import numpy as np

import pandas as pd

from sklearn.preprocessing import StandardScaler

from sklearn.preprocessing import MinMaxScaler

from sklearn.preprocessing import RobustScaler

import matplotlib.pyplot as plt

import seaborn as sns

data={'data1':[10,20,30,40,50],'data2':[1200,1500,3 500,4000,8000]}

print("data is ",data)

df=pd.DataFrame(data)

print(df)

plt.figure(1)

plt.bar(df['data1'],df['data2'])

plt.title('data before scaler with plt')

plt.xlabel('data1')

plt.ylabel('data2')

plt.figure(2)

plt.scatter(data['data1'], data['data2'], color='blue', alpha=0.7, edgecolors='black')

# Labels and title

plt.xlabel('Data 1')

plt.ylabel('Data 2')

plt.title('Scatter Plot before scaler using Matplotlib')

rs=RobustScaler()

rdata=rs.fit\_transform(df)

dfr=pd.DataFrame(rdata,columns=df.columns)

print(dfr)

plt.figure(3)

sns.set\_theme(style="darkgrid")

sns.barplot(x='data1',y='data2',data=dfr)

plt.title('data after scaler with sns')

plt.figure(6)

sns.scatterplot(data=dfr, x='data1', y='data2', color='red')

plt.title('Scatter Plot after scaler using Seaborn')

splt.show()