#importing libraries

import pandas as pd import matplotlib.pyplot as plt

1)temperature_data

temp_data = pd.read_csv('path_file') def temperature_change(data): plt.figure(figsize=(26, 6)) areas = data['Area'].unique() for area in areas: area_data = data[data['Area'] == area] plt.plot(area_data['Month'], area_data['TemperatureChange'], label=area) plt.title('Temperature Changes Over Months by Area in 2019') plt.xlabel('Month') plt.ylabel('Temperature (°C)') plt.legend() plt.grid(True) plt.show() temperature_change(temp_data)

2) salary experience data

sal_exp_data=pd.read_csv('path_file') def sal_exp(data, x, y): plt.figure(figsize=(9, 6))

plt.scatter(data[x], data[y], alpha=0.9)

plt.title(f'Scatter Plot - {x} vs. {y}') plt.xlabel(x) plt.ylabel(y) plt.grid(True) plt.show()

Call the function with your actual dataset sal_exp(sal_exp_data, 'YearsExperience', 'Salary')

3) heart disease usi data

heart_uci_data=pd.read_csv('path_file') def heart_uci(data):

plt.figure(figsize=(8, 6))

plt.hist(data['age'], bins=20, edgecolor='black')

plt.title('Age Distribution in Heart Disease UCI Dataset') plt.xlabel('Age') plt.ylabel('Frequency') plt.grid(True) plt.show()

heart_uci(heart_uci_data)