30.Write a Python program to create bar plot of scores by group and gender.

Use multiple X values on the same chart for men and women.

Sample Data:

Means (men) = (22, 30, 35, 35, 26)

Means (women) = (25, 32, 30, 35, 29)

Program:

import numpy as np

import matplotlib.pyplot as plt

n\_groups = 5

men\_means = (22, 30, 33, 30, 26)

women\_means = (25, 32, 30, 35, 29)

fig, ax = plt.subplots()

index = np.arange(n\_groups)

bar\_width = 0.35

opacity = 0.8

rects1 = plt.bar(index, men\_means, bar\_width,alpha=opacity,color='g',label='Men')

rects2 = plt.bar(index + bar\_width, women\_means,

bar\_width,alpha=opacity,color='r',label='Women')

plt.xlabel('Person')

plt.ylabel('Scores')

plt.title('Scores by person')

plt.xticks(index + bar\_width, ('G1', 'G2', 'G3', 'G4', 'G5'))

plt.legend()

plt.tight\_layout()

plt.show()

Output:

