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 matplotlib.pyplot as plt
import numpy as np
# Sample Data
means_men = (22, 30, 35, 35, 26)
means_women = (25, 32, 30, 35, 29)
# Number of groups
num_groups = len(means_men)
# X values for the bar plots
men_indices = np.arange(num_groups)
women_indices = men_indices + 0.35 # To shift bars for women to the right
# Bar width
bar_width = 0.35
# Create bar plots
plt.bar(men_indices, means_men, bar_width, label='Men')
plt.bar(women_indices, means_women, bar_width, label='Women')
# Set labels and title
plt.xlabel('Groups')
plt.ylabel('Scores')
plt.title('Scores by Group and Gender')
plt.xticks(men_indices + bar_width / 2, ['Group {}'.format(i+1) for i in range(num_groups)])
# Show legend
```

plt.legend()

Show the plot

plt.show()

OUTPUT:

