Aim: To create a stacked bar plot with error bars for two group (men or women) to visualize the men values along with standaud deviation errors

pseudocode:

* import the necessary libraries

* mean and standaud deviation for men and

* create a list of index positions for the bars

* plot the men's bals with error bars

* stack the women's bass on top the men's bars using the bottom parameter
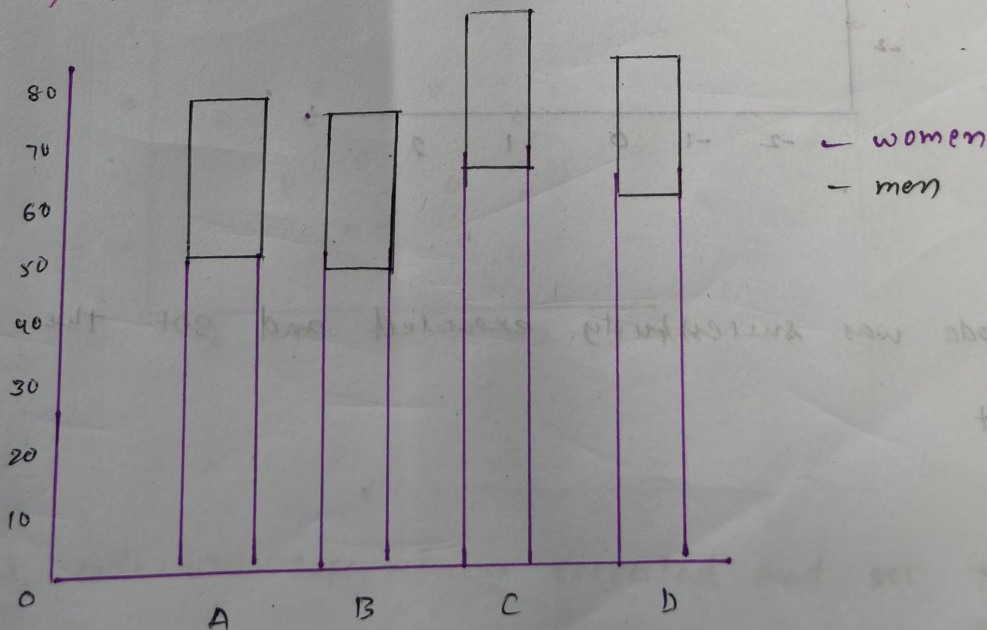
* Display the plot

sample input:

men - means = [22, 30, 35, 35, 26]

women - means = [25, 30, 30, 35, 29]

men - std = [4, 3, 4, 1, 5]

women - std = [3, 5, 2, 3, 3]

Sample output:

Result:

This code was successfully executed and got the output

```
means_women = [29, 32, 30, 35, 29]
std_men = [4, 3, 4, 1, 5]
std_women = [3, 5, 2, 3, 3]
# X-axis positions
ind = np.arange(len(means_men))
# Plotting
fig, ax = plt.subplots()
ax.bar(ind, means_men, yerr=std_men, label='Men', color='blue', alpha=0.6)
ax.bar(ind, means_women, yerr=std_women, bottom=means_men, label='Women', color='orange', alpha=0.6)
# Labels and title
ax.set(xlabel="Group", ylabel="Scores", title="Stacked Bar Plot with Error Bars", xticks=ind, xticklabels=['G1', 'G2', 'G3', 'G4', 'G5'])
ax.legend()
# Show plot
plt.show()
```


Stacked Bar Plot with Error Bars