import numpy as np

import matplotlib.pyplot as plt

students = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11]

Cosmatic\_scores = [4847, 2249, 1357, 8019, 13653, 14596, 0, 4894, 1598, 0, 9179]

CareProduction\_scores = [34093, 8695, 17434, 7111, 16630, 18185, 8128, 6260, 518, 10670, 25174]

x = np.arange(len(students))

width = 0.3

plt.bar(x, Cosmatic\_scores, width, color='pink', label='Cosmatic')

plt.bar(x + width, CareProduction\_scores, width, color='gray', label='CareProduction')

plt.xlabel('Month')

plt.ylabel('Sales Figures')

plt.title('Sales Figures for Cosmatic and Care Production')

plt.xticks(x + width / 2, students)

plt.legend(bbox\_to\_anchor=(1, 1), loc='upper left')

plt.tight\_layout()

plt.show()

import matplotlib.pyplot as plt

x = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11]

months = ['Jan', 'Feb', 'Mar', 'Apr', 'May', 'Jun', 'Jul', 'Aug', 'Sep', 'Oct', 'Nov']

y1 = [4847, 2249, 1357, 8019, 13653, 14596, 0, 4894, 1598, 0, 9179] # 第一組的Y 軸數據

y2 = [34039, 8695, 17434, 7111, 16630, 18185, 8128, 6260, 518, 10670, 25174] # 第二組的Y 軸數據

# 調整點的大小，這裡設置點的大小為300

s1 = [300 for \_ in range(len(x))] # 第一組點的大小列表，每個點大小為300

s2 = [300 for \_ in range(len(x))] # 第二組點的大小列表，每個點大小為300

plt.scatter(x, y1, s=s1, c='b', alpha=0.5, label='Cosmatic') # 設定透明度為0.5

plt.scatter(x, y2, s=s2, c='r', alpha=0.5, label='Care Production') # 設定透明度為0.5

plt.xlabel('Month') # 添加橫軸標籤

plt.ylabel('Sales') # 添加縱軸標籤

plt.xticks(x, months) # 設置橫軸刻度標籤

plt.legend() # 添加圖例

plt.show()