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import matplotlib.pyplot as plt

# 1. Generate Health Care Data Set
people = ['kiran', 'arun', 'vijay', 'varun']
age = [25, 30, 35, 40]
height = [145, 151, 165, 173]
weight = [45, 55, 65, 75]

# 2. Scatter Plot
plt.figure(figsize=(8, 5))
plt.scatter(age, height, color='blue', label='Height')
plt.scatter(age, weight, color='red', label='Weight')
plt.title('Scatter Plot - Health Care Data')
plt.xlabel('Age')
plt.ylabel('Height / Weight')
plt.legend()
plt.grid(True)
plt.show()

# 3. Bar Chart
plt.figure(figsize=(8, 5))
bar_width = 0.35
bar_positions1 = [age[i] - bar_width/2 for i in range(len(age))]
bar_positions2 = [age[i] + bar_width/2 for i in range(len(age))]
plt.bar(bar_positions1, height, width=bar_width, color='blue', label='Height')
plt.bar(bar_positions2, weight, width=bar_width, color='red', label='Weight')
plt.title('Bar Chart - Health Care Data')
plt.xlabel('Age')
plt.ylabel('Height / Weight')
plt.legend()
plt.grid(True)
plt.show()

# 4. Histogram
plt.figure(figsize=(8, 5))
plt.hist([height, weight], bins=[140, 150, 160, 170, 180], color=['blue', 'red'], label=['Height', 'Weight'])
plt.title('Histogram - Health Care Data')
plt.xlabel('Measurement Range')
plt.ylabel('Frequency')
plt.legend()
plt.grid(True)
plt.show()
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