

Assignment - 1

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Batch - 35

Code -

```
import matplotlib.pyplot as plt

# Dataset
people = ['Kiran', 'Arun', 'Vijay', 'Varun']
age = [25, 30, 35, 40]
height = [145, 151, 165, 173]
weight = [45, 55, 65, 75]

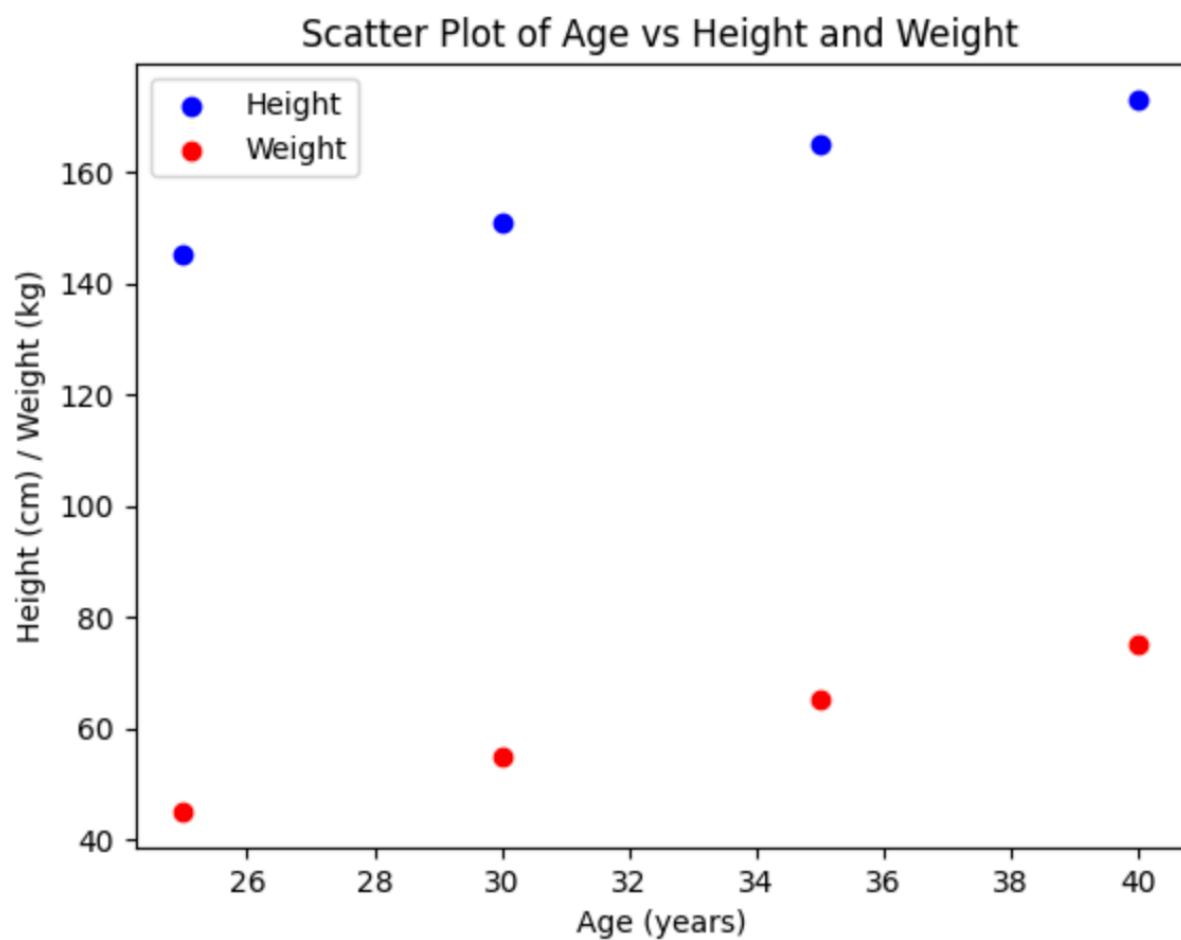
# Scatter Plot - Age vs Height and Weight
plt.scatter(age, height, color='blue', label='Height')
plt.scatter(age, weight, color='red', label='Weight')
plt.title("Scatter Plot of Age vs Height and Weight")
plt.xlabel("Age (years)")
plt.ylabel("Height (cm) / Weight (kg)")
plt.legend()
plt.show()

# Bar Chart - Comparing Height and Weight of People
x = range(len(people))
plt.bar(x, height, width=0.4, label='Height',
color='blue', align='center')
plt.bar(x, weight, width=0.4, label='Weight',
color='red', align='edge')
plt.title("Bar Chart of Height and Weight by Person")
plt.xlabel("Person")
plt.ylabel("Height (cm) / Weight (kg)")
plt.xticks(x, people)
plt.legend()
plt.show()

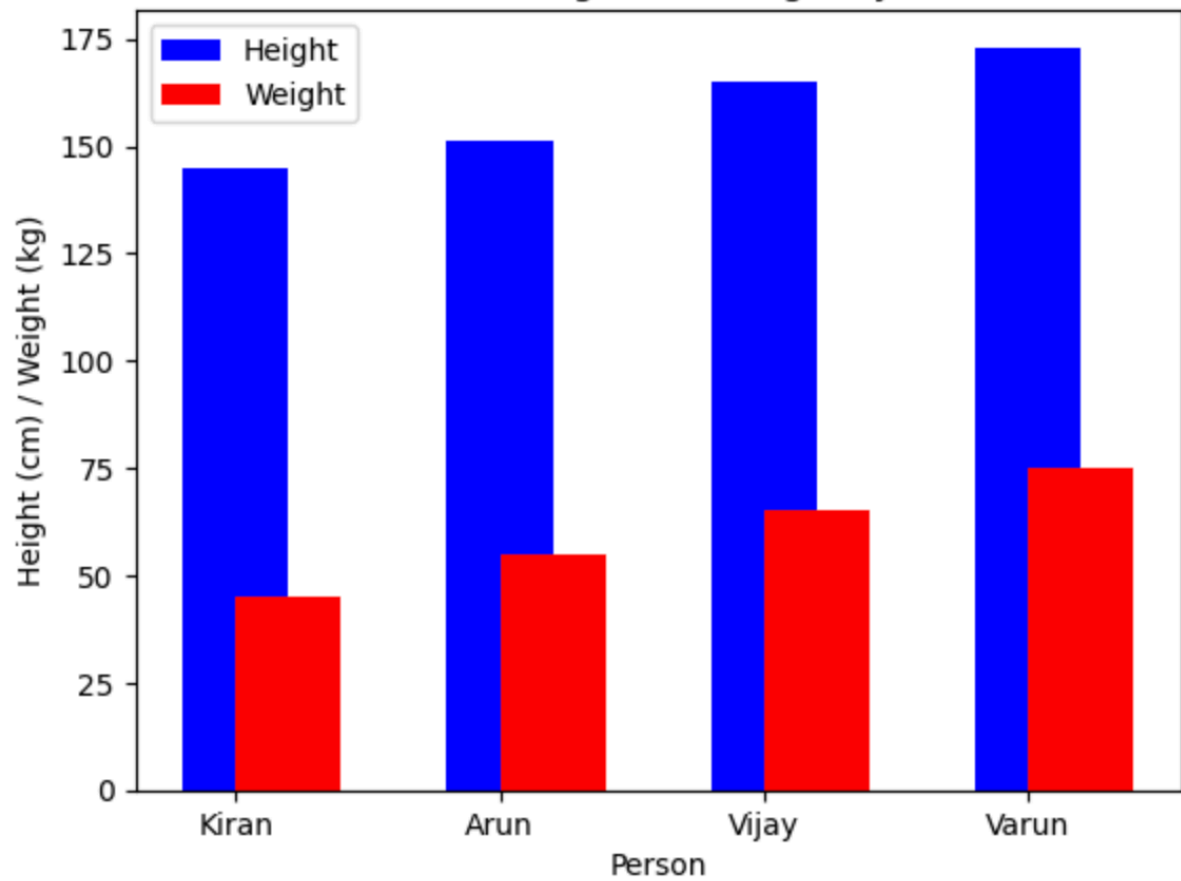
# Histogram - Distribution of Age
plt.hist(age, bins=5, color='green', alpha=0.7)
plt.title("Histogram of Age Distribution")
plt.xlabel("Age (years)")
```

```
plt.ylabel("Frequency")  
plt.show()
```

OUTPUT -



Bar Chart of Height and Weight by Person



Histogram of Age Distribution

