welcome-to-colaboratory-2

February 2, 2024

```python
[15]: import matplotlib.pyplot as plt

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

      # Scatter Plot
      plt.figure(figsize=(8, 6))
      plt.scatter(age, height, s=weight, c='blue', alpha=0.5)
      plt.title('Relationship between Age, Height, and Weight')
      plt.xlabel('Age (years)')
      plt.ylabel('Height (cm)')
      plt.grid(True)
      plt.legend(['Weight'], loc='best')
      plt.show()

      # Bar Chart
      plt.figure(figsize=(8, 6))
      plt.bar(people, weight, color='green')
      plt.title('Weight of People')
      plt.xlabel('People')
      plt.ylabel('Weight (kg)')
      plt.grid(axis='y')
      plt.show()

      # Histogram
      plt.figure(figsize=(8, 6))
      plt.hist(height, bins=5, color='orange', edgecolor='black')
      plt.title('Height Distribution')
      plt.xlabel('Height (cm)')
      plt.ylabel('Frequency')
      plt.grid(axis='y')
      plt.show()
```

Relationship between Age, Height, and Weight

Weight of People

Height Distribution