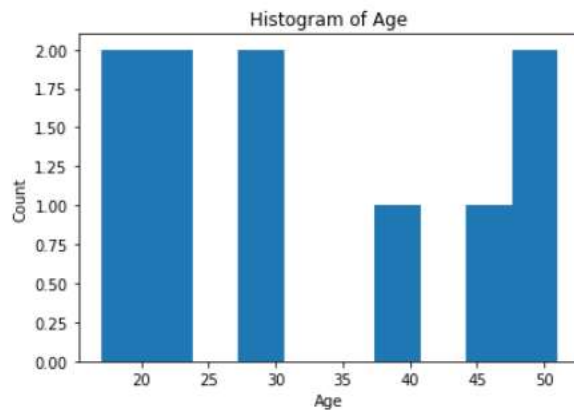


Question 1: Visualization results

Histogram of Age

```
import matplotlib.pyplot as plt

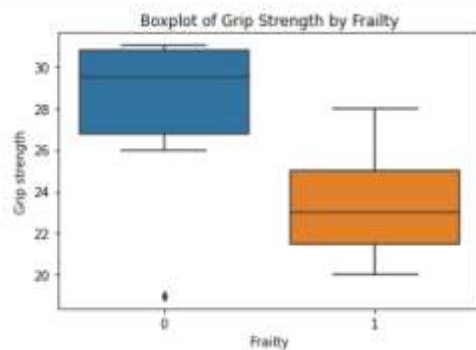
plt.hist(df['Age'], bins=10)
plt.xlabel('Age')
plt.ylabel('Count')
plt.title('Histogram of Age')
plt.show()
```



From the above, majority of individuals in the dataset are in their 20s and 30s, with a smaller number of individuals in their 40s and 50s.

Grip Strength by Frailty

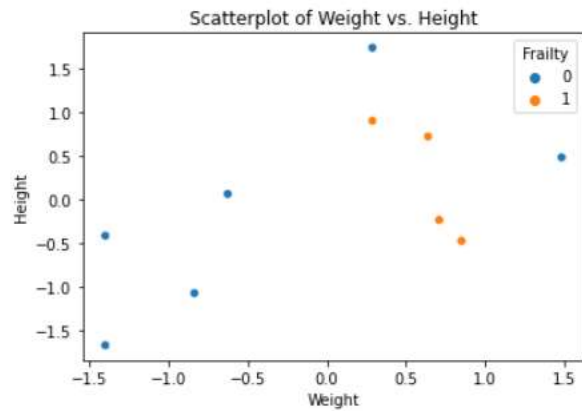
```
[14]: sns.boxplot(x='Frailty', y='Grip strength', data=df)
plt.xlabel('Frailty')
plt.ylabel('Grip strength')
plt.title('Boxplot of Grip Strength by Frailty')
plt.show()
```



We can see that non-frail individuals have higher grip strength on average than frail individuals.

Scatterplot:

```
[15] sns.scatterplot(x='Weight', y='Height', hue='Frailty', data=df)
plt.xlabel('Weight')
plt.ylabel('Height')
plt.title('Scatterplot of Weight vs. Height')
plt.show()
```



There is no exact relation that can be depicted from the graph.