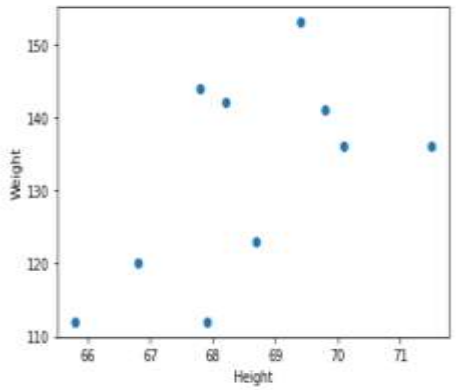
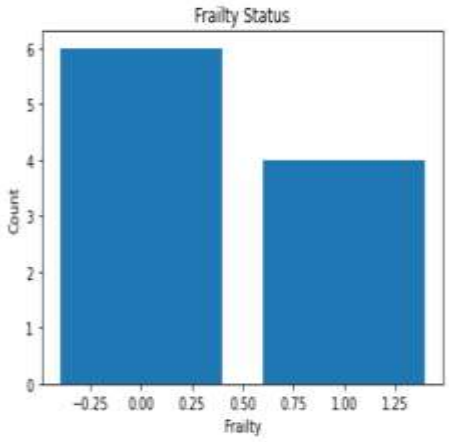
Assignment – 1 Task -1

```
[27] plt.scatter(df['Height'], df['Weight'])
     plt.xlabel('Height')
     plt.ylabel('Weight')
     plt.show()
```



This plot shows the relationship between Height and Weight for the 10 individuals in the dataset. There doesn't appear to be a very strong relationship between the two variables.

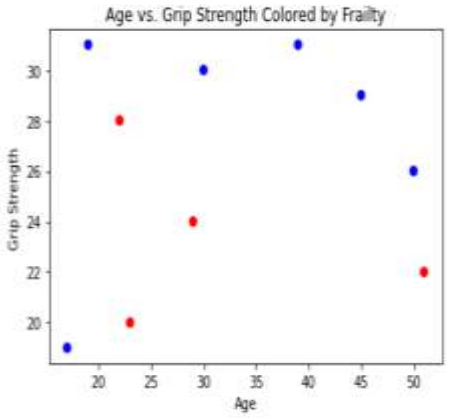
```
# Create the bar plot
plt.bar(counts.keys(), counts.values())
plt.xlabel('Frailty')
plt.ylabel('Count')
plt.title('Frailty Status')
plt.show()
```



This plot shows the number of individuals in each Frailty group. There are 4 individuals in the TRUE group and 6 individuals in the FALSE group

Assignment – 1 Task -1

```
[32] plt.scatter(df['Age'], df['Grip_strength'], c=[colors[f] for f in df['Frailty']])
     plt.xlabel('Age')
     plt.ylabel('Grip Strength')
     plt.title('Age vs. Grip Strength Colored by Frailty')
     plt.show()
```



This plot shows the relationship between Age and Grip Strength, with Frailty status represented by color. Individuals in the TRUE group are shown in red, while those in the FALSE group are shown in blue. It appears that individuals in the TRUE group tend to have lower Grip Strength, regardless of age.