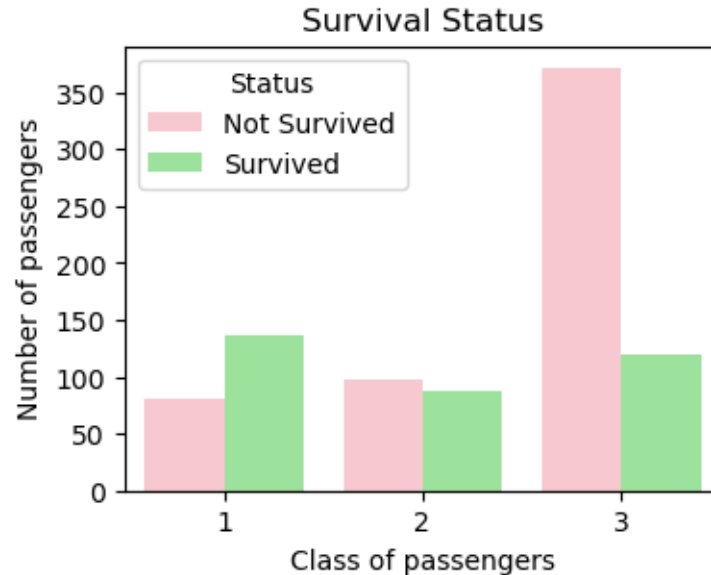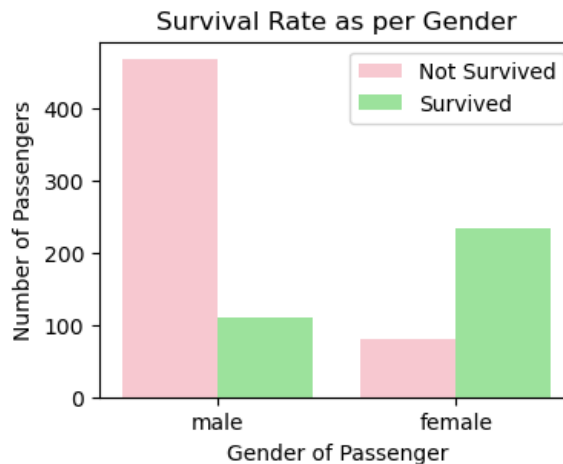# Summary of Exploratory Data Analysis on Titanic Dataset

1. **Determine if the survival rate is associated to the class of passenger.**
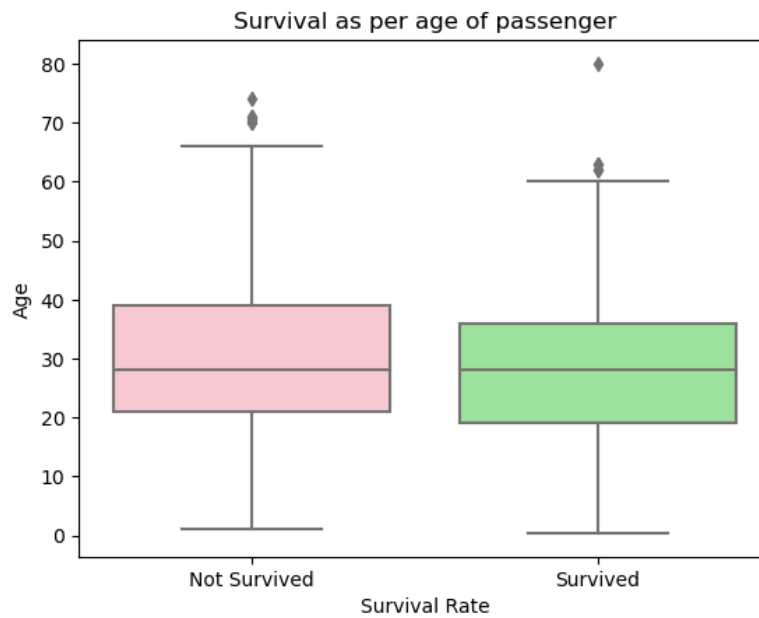
Survival Status

The survival rate of passenger is affected by the class of passenger. Class 1 has the maximum survival rate while most people who didn't survive were from class 3. Also, the value of Chi Square analysis is: `.549251711298793e-23`. Thus, signifying strong relation between them.

2. **Determine if the survival rate is associated to the gender.**

Survival Rate as per Gender

The above graph clearly indicates that survival rate of females were higher than that of males. The result of Chi Square analysis on the same is: 1.1973570627755645e-58. Thus, signifying strong relation between them.

3. Determine the survival rate is associated to the age

Survival as per age of passenger

The above boxplot shows that people who have survived are between the age groups of 20-30 years with few outliers. However, people who died are between the ages of 20-40 years with some outliers.