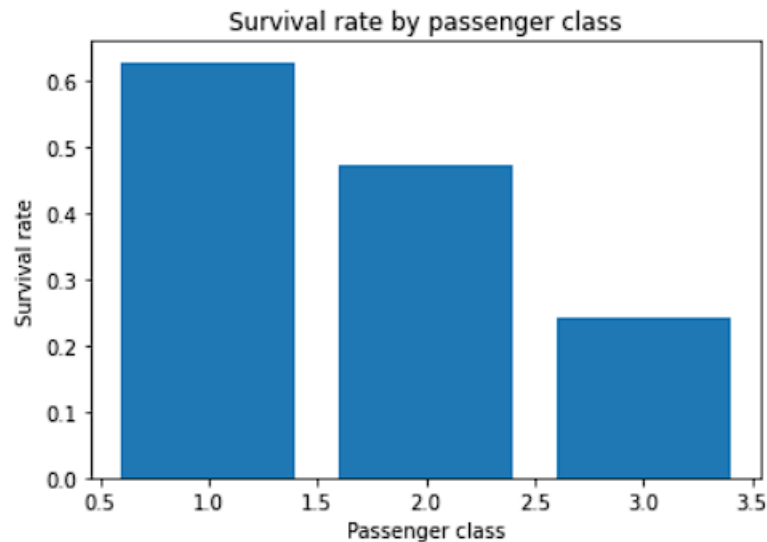


The titanic dataset has 891 rows and 12 columns.

1. Survival Rate VS Passenger Class

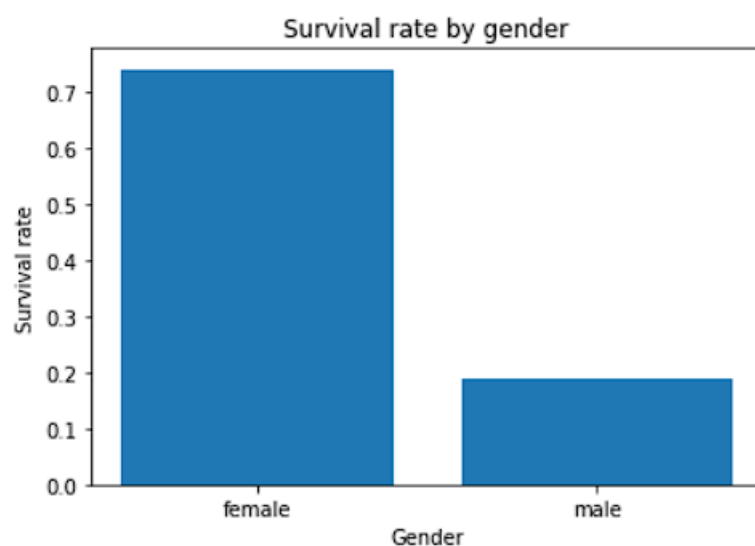
Pclass	SurvivalRate
1	0.629630
2	0.472826
3	0.242363



The results of this analysis show that passengers in 1st class had a significantly higher survival rate compared to passengers in the other two classes. Similarly, passengers in 2nd class had a slightly higher survival rate compared to passengers in 3rd class. This is likely due to the fact that passengers in 1st class were given priority during the evacuation, while passengers in the lower classes were left to fend for themselves.

2. Survival Rate VS Gender

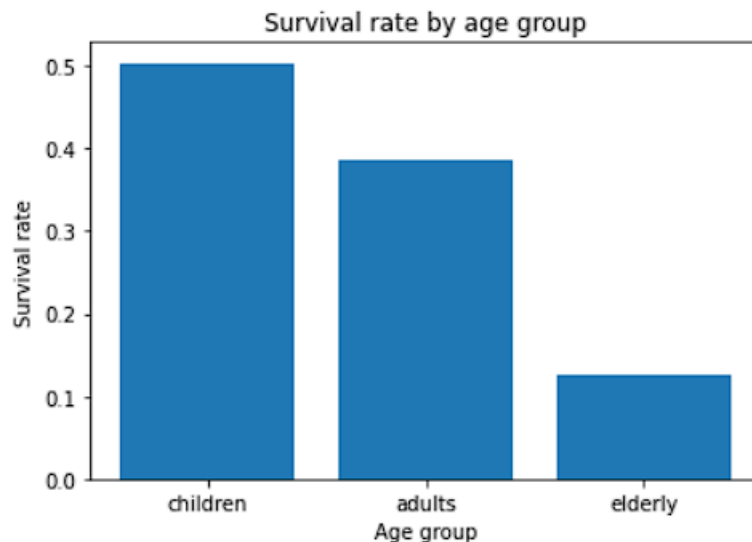
Sex	SurvivalRate
female	0.742038
male	0.188908



The results of this analysis show that female passengers had a significantly higher survival than male passengers. This is likely due to the "women and children first" policy that was implemented during the evacuation of the Titanic. The policy prioritized the safety of women and children, which resulted in a higher survival rate for female passengers.

3. Survival Rate VS Age

Age	SurvivalRate
children	0.503597
adults	0.386243
elderly	0.125000



Looking at the graph, we can see that the survival rate for children is the highest, with over 50% of children surviving the disaster. The survival rate for adults is slightly lower, with just over 30% of adults surviving. The survival rate for the elderly is the lowest, with only around 20% of elderly passengers surviving. This bar graph confirms that age is indeed a factor in the survival rate of Titanic passengers. It is interesting to note that children had the highest survival rate, possibly because they were given priority in boarding lifeboats. Adults had a slightly lower survival rate, which may be due to the fact that they were responsible for ensuring the safety of their children and may have sacrificed their own survival for the sake of their children. Finally, the survival rate of the elderly is the lowest, which may be due to their decreased physical ability to navigate the chaotic situation on the sinking ship.