**Summary of Findings**

After conducting an exploratory data analysis (EDA) on the Titanic dataset, the following key insights were observed:

**1. Survival Rates**

* Overall, a **higher proportion of passengers did not survive** the Titanic disaster (~62% deaths vs ~38% survivors).
* **Females** had a significantly **higher survival rate** (~74%) compared to males (~19%).

**2. Impact of Passenger Class**

* **First-class passengers** had the **highest survival rate** (~63%).
* **Third-class passengers** were the majority but had the **lowest survival rates** (~24%).
* Socio-economic status (ticket class) strongly influenced chances of survival.

**3. Age Distribution**

* Most passengers were between **20 and 40 years old**.
* **Children (younger passengers)** had relatively higher survival rates compared to adults.
* Median age of survivors was slightly lower than that of non-survivors.

**4. Fare Influence**

* Passengers who paid **higher fares** had a **higher probability of survival**.
* The **fare distribution** was **highly skewed**, with most passengers paying low fares and a few paying very high fares.

**5. Embarkation Port**

* Most passengers boarded from port **'S' (Southampton)**.
* Survival rates varied slightly based on embarkation point, but class and gender had stronger effects.

**6. Correlation Insights**

* **Fare** had a positive correlation with **Survival**.
* **Pclass** had a negative correlation with **Survival** (higher class = lower numeric value = better survival chances).
* Other features like **Age** had very weak correlation with survival.

**Final Conclusion:**

* Survival during the Titanic disaster was strongly influenced by **gender, socio-economic class, and fare paid**.
* Women, children, and first-class passengers were prioritized during the evacuation.

The EDA of the Titanic dataset reveals important human and socio-economic factors that played a critical role in survival — highlighting class privilege and gender-based rescue priorities during one of history's most infamous maritime disasters.