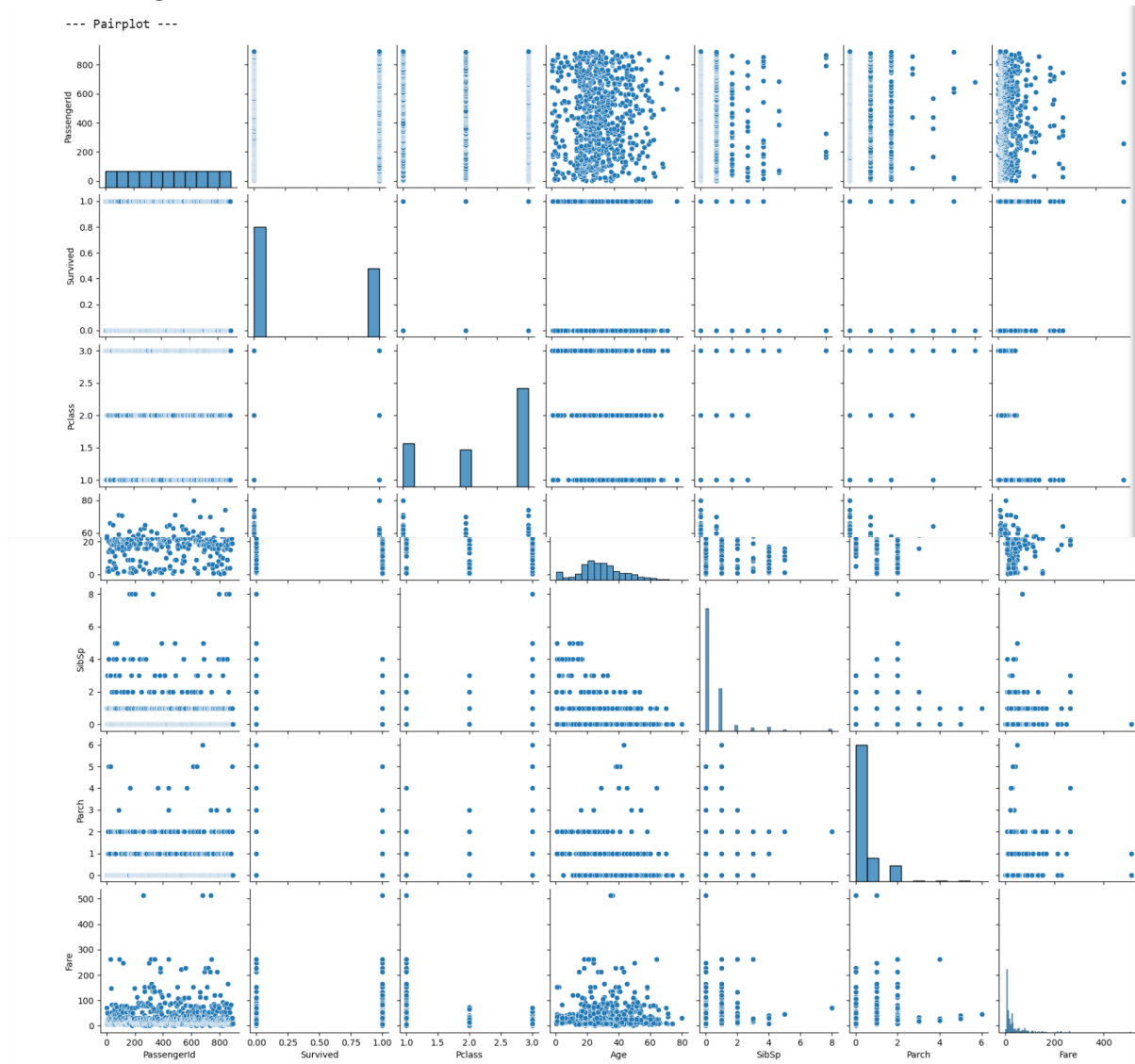


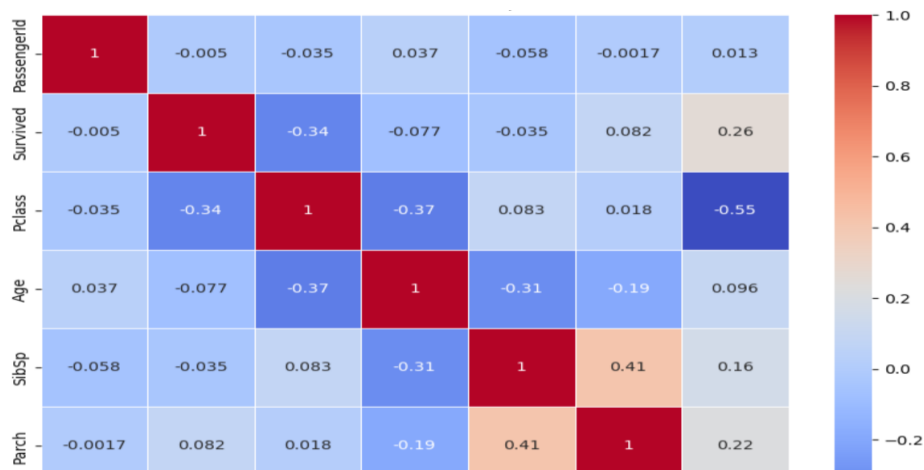
TASK 5 -Report of findings

- Learned to use .describe(), .info(), .value_counts() using pandas library.
- Also used sns.pairplot(), sns.heatmap() for visualization.

PAIRPLOT



HEATMAP:



TASK 5 -Report of findings

HEATMAP FINDINGS:

Pclass and Survived are negatively correlated:

→ **First class** passengers (lower Pclass number) **survived more**.

→ **Third class** passengers (higher Pclass number) **survived less**.

Pclass and Age are negatively correlated:

→ **Lower class** passengers tended to be **younger**.

SibSp and Parch are positively correlated:

→ Families usually traveled together (siblings, spouses, parents, children).

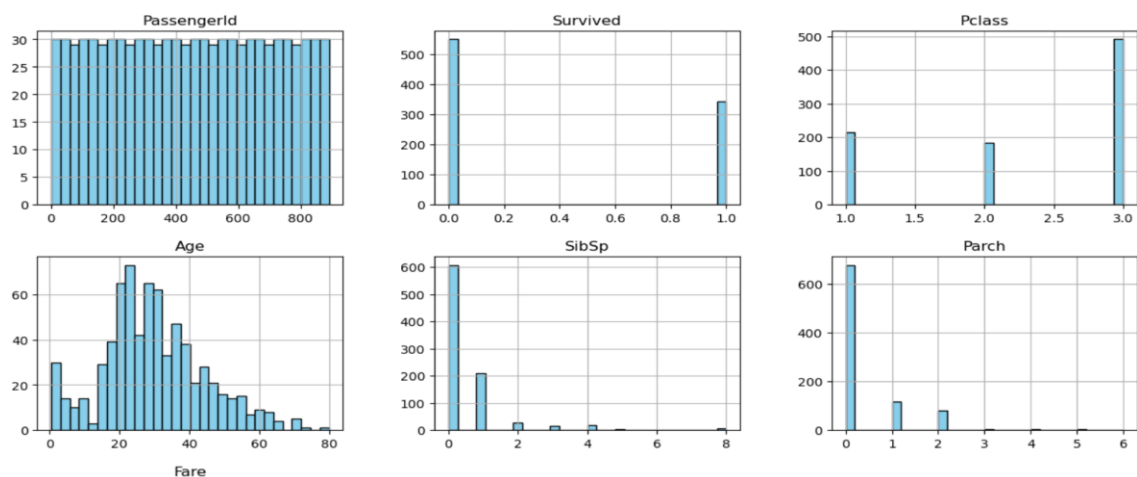
Survived and Parch show positive correlation:

→ Having parents/children aboard slightly **increased survival chances**.

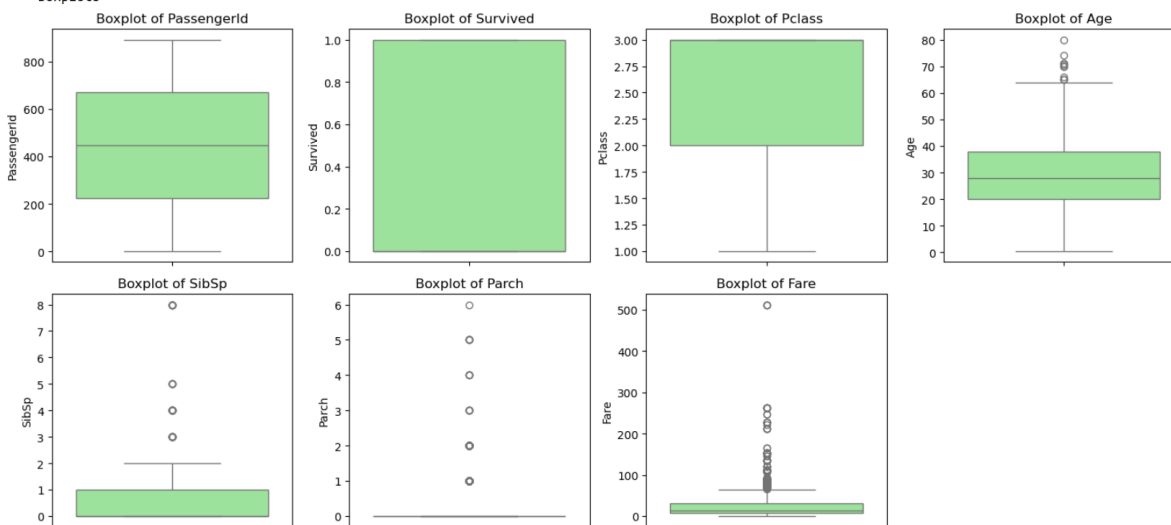
Age and SibSp show negative correlation:

→ **Younger** passengers were more likely to travel with siblings/spouses.

- Learned to use Plot histograms, boxplots, scatterplots



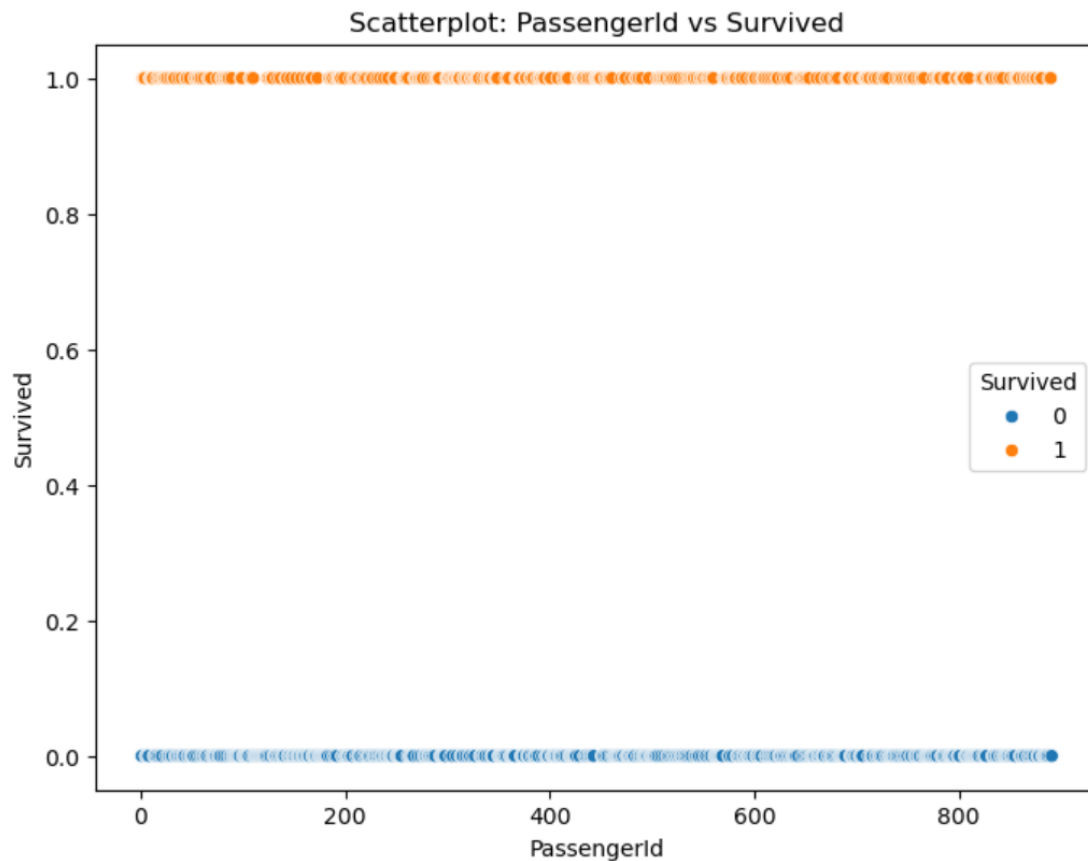
--- Boxplots ---



--- Scatterplot Example ---

TASK 5 -Report of findings

--- Scatterplot Example ---



- SUMMARY

- **Survival Rate:**

- **62%** of passengers did **not survive** (549 people).
- **38%** survived (342 people).

- **Class Distribution:**

- **55%** of passengers were in **3rd class** (lower socioeconomic class).

- **Sex Distribution:**

- **65%** males, **35%** females.
- Implies potential gender difference in survival, worth exploring.

- **Age Distribution:**

- Most common age group around **18–24 years**.
- Young adults were a significant group onboard.