**1. Objective**

The goal of this assignment is to perform correlation analysis and identify which features are most strongly related to the target variable.

**2. Methodology**

Loaded the dataset in Python (Colab).

Used Pandas and NumPy libraries to calculate correlations.

Visualized correlations using a heatmap (Seaborn).

Analyzed which variables have the highest correlation with the target.

**3. Results**

Features were compared with the target variable.

The three most strongly related features to the target variable are:

Feature A (e.g., Sex in Titanic dataset)

Feature B (e.g., Pclass in Titanic dataset)

Feature C (e.g., Fare in Titanic dataset)

**4. Insights**

These features provide the strongest predictive power for the target.

Other features showed weaker correlation, meaning they are less useful for prediction.

**5. Conclusion**

Correlation analysis helped in identifying key predictive variables. These variables will play an important role in future modeling and machine learning tasks.