**CODE TO PERFORM LOGISTIC REGRESSION**

**PROBLEM STATEMENT**

The sinking of the Titanic on April 15th, 1912 is one of the most tragic tragedies in history. The Titanic sank after colliding with an iceberg, killing 1502 out of 2224 passengers. The numbers of survivors were low due to the lack of lifeboats for all passengers and crew. Some passengers were more likely to survive than others, such as women, children, and upper-class. This case study analyzes what sorts of people were likely to survive this tragedy. The dataset includes the following:

* Pclass: Ticket class (1 = 1st, 2 = 2nd, 3 = 3rd)
* Sex: Sex
* Age: Age in years
* Sibsp: # of siblings / spouses aboard the Titanic
* Parch: # of parents / children aboard the Titanic
* Ticket: Ticket number
* Fare: Passenger fare
* Cabin: Cabin number
* Embarked: Port of Embarkation C = Cherbourg, Q = Queenstown, S = Southampton
* Target class: Survived: Survival (0 = No, 1 = Yes)

# STEP #0: LIBRARIES IMPORT

# STEP #1: IMPORT DATASET

# STEP #2: EXPLORE/VISUALIZE DATASET

# STEP #3: PREPARE THE DATA FOR TRAINING/ DATA CLEANING

# STEP#4: MODEL TRAINING

# STEP#5: MODEL TESTING