# Topic: Survival Analytics

Perform Kaplan Meier analysis for the given data and get the life table

| | PatientID | Followup | Eventtype | Scenario |
|---|---|---|---|---|
| 1 | John | 1.0 | 1 | A |
| 2 | Jess | 2.0 | 1 | A |
| 3 | Ann | 3.0 | 0 | A |
| 4 | Mary | 4.0 | 0 | A |
| 5 | Frank | 5.0 | 1 | A |
| 6 | Steven | 6.0 | 1 | A |
| 7 | Andy | 6.2 | 1 | A |
| 8 | Elizabeth | 8.0 | 0 | A |
| 9 | Joe | 9.0 | 1 | A |
| 10 | Kate | 10.0 | 0 | A |

# Hints:

### 1. Business Problem

    1.1. Objective
    1.2. Constraints (if any)

### 2. Data Pre-processing

    2.1 Data cleaning, Feature Engineering, EDA etc.

### 3. Model Building

    3.1 Partition the dataset
    3.2 Model(s) - Reasons to choose any algorithm
    3.3 Model(s) Improvement steps
    3.4 Model Evaluation
    3.5 Python and R codes

### 4. Result Share the benefits/impact of the solution - how or in what way the business (client) gets benefit from the solution provided.

# Note:

1. For each assignment the solution should be submitted in the format

2. Research and Perform all possible steps for improving the model(s) accuracy & reduce the RMSE (also evaluate errors like MAPE, MAE etc.)

3. All the codes (executable programs) are running without errors

4. Documentation of the module should be submitted along with R & Python codes, elaborating on every step mentioned here