Lab Assignment 11
AI and ML Lab

1. Apply different pre-processing steps written below for the Titanic dataset. a) Write the Code to load the csv file.
   b) Write the code to find missing values in each column
   c) Write the code to drop columns from the data.
   d) Write the code to convert 'male' to 1 and 'female' to 0 5.
   e) Write the code to fill missing values in 'Age' column.
   f) Write the code to split the Input and Output columns.
   g) Write the code the data in train-test set. h) Initialize and train Logistic Regression Model.
   i) Write the code to test the model and performance calculation.
   j) Initialize the Gaussian Naive-Bayes Model and train the model.
   k) Write the code to test the model and performance calculation. (Dataset Link: https://github.com/datasciencedojo/datasets/blob/master/titanic.csv)

2. Implement K-Means Clustering on given (Sonar Dataset) dataset, calculate the number of data-points miss-grouped and plot a 2D graph by taking any two features as x-axis and y axis. (Dataset Link: https://github.com/selva86/datasets/blob/master/Sonar.csv)