Lab Assignment
Machine Learning (CSBB 311)

Assignment 1: To Perform Exploratory Data Analysis

1) Download 'titanic_train.csv' dataset and perform following operations on given dataset.
    a) Use seaborn to create a simple heatmap to see where we are missing data.
    b) Plot a graph showing survived people based on known/unknown cabin information.
    c) Plot bar chart for the question (b) adding gender information.
    d) Plot bar chart for the question (b) adding passenger class information.
    e) Plot histogram showing Age and their count considering bin size 40.
    f) Plot bar chart showing count of sibling spouse information.
    g) Plot bar chart showing fare and no. of people travelling in that range considering bin size 40.
    h) Plot box plot showing mean age of people travelling in all classes.
    i) Fill the missing value by the mean age.
    j) Drop the column having mostly missing values
    k) Drop the other columns that are not necessary for training (Sex, Embarked, Name, Ticket)
    l) Split the dataset into train test and train logistic regression model.