CS306 Data Analysis and Visualization

Lab. 4 Airline Data (Big) Regression Analysis

- **1**. In this lab practical we will work with Big data of Airline. Download 2 files from the lecture folder i.e. 1.2008.csv.bz2 2. Airline.desc . Unzip the files and you will get .csv file for further experiments.
 - 1. Compute the correlation coefficients by taking two variables from the csv file. Take variable X as Distance and Y as Airtime. Next compute the simple regression line equation is $Y = \beta_0 + \beta_1 X$. Find intercept β_0 and Coefficient (slope) β_1 . Find RMSE between the original y's and predicted $^{\circ}$ y 's using the derived β_0 and β_1 .
 - 2. Compute 95% confidence for the value of slope and the mean value of y_0 when x_0 is 1200.

You may use Python/R for this exercise