1. **Linear regression with one variable:**

In this part of this exercise, you will implement linear regression with one variable to predict profits for a food truck. Suppose you are the CEO of a restaurant franchise and are considering different cities for opening a new outlet. The chain already has trucks in various cities and you have data for profits and populations from the cities.

You would like to use this data to help you select which city to expand to next.

The file ex1data1.txt contains the dataset for our linear regression problem. The first column is the population of a city and the second column is the profit of a food truck in that city. A negative value for profit indicates a loss.

**2. Logistic Regression:**

Suppose that you are the administrator of a university department and you want to determine each applicant's chance of admission based on their results on two exams. You have historical data from previous applicants that you can use as a training set for logistic regression. For each training example, you have the applicant's scores on two exams and the admissions decision.

Your task is to build a classification model that estimates an applicant's probability of admission based the scores from those two exams.

The file ex2data1.txt contains the dataset.

The first column is the marks in Test 1, the second column is the marks in Test 2, and the third column shows whether the student was admitted or not.

**Note: Take 80% of the Dataset as Training Set and rest as Test Set.**

**In case on any doubts, PM either of us.**