**Logistic Regression**

In this part of the exercise, you will build a logistic regression model to predict whether a student gets admitted into a university.

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.

Exersize 1:

1. Ploting Data
2. Cost function
3. Gradietnt descent
4. Obtain theta by iteration over gradient.
5. Show that cost function decreases by number of iterations.
6. Minimize cost function by opt.fmin\_tnc and obtain thetas
7. Evaluation of model

Exersize 2:

1. Here solve the problem by ML methods, sklearn
2. Obtain thetas and plot it with actual data
3. Evauatie method
4. Compare with theta in Exercise 1.