**Regularized Logistic Regression**

In this part of the exercise, you will implement regularized logistic regression to predict whether microchips from a fabrication plant passes quality assurance (QA). During QA, each microchip goes through various tests to ensure it is functioning correctly.

Suppose you are the product manager of the factory and you have the test results for some microchips on two different tests. From these two tests, you would like to determine whether the microchips should be accepted or rejected. To help you make the decision, you have a dataset of test results on past microchips, from which you can build a logistic regression model.

Exersize:

1. Visualizing the dataObtain thetas and plot it with actual data
2. Feature mapping
3. Cost function and gradient.
4. Learning parameters using fminunc
5. Plotting the decision boundary