**Practice 2**

1. Logistic Regression Implementation

Download the marks dataset. The data consists of marks of two exams for 100 students. The output takes on binary values 1,0. 1 means the student passed the final exam, whereas 0 means the student failed.

* Implement the Logistic Regression model to predict if a student passes the final exam or not, given his/her marks on the other two exams.
* Calculate the cost function after each iteration, draw cost function as a function of the iteration
* Try the program with various values for the learning rate alpha and number of iteration.’

2. Solve the problem 2 with regularization

3. Follow the tutorial on how to use the scikit-learn library in python

https://scikit-learn.org/stable/tutorial/index.html

4. Use the build-in function of scikit-learn library to solve the exercise 1 and the Marketing problem in the previous lecture.