Tutku Kılıçaslan
0054201
ENGR 421
Mehmet Gönen
HW #2

1) Firstly, I imported the data given hw02.zip file. I divided pixels into two groups as training and test and applied the same procedure for labels too.
2) I constructed a sigmoid function by applying the function (10.42) in the book.
3) I copied the gradient functions from our lab sessions and adopted to my code by using gradient functions in the book (10.45)
4) I applied one-of-K-coding code in lab04 into my codes.
5) I added the values which are given like initial W, w0, eta, epsilon etc. I generated a empty objective value array.
6) I constructed a while loop that improve W and w0 as the error decreases.
7) At the end, I got a new W and w0. I showed my plot showing my error values as the iteration goes on until 500.
8) I showed my confusion matrix which is same with the homework file.
9) I applied the same procedure for my test data and obtained the same confusion matrix.