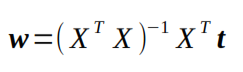
Part 1: KNN

* The first graph shows the 3 accuracies that resulted from testing the chosen K’s. The second graph shows the average of all 3 accuracies of the K’s. The K with the best average was 10.
* The graph below shows the accuracies per class when we used the testing set with K = 10. The average accuracy (ACCR) of the KNN with K= 10 was 31.42%.

Part 1: LLS

* In order to get the weights for the equations, I used the given equation in the slides, which is shown in the image below. I coded the weights part exactly like the equation below.



* The graph below shows the accuracies per class when we used the testing set with LLS classifier. The average accuracy (ACCR) of the LLS was 36.37%.
* There is no overfitting in the data because when I used several parts of the training data to predict their labels, the accuracies ranged between 45% and 55%, which is relatively close to the ACCR of the LLS, thus when the training and testing accuracies are close, there is no overfitting. But when there is a huge difference between both, it shows that there is overfitting in the data and changes must be made either to the amount of data or features that are used.