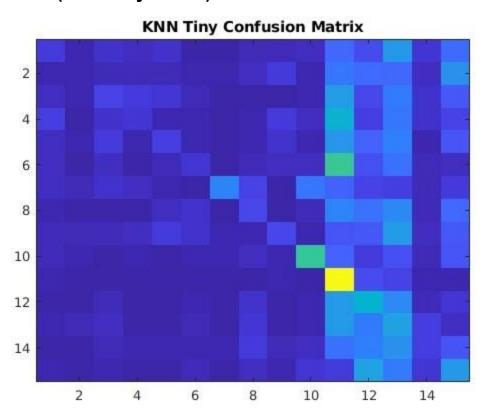
Assignment 6 - 6367

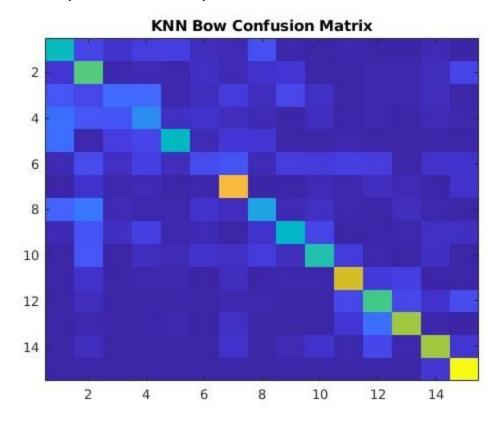
Problem 1 (KNN Tiny Model)



Tiny Image Size: (16x16)

K = 5 (for KNN) **Accuracy**: 19.4667%

Problem 2 (KNN with BoW)

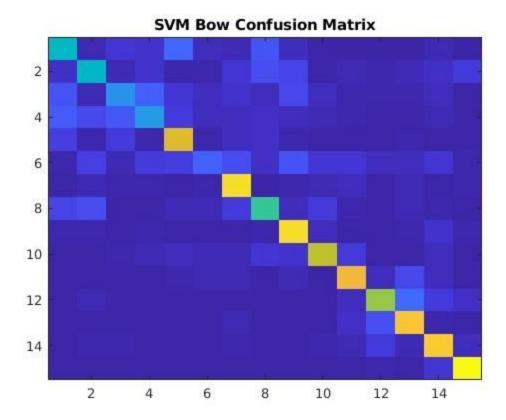


Dict_size = 50

SIFT Feature Dimension: 128

K = 7 (for KNN) **Accuracy**: 51.4%

Extra Credit (SVM with BoW)



Dict_size = 50 SIFT Feature Dimension = 128 Accuracy: 62%

Out of the three model combinations, SVM with Bag of Words (BoW) performed the best because BoW is a better representation of an image than the Tiny Image and SVM is a better classifier than KNN.