

## Report K-Means

No. iterations – 10

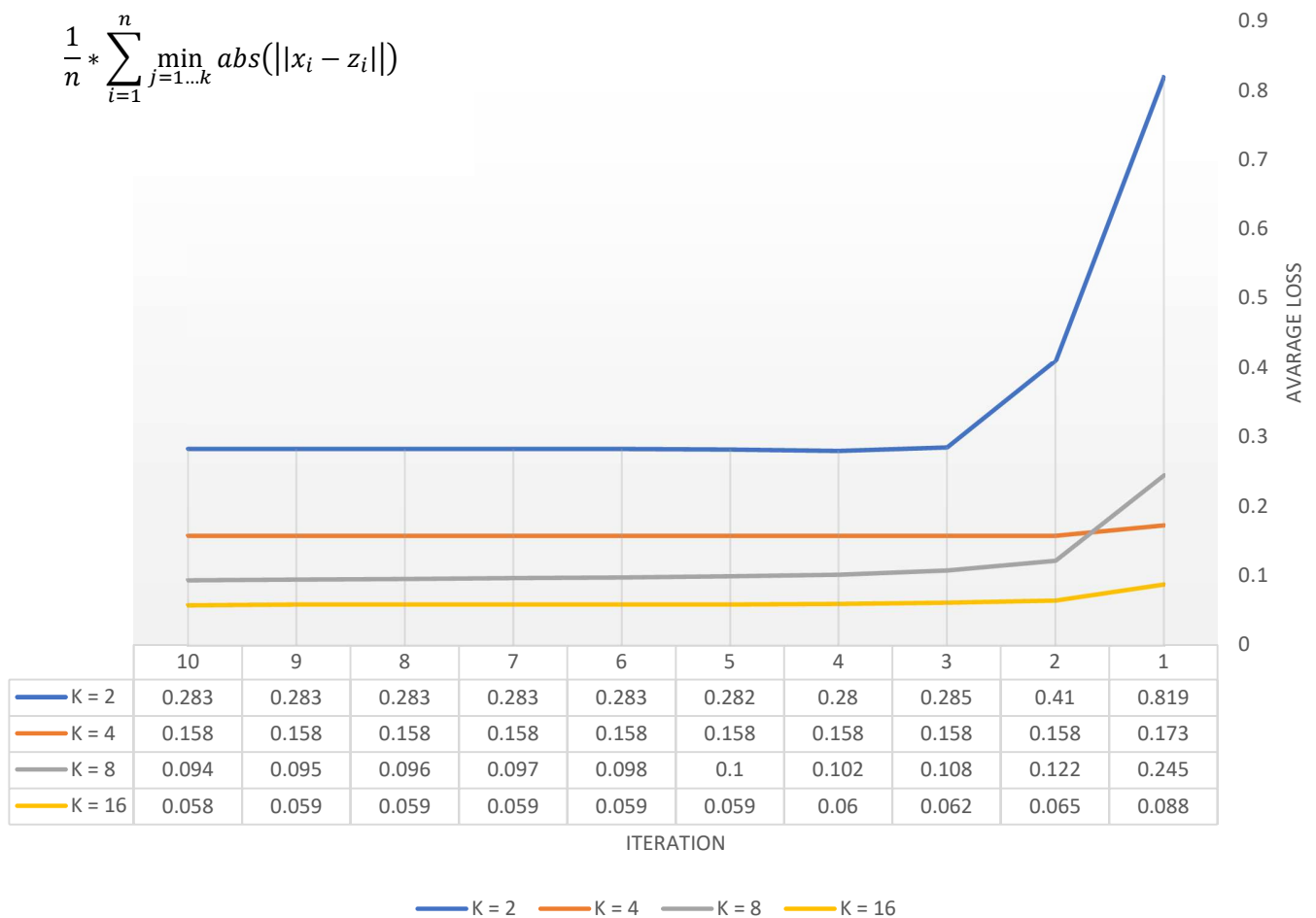
Centroids was given to us

## Graph for loss

Average Loss Function

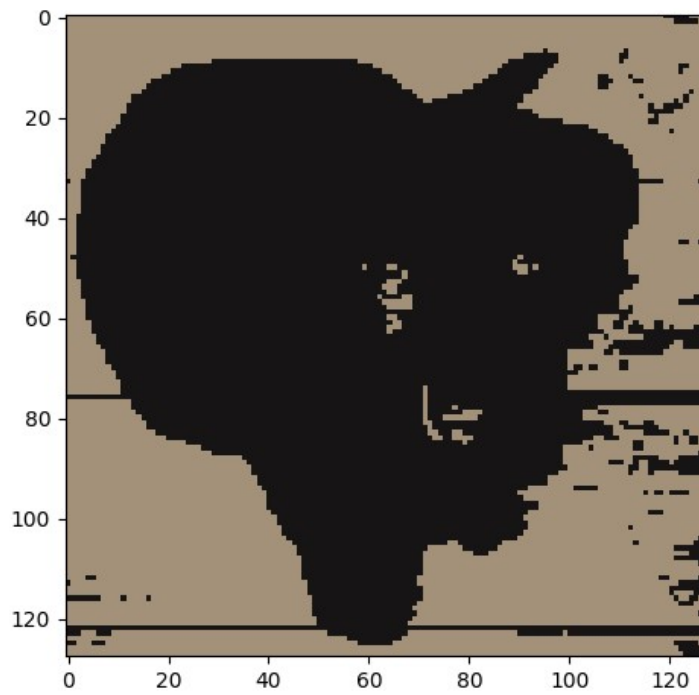
$$\frac{1}{n} * \sum_{i=1}^n \min_{j=1 \dots k} abs(||x_i - z_j||)$$

Loss Plot

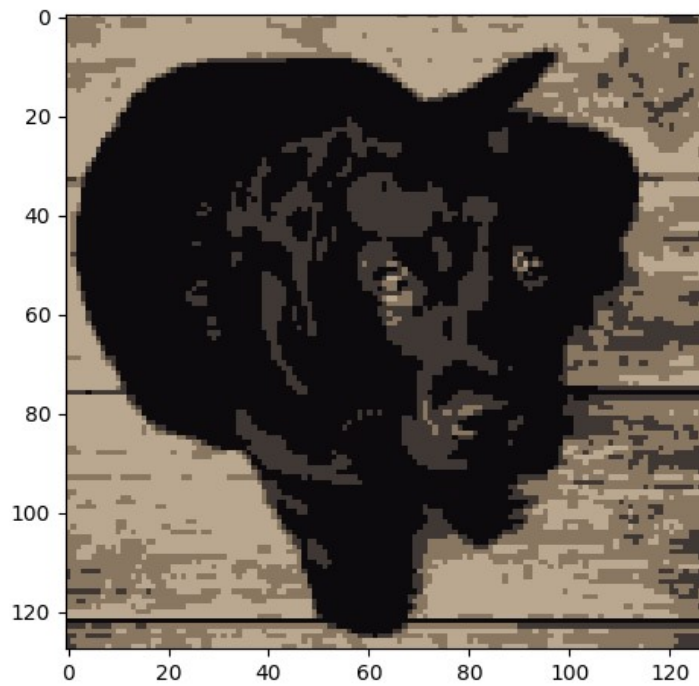


## Compressed Images

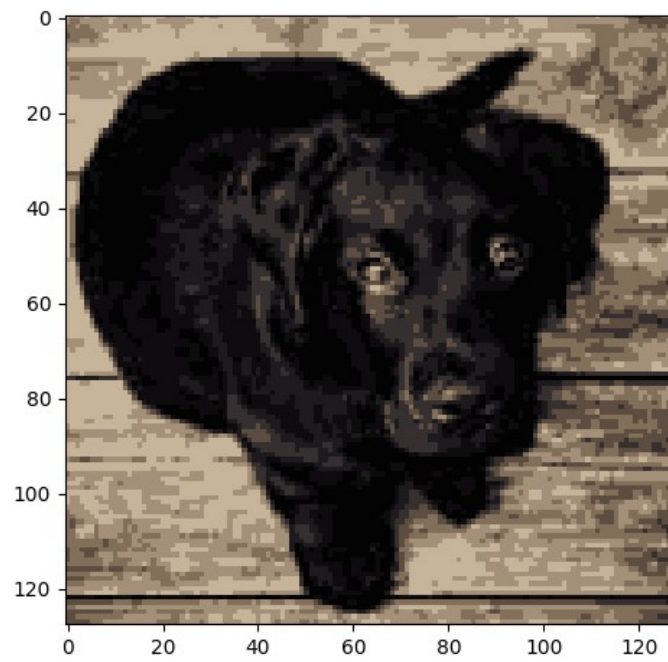
**K = 2:**



**K = 4:**



**K = 8:**



**K = 16:**

