**ASSIGNMENT 5**

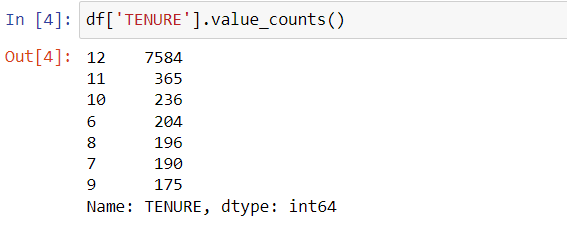
1. Principal Component Analysis

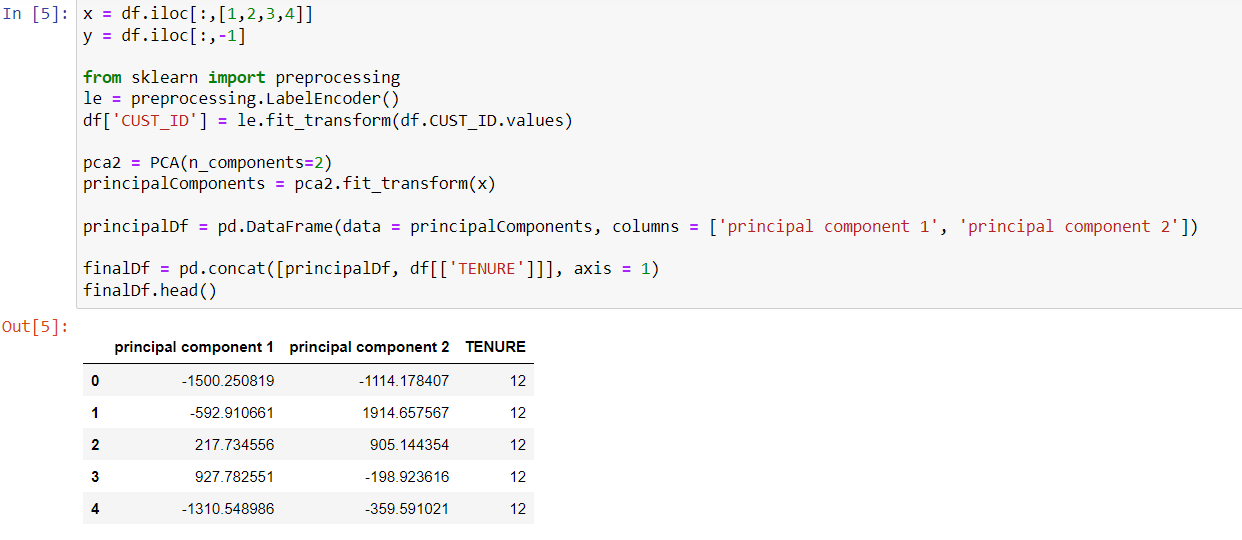
a. Apply PCA on CC dataset.

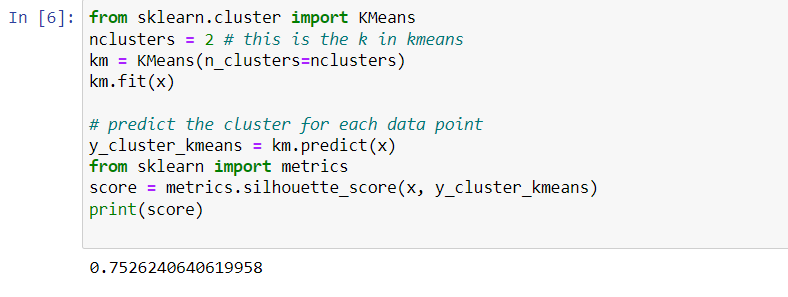
b. Apply k-means algorithm on the PCA result and report your observation if the silhouette score has improved or not?

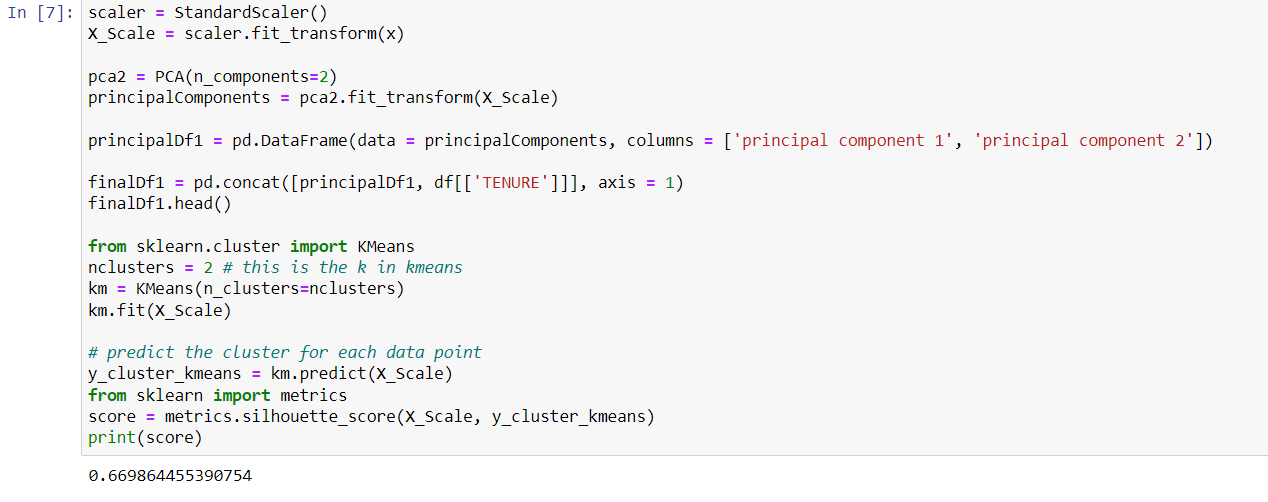
c. Perform Scaling+PCA+K-Means and report performance.









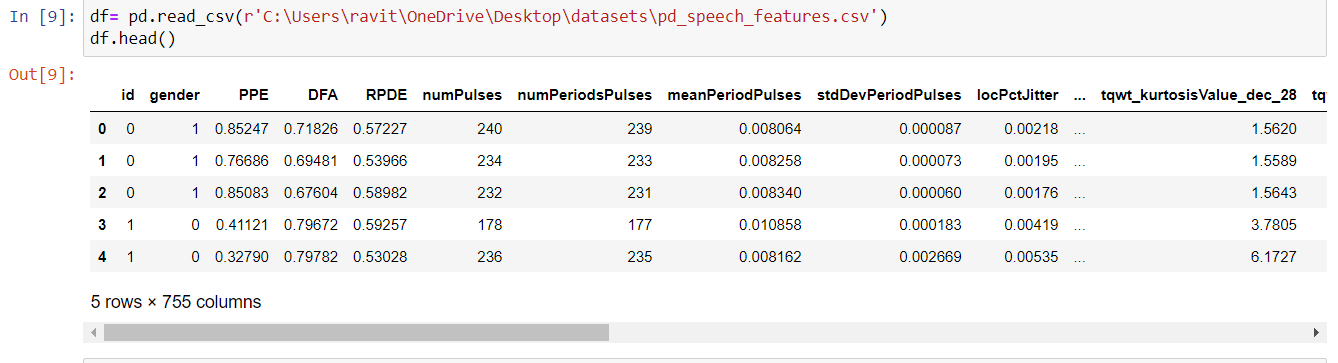


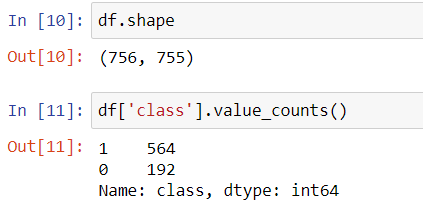
2. Use pd\_speech\_features.csv

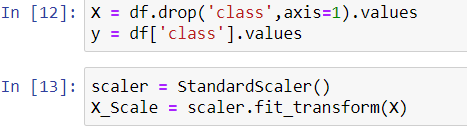
a. Perform Scaling

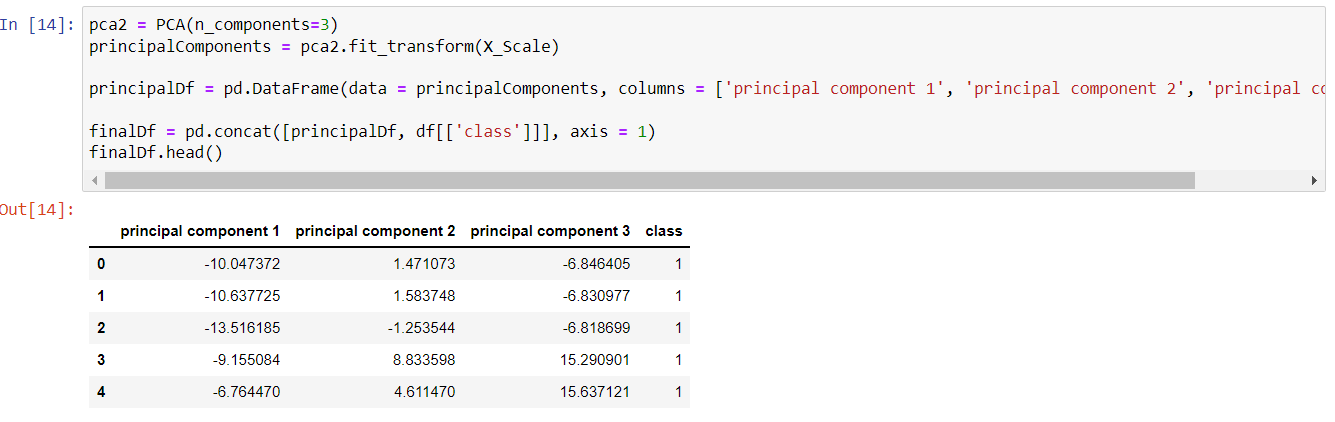
b. Apply PCA (k=3)

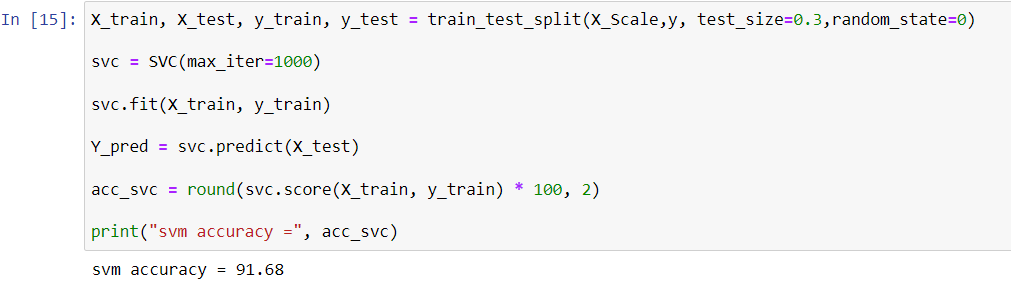
c. Use SVM to report performance











3. Apply Analysis (LDA) on Iris.csv dataset to reduce dimensionality of data to k=2.Linear Discriminant

4. Briefly identify the difference between PCA and LDA

