

# Task 3

- 1.) **The Number of clusters obtained were** - 8 using the **K-Means** algorithm.
- 2.) **DB Index Value** came out to be lowest at 8 clusters that is 0.63 and hence number of cluster used are 8

Other Clustering Metrics Used -

- 3.) **Cluster Visualization (via PCA):**

**Purpose:** Visualizes clusters in a 2D space after reducing dimensions with PCA.

**Relevance:** While not a numerical metric, it provides qualitative insights into cluster structure and separability