**AIM:** Implement a simple approach for K-means clustering algorithm.

**OBJECTIVE:**

1. To study clustering analysis.
2. To study different clustering techniques.
3. To understand how to group the data with similar pattern together.
4. To study different measures for cluster analysis.

**THEORY:**

* CLUSTER ANALYSIS:
* K-MEANS: A CENTROID BASED TECHNIQUE:
* K-MEANS ALGORITHM:
* DISTANCE MEASURES IN ALGORITHMIC METHODS:
* ADVANTAGES OF K-MEANS:
* DIS-ADVANTAGES OF K-MEANS:
* INPUT:

Number of elements, attributes and number of cluster to be formed.

* OUTPUT:

Clusters are formed for similar pattern attributes together.

* PLATFORM:
* CONCLUSION:

K-means algorithm working is successfully implemented and studied.

* FAQs:

Que1: How does the algorithm measure the similarity between objects ?

Que2: Can outliers be detected and if so, should they be remarked ?

Que3: Compare different clustering techniques.