**K means Report**

|  |  |  |
| --- | --- | --- |
| **Iteration number** | **No of Clusters** | **SSE Value** |
| **1.** | **5** | **21.56** |
| **2.** | **10** | **7.28** |
| **3.** | **15** | **5.86** |
| **4.** | **20** | **3.13** |
| **5.** | **25** | **1.82** |

**So we see that after increasing the number of clusters, the SSE values goes on decreasing.**

Language used**: JAVA**

How to Compile**(the code is in Kmeans.java file in part1 folder)**

**javac Kmeans.java**

How to Run**:**

**java Kmeans.java k-means <numberOfClusters> <input-file-name> <output-file-name>**

**One sample Output is given in Output1.txt in part1 folder**.