**CMPE256- Assignment 7**

**K Mean Cluster(Shopping Index & Income Index) Assignment**

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Develop K Means clustering for the following dataset: This data set is to be grouped into two clusters

|  |  |  |
| --- | --- | --- |
| Shopper | SpendingIndex | IncomeIndex |
| 1 | 3 | 5 |
| 2 | 3 | 4 |
| 3 | 5 | 6 |
| 4 | 2 | 6 |
| 5 | 4 | 5 |
| 6 | 6 | 8 |
| 7 | 6 | 2 |
| 8 | 6 | 3 |
| 9 | 5 | 6 |
| 10 | 6 | 7 |
| 11 | 7 | 2 |
| 12 | 8 | 5 |
| 13 | 9 | 1 |
| 14 | 8 | 2 |
| 15 | 9 | 6 |
| 16 | 9 | 1 |
| 17 | 8 | 3 |

Part b:

Please develop Python code to Cluster K = 2, K = 3 & K = 4

**Solution:**

**Part A**

K-means clustering is done manually, PDF is uploaded on Github.

Github Link- <https://github.com/charucheema/CMPE256_K-Mean-Cluster_Assignment_7/blob/main/CMPE256_K-Means_PartA.pdf>

Github Link-

**Part B**

Python program written on Google collab. PDF is uploaded in Github.

Github Link- <https://github.com/charucheema/CMPE256_K-Mean-Cluster_Assignment_7/blob/main/CMPE256_K_Mean_Cluster_(Shopping_Index_%26_Income_Index).ipynb>