



**Department of Computer Science and Engineering  
University of Dhaka**

**Course:**

**CSE-4255: Introduction to Data Mining and Warehousing Lab**

**Lab Work-03**

**Submitted By:**

Sree Sowmik Kumar Sarker

Roll: 54

**Submitted to:**

Dr. Chowdhury Farhan Ahmed

Professor

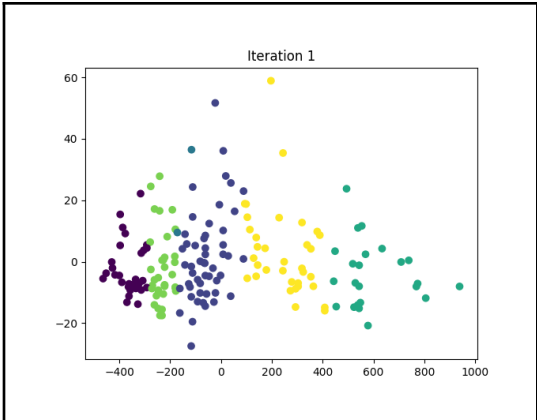
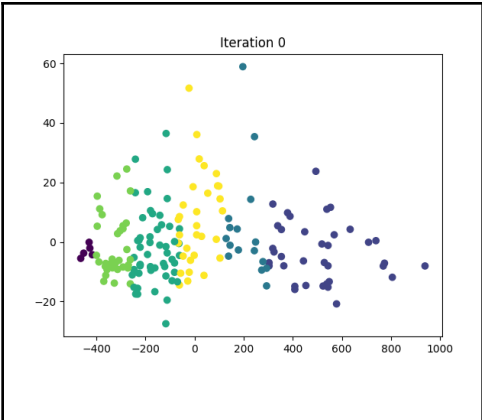
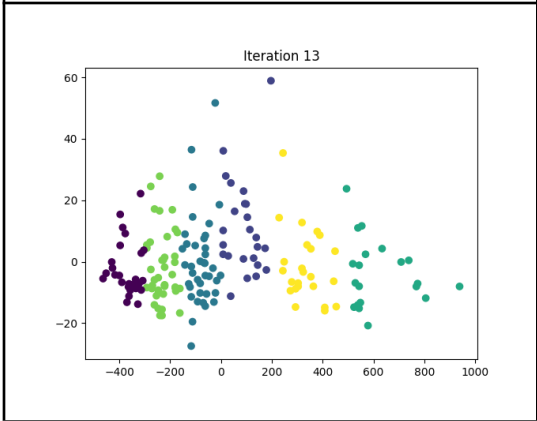
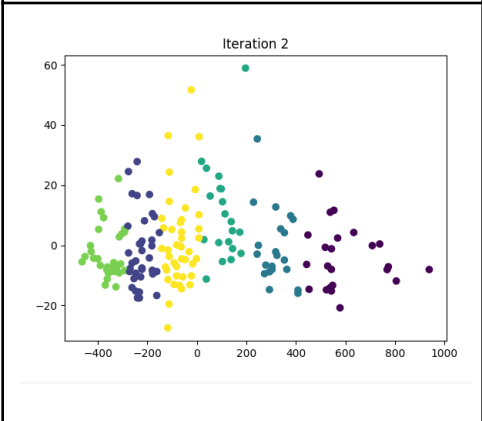
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**Date: 14 March, 2021**

Comparison of the performance of the k-means and k-medoids clustering algorithm:

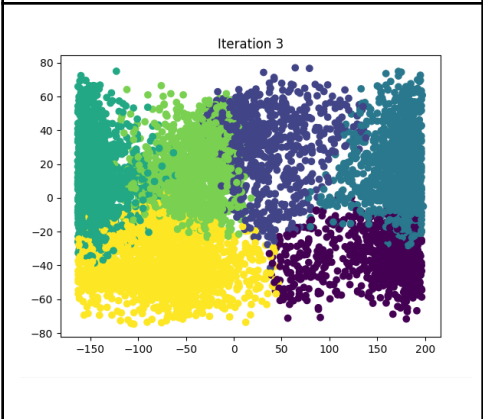
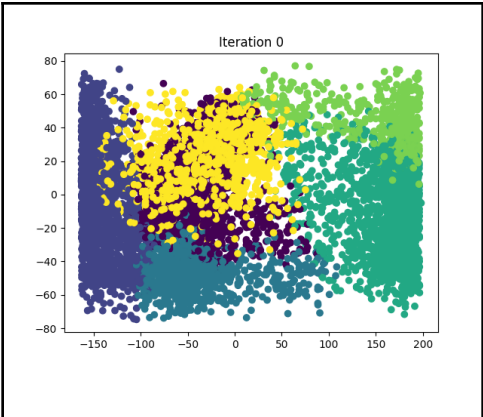
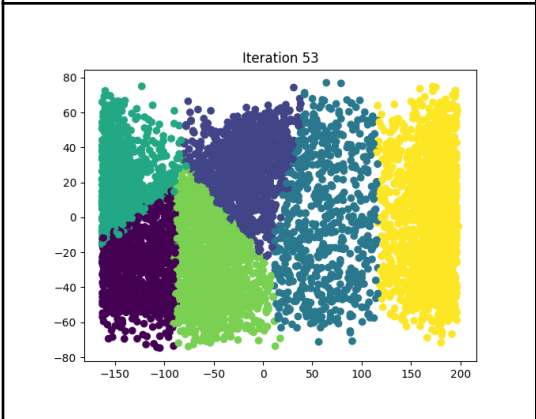
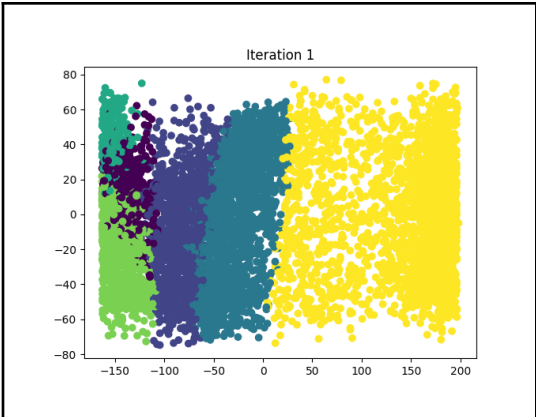
<b>Datasets</b>	<b>K-Means</b>			<b>K-Medoids</b>		
	<b>Time(s)</b>	<b>Number of Clusters</b>	<b>Number of Members</b>	<b>Time(s)</b>	<b>Number of Clusters</b>	<b>Number of Members</b>
<b>Wine.data</b>  <b>Size: 175</b>	57.58464 67070005	0: 1: 2: 3: 4: 5:	28 24 39 20 40 24	72.9141 950920 0023	0: 1: 2: 3: 4: 5:	23 38 21 20 31 42
<b>weather_madrid_L EMD_199 7_2015.csv</b>  <b>Size: 6810</b>	69.08616 13989982 3	0: 1: 2: 3: 4: 5:	844 1173 659 1088 1243 1803	124.885 465675 99951	0: 1: 2: 3: 4: 5:	815 788 1182 1334 1193 1498
<b>Tripadvisor_review.csv</b>  <b>Size: 978</b>	30.74142 36549957 42	0: 1: 2: 3: 4: 5:	141 151 78 193 154 261	18.2049 645240 0039	0: 1: 2: 3: 4: 5:	147 95 174 279 148 135
<b>Google_review_ratings.csv</b>  <b>Size: 5454</b>	43.83140 32759954	0: 1: 2: 3: 4: 5:	891 805 634 922 1486 716	67.0415 156740 0004	0: 1: 2: 3: 4: 5:	1200 1001 617 779 1114 743
<b>Credit_card_unsupervised.csv</b>  <b>Size: 8948</b>	48.87387 71470016 2	0: 1: 2: 3: 4: 5:	791 5315 62 2542 182 56	266.996 862846 99965	0: 1: 2: 3: 4: 5:	937 3387 1084 1688 1288 564

<b>Buddymove_holidayiq.csv</b>  <b>Size:</b> 247	101.0702 98098000 42	0:	44	37.6031 173629 999	0:	46
		1:	37		1:	48
		2:	63		2:	28
		3:	31		3:	56
		4:	33		4:	35
		5:	39		5:	34

	K-Means	K-Medoids
<b>Wine.data</b>  Initial iteration & Final iteration		
		

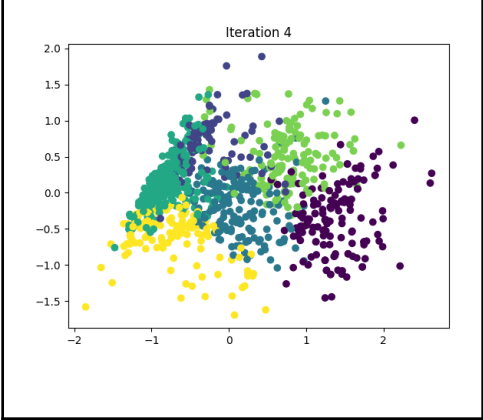
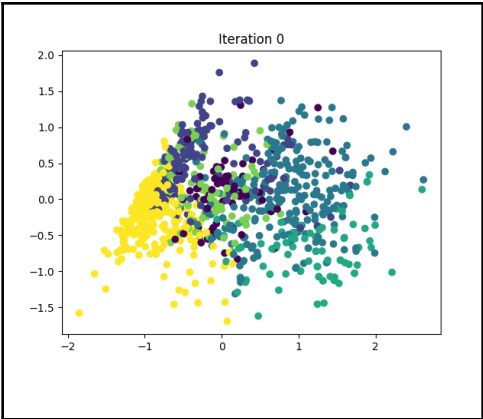
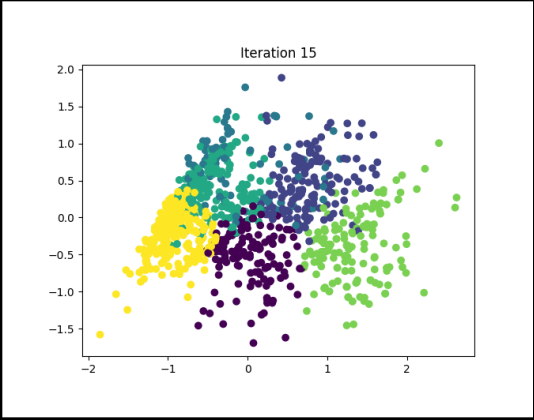
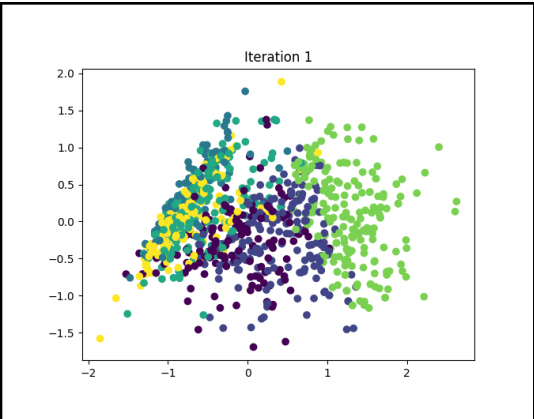
weather\_mad  
rid\_LEMD\_1  
997\_2015.csv

Initial iteration  
&  
final iteration



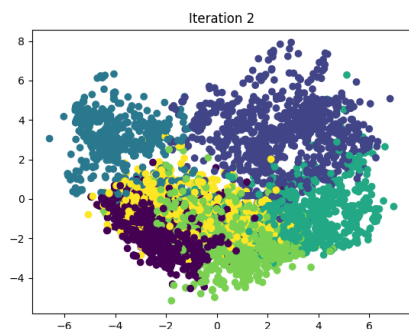
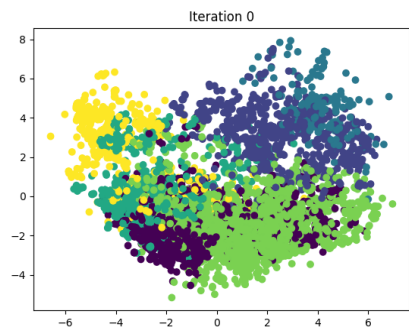
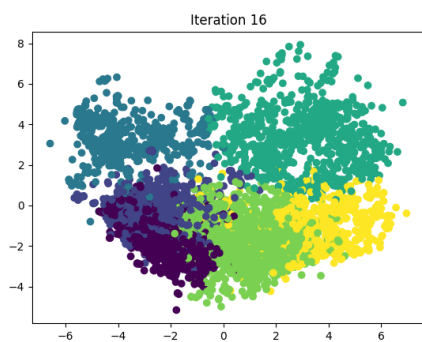
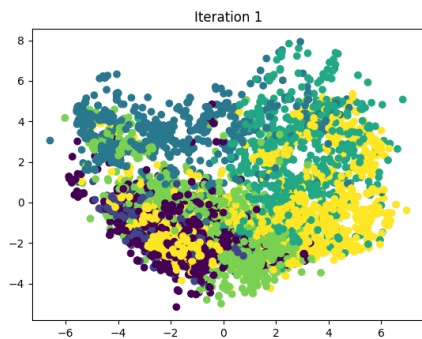
**Tripadvisor\_r  
eview.csv**

Initial iteration  
&  
Final iteration



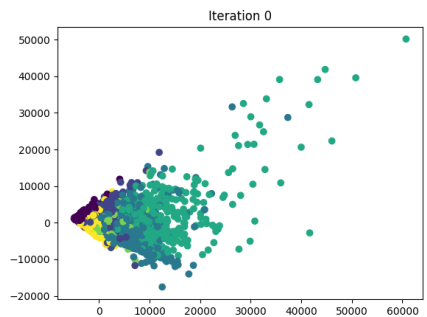
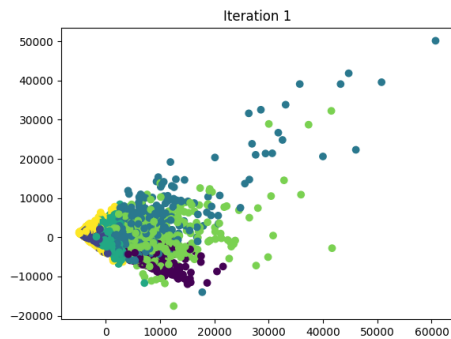
**Google\_revie  
w\_ratings.csv**

Initial iteration  
&  
Final iteration



**Credit\_card\_  
unsupervised.  
csv**

Initial iteration  
&  
Final iteration



**Buddymove\_  
holidayiq.csv**

Initial iteration  
&  
Final iteration

