VIT
Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

CSE3018 CONTENT BASED IMAGE AND VIDEO RETRIEVAL LAB
EXERCISE - 8

DATE: 24.09.2019

DISTANCE OR SIMILARITY METRIC

1. For eg., consider
   (i) You have an excel sheet / CSV file, with 100 records, each with 10 attributes, as shown below:

F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	Index / Rank
3	18	90.00	-4	118	0.0025	34546	12.34	16.78	640	
5	21	89.00	-8	113	0.125	23345	13.45	14.56	680	

   (ii) There is a Query Record obtained as input. Eg.,

F1	F2	F3	F4	F5	F6	F7	F8	F9	F10
4	20	70	-1	200	0.0025	45234	15.23	19.45	490

Show the top 20 results matching with this Query Record.

1. Implement the following Distance Measure / Similarity Measure (Write each of them as an individual Matlab file ; Call them from the Main Function)
   a. Sum of Absolute Differences
   b. Sum of Squared Absolute Differences
   c. Euclidian Distance
   d. City Block Distance
   e. Canbera distance
   f. Maximum Value Distance
   g. Minkowski Distance
   h. Chi-Square Distance
   i. Hamming Distance
   j. Cosine Distance
   k. Earth Movers Distance
   l. Pearson Correlation Coefficient
2. Index the records based on the metric values.

Note:

Name your file as Reg. No _ E3.doc eg., 16BCE1111_E3.doc