## Solution to Ques-2

After importing u1.base from the given dataset (movielens).

* Code\_1.m import data and make vectors from the dataset to form a matrix having rows as users and columns as movies being rated. Stores out comes as ratings matrix(user,items).
* difference.m is a function used to calculate different distance metrics used for similarity measure.
* Code\_3.m computes different distance vectors for each user with rest of users and stores sorted results for each user in to separate csv files.(path=\CF\_Task\MH\_DIST for manhattan distance, path=\CF\_Task\COS\_DIST for cosine distance)
* Code\_4.m computes k nearest neighbour after importing distance vector CSVs and finally computes intersection matrix to calculate length of match (like for k=1 user1 matches 4,6,7 but length of intersection matrix with user7 is large than for k=1 user7 is having best match in choices with user1)
* After this i was hoping to predict ratings for each user and calculate MAE and then mean.