**Rajlakshmi**

**Find the average number of mutual friends in the dataset and show the friends who have mutual friends above the average number of mutual friends.**

* Used the existing Map code which is used to map mutual friends.
* Modified the Reduce code logic to add variables and methods to calculate average of Mutual Friends.
* Declared HashMap **mutualFriendCount** to store the total number of mutual friends for each pair.
* Used cleanup method to calculate the average number of mutual friends. This method is called once after all values for a key have been processed.
* Included two variables to **totalPairs, totalMutualFriends** where:
* **totalPairs** pairs which have mutual friends, ignoring the Pairs with 0 mutual friends.
* **totalMutualFriend** to calculate the summation of mutual friends associated with each pair.
* Defined **averageMutualFriends = totalMutualFriends / totalPairs**
* Used **For loop** to Iterate over **mutualFriendCount hashmap< key ,value >** (Friend-pair, Mutual\_Friends\_Count) to display the pairs which have mutual friends greater than average**.**

Jar file used mfavg.jar