Assignment 2 Part 1

Friend Recommendation using Mutual Friends

Algorithm description:

- Identify Possible Friends: For every user in the dataset, search for possible friends by looking at the friends of their existing friends. Exclude the user's current friends and the user themselves from this list.
- 2. Focus on Target Users: Narrow down the process to the 10 target users for whom friend recommendations are needed.
- 3. Count Shared Friends: For each target user, calculate the number of mutual friends they have with their potential friends.
- 4. Combine Potential Friend Data: Gather the mutual friend counts for each target user and their possible friends into a unified list.
- 5. Rank and Choose Top 10: Sort the potential friends for each target user by the mutual friend count in descending order and select the top 10.
- 6. Present Recommendations: Display the final results in an organized manner.

Output: