ITI1120D – Assignment 2
(100 points)

Purpose:

To allow you to exercise with a logical thinking process to formulate algorithms, and to implement the algorithms using the Python Programming Language. The logic will include but is not limited to: lists, control, tuples, social graphs. This is an individual assignment.
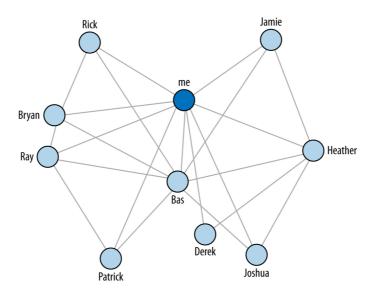
Questions:

Write a Python program for each of the following:

The following is a social network graph. Each edge (link) in the graph represents a friendship between the involved people. You are to write a python program that will store the relations between the people involved in this social network somehow. You are also going to print the following:

- A list of all friends of each person in the network (15 points).
- A list of all friends of friends of each person in the network. (15 points)
- The person(s) with the largest number of friends. (15 points)
- The person(s) with the minimum number of friends. (15 points)
- The average number of friends in the network. (15 points)
- All person(s) who have more than 4 friends. (15 points)
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10 points are awarded for a professional evaluation of your submission.