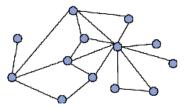
Tutorial 04

Social Network Analysis

Note Students can submit python code with output screen or hand solution as submission

Question1:

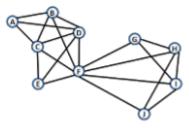
Compute score (u, v) for all edges. Remove the edges with low score. And also predict the links between disconnected nodes in future. (Use Katz method to calculate the similarity score of the nodes)



Question 2:

For the figure below:

- a) Find out the maximum clique (show all the steps)
- b) Find overlapping communities using Clique Percolation Method for cliques of size 4.



Question3:

For the given graph,

- a) Find nodes which are structurally equivalent nodes.
- b) Calculate the modularity of the given network and detect the communities

