CSC 641 Network Science, Fall 2019
Assignment 2 (Take Home: Due: Oct. 15, 2019: 7.30 PM)   **Total: 100 pts**

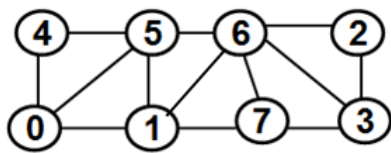<u>Hardcopy (Neatly written or typed), due in Class</u>

For the graph given below (show all the work in detail):
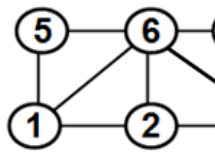(1 - 15 pts) Determine the spectral radius ratio for node degree.
(2 - 25 pts) Determine the algebraic connectivity of the graph.
(3 - 30 pts) Determine the Estrada index for protein folding for the graph assigned to you as well as determine the folding effectiveness.
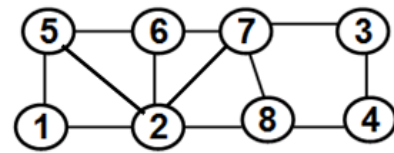(4 - 30 pts) Determine the bipartivity index of the graph, the two partitions and identify the frustrated edges, if any.
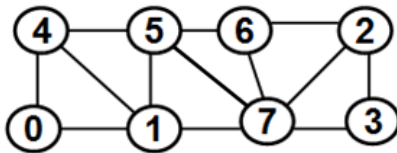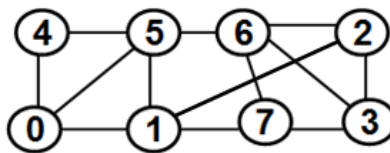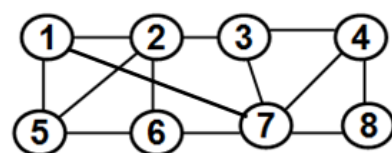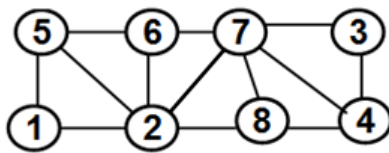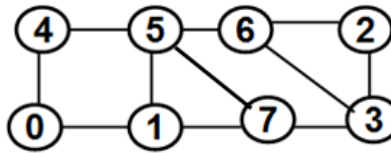

Champion, Jeremy

Deanes, Marcus
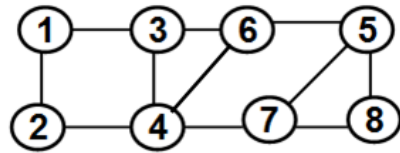

Evans, Rashad

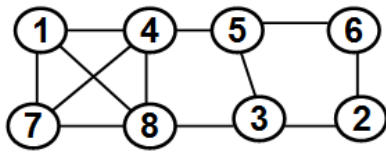Gammons, Allee

Gebre, Amanuel

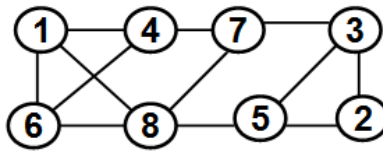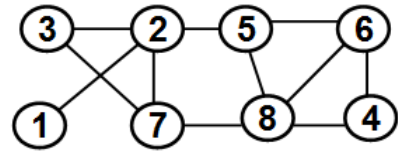Jones, Quincy

Lewis, Devario

Maduka, Chidiebere

Ukpebor, Augustine

Valliappan, Vallimanalan

Xu, Ran

Zhang, Xuecen