Homework 1:

1. Take an empty graph with only nodes.
2. Add edges to the graph randomly using Erdős–Rényi model till you get a complete graph
3. Calculate the Freemans formula for each step (after adding each edge)
4. Plot the results

Homework 2:

1. Solve the Questions from the slide "Network Centrality".

Homework 3:

1. Open the Drosophila Network already provided
2. Check the various properties of the network.
    a. Is the network scale free
    b. Can you find the important players of the network?

Homework 4:
1. Open the drosophila network
2. Run the MCODE algorithm
3. Run the MCL algorithm
    a. Compare the results
    b. Are there some filtering options
    c. Play with the settings and observe the influence.