SOLUTION TO QUESTION-1:

Dataset Chosen: email-Eu-core

Number of nodes: 1005
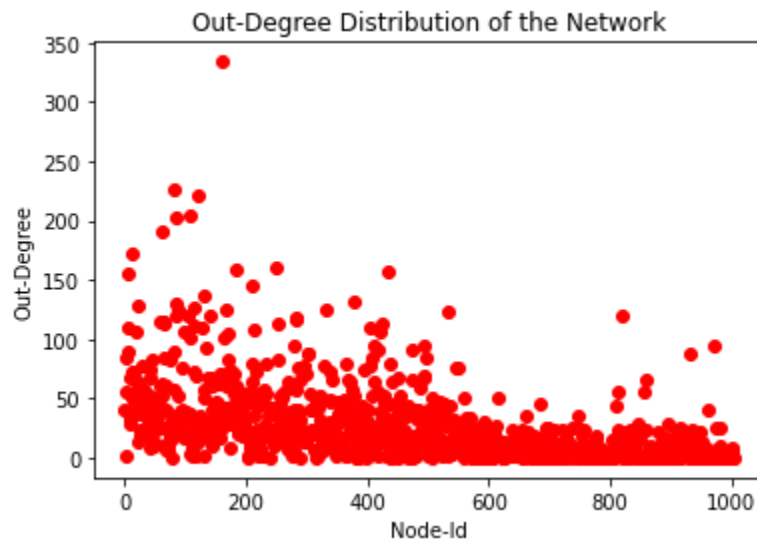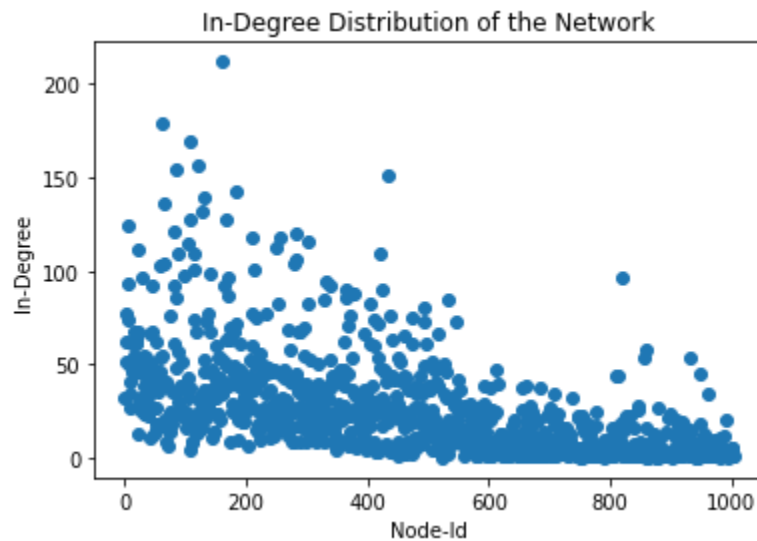Number of edges: 25571
Average in-degree: 25.443781094527363
Average out-degree: 25.443781094527363
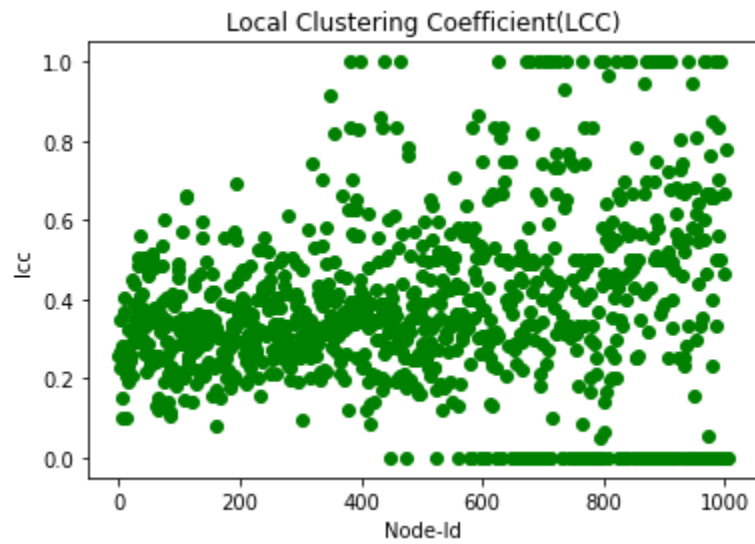Node with max in-degree: 160
Node with max out-degree: 160
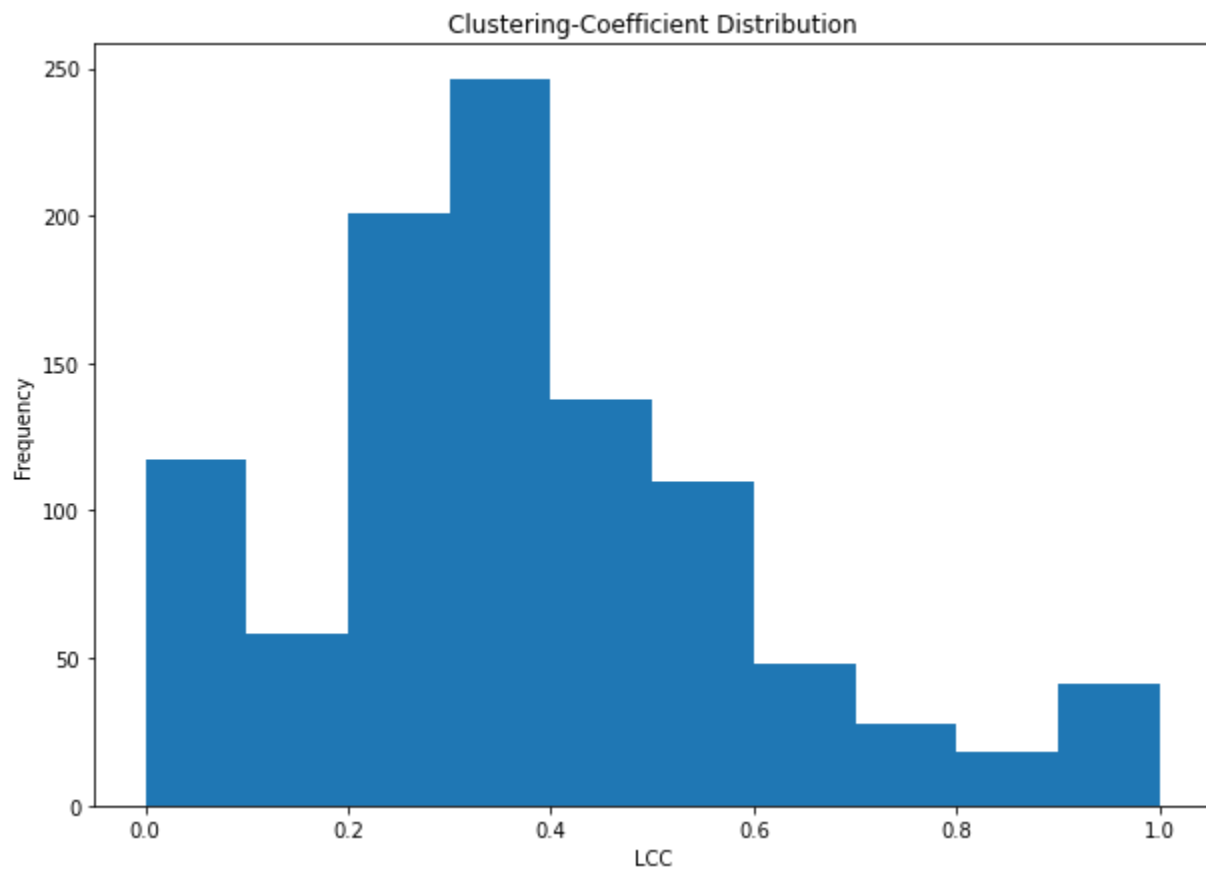The density of the graph: 0.025342411448732432
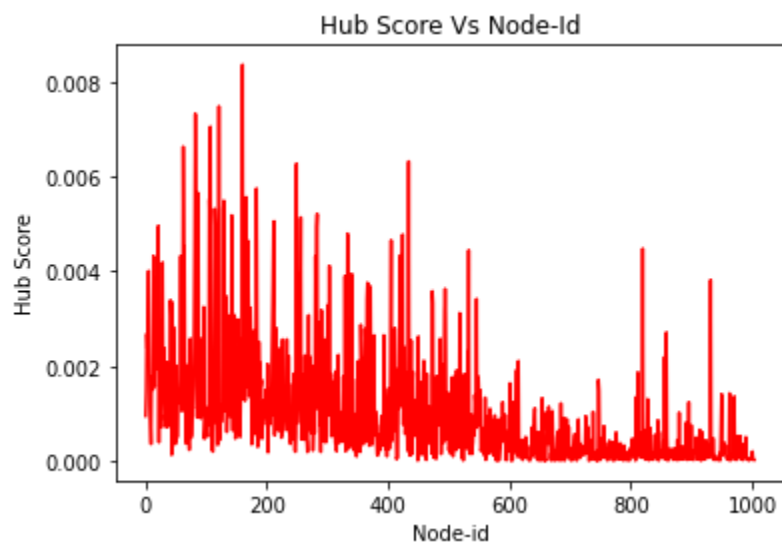
Degree distribution of the network:

Local clustering coefficient of each node
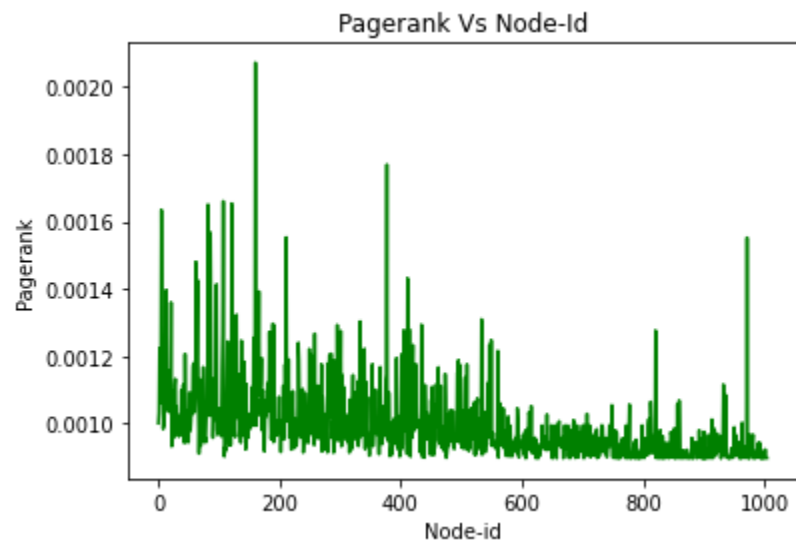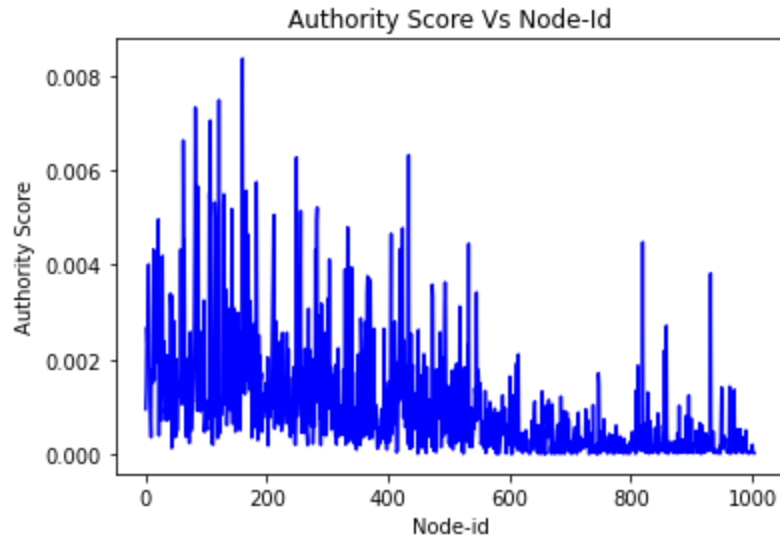

Clustering Coefficient Distribution

SOLUTION TO QUESTION-2:

Pagerank Vs Node-Id

Hub Score Vs Node-Id

Authority Score Vs Node-Id

It is observed that nodes with higher pagerank scores happen to have higher authority and hub scores. In our graph, nodes with high pagerank score are not only good authorities as expected but also good hubs.