1. Define Hubs and Authorities? Explain Authority Update Rule and Hub Update Rule with an example? Page 403
2. Discuss the PageRank algorithm or page rank update rule with an example

[(1175) Centrality Measures - 20 PageRank Introduction - YouTube](https://www.youtube.com/watch?v=fo3t-TF46II&t=526s)

1. Discuss the problem for basic PageRank and explain what is scaled PageRank?

[(1175) Centrality Measures - 23 Scaled PageRank - Introduction - YouTube](https://www.youtube.com/watch?v=s1WK7hvIjbw)

[(1175) Centrality Measures - 24 Scaled PageRank and Modern Web Search - YouTube](https://www.youtube.com/watch?v=Om-yqjbob8U)

1. Explain simple herding experiment in information cascade?
2. Explain Bayes model of decision making under uncertainty with an example?
3. Discuss Diffusion in networks and modelling diffusion through a network.
4. Explain knowledge, thresholds and collective actions in cascading behaviour in networks.
5. Discuss six degrees of separations in social network.
6. Discuss structure and randomness in networks.
7. Explain cluster and Cascading behaviour in social network

[(1175) Cascade and Clusters - YouTube](https://www.youtube.com/watch?v=fj3uamMA1Iw)

1. Explain the decentralized search, core-periphery structures and difficulties

in decentralized search.

[(1175) Decentralized Search - I - YouTube](https://www.youtube.com/watch?v=vfENtwdv6Yk)

1. Explain the Watts-Strogatz model with an example

[(1175) Social Network Models - 23 Watts and Strogatz Model for Small World Networks - 1 - YouTube](https://www.youtube.com/watch?v=4ENtKN96GmE)

[(1175) Decentralized Search - II - YouTube](https://www.youtube.com/watch?v=2GaxTlTjOEs)

1. **Exercise problems on hubs and Authority and Page rank.**