COMM 645, LAB 1: DUE SEPTEMBER 12, 2012

Please e-mail your lab to comm645@ognyanova.net before 2pm on Wednesday.

In this assignment you will have to demonstrate your understanding of network formats and representation. The tasks you will have to perform involve the following two small networks:

Figure 1: Network 1 (actor-actor adjacency network)

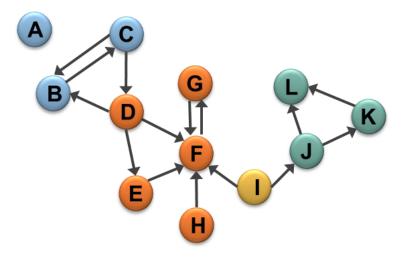
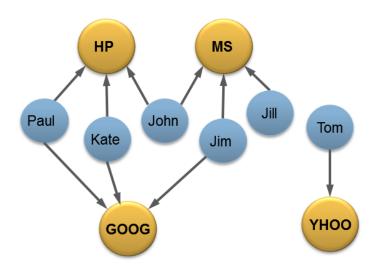


Figure 2: Network 2 (actor-event affiliation network)



2.	Describe Network 1 in a node list format:
3.	Describe Network 1 in a matrix format:
4.	Describe Network 2 in an edge list format:
5.	Describe Network 2 in a node list format:
6.	Describe Network 2 in a matrix format:
7.	If the matrix representing Network 2 is called M, calculate the following:
	a. M ^T (M transposed)
	b. M x M ^T (matrix multiplication of M and M transposed)
	c. $M^T \times M$ (matrix multiplication of M transposed and M)

1. Describe **Network 1** in an edge list format: