HW #4

Homework exercises should be done individually (You should write the solution by yourself). Solutions must be prepared in python programming language and submitted electronically before **11.59 pm on Sunday, January 3**. No credit will be given to solutions obtained verbatim from the Internet or other sources. **To get full credit for each question, you need to provide a brief explanation of your codes and the efficiency analysis with comments.**

2. Given a weighted undirected graph G where all the weights are fixed as 1, devise an algorithm that outputs a minimum spanning tree of G. Since all the weights are just 1, the algorithm is assumed to take an nxn adjacency matrix as input. The running time of your algorithm should be better than the running time of Kruskal and Prim.