Assignment #6

CSD201

A. Requirements:

Implement class Graph as follows:

* Holding V, E
* Holding adjacency list, adjacency matrix, incident matrix
* At least two constructors
* Load(file\_path)
* Convert1() // from adjacency matrix to incident matrix
* Convert2() // from adjacency matrix to adjacency list
* BFS(vertex X)
* DFS(vertex X)
* Findpath(vertex X, vertex Y) // use Dijkstra algorithm to find the shortest path from X to Y
* MST1(vertex X) // Prim-Janik algorithm
* MST2() // Kruskal algorithm
* Euler(vertex X) // construct Euler cycle from vertex X
* The main function calling all algorithms above.

B. Submission

* A folder containing code
* A member list with particular works.
* Deadline 1: before 23:59 today 🡺 maximum 12 pts
* Deadline 2: before 23:59, March 5 (Sunday) 🡺 maximum 10pts