Instructions to run the file

Compile and Run all the files provided. The main class is in Main.java. Alternatively, a jar file is created, so using “java -jar CZ2001Project2.jar” on the command line is another way to run. A start.bat file is included to run the jar file using a Windows Operating System.

When prompted, enter graph, hospital and nodes files and the value of k. The files should be in .txt format.

Text

Description automatically generatedText

Description automatically generated

The **nodes** file allows users to decide which nodes to print its shortest distance(s) and path(s). This file follows the same format as hospitals.txt (# num of nodes, followed by the nodes to print). allNodes.txt is included to print all nodes (or just include only the string   
“all” in a text file to print all nodes).

The program will read in the input after typing of the file name. The program will first read the graph filename, followed by hospital and finally the node. The program will then omit hospitals/nodes that are not found in the graph.

The output can be found in BFS.txt and ModifiedBFS.txt. The program will also print the number of iterations and time taken to execute.

Some test cases are included.

If there are any issues faced, feel free to contact Tan Jun Hong (b190013@e.ntu.edu.sg)