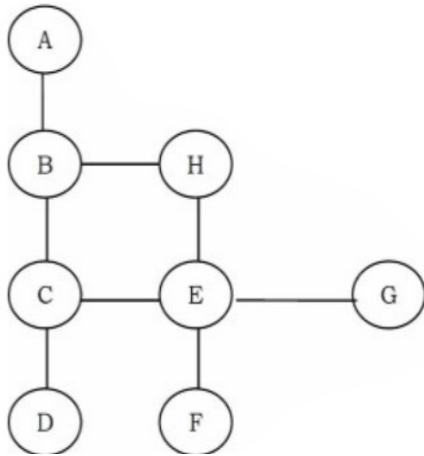# Data Structures Lab

[08-Mar-2024]

Note: The algorithms for the following graph problems should be implemented using the adjacency list representation of the input graph.

1. Implement the iterative Depth first search algorithm. **[5]**

Test Case:

2. Given an undirected graph G= (V, E). Implement an algorithm to compute the number of components in a graph. Also, you have to print the component number of any given vertex v in V. **[5]**