

Topic related to Graph Discussed in the LAB

- 1. Implement Graph Using Adjacency List:** Write a class to implement a basic graph using an adjacency list with methods to add vertices and edges. [Read the Idea: [link-edges](#), [link-vertices](#)]
- 2. Breadth-First Search (BFS):** Write a function to perform BFS on a graph from a given start vertex. [[Read the Idea](#)]
- 3. Depth-First Search (DFS):** Write a function to perform DFS on a graph from a given start vertex. [[Read the Idea](#)]
- 4. Detect Cycle in an Undirected Graph:** Write a function to detect if there is a cycle in an undirected graph. [[Read the Idea](#)]
- 5. Connected Components in an Undirected Graph:** Write a function to find the number of connected components in an undirected graph. [[Read the Idea](#)]
- 6. Find Shortest Paths in a graph:** Write a function to find Shortest Paths from Source to all Vertices using Dijkstra's Algorithm. [[Read the Idea](#)]
- 7. Find Shortest Paths in a graph:** Write a function to find Shortest Paths from Source to all Vertices using Floyd Warshall Algorithm. [[Read the Idea](#)]