LAB 11 Marks - 10

Question:

1.Implement Adjacency Matrix for an undirected Non-weighted Graph.

2. Implement Bfs traversal .

Sample Input and Output

Sample Input 1:

Number of vertices: 5

Edges: (0, 1), (0, 4), (1, 2), (1, 3), (1, 4), (2, 3), (3, 4)

Adjacency Matrix:

01001

10111

01010

01101

11010

Start vertex for BFS: 0

BFS Traversal starting from vertex 0:

[0, 1, 4, 2, 3]

Sample Input 2:

Number of vertices: 4

Edges: (0, 1), (0, 2), (1, 2), (2, 3)

Adjacency Matrix:

0110

1010

1101

0010

Start vertex for BFS: 1

BFS Traversal starting from vertex 1:

[1, 0, 2, 3]