DSA Lab 12: Graph Traversals

**Data Structures and Algorithms Lab** 

12. Graph Traversal Algorithms

Subject Code: 17ESCP201 **Lab No:** 12 Semester: |||

Batch: C1&C2 Date: 09 Nov 2017

**Question: Implementing DFS and BFS** 

Objective: Understanding breadth and depth wise graph traversals

As important are food and air to us, so important are Depth First Search (DFS) and Breadth

First Search (BFS) in graph algorithms.

Having known the concept and why tree traversals do not work on graphs, let us implement

both the algorithms. A starter code is provided to you. The code will have to be completed

and tested through discussion and examples.

**Quick Recap:** 

Depth-first search is an algorithm for traversing or searching tree or graph data structures.

One starts at the root and explores as far as possible along each branch before

backtracking.

Data structure: Graph

Class: Search algorithm

Breadth-first search is an algorithm for traversing or searching tree or graph data structures.

It starts at the tree root and explores the neighbor nodes first, before moving to the next

level neighbors.

Data structure: Graph

Class: Search algorithm

\*\* Happy Coding \*\*

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