Laboratory Nr. 4

Subject: Empirical analysis of algorithms: Depth First Search (DFS), Breadth First Search(BFS)

**BASIC TASK**:

1 Implement the algorithms listed above in a programming language

2 Establish the properties of the input data against which the analysis is performed

3 Choose metrics for comparing algorithms

4 Perform empirical analysis of the proposed algorithms

5 Make a graphical presentation of the data obtained

6 Make a conclusion on the work done.

Links where you can find theory about the alghoritms:

1. <https://www.geeksforgeeks.org/breadth-first-search-or-bfs-for-a-graph/>
2. <https://www.geeksforgeeks.org/depth-first-search-or-dfs-for-a-graph/>
3. <https://www.youtube.com/watch?v=zaBhtODEL0w>