**Date**: 07/09/2021

Practical 3 Extra:

2CSDE85 – Artificial Intelligence

Name: Shrey Viradiya

Roll No: 18BCE259

Aim:

Comparison Table: BFS vs DFS

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Input** | **BFS Time** | **BFS Steps** | **DFS Time** | **DFS Steps** | **DFS Depth Limit** |
| [[0, 1, 3],  [4, 2, 6],  [7, 5, 8]] | 6.67 ms | 4 | 29.4 ms | 4 | 10 |
| [[4, 3, 6],  [2, 0, 1],  [7, 5, 8]] | 29.4 ms | 10 | 348 ms | 14 | 15 |
| [[0, 1, 2],  [4, 5, 3],  [7, 8, 6]] | 6.41 ms | 4 | 877 ms | 18 | 20 |
| [[1, 3, 2],  [4, 5, 0],  [7, 8, 6]] | Taking too long | - | - | Empty Stack | 20 |
| [[1, 3, 2],  [4, 5, 0],  [7, 8, 6]] | Taking too long | - | Taking too long | - | 30 |