A black background with blue text

Description automatically generated

**Lab Report - 03**

**Course Code – CSE366**

**Section – 02**

**Submitted To:** Dr Raihan Ul Islam,

Associate Professor,

Department of Computer Science and Engineering,

East West University

**Submitted By:**

Fabiha Tabassum

ID: 2021-1-60-117

Date: 15-12-2024

**Performance Comparison Table**

|  |  |  |  |
| --- | --- | --- | --- |
| Maze Size | DFS  (Time – Path) | BFS (Time – Path) | UCS  (Time – Path) |
| Tiny Maze | 0.00033- 10 | 0.00031 - 8 | 0.00037 - 8 |
| Medium Maze | 0.00197 - 130 | 0.00322 - 68 | 0.00556 - 68 |
| Big Mage | 0.00461 - 210 | 0.00700 - 210 | 0.02277 - 210 |

For Tiny maze, we can see BFS has the shortest time and path but we see UCS have the shortest path and , DFS has the shortest time. For Medium maze, DFS has the shortest time and shortest path in comparison to BFS and UCS. In the case of Big maze, all the algorithms have the same path length but DFS has the shortest time.