Report

LAB TASK 3

Course Title: Artificial Intelligence

Course Code: CSE366

Section: 02

Submission Date: 16 December 2024

Performance Comparison Table

Maze Size	DFS (Time – Path)	BFS (Time – Path)	UCS (Time – Path)
Tiny Maze	0.0181- 10	0.0148 - 8	0.0094 - 8
Medium Maze	0.0128 -1 30	0.0169 - 68	0.0239 - 68
Big Mage	0.0146 - 210	0.0380 - 210	0.0856 - 210

For Tiny maze, we can see UCS has the shortest time and Shortest path.

For Medium maze, DFS has the shortest time but BFS and UCS have the Shortest path.

In the case of Big maze, all the algorithms have the same path length but DFS has the shortest time.