

National University Of Computer and Emerging Sciences



AL2002 – Artificial Intelligence Lab Lab Task # 05

Note:

- Plagiarism will not be tolerated!!
- Use comments wherever applicable.

Problem: 1 - Optimal Route Planning

You are tasked with developing a program to assist drivers in planning their routes across cities in India efficiently. To achieve this, you have been provided with a CSV file containing the distances between various cities in India.

Your program should read this CSV file and utilize the information to suggest the optimal path for a driver based on their input of the source and destination city.

Instructions:

- 1. Read the provided CSV file containing cities in India and their distances between them.
- 2. Prompt the user to input their source and destination city.
- Utilizing the data from the CSV file, determine the optimal path using A* searching algorithm for the driver to minimize their travel distance.
- 4. Display the recommended path of cities to the user.
- 5. Additionally, calculate and display the total distance that will be covered by the driver from the source to the destination city.

Ensure your program is user-friendly and provides clear instructions to the user.