

**Computer Engineering Department, S V N I T, Surat.**

**B Tech – V semester**

**Course :Artificial Intelligence and Machine learning(CS3)**

**Lab Assignment 6**

Implement A\* algorithm and AO\* algorithm in python without using existing libraries.

Consider n cities and generate distance between each pair of city with the help of random function. You can provide range in random number generating function.

Input/Output of the code:

When user enters 2 cities, program should provide the shorter path between the two cities using both algorithms separately.

Compare the complexity of both algorithms for same set of input.