National Institute of Technology Calicut Department of Computer Science and Engineering

Winter Semester 2020 – 2021 CS3093D: Networks Laboratory

Experiment – 05

Implement the following routing algorithms in C language:

- 1) Distance Vector Routing (DVR) algorithm using Bellman-Ford
- 2) Link State Algorithm using Dijkstra's

Input

n m u1 v1 w1

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um vm wm

'n' is the number of nodes and 'm' is the number of links. Each edge i is described in it's own line where ui and vi are the source and destination vertices respectively. wi gives the weight for the i-th link.

Output

Contains the distance and predecesor vectors for each vertex.

Deadline : 01, Mar. '21 (1.00 pm)

Evaluation mode : Program will be given based on the experiment