The LNM Institute of Information Technology, Jaipur

Computer Networks Lab

Lab Assignment 6

Objective: Implementation of Routing Algorithm

Task 1: Routing Algorithm: Distance Vector Routing

Implement distance vector routing algorithm in the topology defined in task 1 of Lab 5.

- 1. Initialization: each node knows only distance vector with its immediate neighbours
- 2. **Sharing**: each node shares the distance vector table with their neighbours.
 - 1. Create R_PDU as packet type for distance vector exchange between nodes
- 3. **Updating**: calculate the distance for each destination using Bellman-Ford algorithm and update the routing table, add a new node, modify the existing record if needed.

