

Computer Networks Lab

Assignment - 7

Task 1: Network Layer: Distance Vector Routing

1. Implement distance vector routing in the topology defined in Lab 6.
2. [Distance Vector routing] Update network layer
 - i. Initialization: each node knows only distance vector with its immediate neighbours
 - ii. Sharing: each node shares the distance vector table with their neighbors.
 - a. Create R_PDU as packet type for distance vector exchange between nodes
 - iii. 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.

