

The LNM Institute of Information Technology, Jaipur
Computer Networks Lab
Lab Assignment 3

Tasks 1: Behavioural Design: Update behavioural design of network implemented in Lab 2: Task 2 (Protocol Design and Simulation) with following functionality:

- a) Network Layer: define *number of packets* as state variable (Hint: TicToc Tutorial: Step 3)
- b) Data-Link Layer: Include 10% packet loss at destination (Hint: TicToc Tutorial: Step 7)
- c) Data-Link Layer: Retransmission of packet if packet loss i.e. After receiving a data PDU, the destination sends an ACK PDU. If the ACK PDU does not reach the source before a certain time period, known as the timeout, the source sends the same data PDU again. The timeout event is reset after each data PDU transmission. (Hint: TicToc Tutorial: Step 8 and 9)