CSN-361: Computer Networks Laboratory
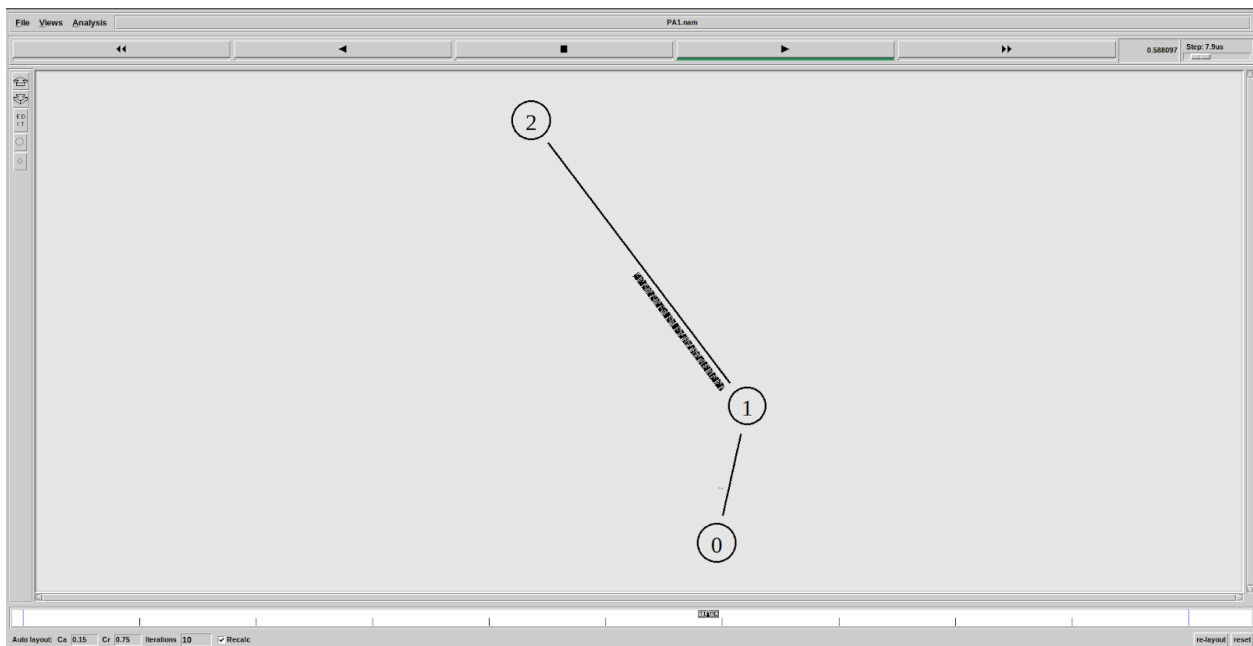
Lab Assignment (4)

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Problem Statement 1: Write a Network Simulator (NS2) code to simulate a three node network with duplex links among them as shown in figure. Show the topology using NAM. Study the variation in number of packets dropped with the variation of the queue size in the nodes and with the variation of the bandwidth of the links

Algorithm:
1. When queue size is reduced, more packets are dropped
2. If bandwidth is increased, packet dropped are lesser

Execution of .nam file for problem statement 1:

Problem Statement 2: Write a Network Simulator (NS2) code to simulate the transmission of ping messages over a network topology consisting of 6 nodes and find the number of packets dropped due to congestion. Study the variation in number of packets dropped with the variation of the queue size in the nodes and with the variation of the bandwidth of the links.

Algorithm:
1. When queue size is reduced, more packets are dropped
2. If bandwidth is increased, packet dropped are lesser

Execution of file "ping.tcl"

Execution of .nam file for ping.tcl