Computer Networks Laboratory CSN-361 Assignment 1 (L4)

Name: Twarit Waikar Roll.no: 17114074

Class: B.Tech CSE 3rd Year

Problem Statements

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

Question 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 the number of packets dropped with the variation of the queue size in the nodes and with the variation of the bandwidth of the links.

Algorithms and Data Structures Used

Question 1:

Connections exist such that they send data to and from nodes 0-1 and 0-2.

When queue size is reduced, more packets are dropped, and if the bandwidth is increased, packet dropped are lesser.

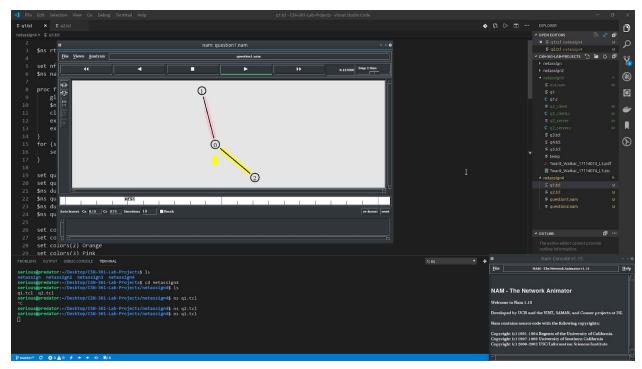
Question 2:

Connections exist such that they send data to and from nodes 0-4 and 5-1.

When queue size is reduced, more packets are dropped, while, if bandwidth is increased, packet dropped are less.

Snapshots

Question 1



Question 2:

