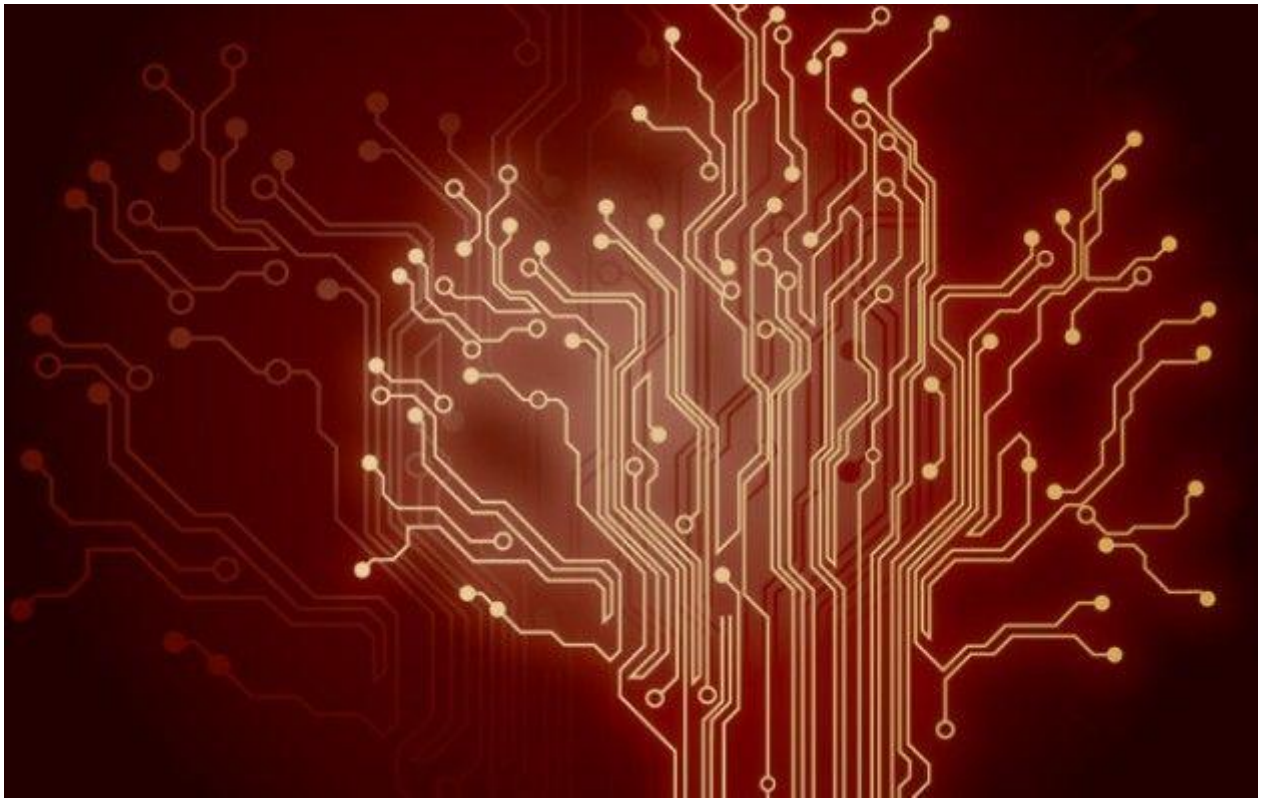
NETWORK LAB REPORT

CO3: Implement 1-persistent, non-persistent and p-persistent CSMA techniques.



Atanu Ghosh

BCSE-III (2019-2023) 5th sem, Section: A-1,

Roll: 001910501005, Date: 20/09/2021

ASSIGNMENT-2

Implement 1-persistent, non-persistent and p-persistent CSMA techniques.

PROBLEM STATEMENT

In this assignment, you have to implement 1-persistent, non-persistent and p-persistent CSMA techniques. Measure the performance parameters like throughput (i.e., average amount of data bits successfully transmitted per unit time) and forwarding delay (i.e., average end-to-end delay, including the queuing delay and the transmission delay) experienced by the CSMA frames (IEEE 802.3). Plot the comparison graphs for throughput and forwarding delay by varying p. State your observations on the impact of performance of different CSMA techniques.

.

DESIGN

SCHEMATIC DIAGRAM (as a part of DESIGN)

IMPLEMENTATION

SOURCE CODE STRUCTURE

TEST CASES

RESULTS

ANALYSIS and CONCLUSION

COMMENTS

This assignment has helped me in understanding the different data link layer protocols immensely, by researching and implementing them. It has also helped in understanding the demerits of a protocol, and how such demerits are overcome by other protocols.