Exp- 8

Consider a network topology of 8 nodes with CSMA channel, Create four (04) different applications with following instructions, and write detailed observations after successful execution with respect to different TCP & UDP flows.

Architecture: (only CBR flows)
Application 1: Create TCP flow between node 1 & 2
Application 2: Create UDP flow between node 3 & 4
Application 3: Create TCP flow between node 5 & 6
Application 4: Create UDP flow between node 7 & 8
Start and Stop time between Application 1 & 2 are different
Start and Stop time between Application 1 & 2 are same

Constant parameters:
Channel data rate – 50 Mbps
Channel Delay – 2 ms
Flow time interval for each application – 2 seconds
Packet size – 1024
Application data rate for first iteration 20 Mbps and for second iteration 30 Mbps
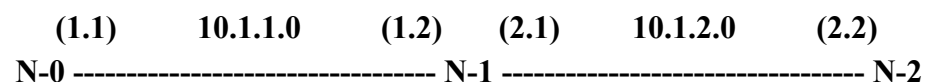
Output:
Clearly tabulate per flow performance (use flow monitors)
Write detailed observations of TCP & UDP traffic generation in-view of CBR Traffic, with influence of traffic generation time.

Exp- 9

Generate CBR flows between two different Networks

Design and Implementation Instructions:

```
        (1.1)        10.1.1.0        (1.2)     (2.1)        10.1.2.0        (2.2)
N-0 --------------------------------- N-1 --------------------------------- N-2
```

Design above topology with CSMA, and Route CBR-UDP traffic from Node-1 (N-0) to Node-3 (N-2) by using Ipv4GlobalRoutingHelper classes / libraries.
Consider all other required parameters in feasible ranges, generate trace file and verify required flows are generating or not.
Write detailed observations of traffic generation in-view of Routing parameters.