## Assignment - 9

Title: TCP connection in MS2 Problem Statement:
Study of any network simulation tools - to create a. network with 3 nodes and establish:

TCP connection between node and 1 guch that node 0 will send TCP packet to node 2 via node 1. Objectives:
To study of network simulation tools-NS.2.
To study of connection protocols such as Students will be able to implement TCP connection en network simulation tools such as NS2. Requirements: NS2, computer Simulation is the process of bearing by doing. Whenever there is something now in the world, we try to analyse it

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first by examining it and in the process
get to learn a lot of things. This
entire course is called as Simulation.

Metwork simulation is one of the types of simulation with which is used to simulate the networks such as in MANET'S.

VANET'S, etc. It provides simulation for routing and multicast protocols for both wired and wireless networks.

MS is licensed for tuse under version 2 of GNU and is popularly known as MS2. It is an object oriented; disente event driven simulator wirth written in C++ and Otal I tal.

NS2 can be used to implement network protocols such as a TCP and UDP UDP traffic source, behavior such as FTP, Telnet, web; CBR, NBR, router queve management met mechanism such as Drop Tail, RED and CBB, routing algorithm and many more. In NS2, Ett is used for detailed protocol implemention and Octl is used for the setup. The compti compiled Ctt objects are made available to Octl interpreter and in this way, the ready made Ctt objects can be

controlled from the OTel level.

To install MS2, we use the following command:

sudo apt-get install ns2

We also need to install Nam (Network Animator). It is an animation tool to graphically represent the network and packet traces.

sudo apt-get install nam

Conclusion:

Thus, put we have successfully installed and configured MS2 and implemented TCP on it.

