Lab number: 6

Lab Title : Ping

### Abstract:

### *Learned what ping was and what it could be used to test. Then learned about getting IP addresses as well as how to ping in Linux. A ping.tcl file was also ran to further convey what ping is and how it works, then the concept of round trip time (RTT) was discussed.*

### Aim objectives and goal:

*The goal is to get a better understanding of ping by testing related commands in Linux and observing the ping.tcl file in the simulator to see the results.*

### Observation/ Results and Discussion:

*I tested numerous commands in Linux such as using the ping command on a website and using the ping echo command. Then I observed the ping.tcl file in the simulator and noticed the ping requests being sent to and back from nodes. This is presumably so that the network can verify that the host can receive data by pinging it to see if it responds. Then I researched RTT and found out that it is how long a ping request can take to go from one node/host to another and back. RTT can be used to measure throughput by checking to see how long it takes for the ping request to finish, with longer ping times indicating a worser output, for example.*