

## Assignment 6

Read the documents of the NS3 simulator using the ns-3 [Tutorial](https://www.nsnam.org/docs/release/3.37/models/ns-3-model-library.pdf) and <https://www.nsnam.org/docs/release/3.37/models/ns-3-model-library.pdf>.

1. Run the C++ file `/ns-allinone-3.37/ns-3.37/examples/tutorial/seventh.cc` and output the size of the congestion window graph over time using Gnuplot.
1. Study the impact of channel properties on the performance of TCP protocol by changing the channel properties such as link delay and channel loss.
2. Familiarize the NS3 simulator by setting up the following dumbbell topology and measure the throughput, average delay, and packet loss ratio in the TCP communication between node 1 and node 4 for 100 seconds. And, output the size of the congestion window graph over the time using Gnuplot.

