**Computer Networks Lab Experiments**

# List and explain the basic networking commands & utilities available in the Linux OS.

1. Demonstrate some of the network layer tools ( cmds and zenmap).
2. Demonstrate broadcasting, multicasting, and bridging in a Local Area Network using ns-3.
3. Demonstrate Wi­fi and Mobile Ad­hoc topologies using ns­3.
4. Demonstrate Socket programming in TCP (TCP client-server programs).
5. Demonstrate Socket programming in UDP (UDP client-server programs).
6. Demonstrate the Transmission Control Protocol(TCP) Connection states, flags and flow control using wireshark tool.
7. Analyse HTTP packets using Wireshark tool, and understand the records returned by a DNS server.