# Simulation of Routing protocol

**AIM:** Write tcl script to simulate the routing protocols in wired networks

***Algorithm:***

1. Create 12 nodes and the links between the nodes as
   1. 0  8 1Mb 10 ms duplex link droptail
   2. 1  10 1Mb 10 ms duplex link droptail
   3. 0  9 1Mb 10 ms duplex link droptail
   4. 9  11 1Mb 10 ms duplex link droptail
   5. 10  11 1Mb 10 ms duplex link droptail
   6. 11  5 1Mb 10 ms duplex link droptail
2. Align all nodes properly
3. Setup a UDP connections over 0 and 5, 1 and 5 with flow id, type, packet size, rate, random fields.
4. Set different colors for different flows.
5. Use ***distance vector routing*** protocol.
6. Make links 11-5 and 7-6 down for 1 second.
7. Run the simulation for 5 seconds, and show the simulation in network animator and in trace file.

* Similarly write another tcl script to simulate ***link state routing*** protocol. Also show the flooding in the simulation.