Lab number: 5

Lab Title : Dynamic networks and creating output files for Xgraph

### Abstract:

### *Observed how dynamic routing in the example network redirected data with the DV routing protocol when the link between node 1 and 2 went down.*

### Aim objectives and goal:

*The goal is to become familiar with dynamic networks and also to create output files that can be used in the Xgraph software.*

### Observation/ Results and Discussion:

*To create the first dynamic network, I used the example provided as a base to work off of given the already present node orientation and dynamic routing. After modifying it to include the broken link, I observed it with both DV and LS protocols and noticed that the DV version sent the routing table to linked nodes whilst the LS version sent information to all the networks routers regarding connected links. I also noticed that the LS protocol seemed slightly faster, however it could just be me but I would say it is a superior protocol to the DV protocol.*

*In regards to the Xgraph output, I was unable to get any Xgraph window to appear despite me running the example provided with no changes. Traffic sources were recorded though and show up as files.*