- 1) Distance vector routing is easier to configure and requires less maintenance than link-state routing. DVR is designed to run on small networks in which case our project would run on 20 nodes therefore it would be a better option. In addition, DVR determines the next hop by the shortest path and could simply be measured. The only downside of DVR compared to link-state is that it takes a longer time to converge and create more traffic.
- 2) 2
- 3) Since DVR chooses the shortest path for each node if a node for the next-hop was not chosen it will still exist in the routing table. But, the spilt horizon with poison reverse allows the current node to find all the possible reverse paths.
- 4) If a packet is lost or corrupted in DVR, the routing will detect a failure and stop the sending packets. Once it is detected, the current node will return a message/update to its previous neighbors.
- 5) This would create lots of traffic and would not be able to update if there's a detection of failure. We can implement a way to delay the time to allow the packets to be sent.