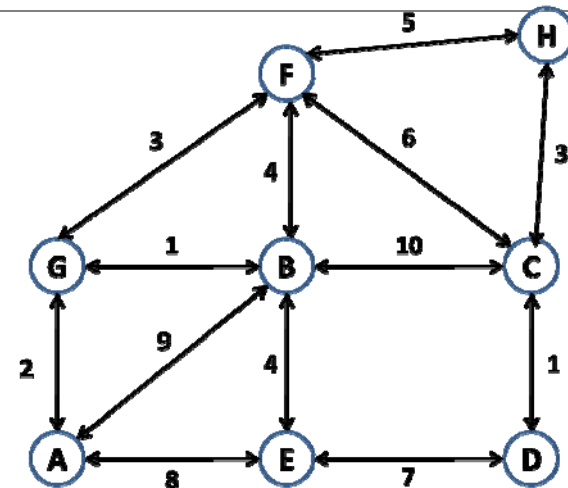


Week Two Question (10 marks)

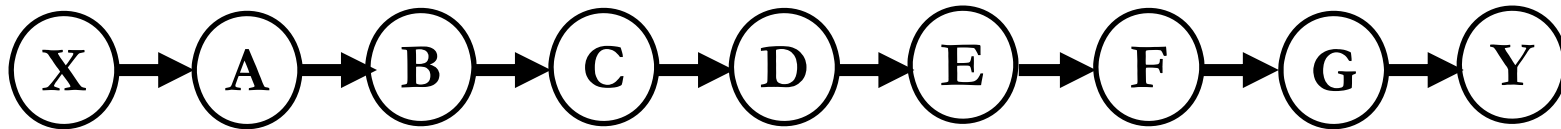
➤ What is the SPF Tree for RG under the network topology?



➤ Both Distance Vector Algorithm and Dijkstra's Algorithm are Next-hop routing algorithms. Protocols based on these two algorithms are majority in use. Discuss what do you think are the main reasons as Source routing is not popular in wired TCP/IP networks.

Week Three Question (10 marks)

- Explain what are the Local Repair procedures in ABR if node E moves out of the route with source node X and destination node Y?



- Design one routing algorithm which can be used in ABR to select the best stable route from all possible routes collected at Des. Brief explain the pros. and cons of this algorithm.

Week Four Question (10 marks)

1. In Selective Re-transmission scheme, show the potential errors in diagrams when $m = 2w - 1$ (w is the window size and m is the modulus sequence number)
2. Does Karn's algorithm have any drawback? If so, what scheme you can propose to improve it?