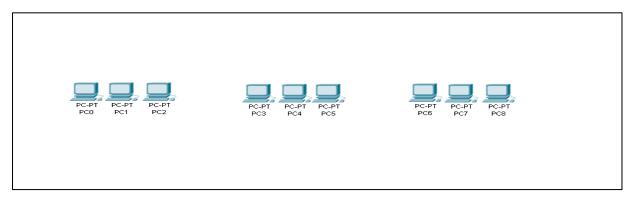
Roll. No: 10

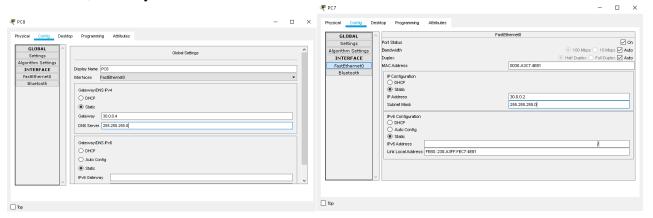
PRACTICAL NO: 3

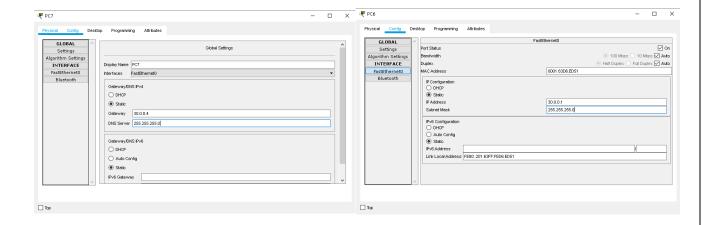
Aim - Create a network with three routers with BGP and each router associated network will have minimum three PC. Show connectivity.

1. Align 9 end-devices as follows:

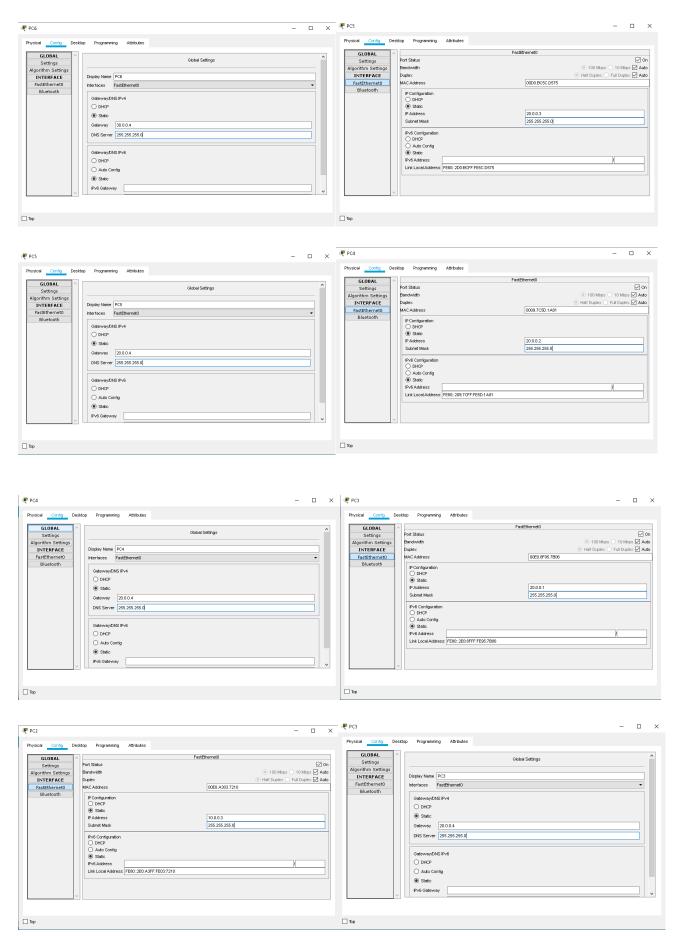


2. Set the DNS, Gateway and Fast Ethernet connections for all the PCs as follows:

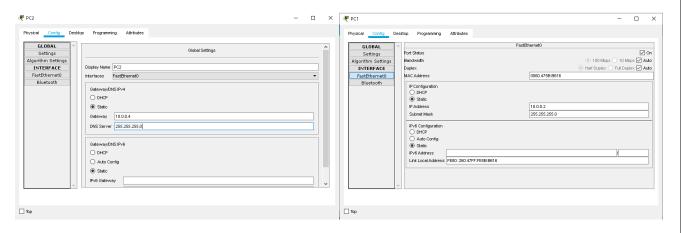


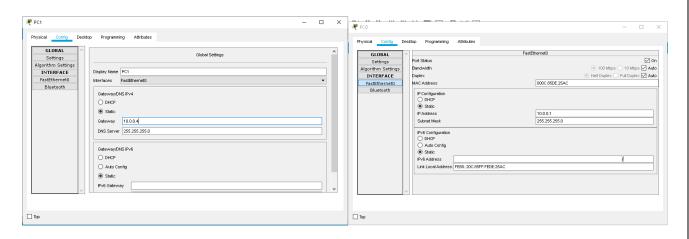


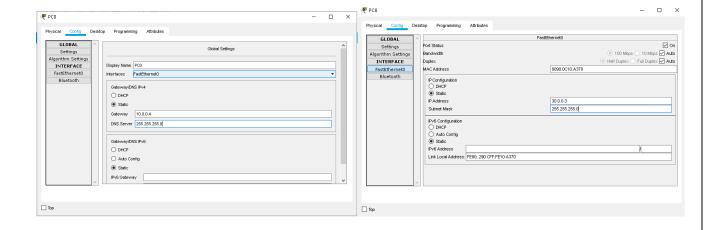
Roll. No: 10



Roll. No: 10

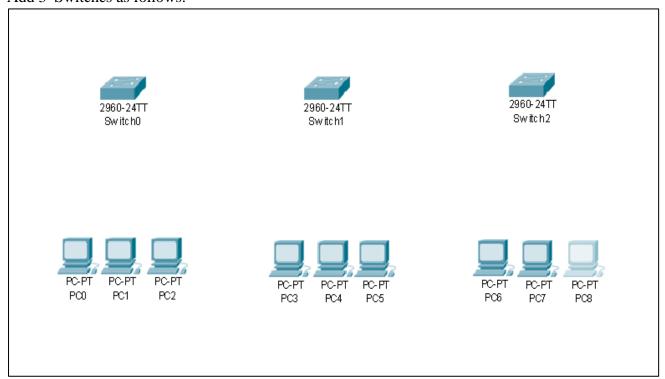




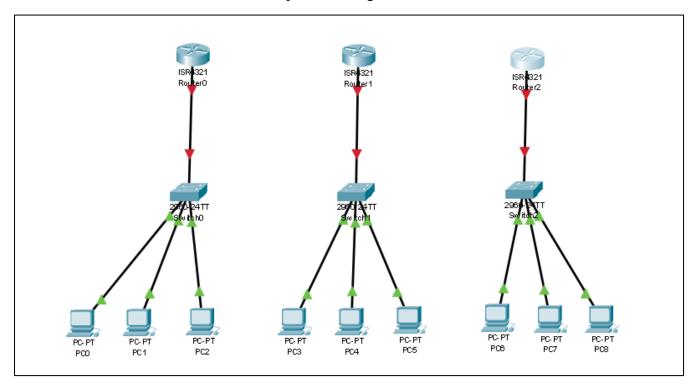


Roll. No: 10

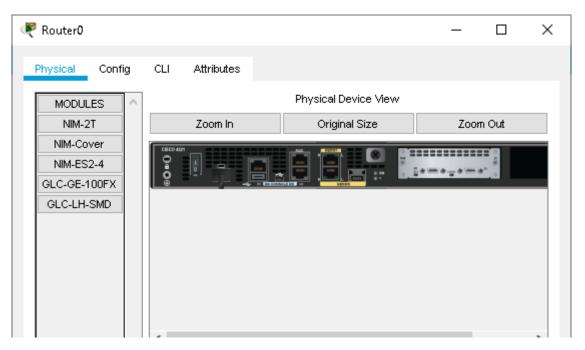
3. Add 3 Switches as follows:



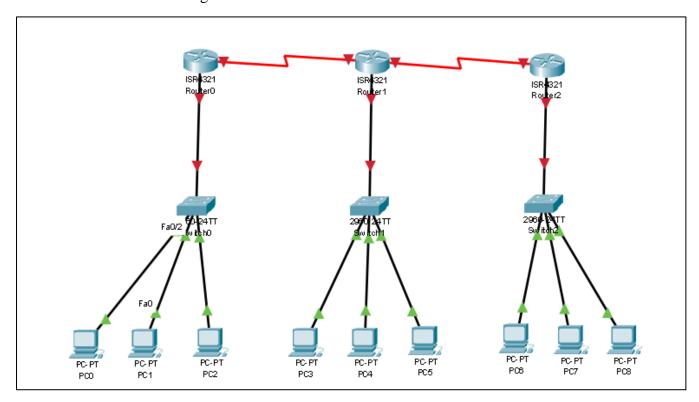
4. Add 3 Routers and connect all the components using Fast Ethernet connection as follows:



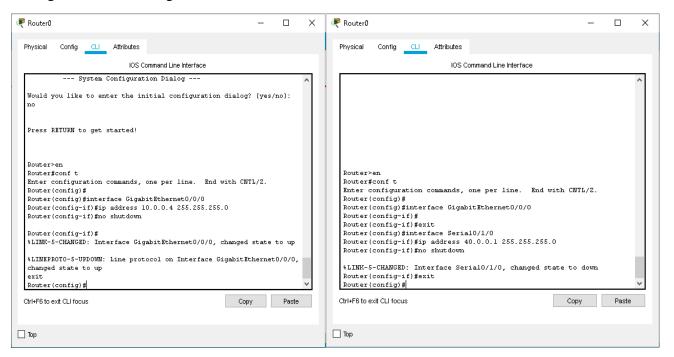
5. Power off each of the Routers and add the NIM-2T Module to all the Routers as follows:



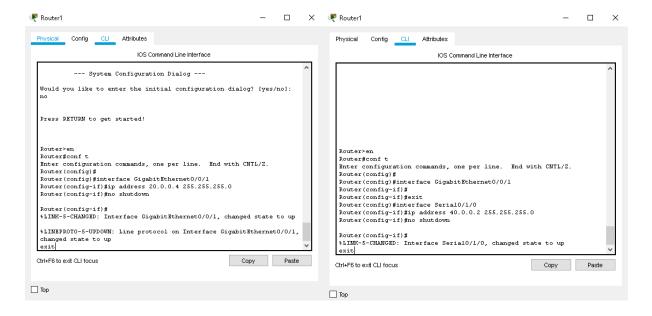
6. Connect the Routers using Serial DTE wires as shown:



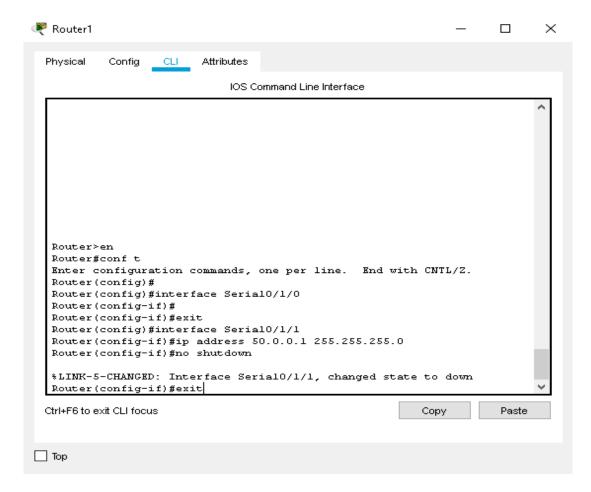
7. Configure Router 0 using the Command Line Interface as follows:



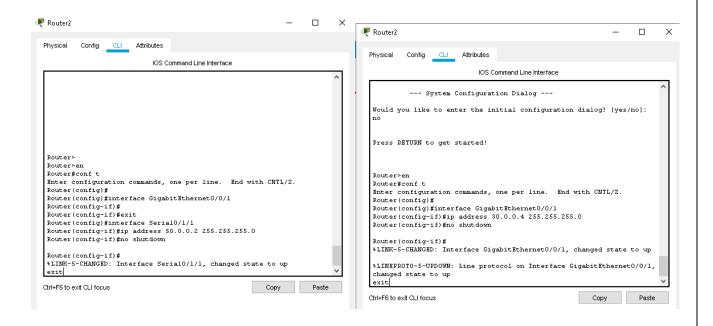
8. Configure Router 1 using the Command Line Interface as follows:



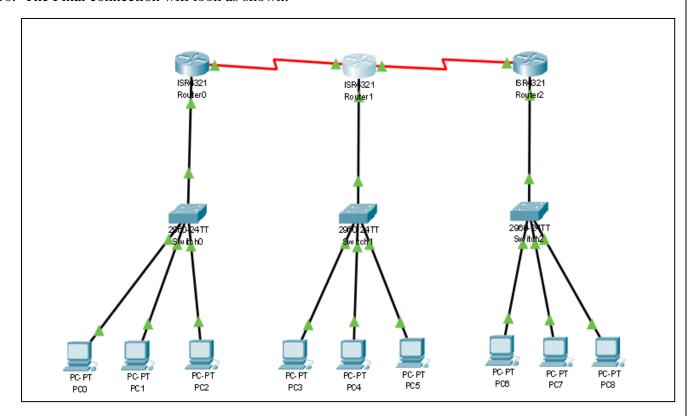
Roll. No: 10



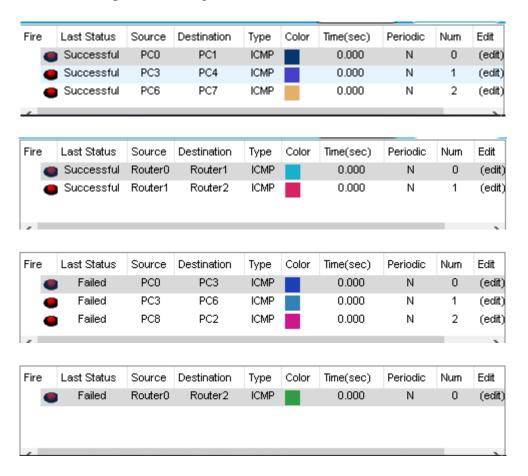
9. Configure Router 2 using the Command Line Interface as follows:



10. The Final connection will look as shown:

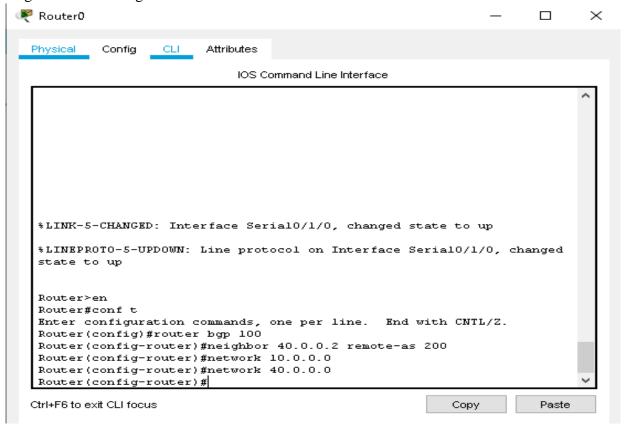


11. Note how intra-connection packet sending succeeds and inter-connection fails:

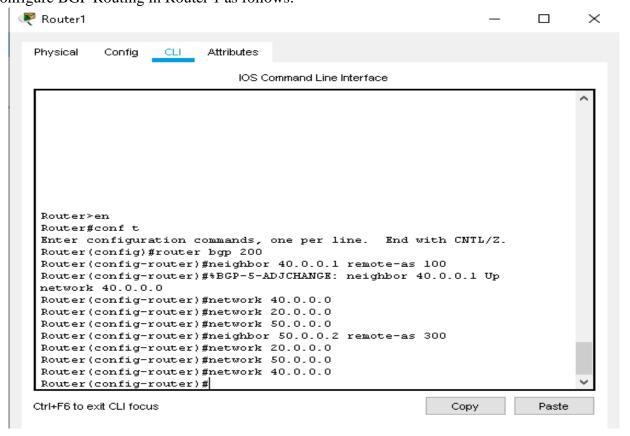


Roll. No: 10

12. Configure BGP Routing in Router 0 as follows:



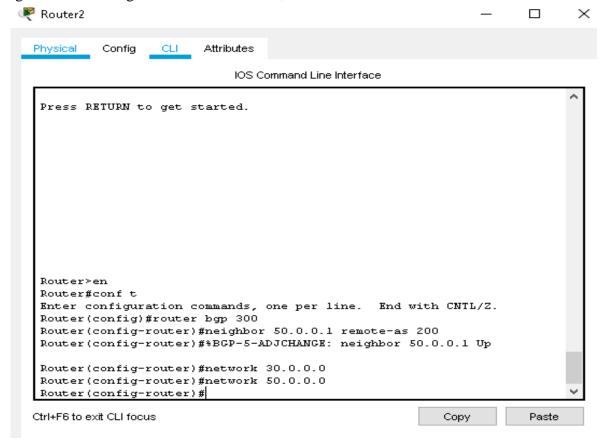
13. Configure BGP Routing in Router 1 as follows:



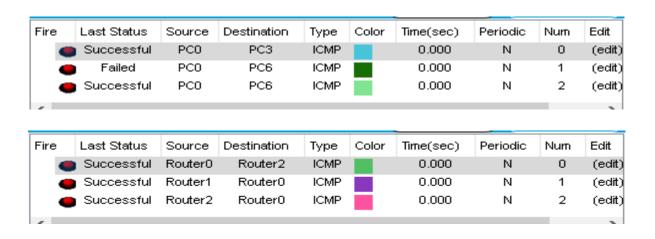
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Roll. No: 10

14. Configure BGP Routing in Router 2 as follows;

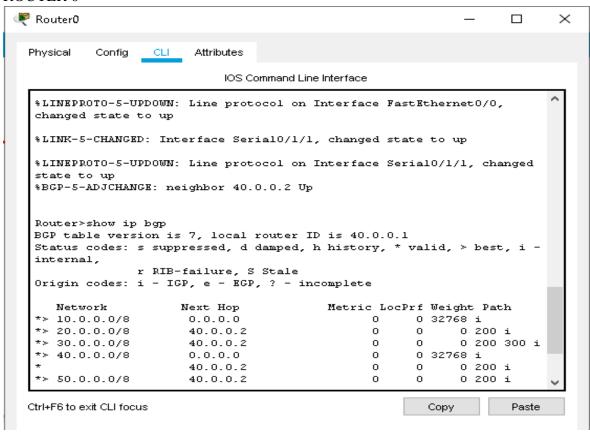


15. After successful BGP configuration, send packets over the inter-connected network:

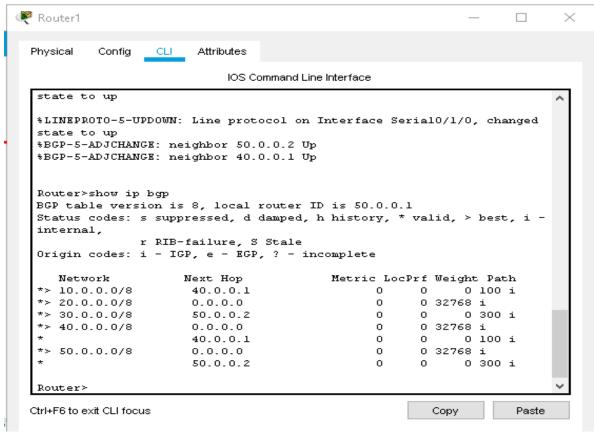


16. Finally, in every Router's CLI, type 'show ip route' to get the connection details:

ROUTER 0



ROUTER 1



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ROUTER 2

