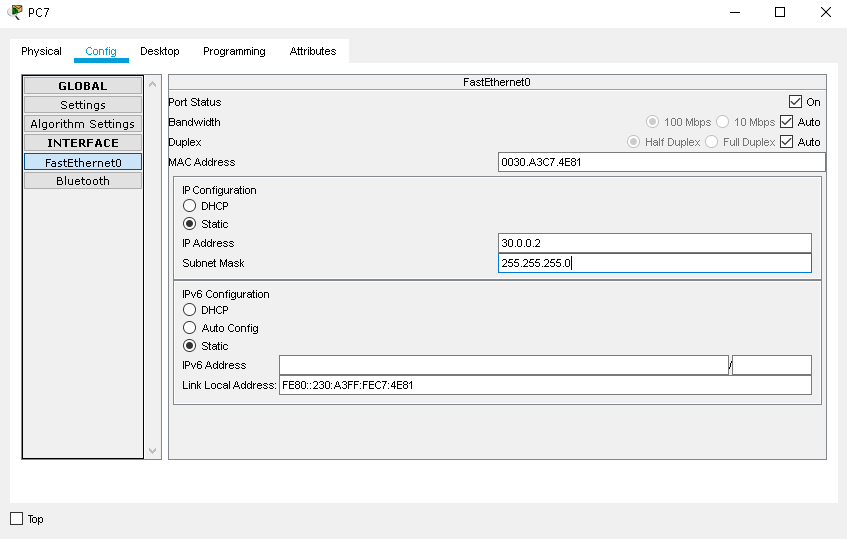
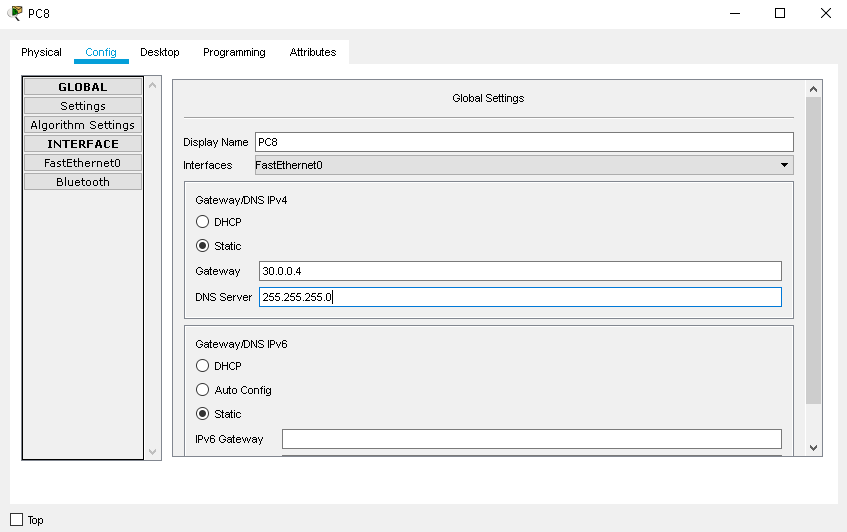
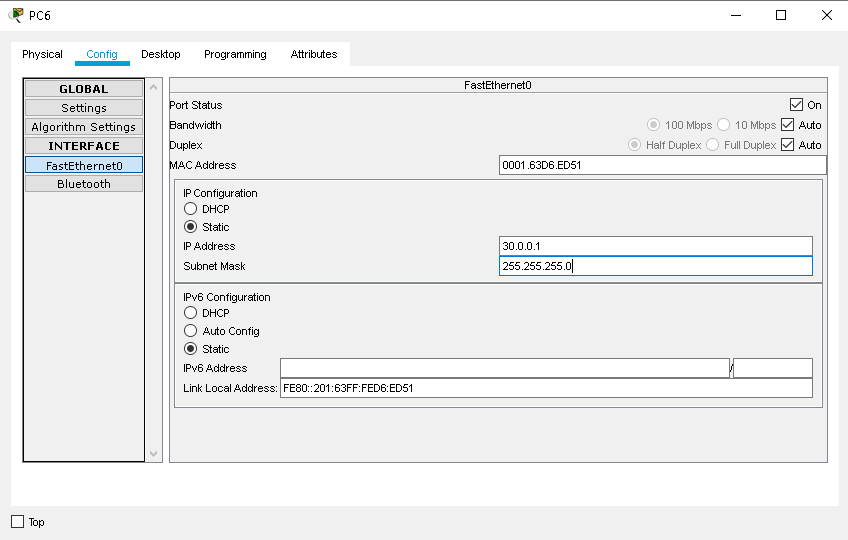
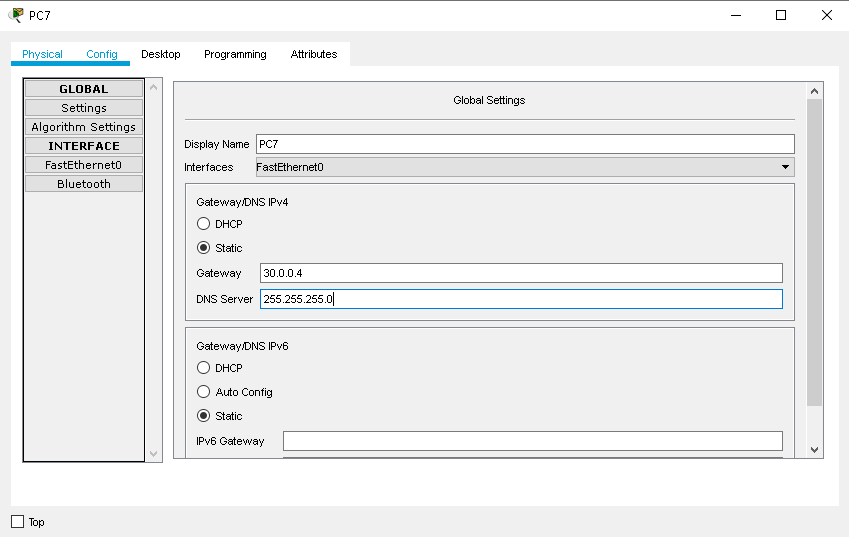
PRACTICAL 1

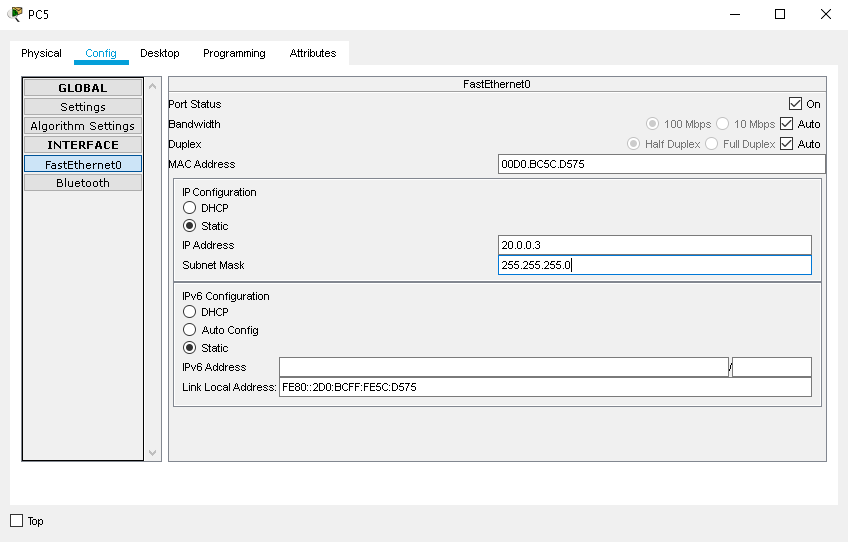
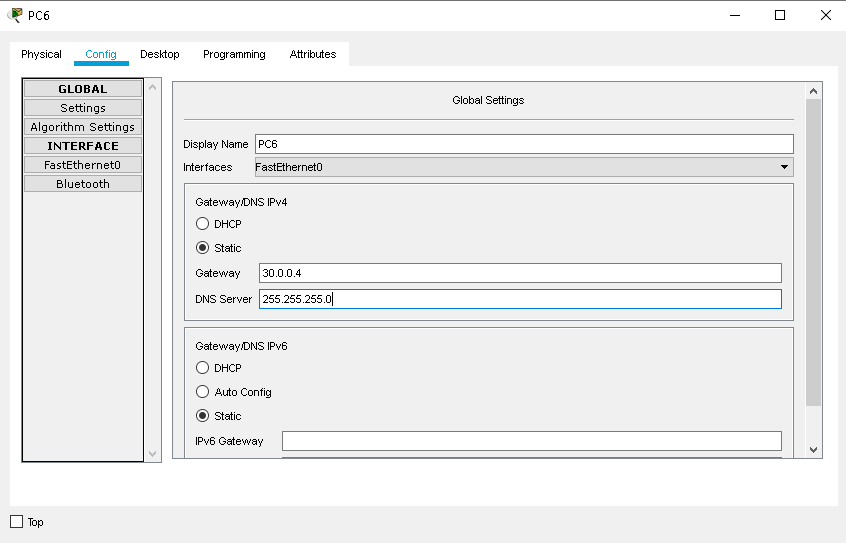
Aim - Create a network with three routers with RIPv2 and each router associated network will have minimum three PC. Show connectivity.

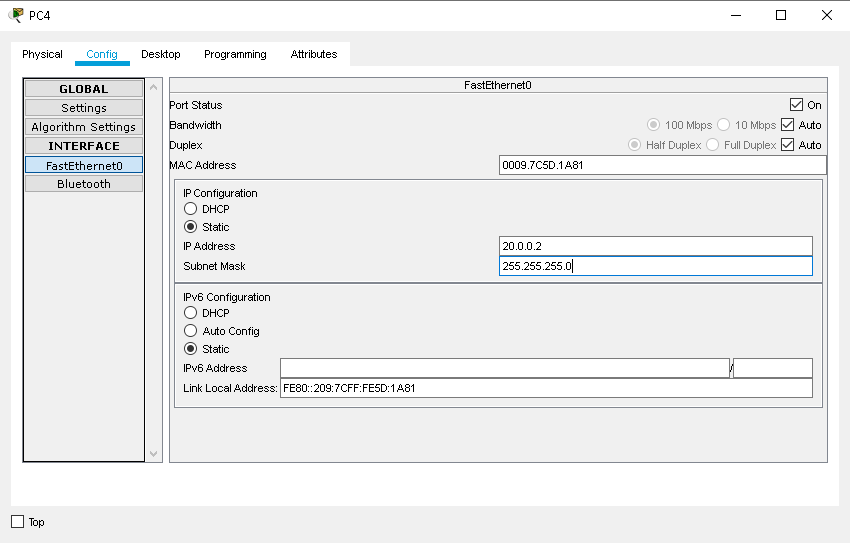
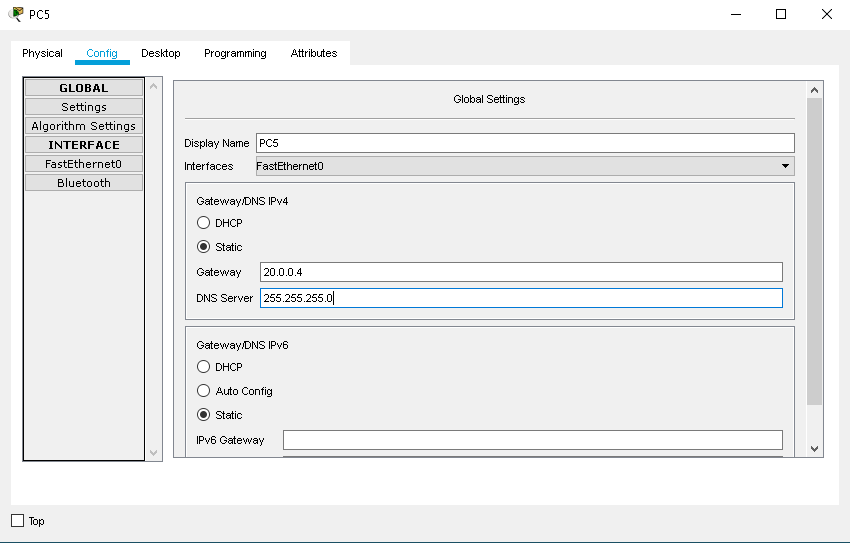
1. Align 9 end-devices as follows:

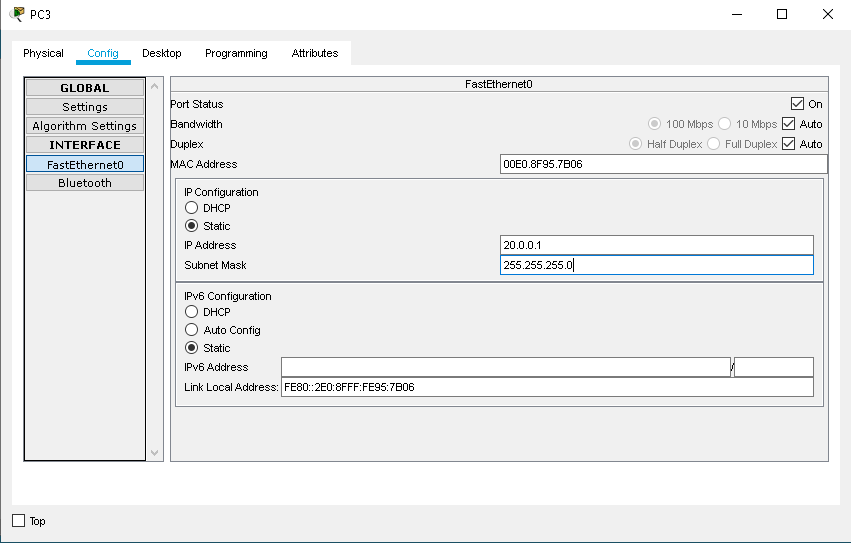
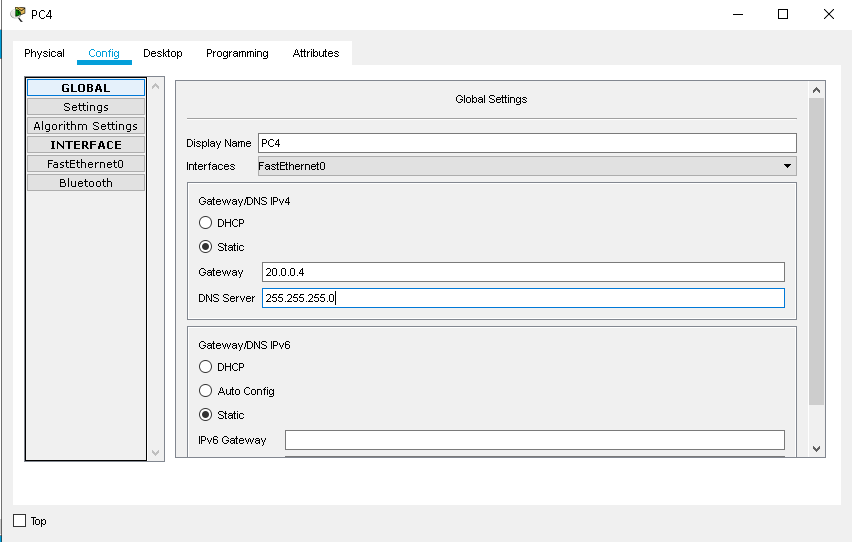


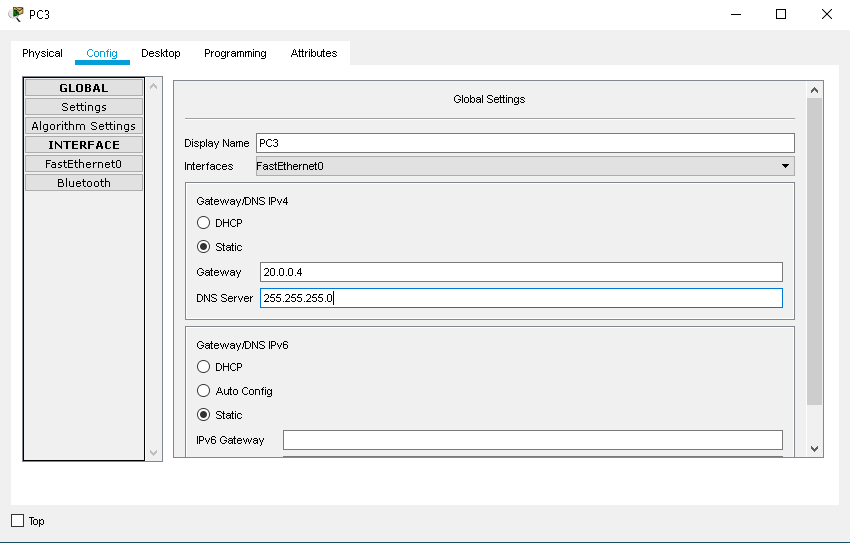
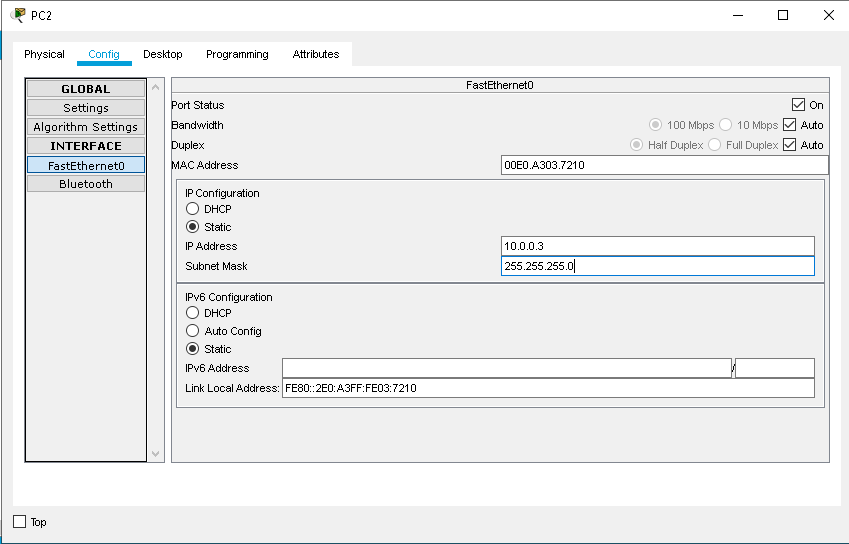
1. Set the DNS, Gateway and Fast Ethernet connections for all the PCs as follows: 

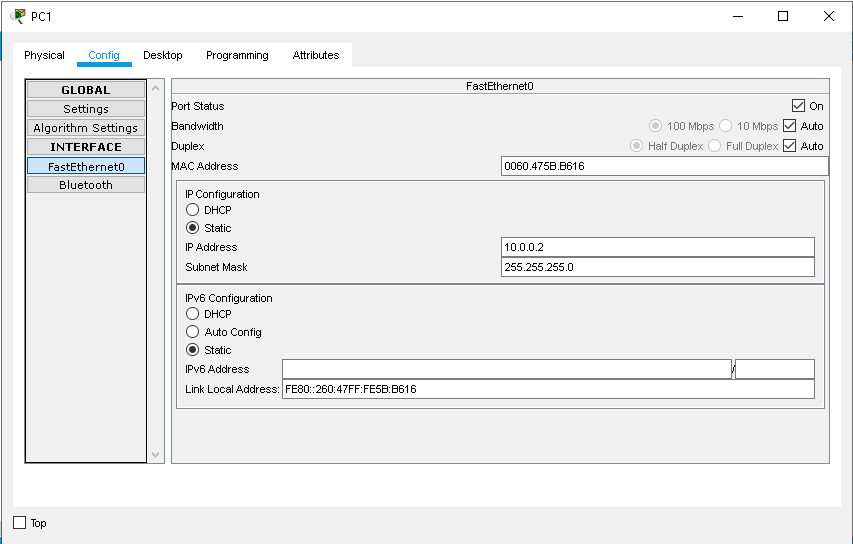
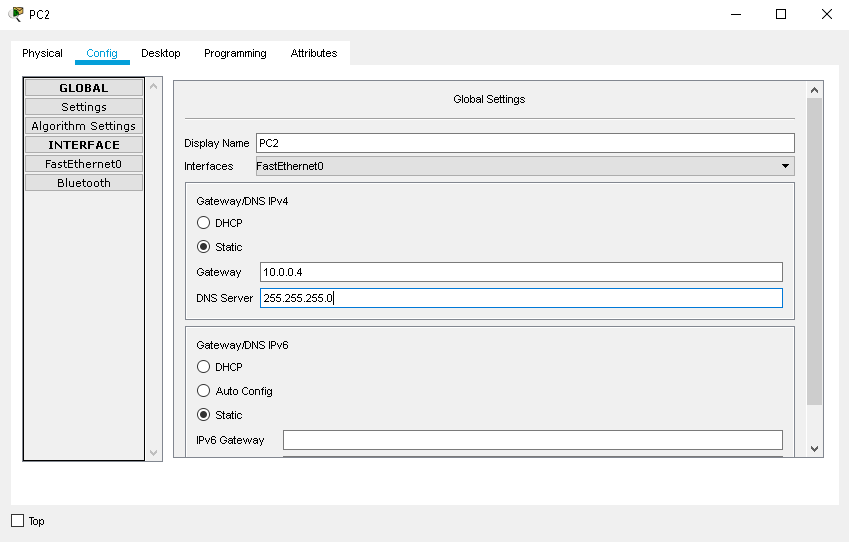


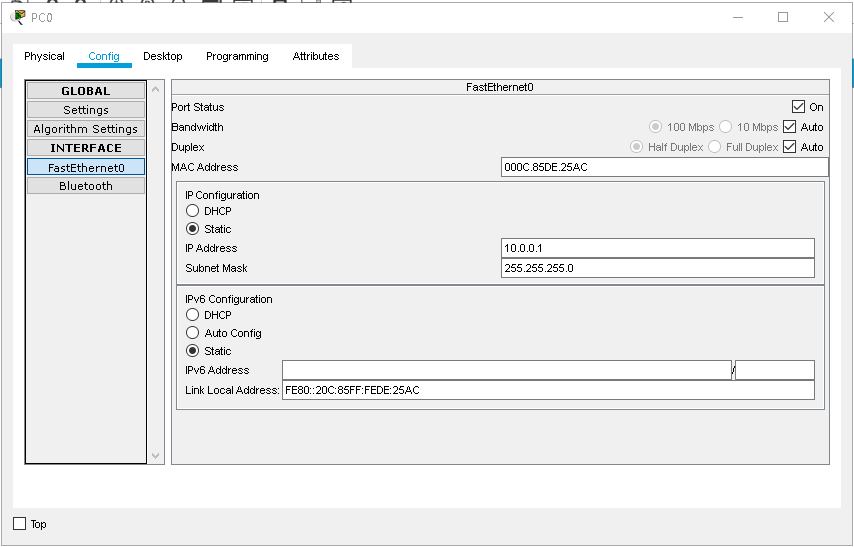
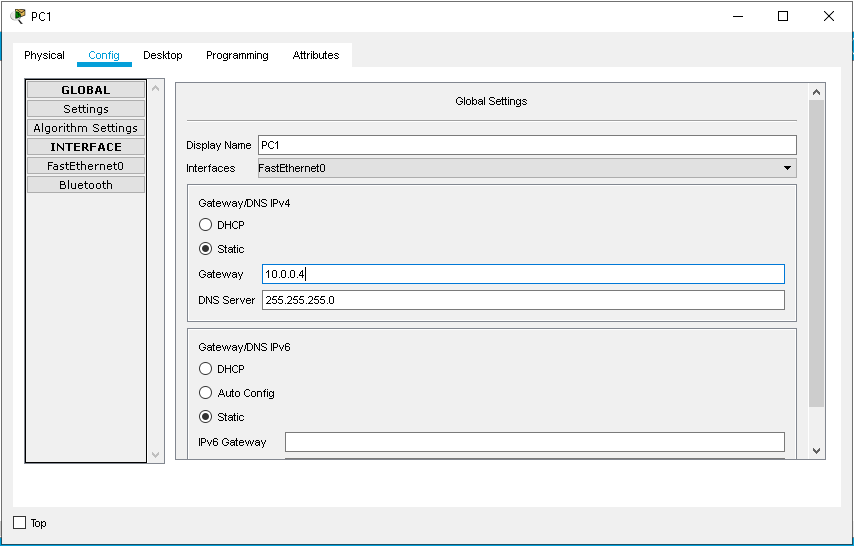


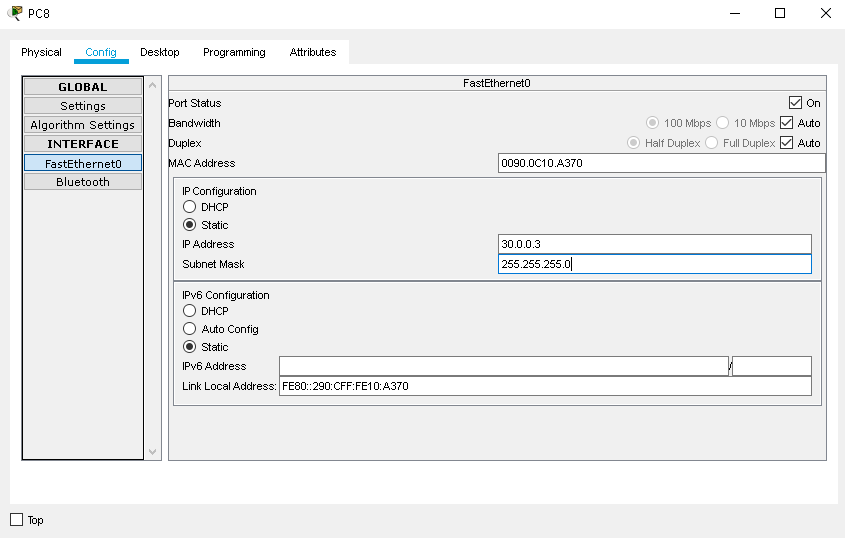
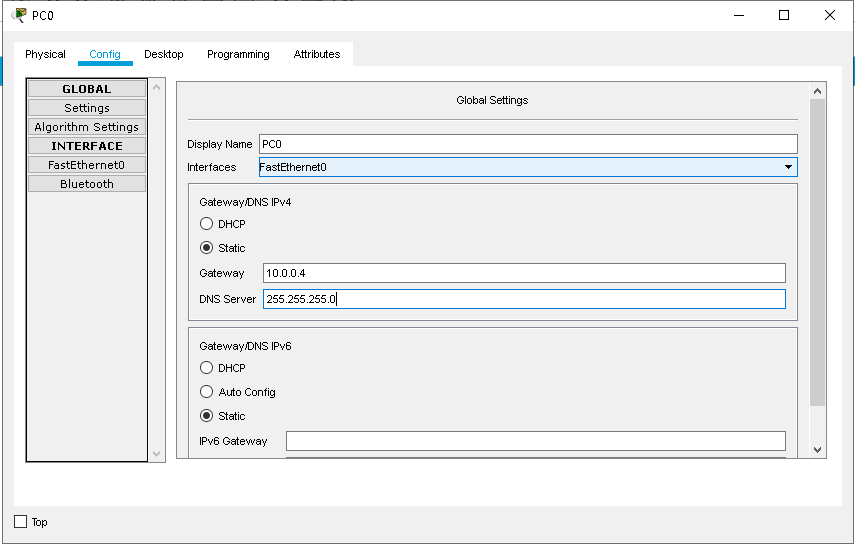


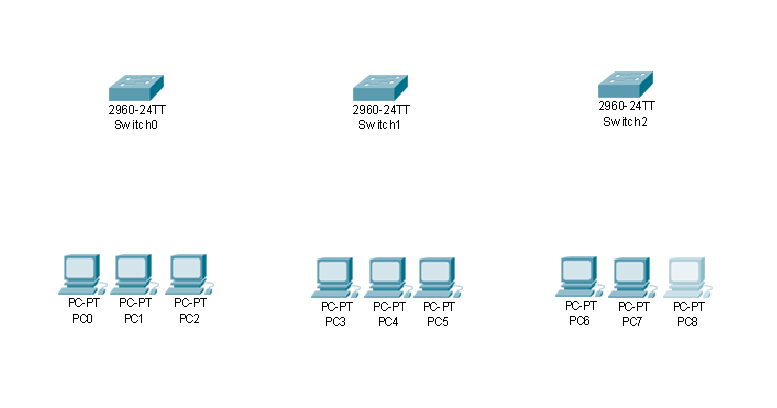


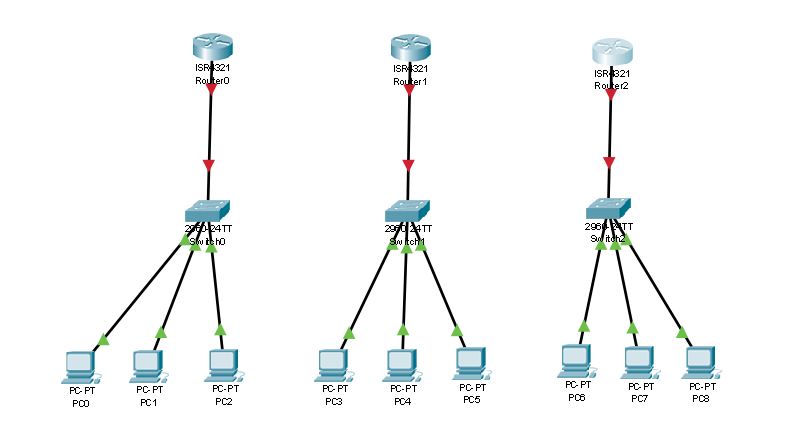




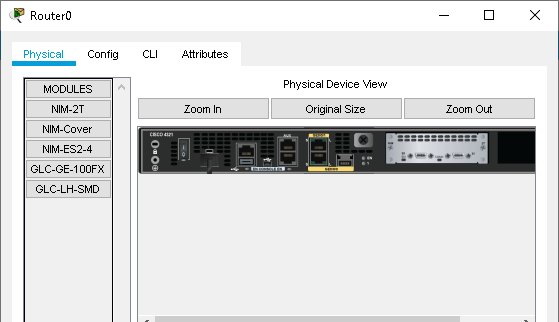




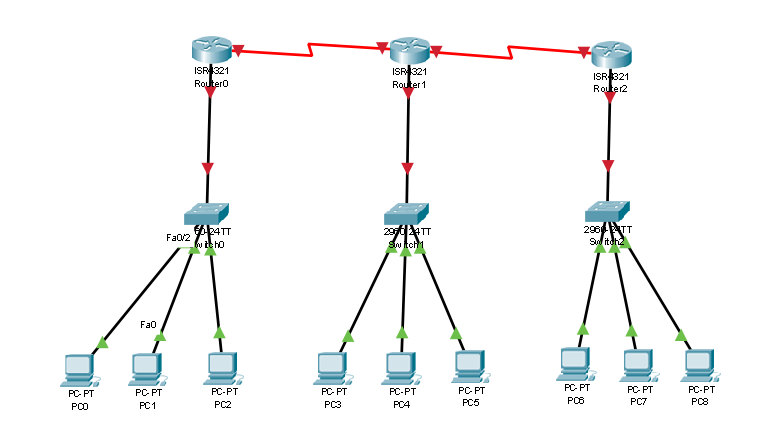
1. Add 3 Switches as follows:
2. Add 3 Routers and connect all the components using Fast Ethernet connection as follows:



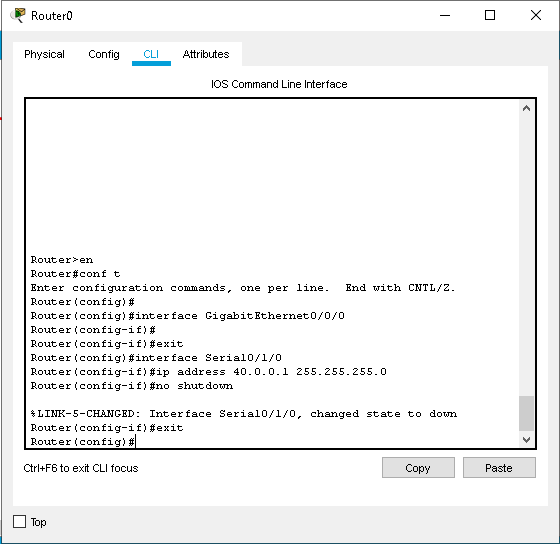
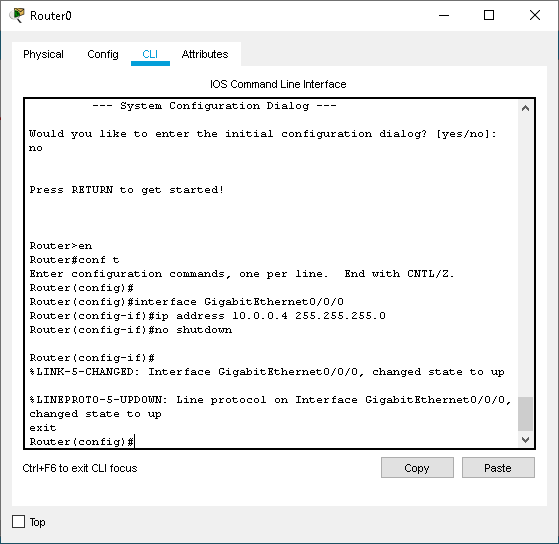
1. Power off each of the Routers and add the NIM-2T Module to all the Routers as follows:



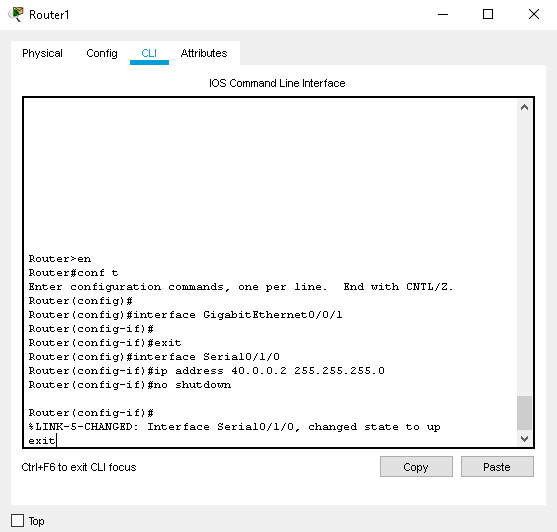
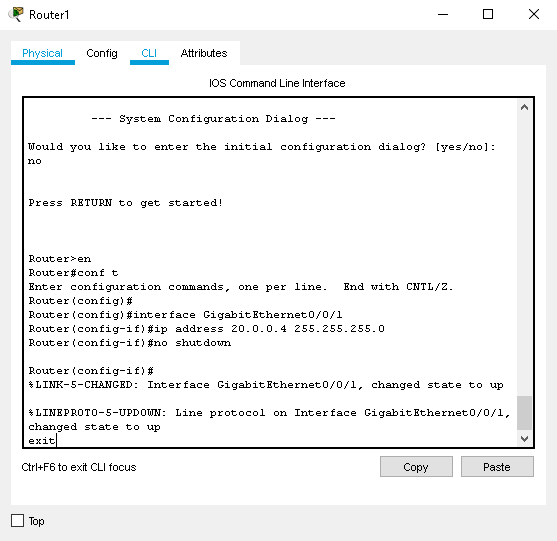
1. Connect the Routers using Serial DTE wires as shown:

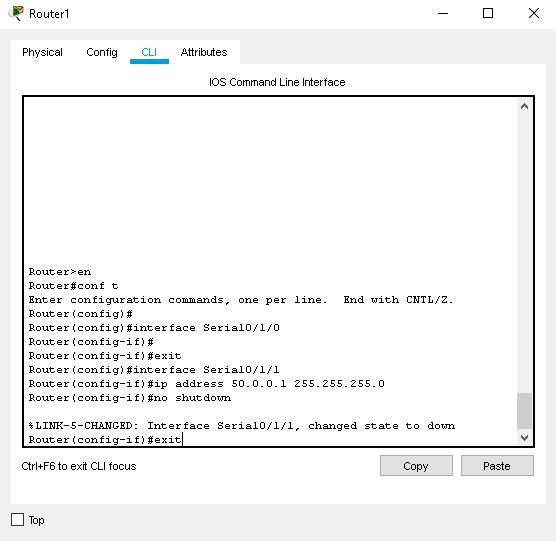


1. Configure Router 0 using the Command Line Interface as follows:

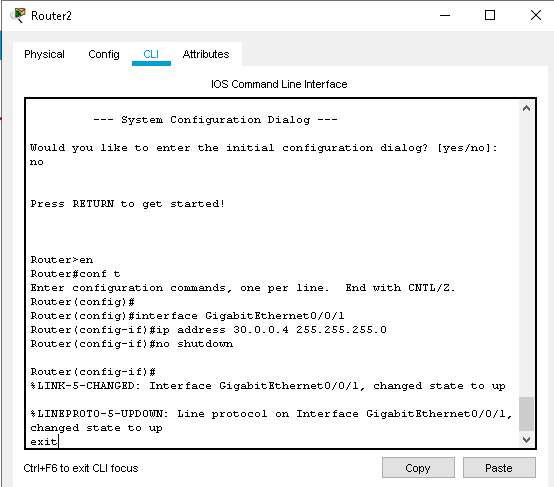
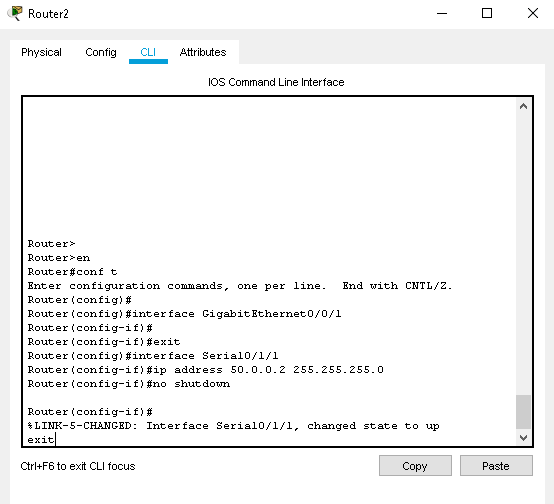


1. Configure Router 0 using the Command Line Interface as follows:

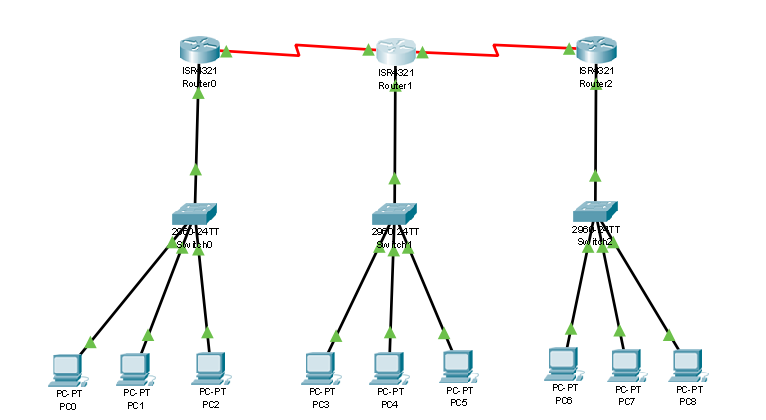




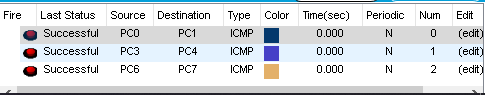
1. Configure Router 0 using the Command Line Interface as follows:

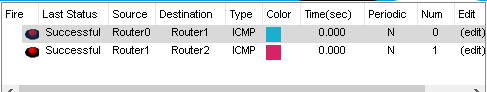


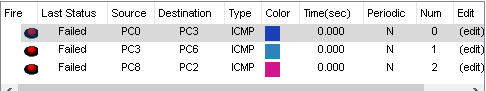
1. The Final connection will look as shown:

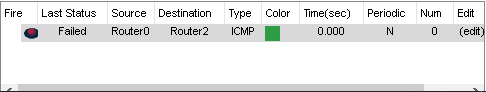


1. Note how intra-connection packet sending succeeds and inter-connection fails:

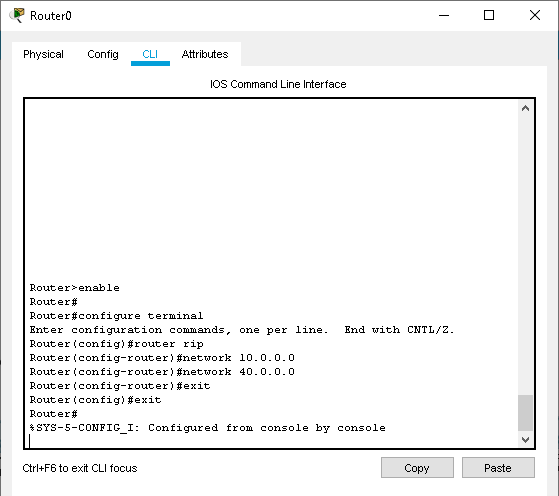




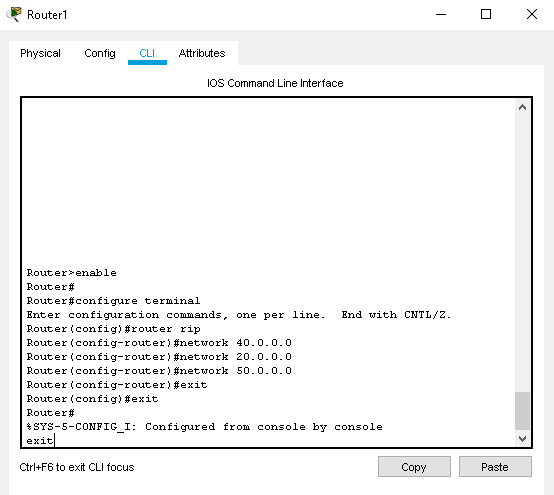




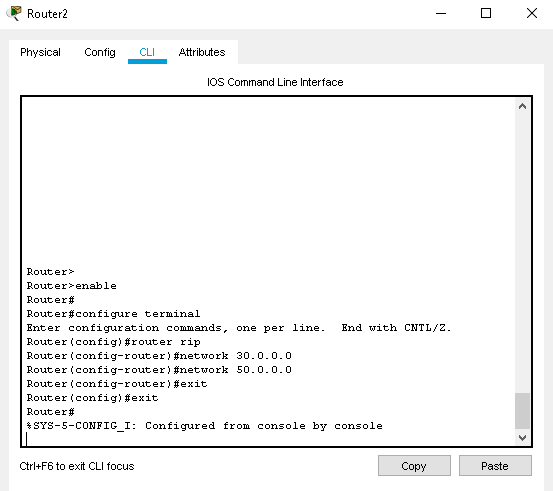
1. Configure RIP Routing in Router 0 as follows:



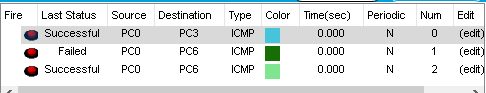
1. Configure RIP Routing in Router 3 as follows:

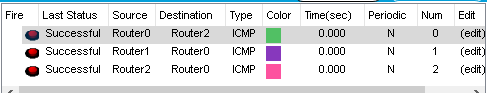


1. Configure RIP Routing in Router 2 as follows:



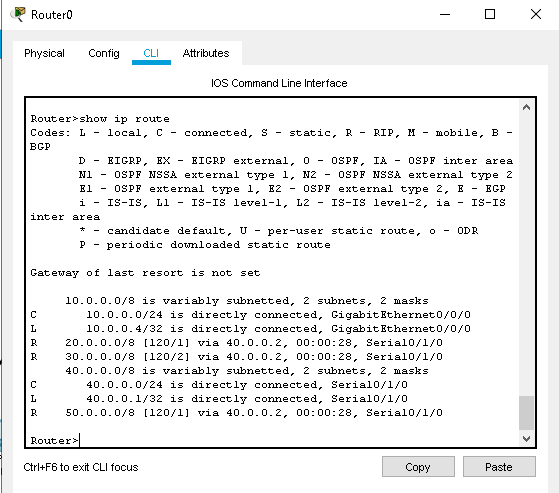
1. Sending packets after RIP routing gives the following result:



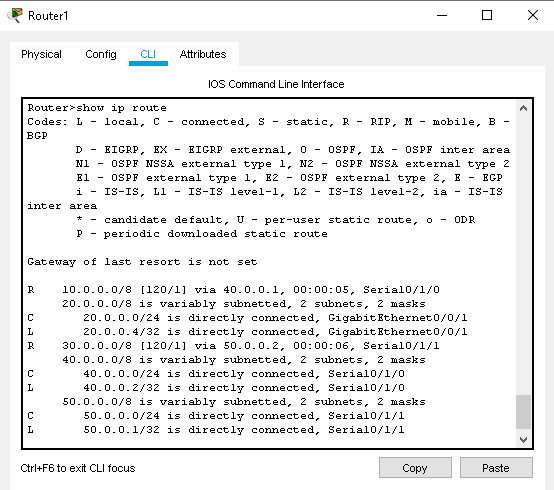


1. Finally, type ‘show ip route’ in the Router’s CLI to obtain the IP route results:

ROUTER 0



ROUTER 1



ROUTER 2

