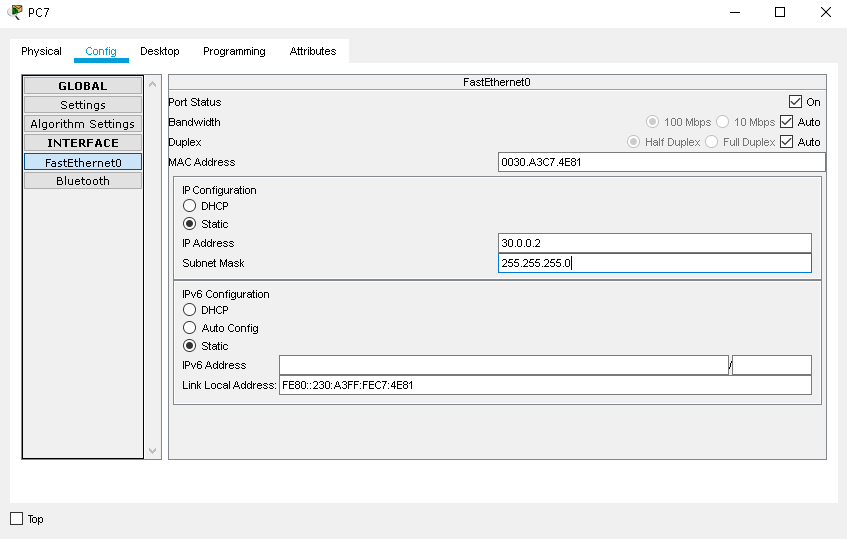
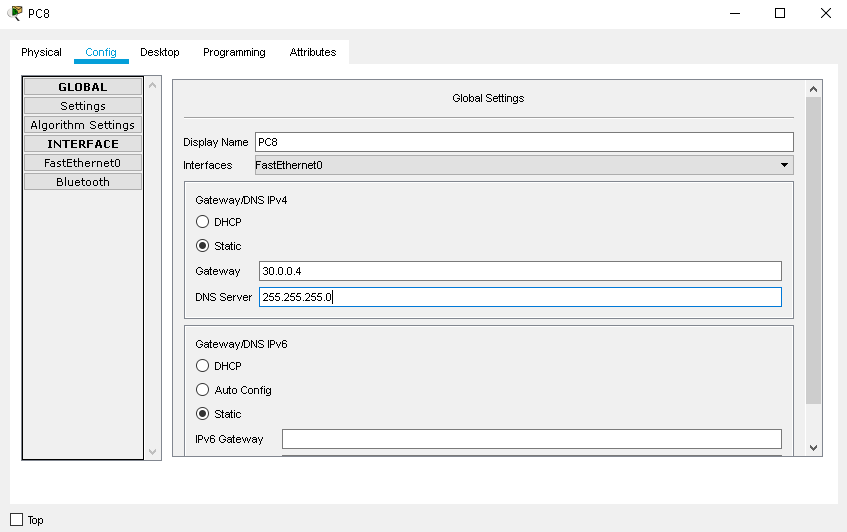
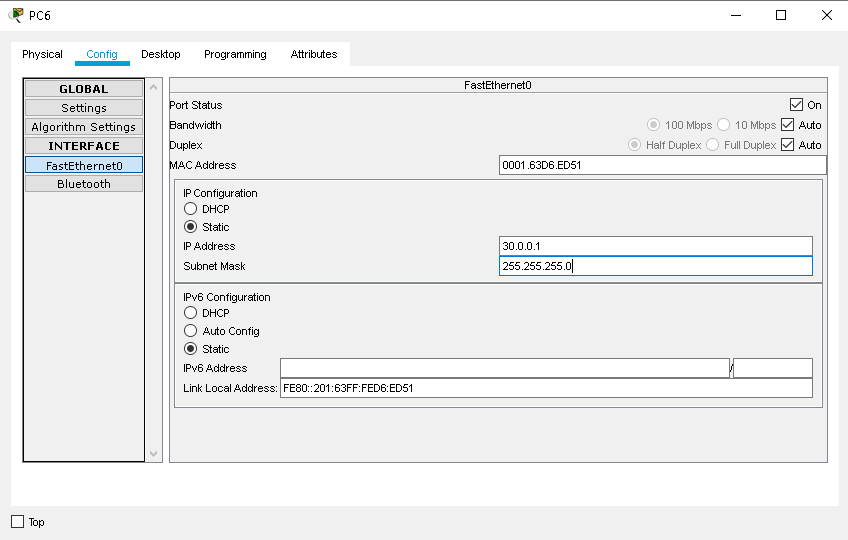
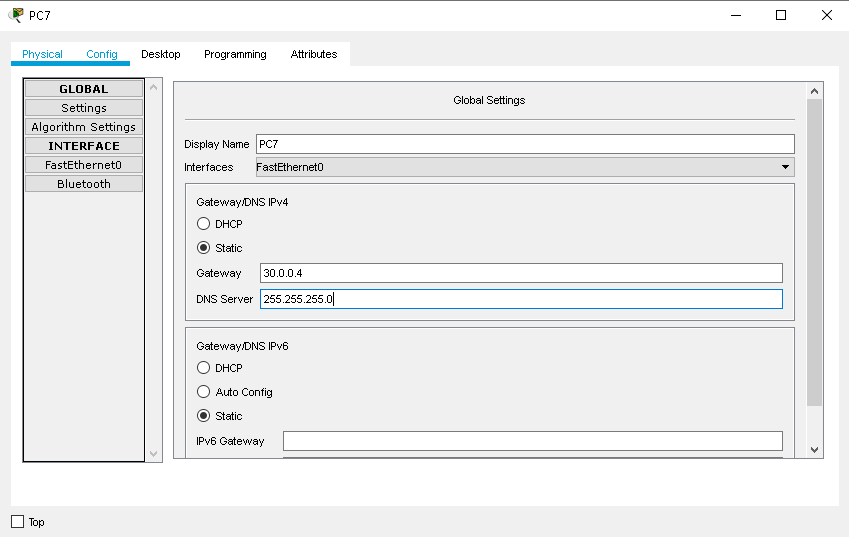
**PRACTICAL No: 2**

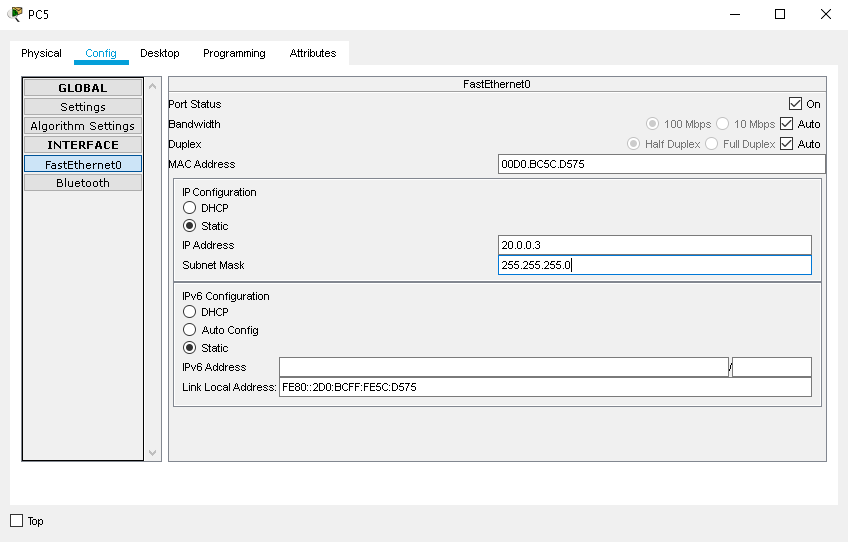
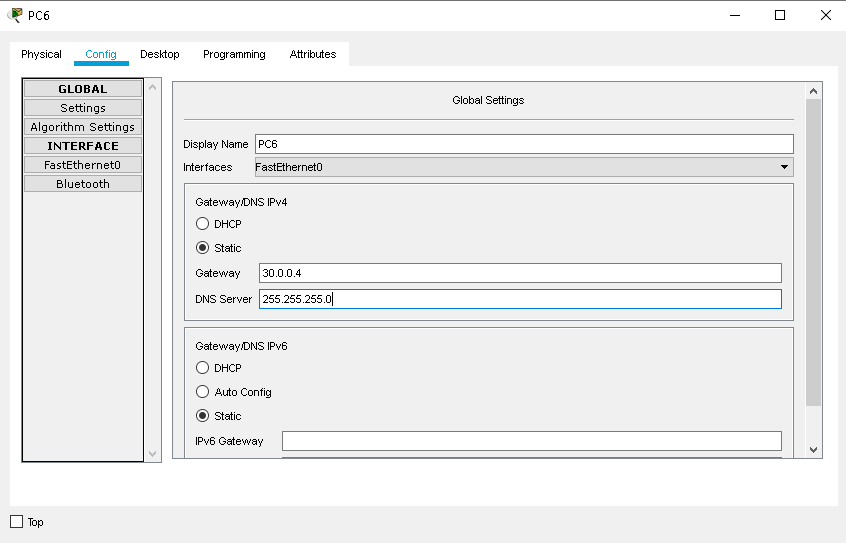
**Aim -** Create a network with three routers with OSPF and each router associated network will have minimum three PC. Show connectivity.

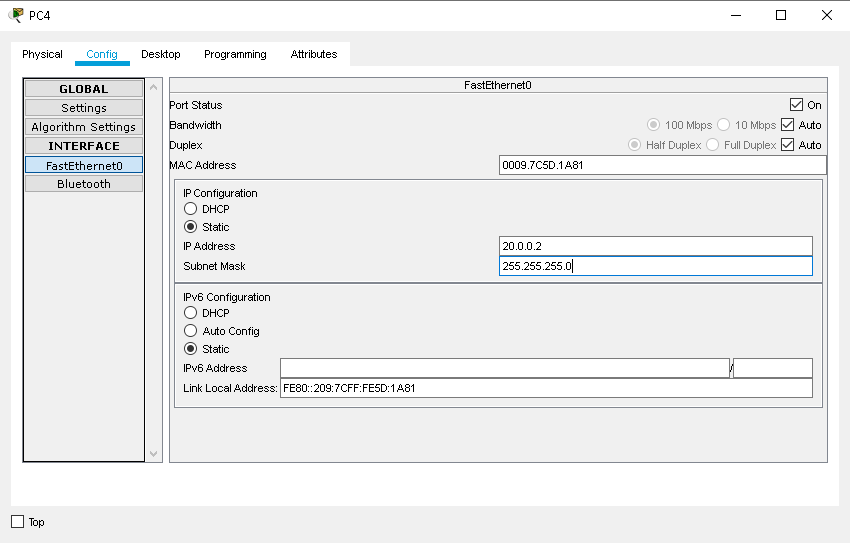
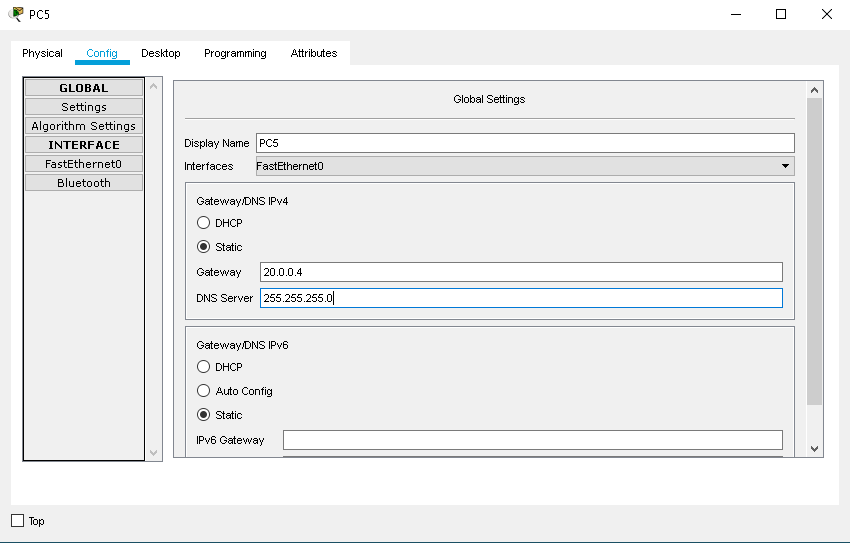
1. Align 9 end-devices as follows:

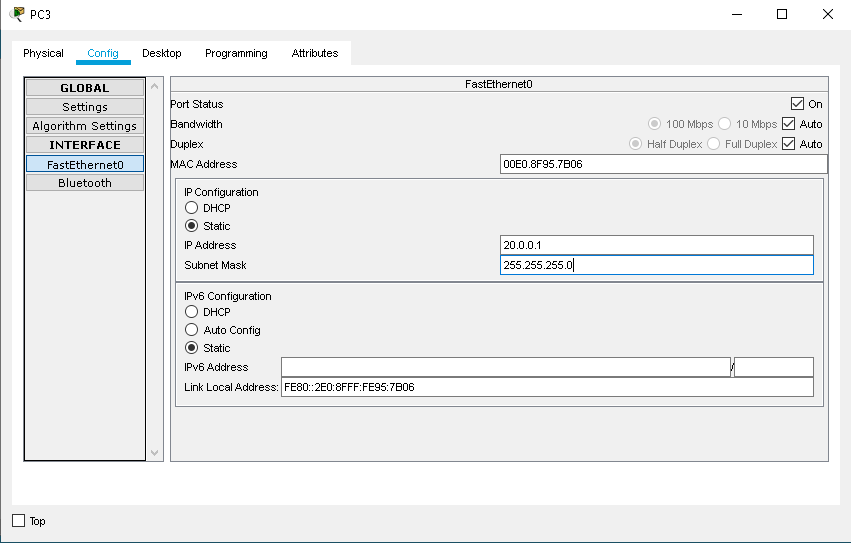
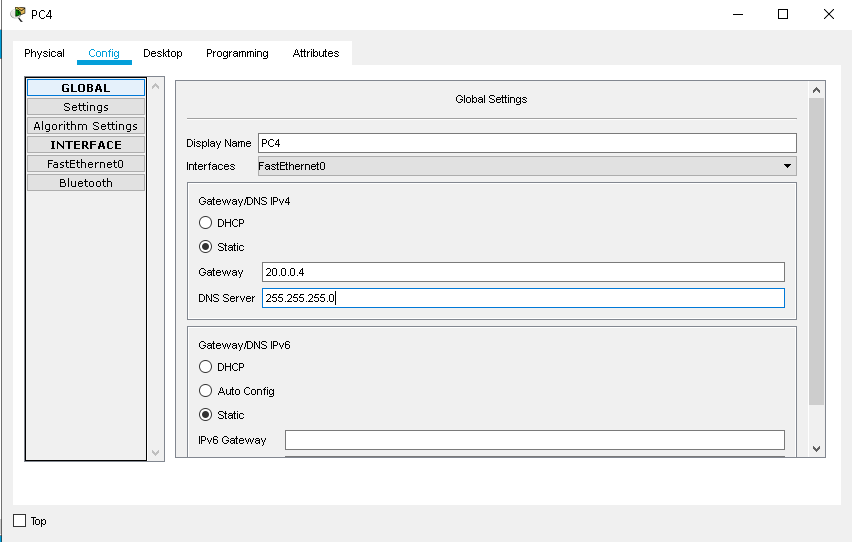


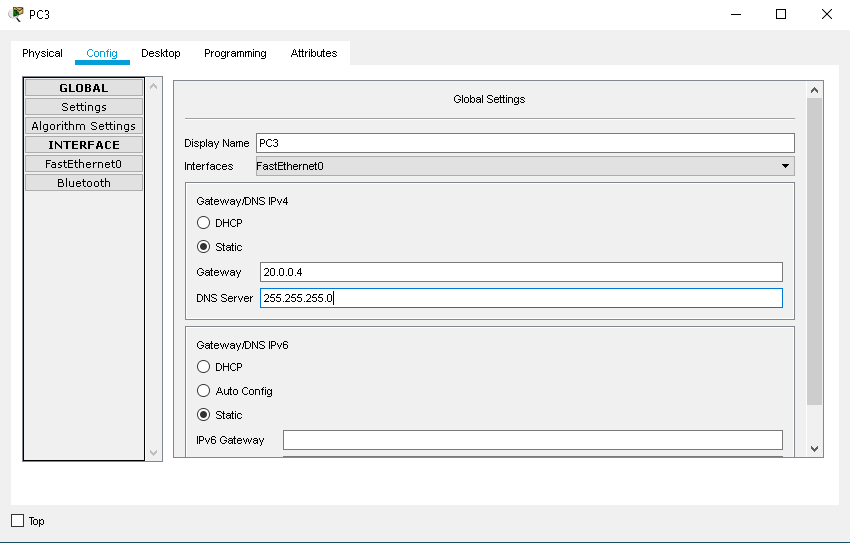
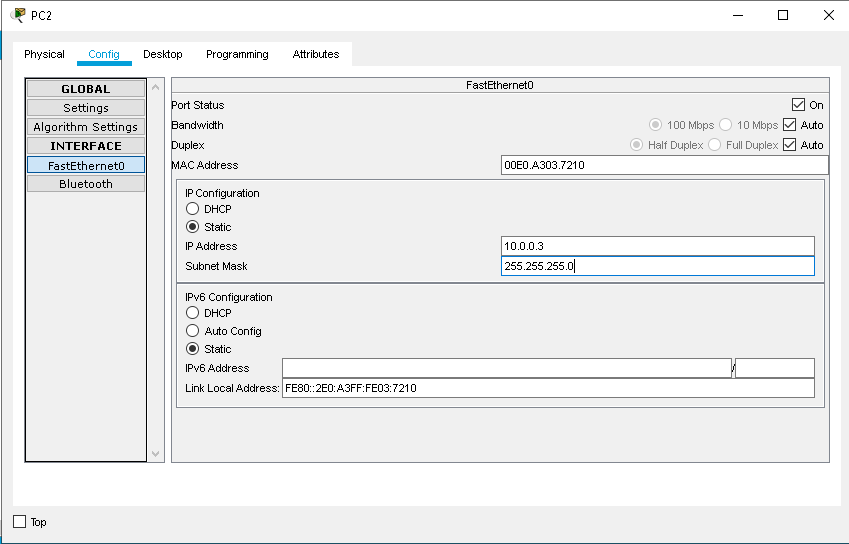
1. Set the DNS, Gateway and Fast Ethernet connections for all the PCs as follows: 

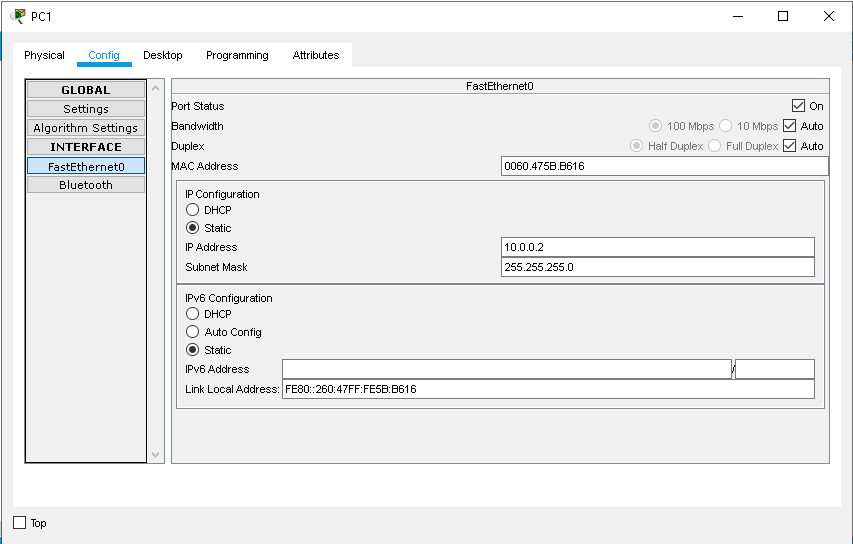
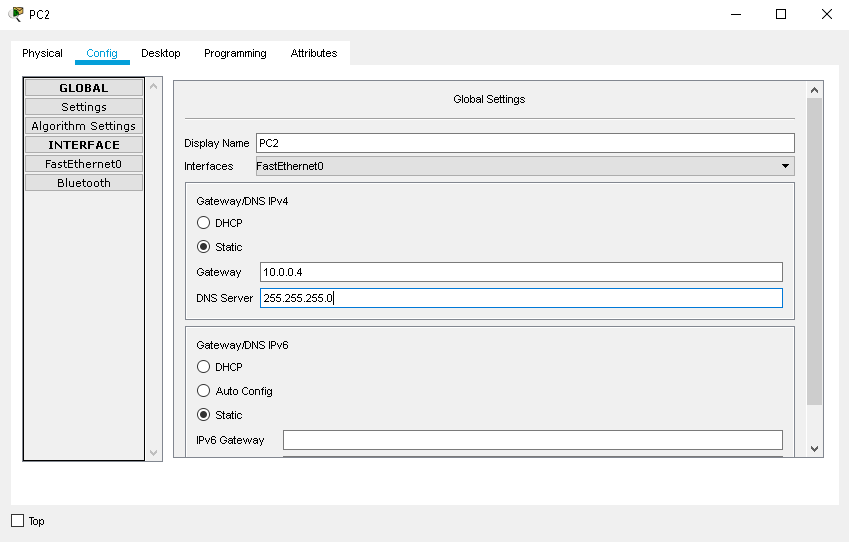


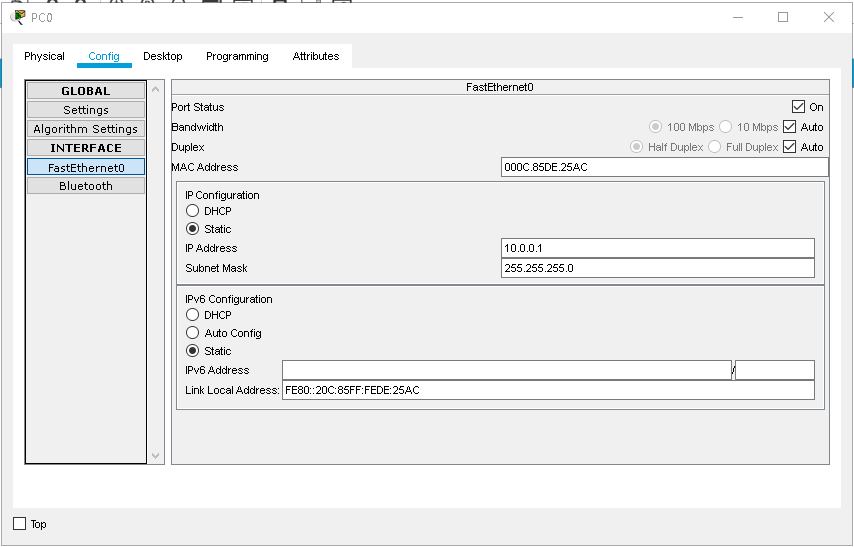
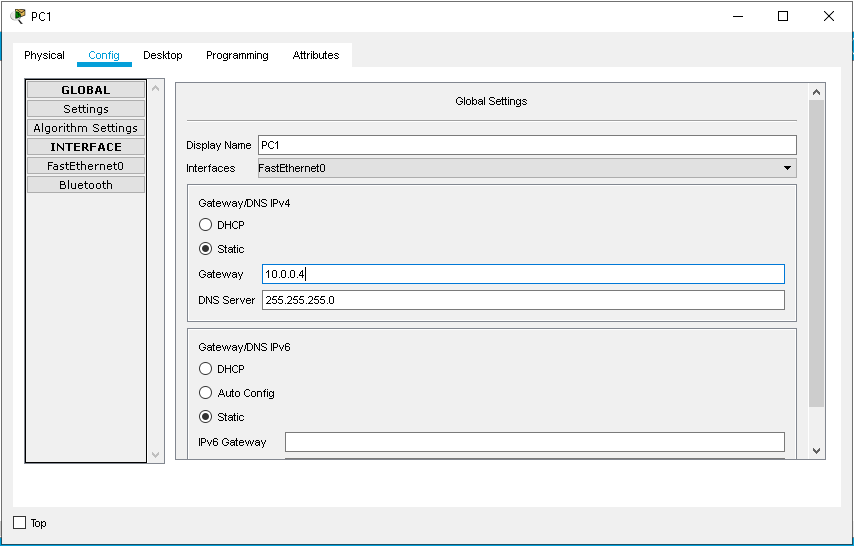


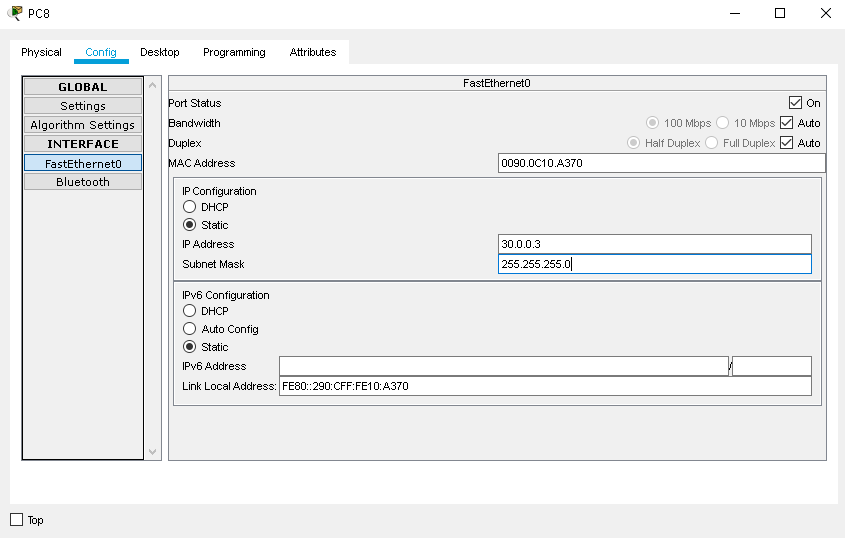
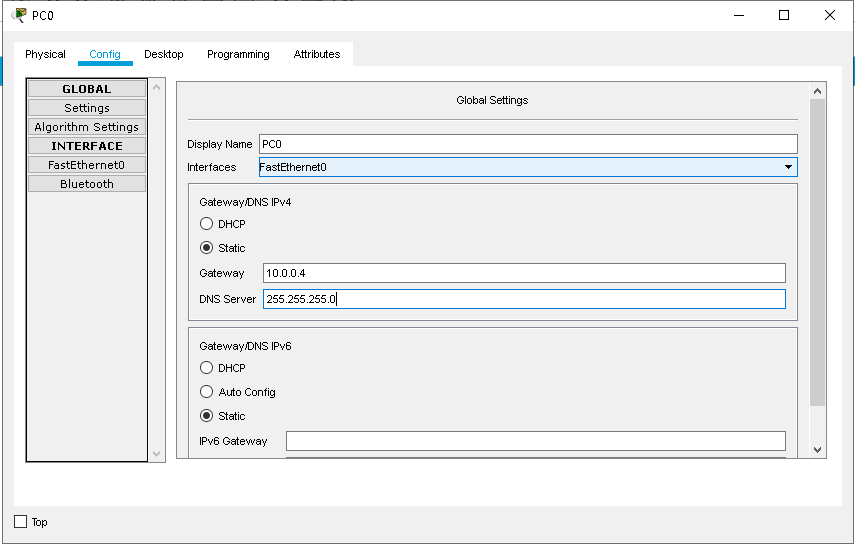


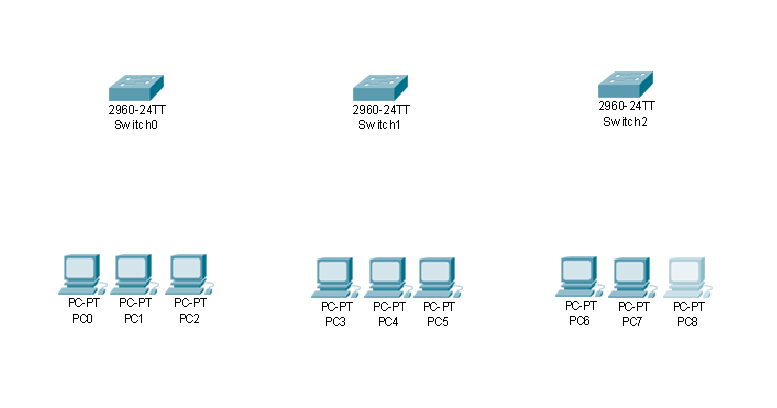


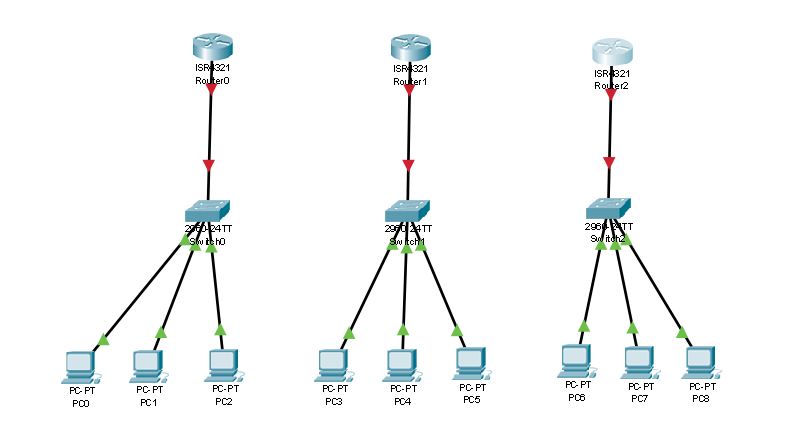




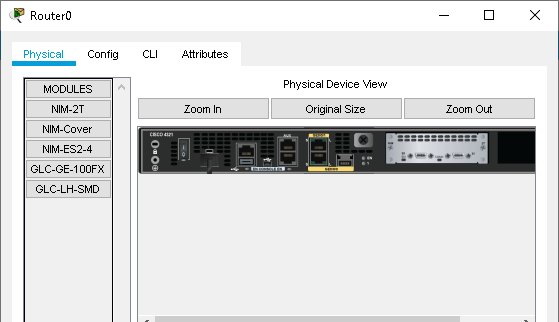




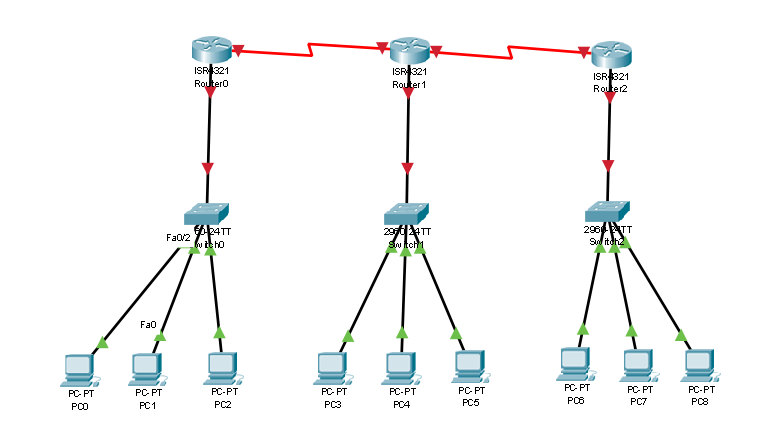
1. Add 3 Switches as follows:
2. Add 3 Routers and connect all the components using Fast Ethernet connection as follows:



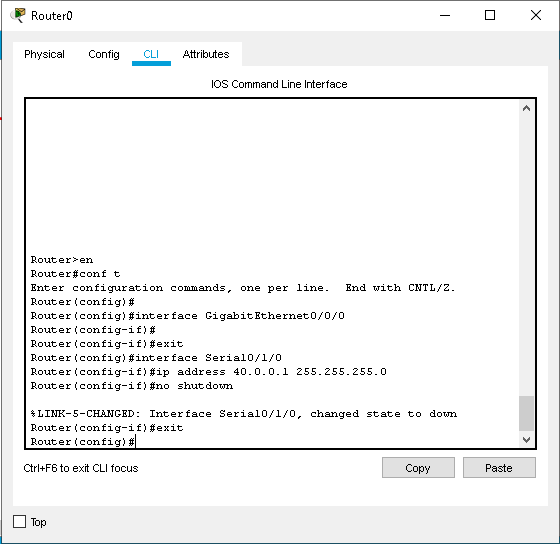
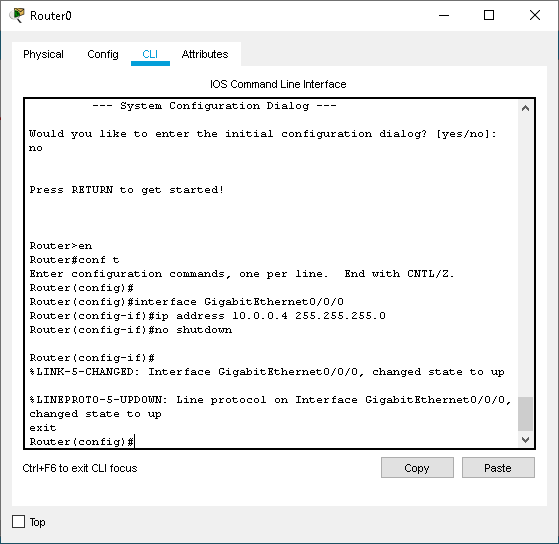
1. Power off each of the Routers and add the NIM-2T Module to all the Routers as follows:



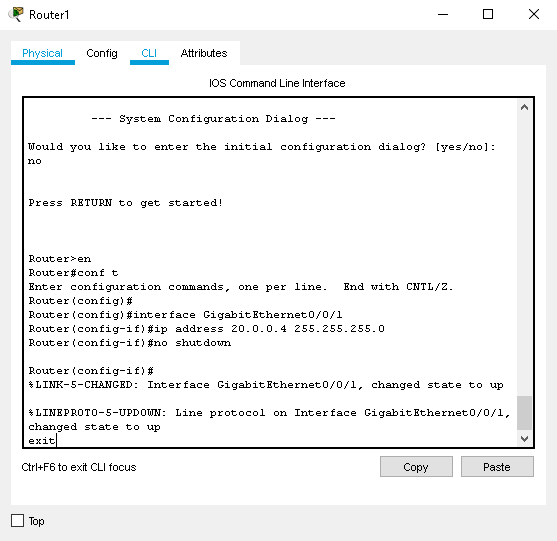
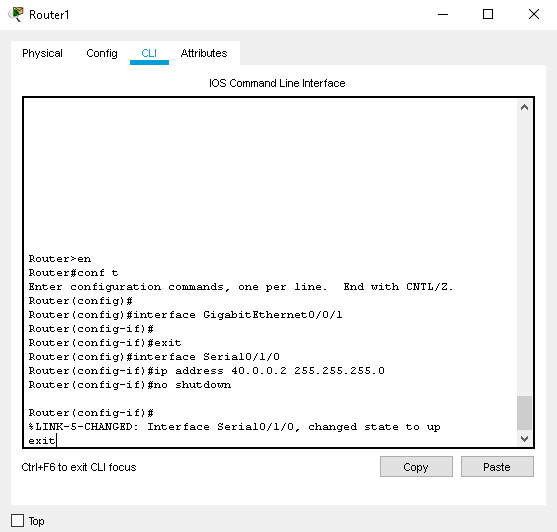
1. Connect the Routers using Serial DTE wires as shown:

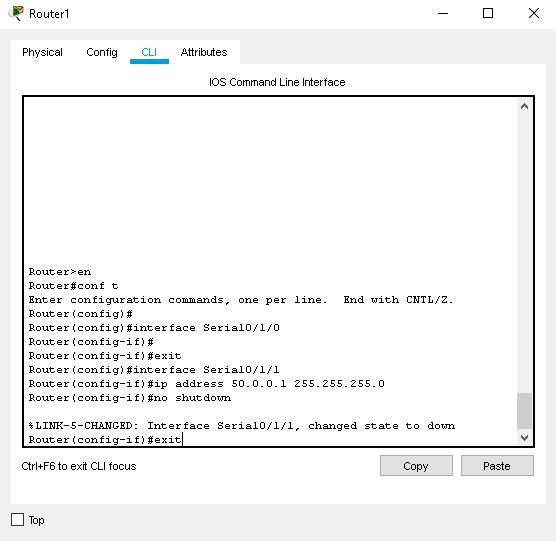


1. Configure Router 0 using the Command Line Interface as follows:

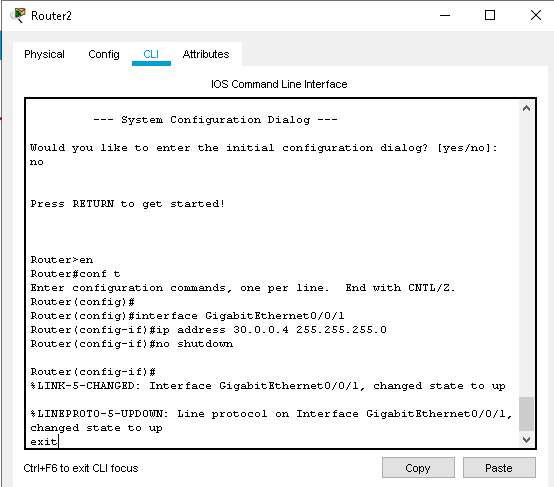
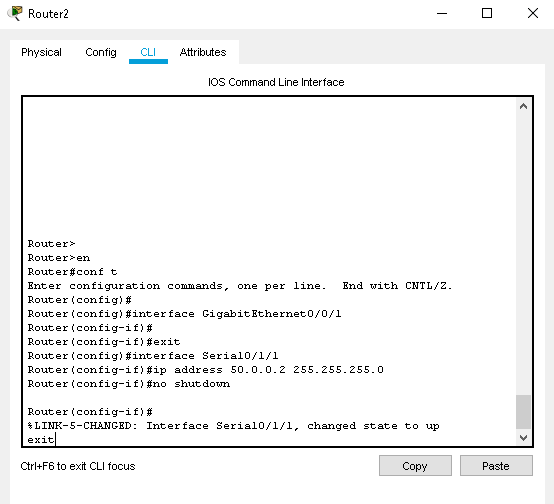


1. Configure Router 1 using the Command Line Interface as follows:

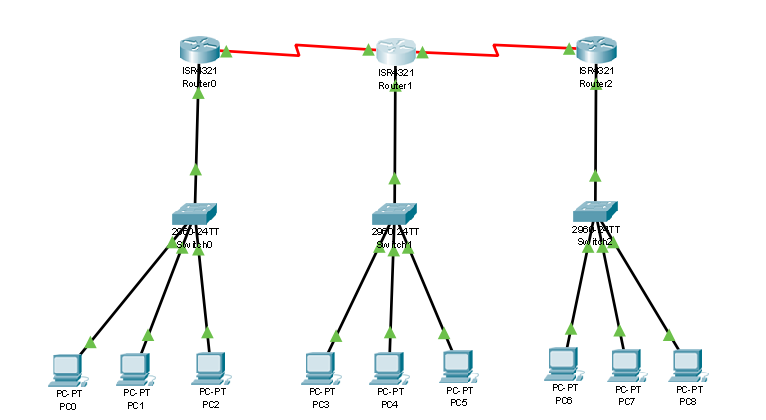
 



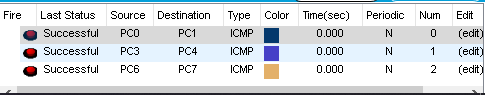
1. Configure Router 2 using the Command Line Interface as follows:

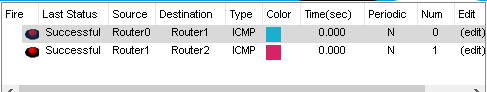


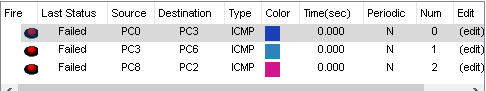
1. The Final connection will look as shown:

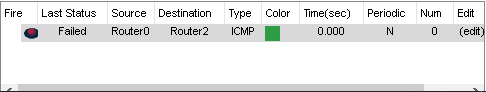


1. Note how intra-connection packet sending succeeds and inter-connection fails:

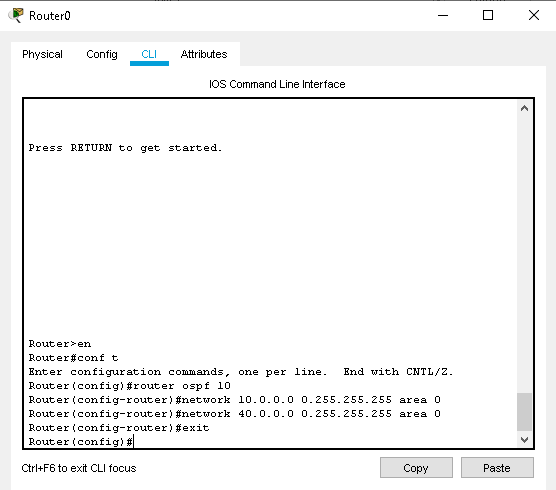




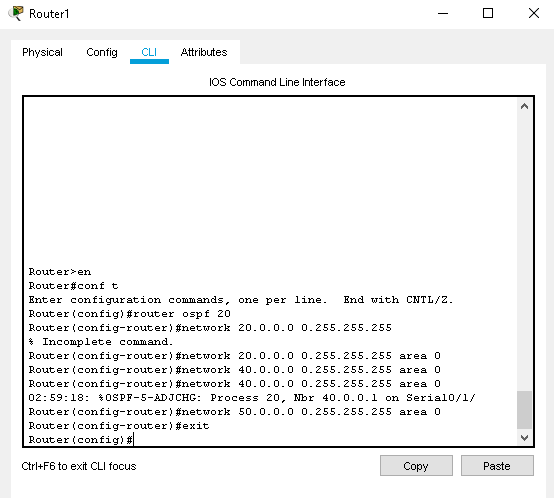




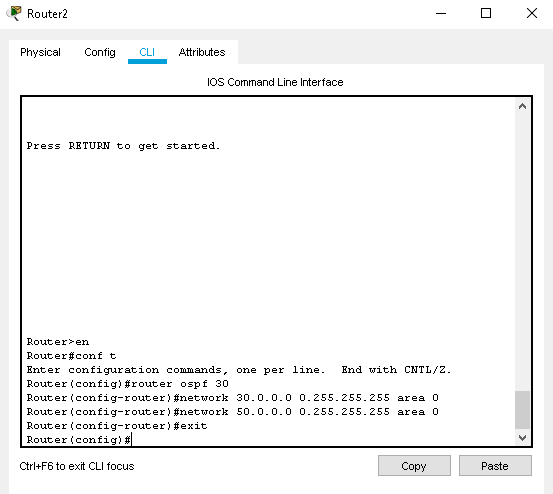
1. Configure OSPF Routing in Router 0 as follows:



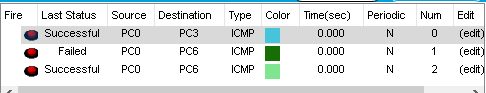
1. Configure OSPF Routing in Router 1 as follows:

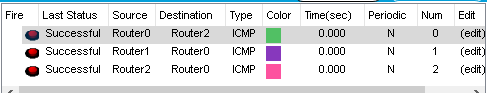


1. Configure OSPF Routing in Router 2 as follows;



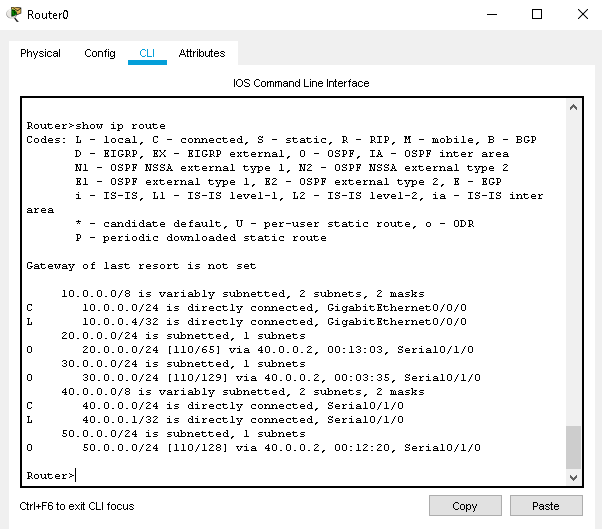
1. After successful OSPF configuration, send packets over the inter-connected network :

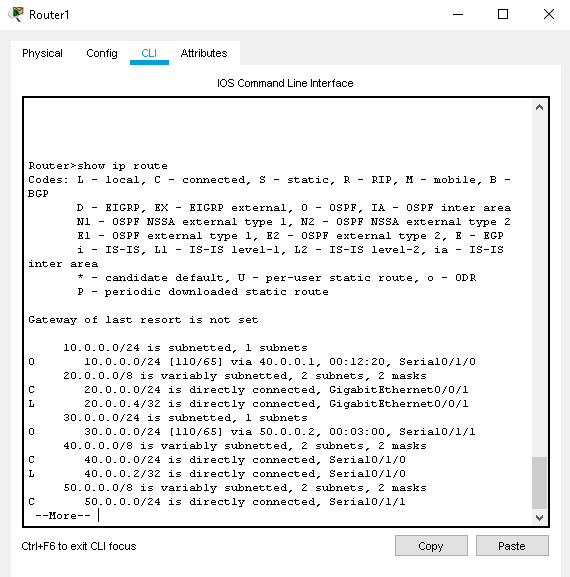




1. Finally, in every Router’s CLI, type ‘show ip route’ to get the connection details:

ROUTER 0



ROUTER 1 

ROUTER 2

