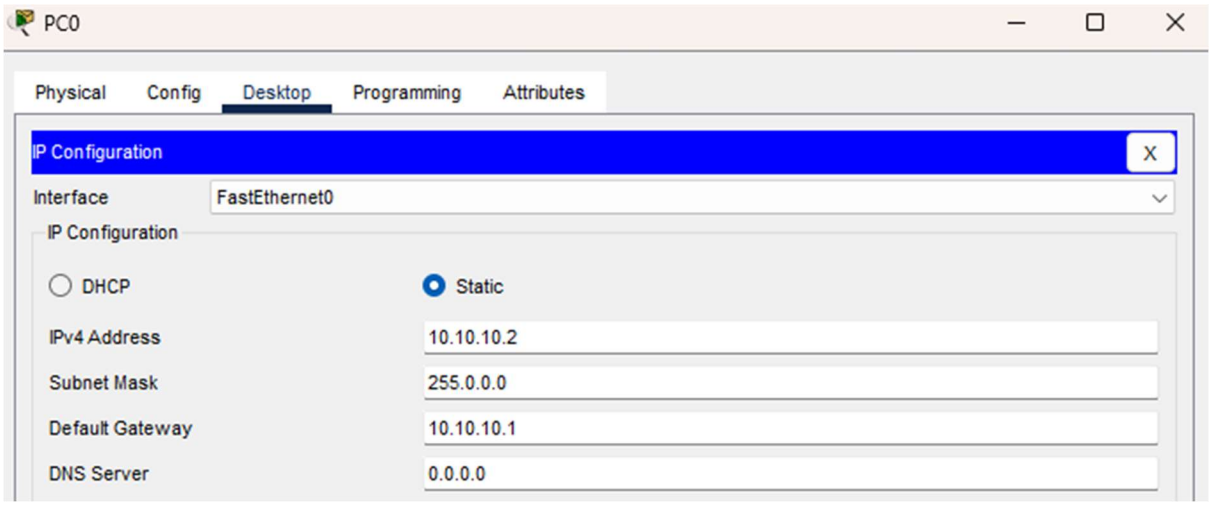
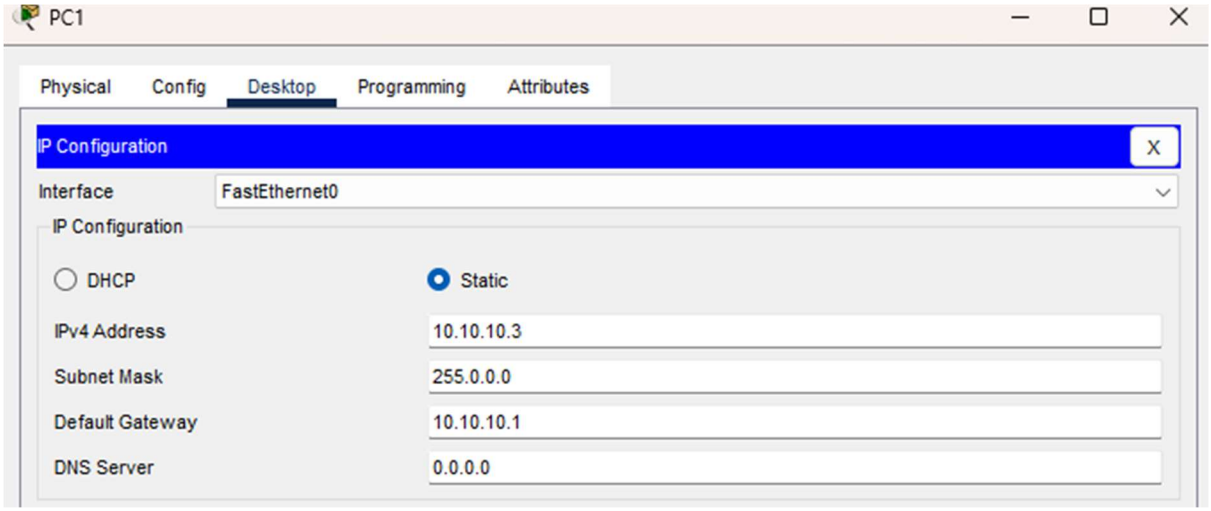
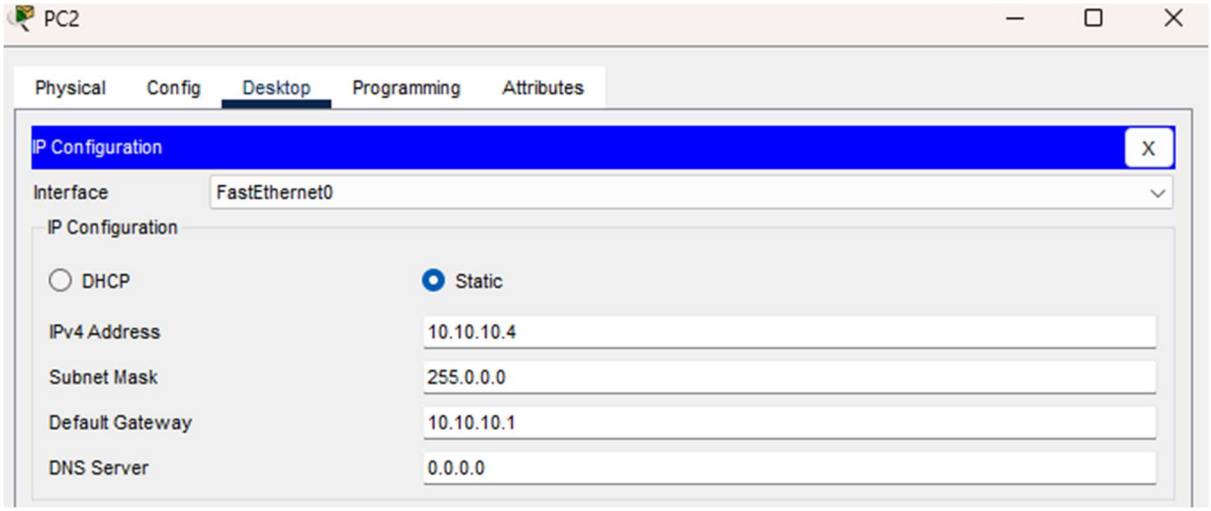
Implementation :-



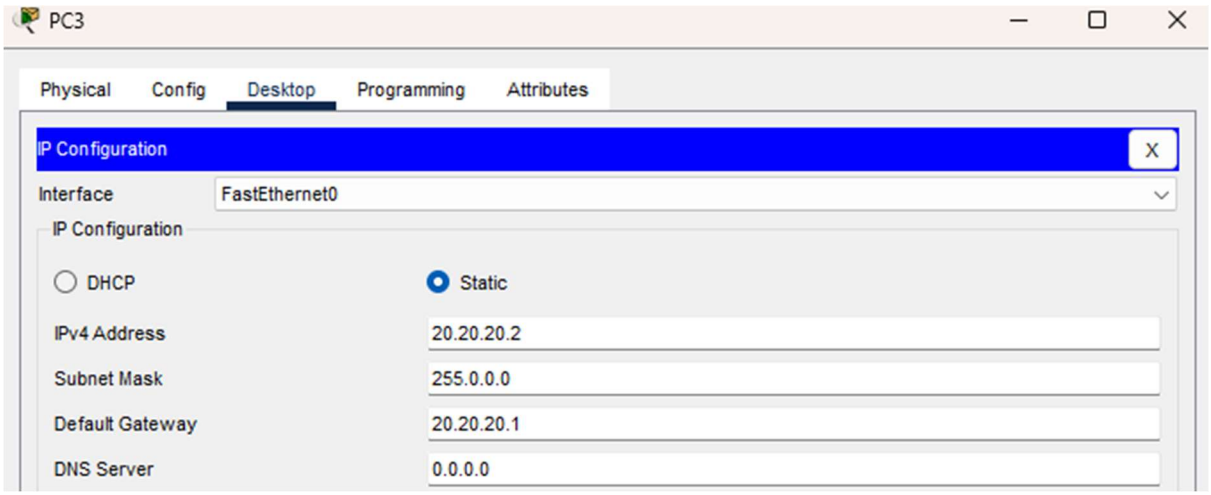
- **Configuring PC1:**



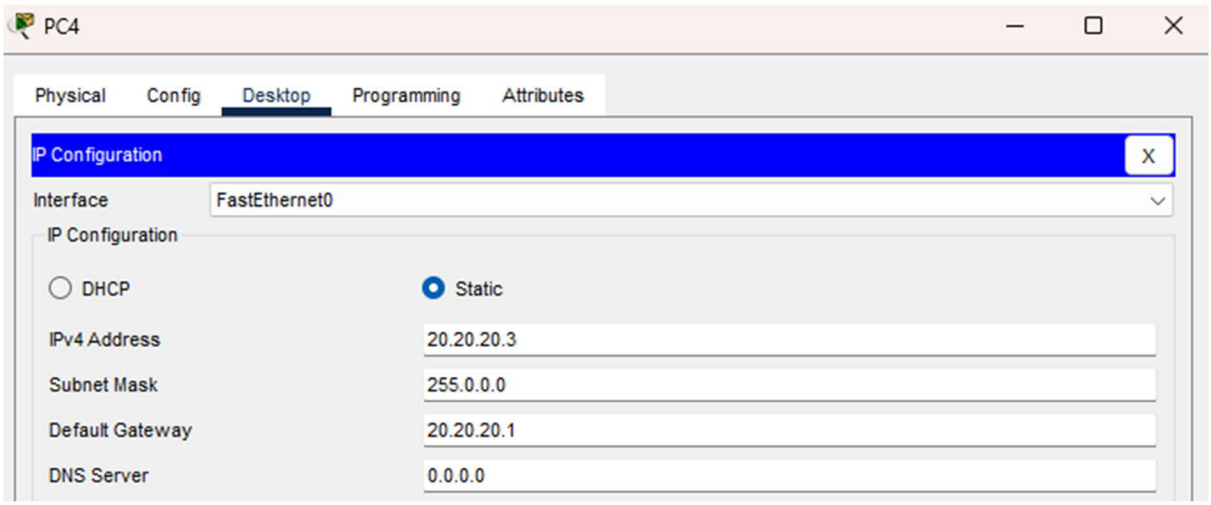
- **Configuring PC2:**



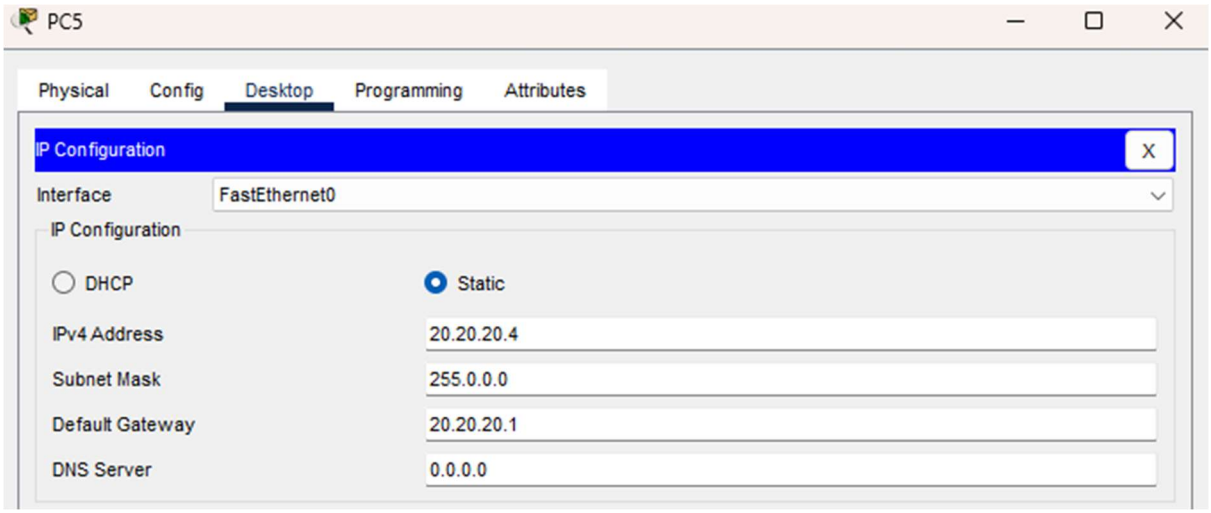
- **Configuring PC3:**



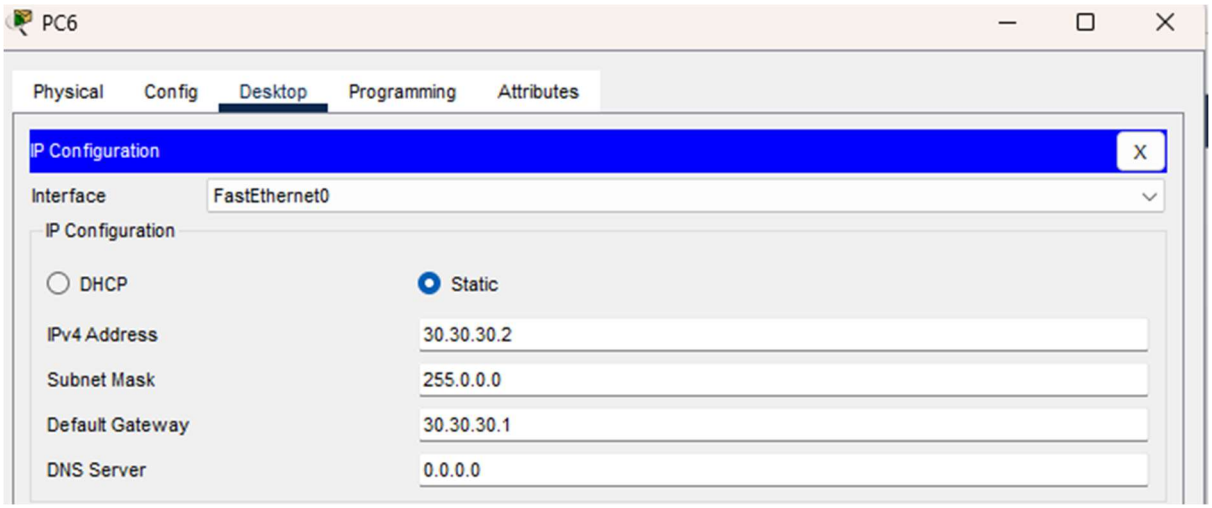
- **Configuring PC4:**



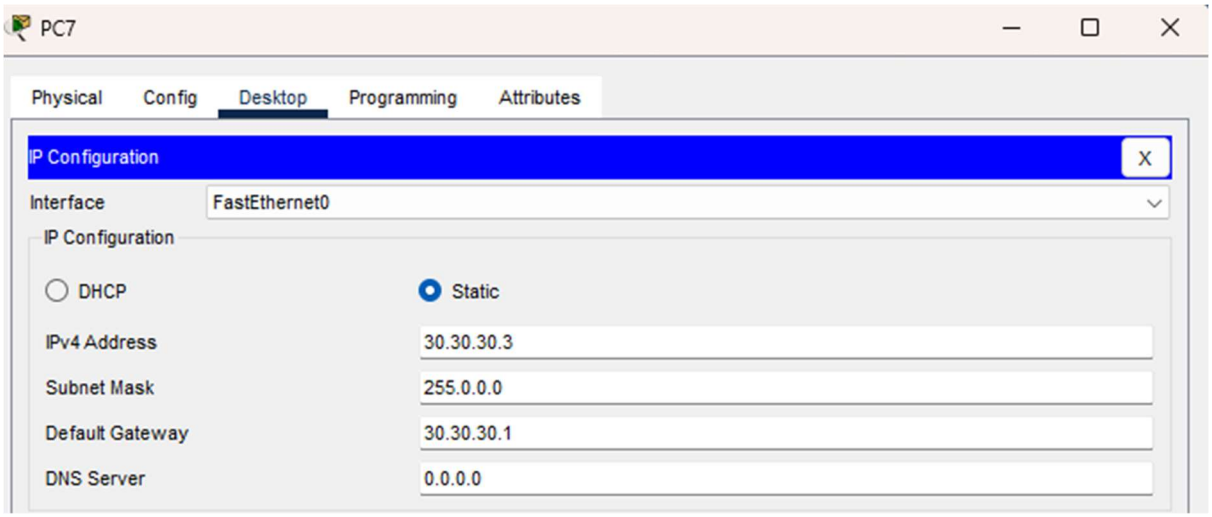
- **Configuring PC5:**



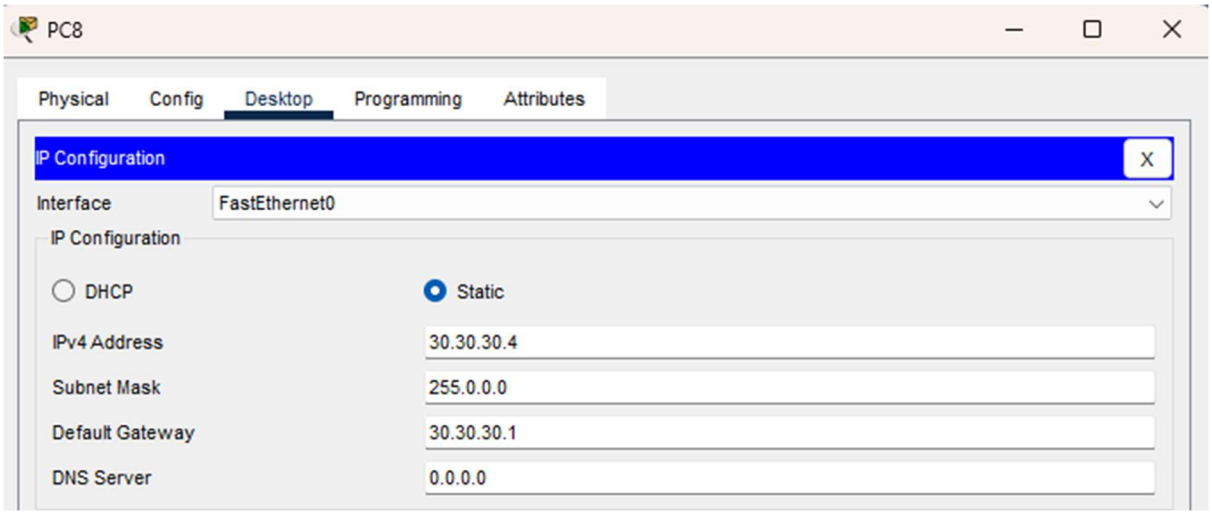
- **Configuring PC6:**



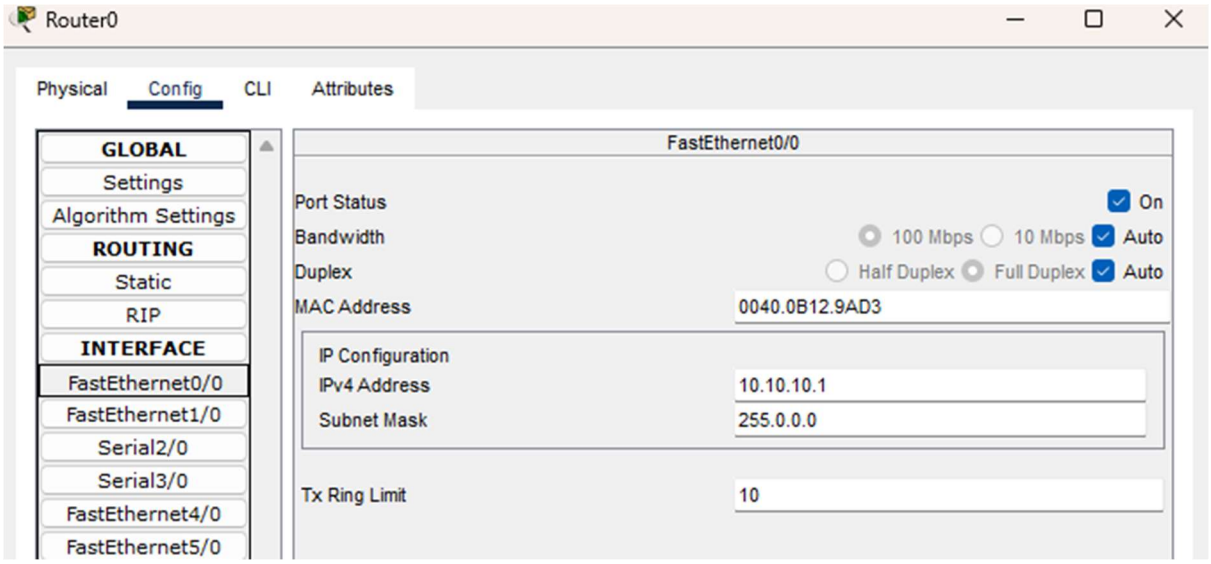
- **Configuring PC7:**



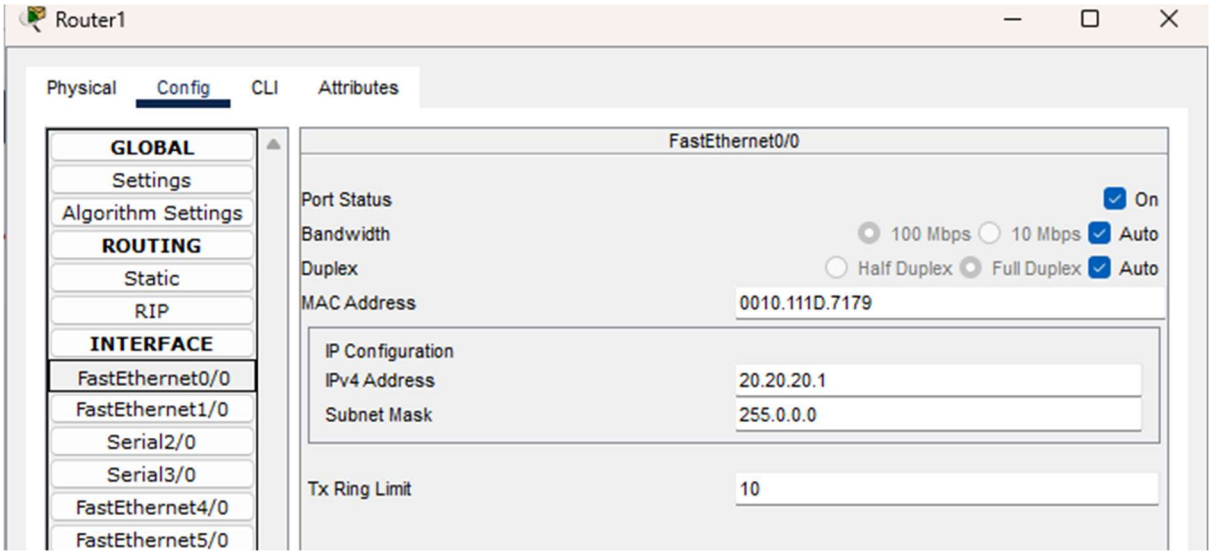
- **Configuring PC8:**



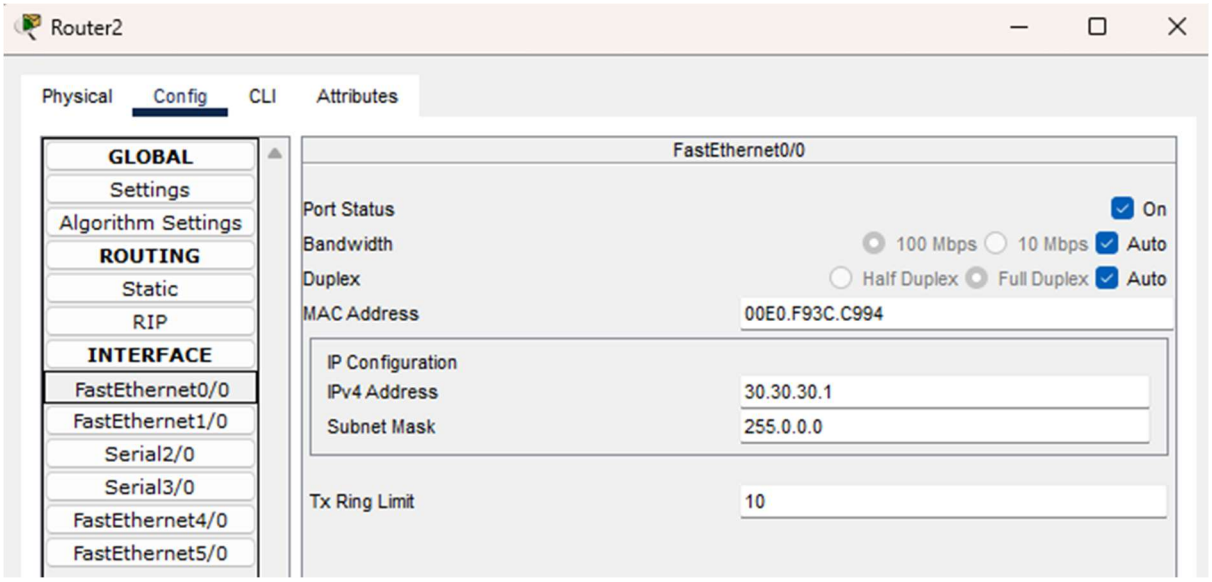
- **Router0 Configuration With PC0,PC1,PC2:**



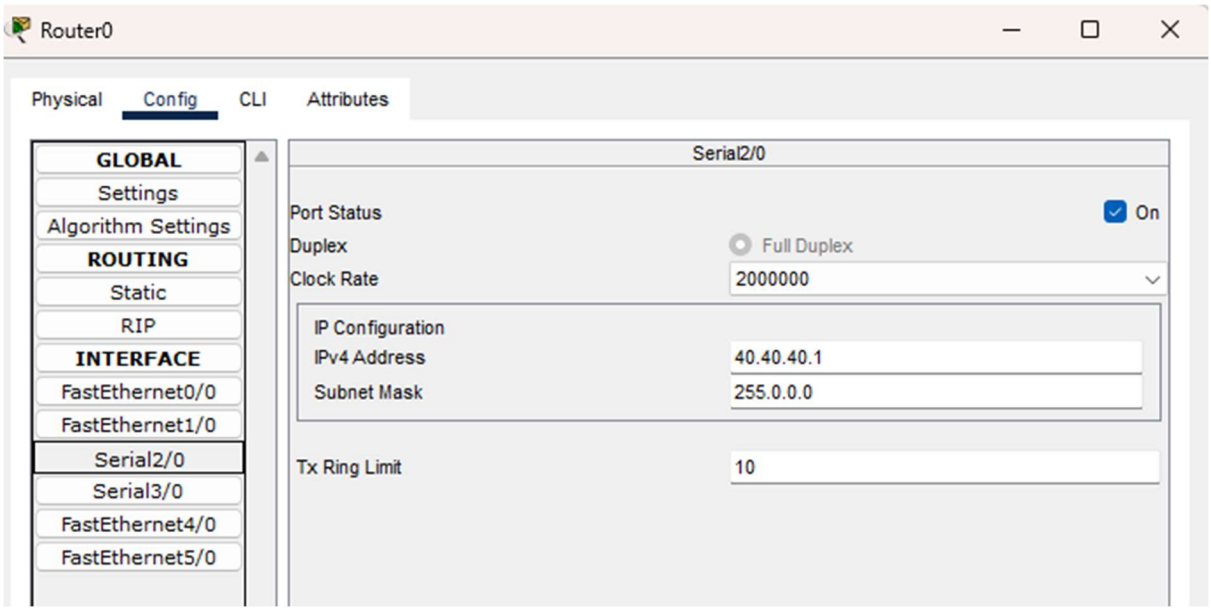
- **Router1 Configuration With PC3,PC4,PC5:**



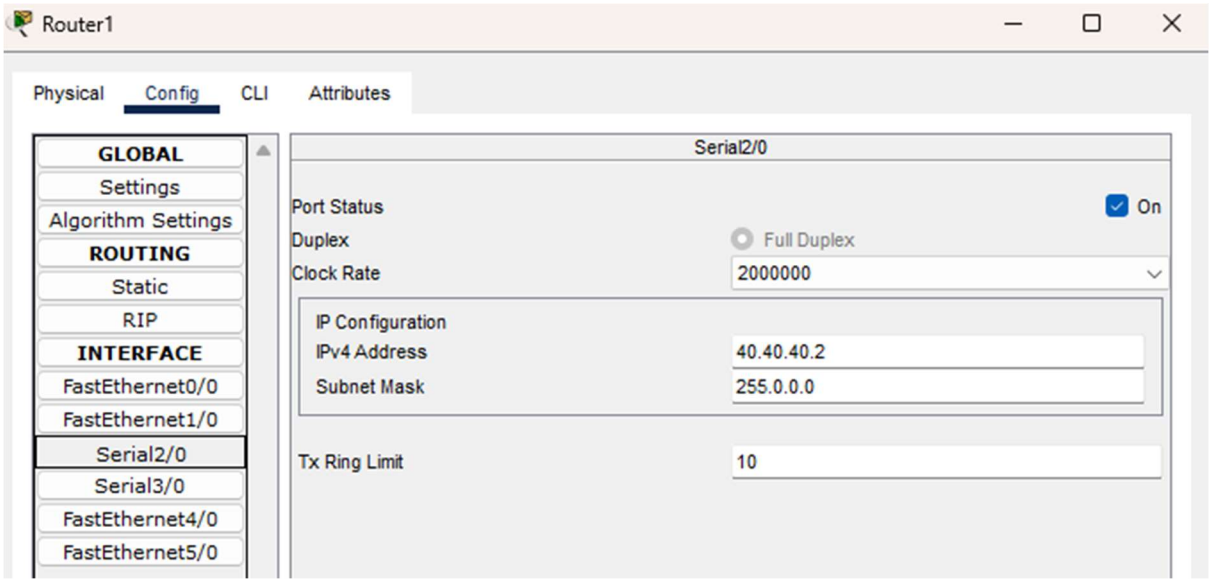
- **Router2 Configuration With PC6,PC7,PC8:**



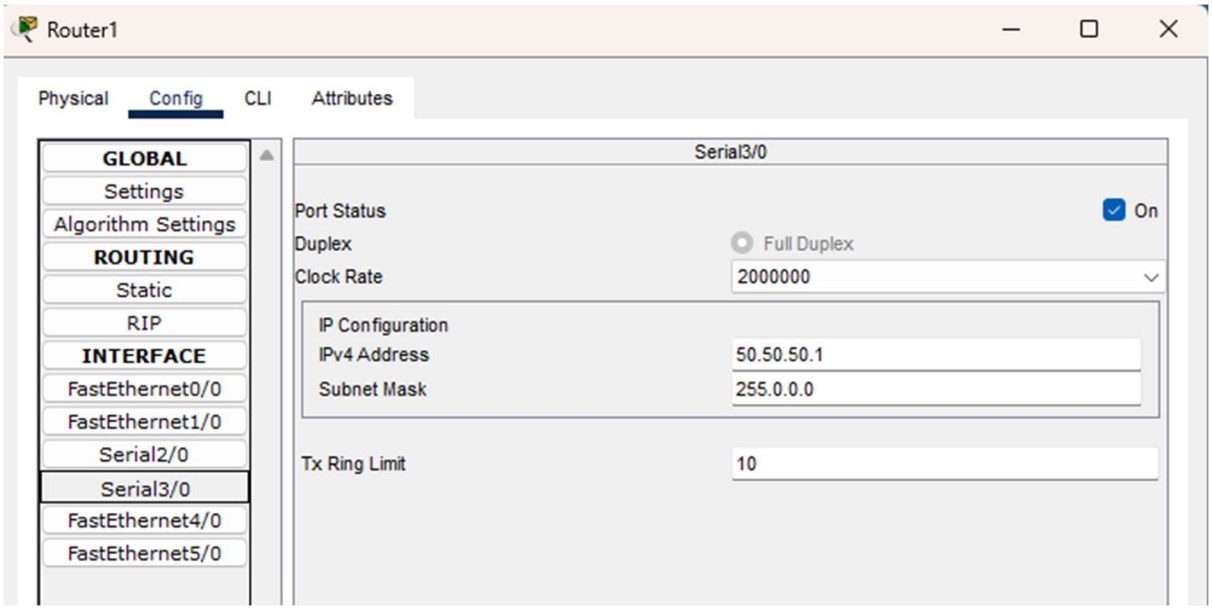
- **Router0 Configuration With Router1:**



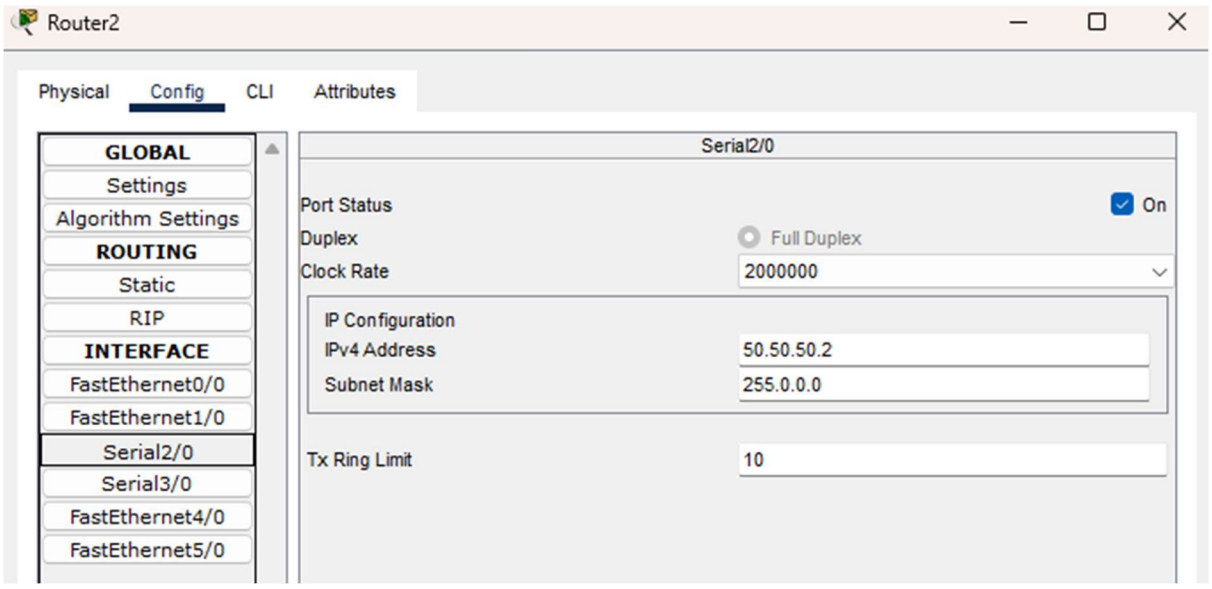
- **Router1 Configuration With Router0:**



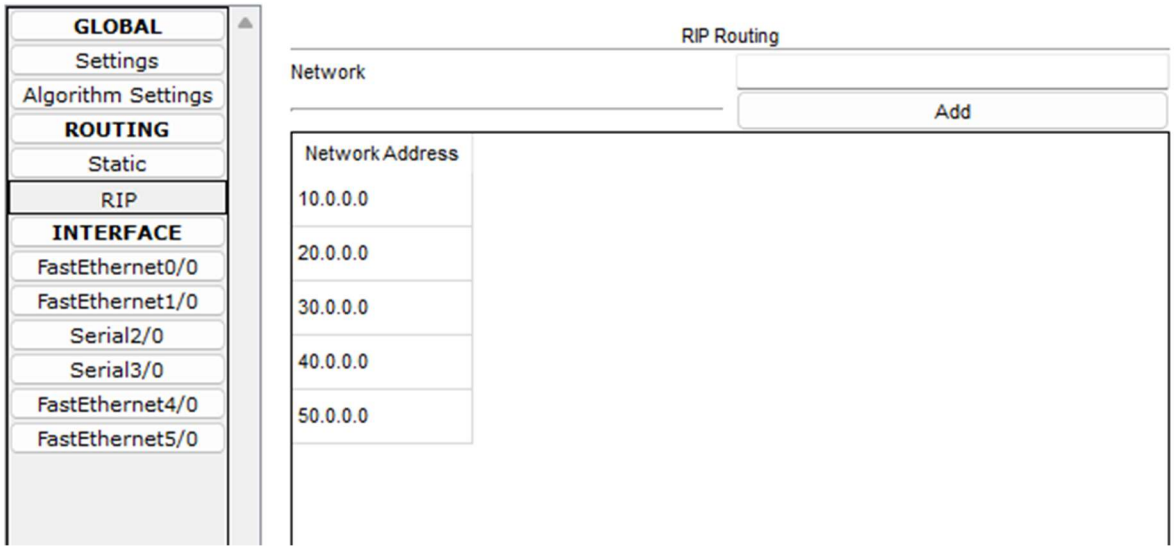
- **Router1 Configuration With Router2:**



- **Router2 Configuration With Router1:**



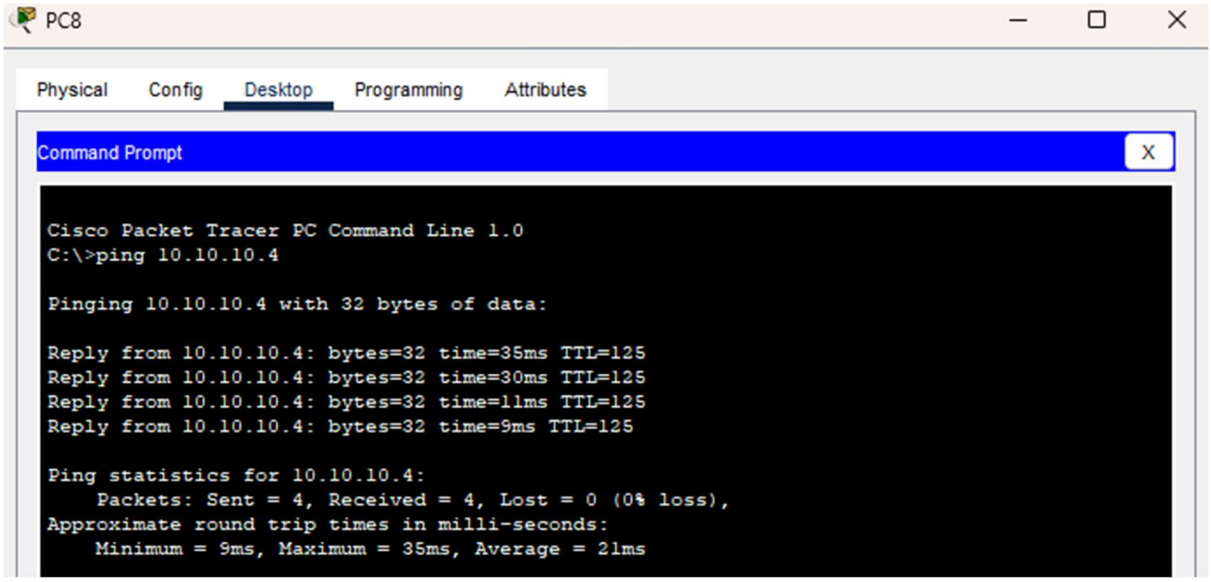
- **RIP Configuration For All Routers:**



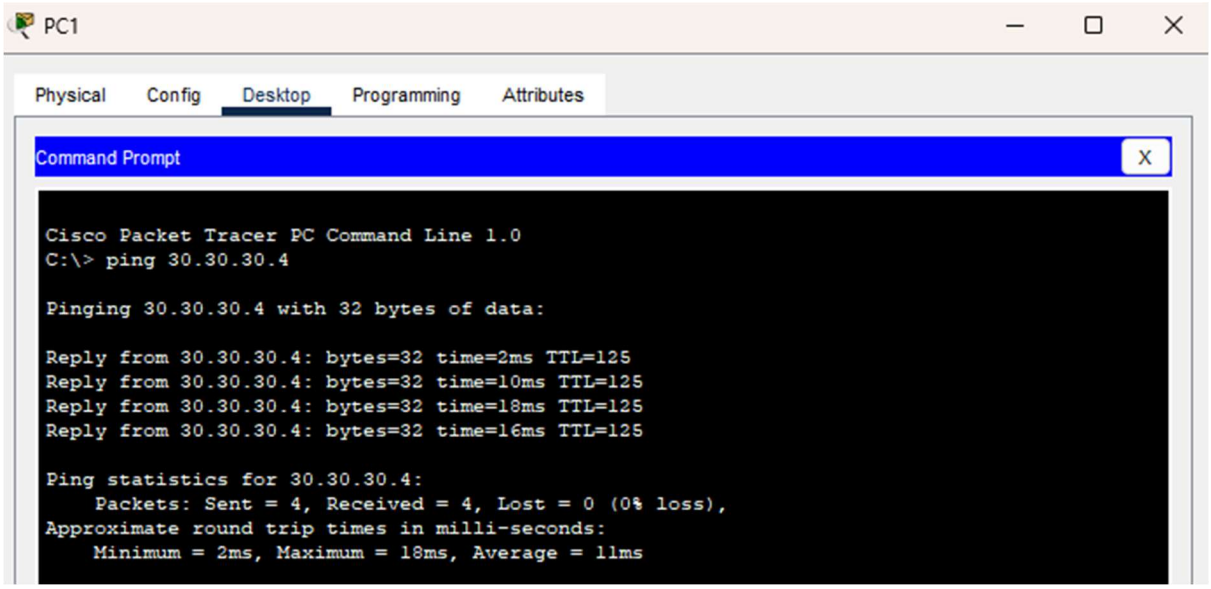
```
Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#router rip
Router(config-router)#
Router(config-router)#end
Router#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#interface FastEthernet0/0
Router(config-if)#
%SYS-5-CONFIG_I: Configured from console by console
ip address 10.10.10.1 255.0.0.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial2/0
Router(config-if)#ip address 40.40.40.1 255.0.0.0
Router(config-if)#ip address 40.40.40.1 255.0.0.0
Router(config-if)#
Router(config-if)#exit
Router(config)#router rip
Router(config-router)#network 10.0.0.0
Router(config-router)#network 20.0.0.0
Router(config-router)#network 30.0.0.0
Router(config-router)#network 40.0.0.0
Router(config-router)#network 50.0.0.0
Router(config-router)#
Router(config-router)#end
Router#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#
Router(config)#
%SYS-5-CONFIG_I: Configured from console by console
```

Fig :- CLI

- **Pinging PC2 (IP address 10.10.10.2) from PC8**



- **Pinging PC8 (IP address 30.30.30.4) from PC1**



Similarly the ping message can be checked for all the devices.

Result :-

Hence the RIPv1 has been studied and verified through the given network.