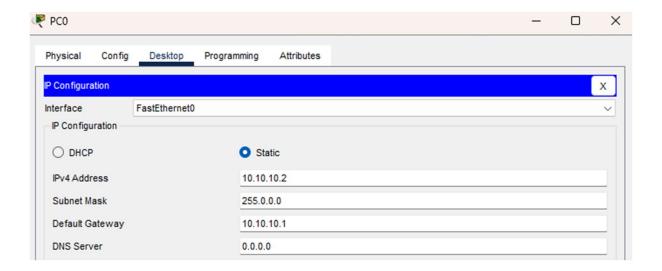
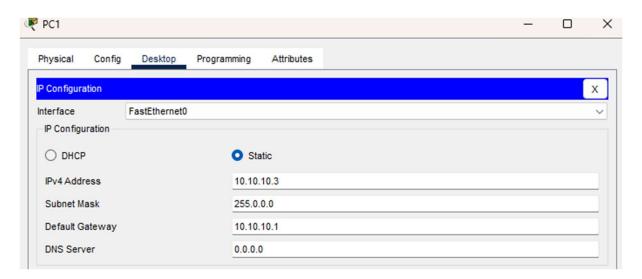
Implementation:

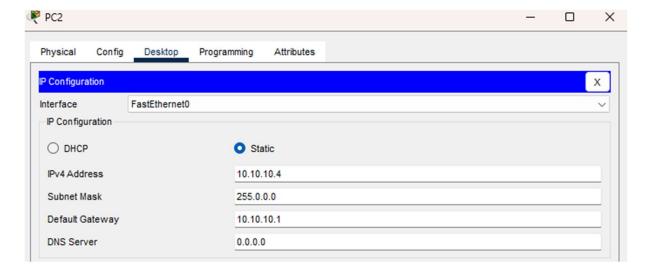
Configuring PC0:



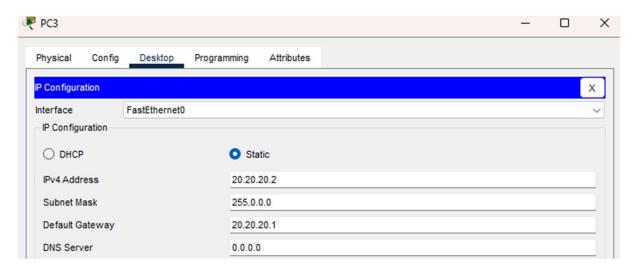
• Configuring PC1:



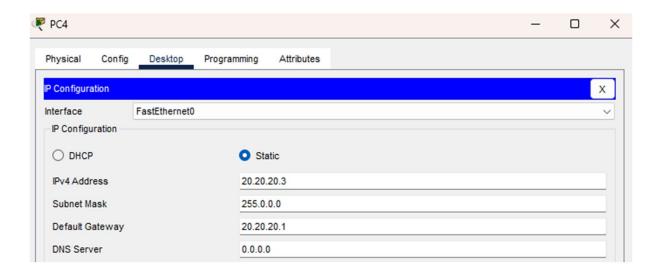
• Configuring PC2:



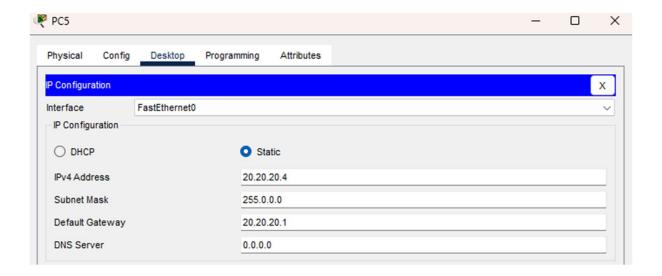
• Configuring PC3:



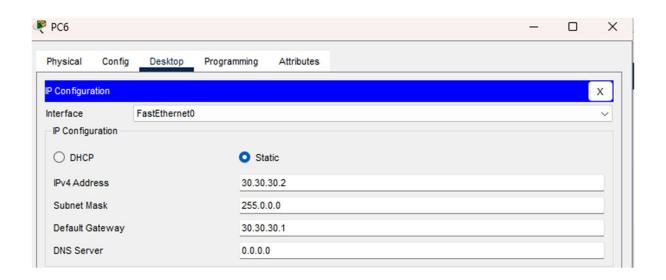
• Configuring PC4:



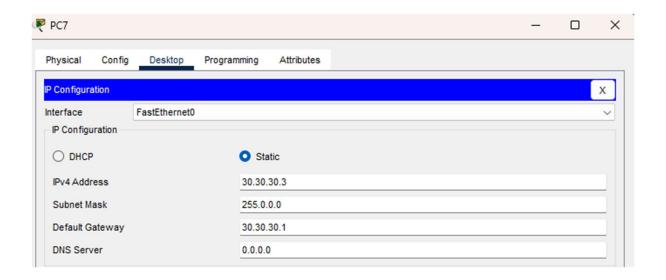
• Configuring PC5:



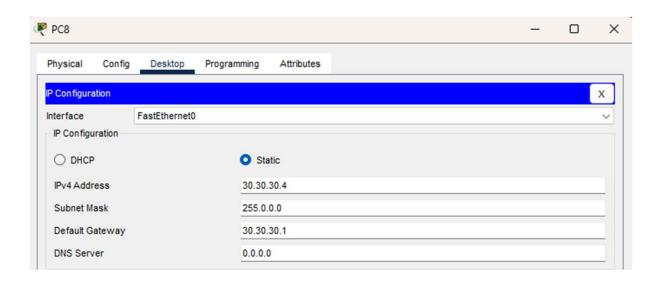
• Configuring PC6:



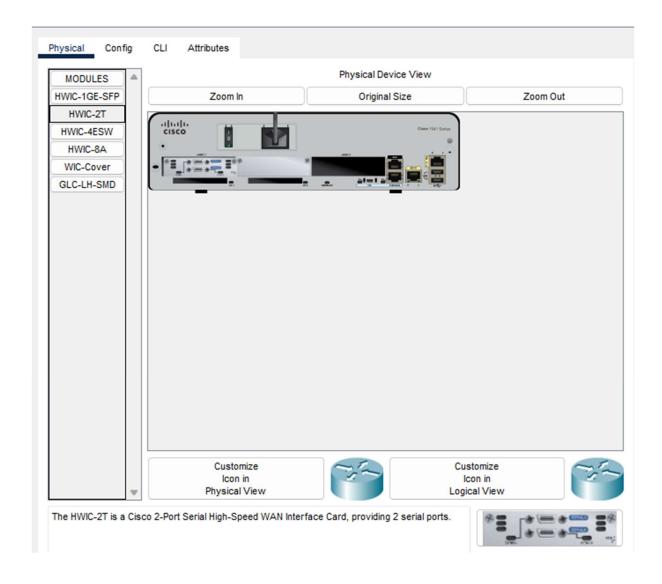
• Configuring PC7:



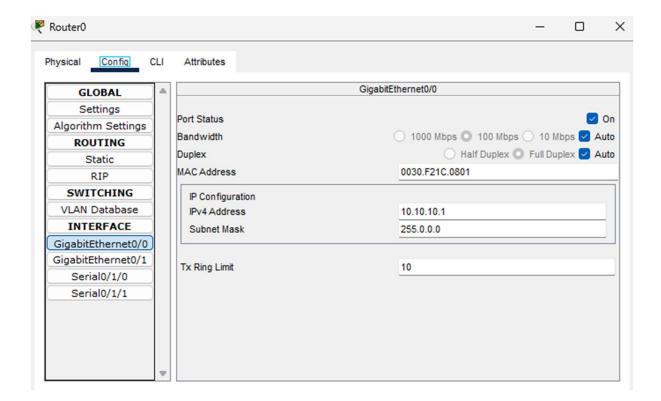
• Configuring PC8:



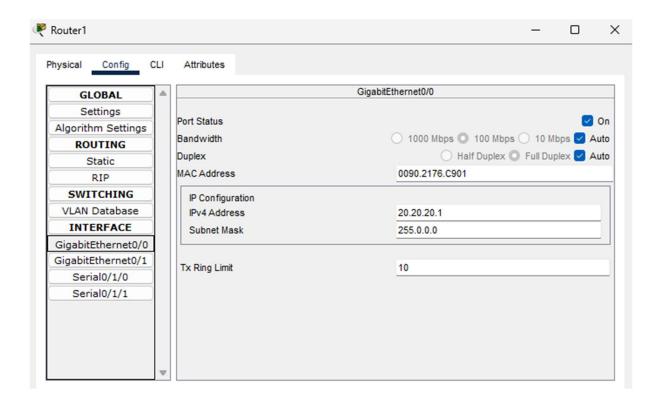
 Set Serial Interface (HWIC-2T Port) For All Routers:-



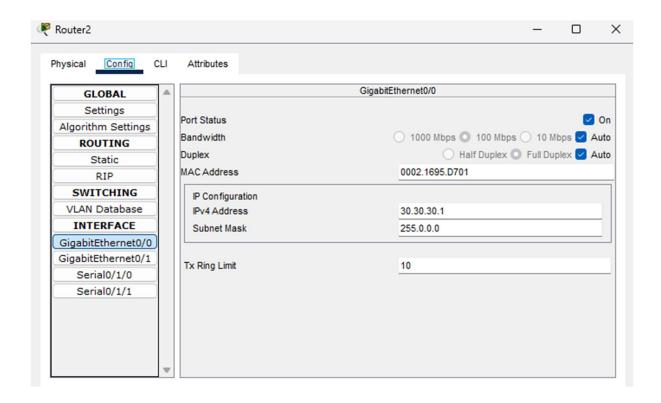
• Router0 Configuration With PC0,PC1,PC2:



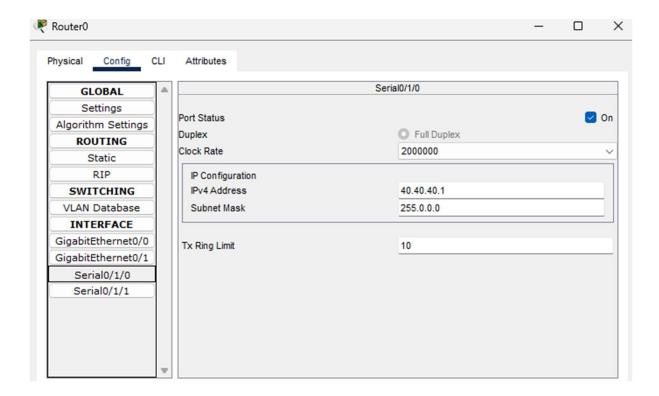
• Router1 Configuration With PC3,PC4,PC5:



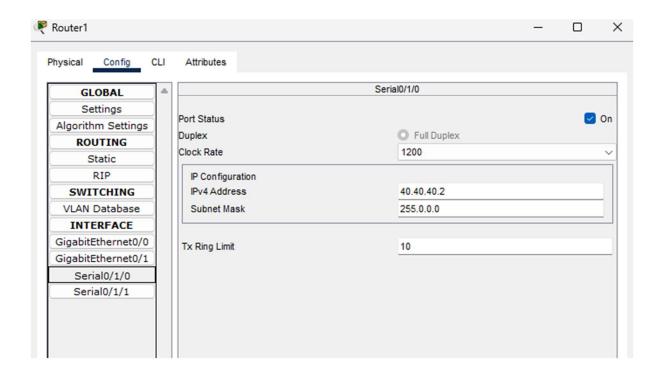
• Router2 Configuration With PC6,PC7,PC8:



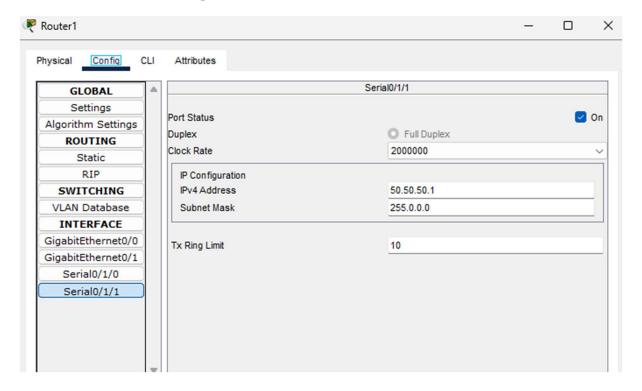
• Router0 Configuration With Router1:



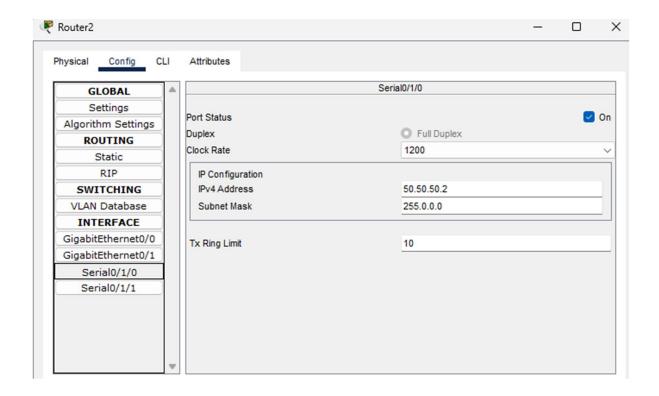
• Router1 Configuration With Router0:



• Router1 Configuration With Router2:



• Router2 Configuration With Router1:



Configuring Router0 for RIPv2 as <u>version 2</u> in the CLI

Router(config-if)#

Router(config-if)#exit

Router(config)#router rip

Router(config-router)#version 2

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)#

Router(config-router)#end

Router#

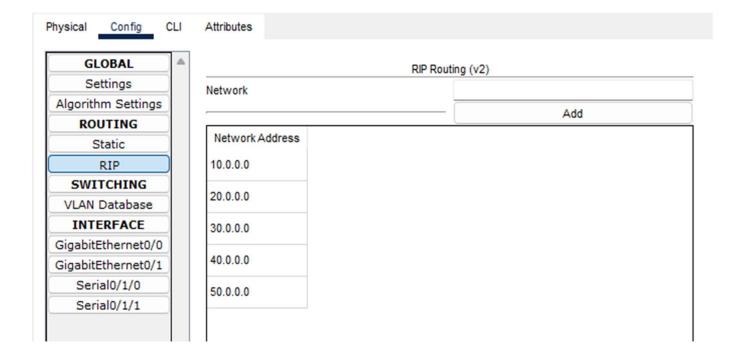
Configuring Router1 for RIPv2 as <u>version 2</u> in the CLI

Router(config-if)#
Router(config-if)#exit
Router(config)#router rip
Router(config-router)#version 2
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)#
Router(config-router)#
Router(config-router)#
Router(config-router)#end
Router#

Configuring Router2 for RIPv2 as <u>version 2</u> in the CLI

Router(config-if)#
Router(config-if)#exit
Router(config)#router rip
Router(config-router)#version 2
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)#
Router(config-router)#
Router(config-router)#
Router(config-router)#end
Router#

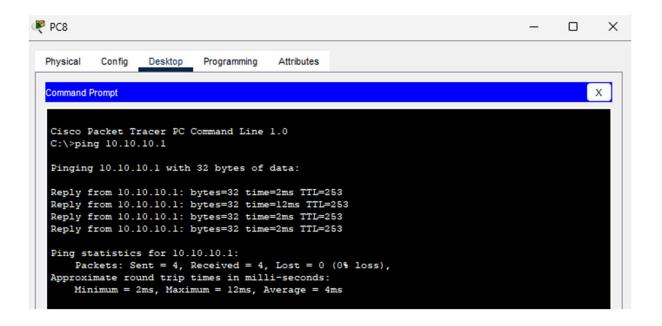
Therefore For All Routers:-



- Checking the connectivity by using the ping command
- i) Pinging PC8 (IP address 30.30.30.4) from PC0

```
PC0
  Physical
            Config
                      Desktop
                                Programming
                                                 Attributes
   Command Prompt
                                                                                                                X
   Cisco Packet Tracer PC Command Line 1.0
   C:\>ping 30.30.30.4
   Pinging 30.30.30.4 with 32 bytes of data:
   Reply from 30.30.30.4: bytes=32 time=28ms TTL=125
   Reply from 30.30.30.4: bytes=32 time=12ms TTL=125 Reply from 30.30.30.4: bytes=32 time=14ms TTL=125
   Reply from 30.30.30.4: bytes=32 time=15ms TTL=125
   Ping statistics for 30.30.30.4:
   Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds:
        Minimum = 12ms, Maximum = 28ms, Average = 17ms
```

ii) Pinging PC0 (IP address 10.10.10.1) from PC8



Result:-

Hence the RIPv2 has been studied and verified through the given network.