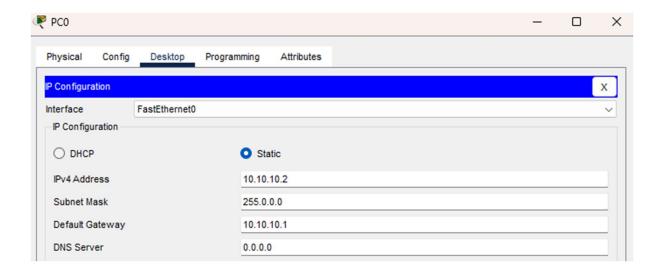
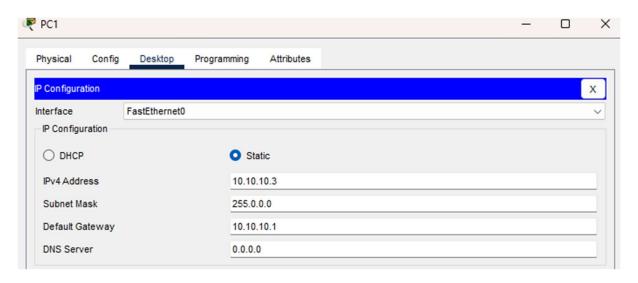
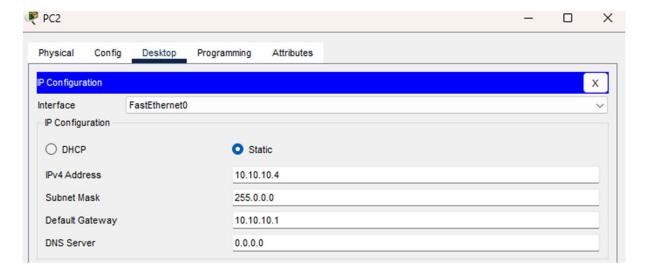
#### **Implementation:**



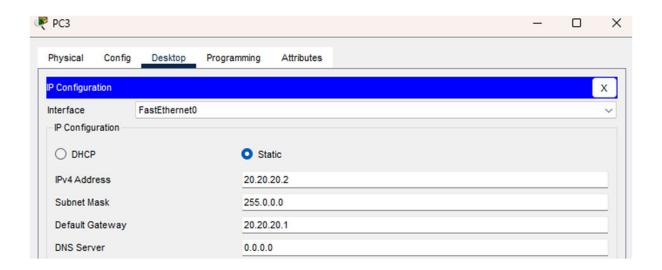
## • Configuring PC1:



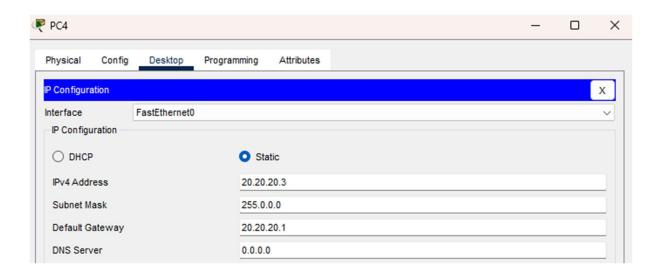
## • Configuring PC2:



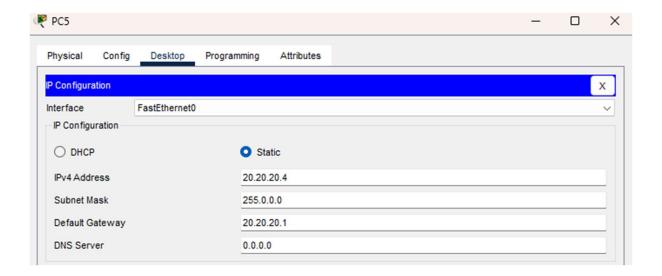
# • Configuring PC3:



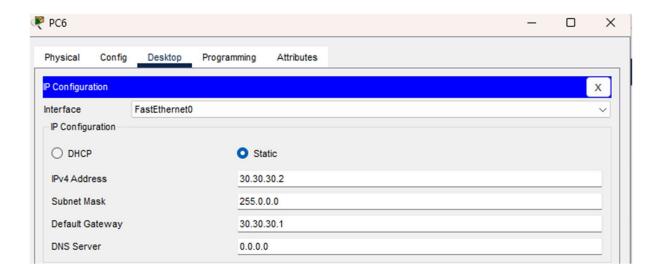
# • Configuring PC4:



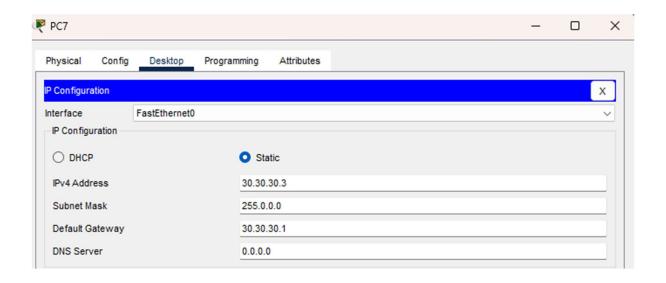
## • Configuring PC5:



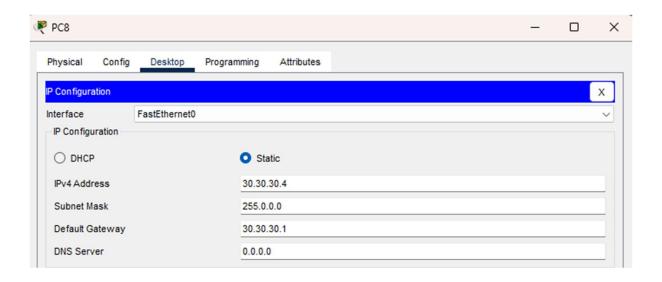
## • Configuring PC6:



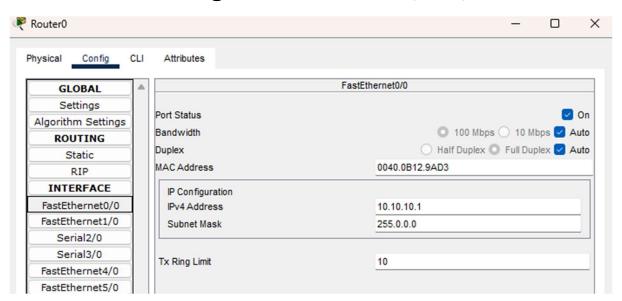
## • Configuring PC7:



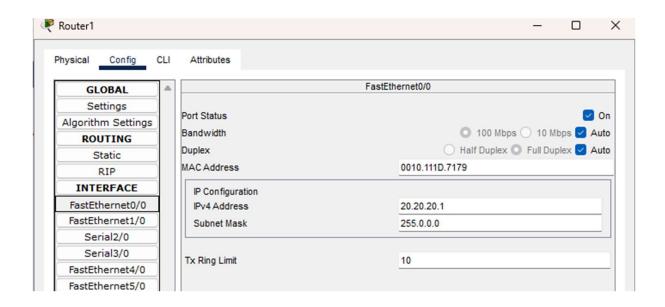
#### • Configuring PC8:



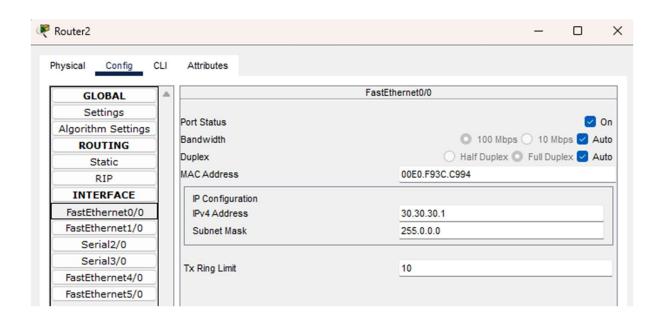
#### • Router0 Configuration With PC0,PC1,PC2:



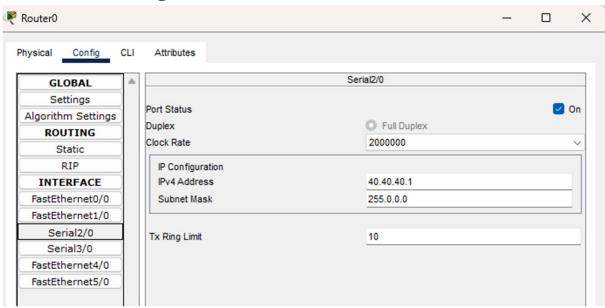
#### • Router1 Configuration With PC3,PC4,PC5:



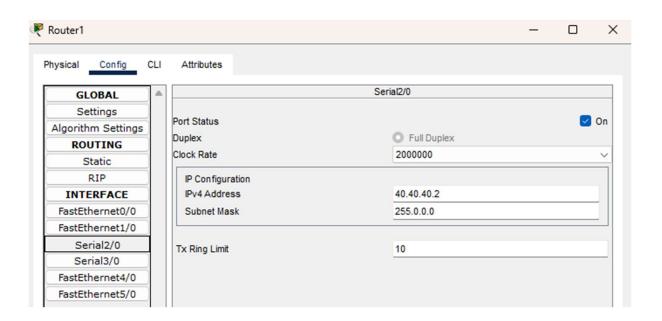
• Router2 Configuration With PC6,PC7,PC8:



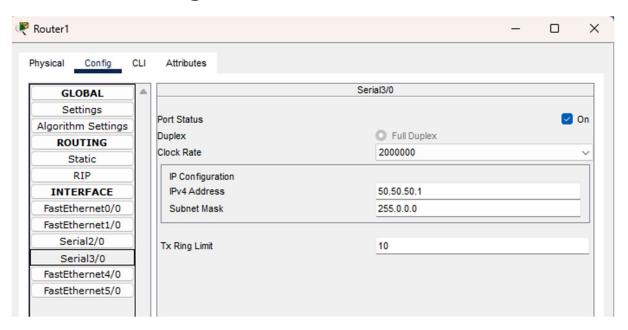
Router0 Configuration With Router1:



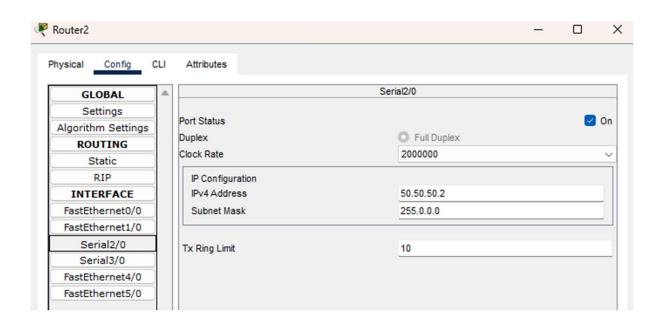
• Router1 Configuration With Router0:



• Router1 Configuration With Router2:



Router2 Configuration With Router1:



# • RIP Configuration For All Routers:

GLOBAL	_	RIP Routing		
Settings		Network		
Algorithm Settings			Add	
ROUTING			700	
Static		Network Address		
RIP	]	10.0.0.0		
INTERFACE	20.0.0.0 30.0.0.0 40.0.0.0 50.0.0.0	20.0.0.0		
FastEthernet0/0				
FastEthernet1/0		30.0.0.0		
Serial2/0		40.0.0.0		
Serial3/0				
FastEthernet4/0		50.0.0.0		
FastEthernet5/0				

```
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

```
₹ PC8
                                                                                        X
 Physical
          Confia
                 Desktop
                           Programming
                                        Attributes
  Command Prompt
                                                                                            X
  Cisco Packet Tracer PC Command Line 1.0
  C:\>ping 10.10.10.4
  Pinging 10.10.10.4 with 32 bytes of data:
  Reply from 10.10.10.4: bytes=32 time=35ms TTL=125
  Reply from 10.10.10.4: bytes=32 time=30ms TTL=125
  Reply from 10.10.10.4: bytes=32 time=11ms TTL=125
  Reply from 10.10.10.4: bytes=32 time=9ms TTL=125
  Ping statistics for 10.10.10.4:
      Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
  Approximate round trip times in milli-seconds:
      Minimum = 9ms, Maximum = 35ms, Average = 21ms
```

Pinging PC8 (IP address 30.30.30.4) from PC1

```
₹ PC1
                                                                                                X
                              Programming
  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=2ms TTL=125
  Reply from 30.30.30.4: bytes=32 time=10ms TTL=125
  Reply from 30.30.30.4: bytes=32 time=18ms TTL=125
  Reply from 30.30.30.4: bytes=32 time=16ms 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 = 2ms, Maximum = 18ms, Average = 11ms
```

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

#### Result :-

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