

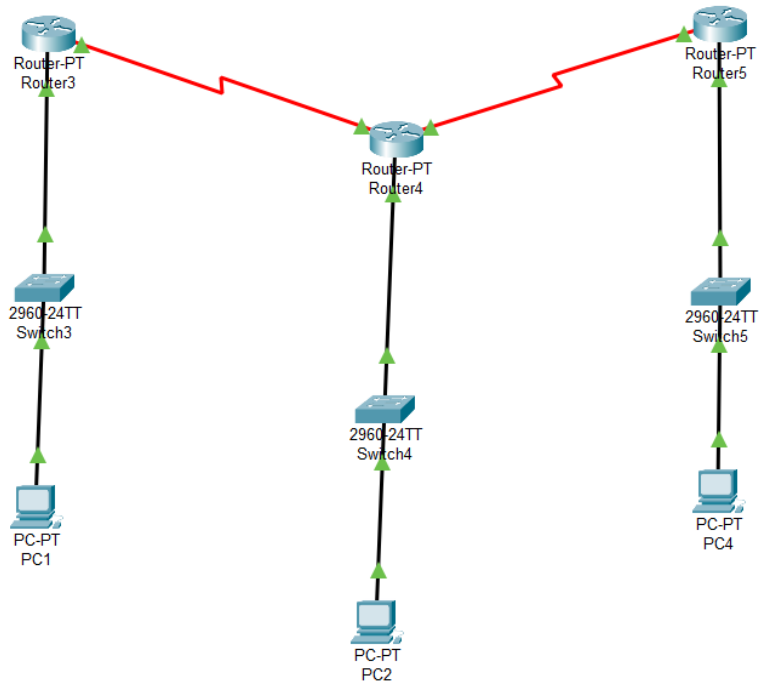
COMPUTER NETWORKS

TASK-8

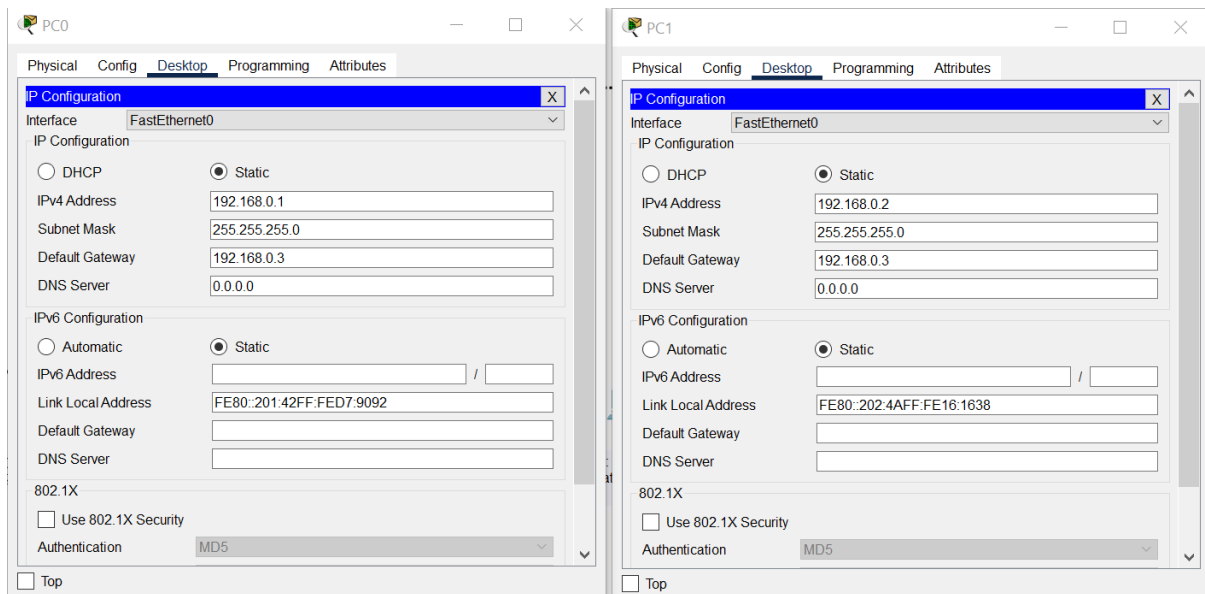
NAME: MAJJIGA JASWANTH

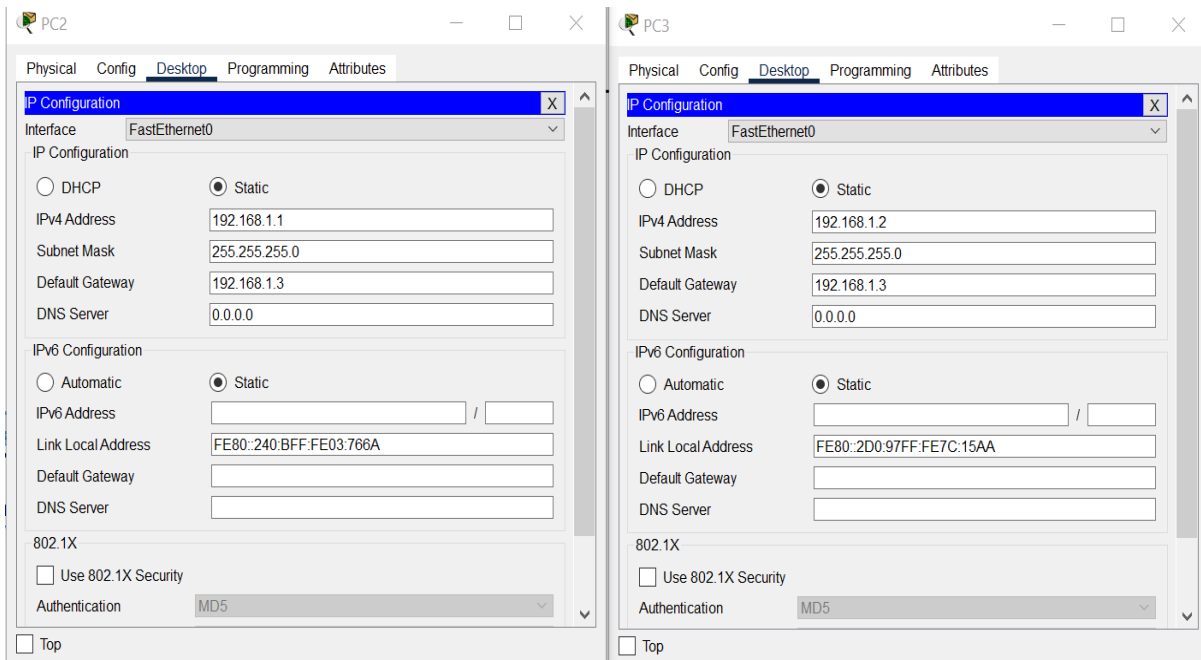
REG. NO-20BCD7171

TOPOLOGY:

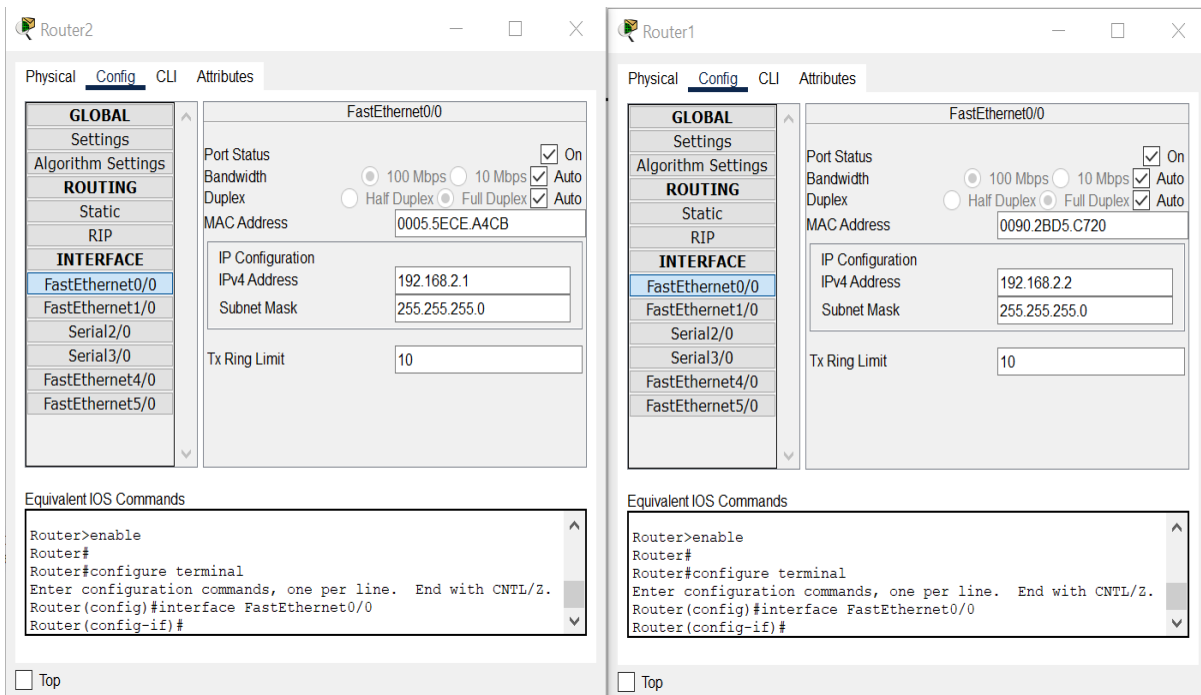


SETTING PC IP ADDRESSES AND GATEWAYS:





ROUTER IP and connections:



ROUTER RIP :

Router3

PhysicalConfigCLIAttributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

INTERFACE

FastEthernet0/0

FastEthernet1/0

Serial2/0

Serial3/0

FastEthernet4/0

FastEthernet5/0

RIP Routing

Network

Network Address

10.0.0.0

12.0.0.0

192.168.0.0

Add

Remove

Equivalent IOS Commands

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

Router(config-if)#exit

Router(config)#router rip

Router(config-router)#

☐ Top

Router4

PhysicalConfigCLIAttributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

INTERFACE

FastEthernet0/0

FastEthernet1/0

Serial2/0

Serial3/0

FastEthernet4/0

FastEthernet5/0

RIP Routing

Network

Network Address

10.0.0.0

12.0.0.0

192.168.1.0

Add

Remove

Equivalent IOS Commands

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0,

changed state to up

Router>enable

Router#

Router#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#router rip

Router(config-router)#

☐ Top

Router5

PhysicalConfigCLIAttributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

INTERFACE

FastEthernet0/0

FastEthernet1/0

Serial2/0

Serial3/0

FastEthernet4/0

FastEthernet5/0

RIP Routing

Network

Network Address

10.0.0.0

12.0.0.0

192.168.2.0

Add

Remove

Equivalent IOS Commands

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0,

changed state to up

Router>enable

Router#

Router#configure terminal

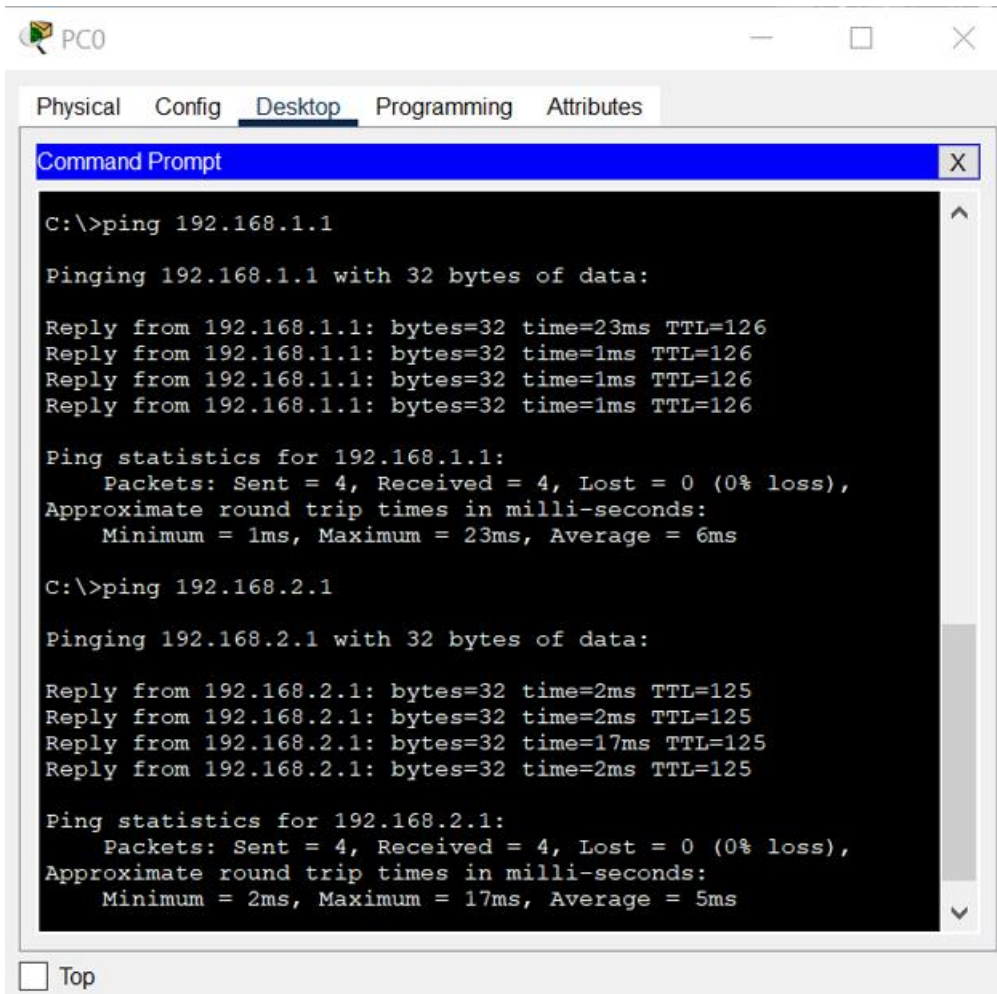
Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#router rip

Router(config-router)#

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Ping operation:



The screenshot shows a window titled "PC0" with tabs for "Physical", "Config", "Desktop", "Programming", and "Attributes". The "Desktop" tab is active, displaying a "Command Prompt" window. The Command Prompt shows the execution of two ping commands. The first command is "C:\>ping 192.168.1.1", which results in four successful replies from 192.168.1.1 with 32 bytes of data, times of 23ms, 1ms, 1ms, and 1ms, and a TTL of 126. The ping statistics for 192.168.1.1 show 4 packets sent, 4 received, 0 lost (0% loss), and approximate round trip times of 1ms (minimum), 23ms (maximum), and 6ms (average). The second command is "C:\>ping 192.168.2.1", which results in four successful replies from 192.168.2.1 with 32 bytes of data, times of 2ms, 2ms, 17ms, and 2ms, and a TTL of 125. The ping statistics for 192.168.2.1 show 4 packets sent, 4 received, 0 lost (0% loss), and approximate round trip times of 2ms (minimum), 17ms (maximum), and 5ms (average). A "Top" button is visible at the bottom left of the Command Prompt window.

```
C:\>ping 192.168.1.1

Pinging 192.168.1.1 with 32 bytes of data:

Reply from 192.168.1.1: bytes=32 time=23ms TTL=126
Reply from 192.168.1.1: bytes=32 time=1ms TTL=126
Reply from 192.168.1.1: bytes=32 time=1ms TTL=126
Reply from 192.168.1.1: bytes=32 time=1ms TTL=126

Ping statistics for 192.168.1.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 23ms, Average = 6ms

C:\>ping 192.168.2.1

Pinging 192.168.2.1 with 32 bytes of data:

Reply from 192.168.2.1: bytes=32 time=2ms TTL=125
Reply from 192.168.2.1: bytes=32 time=2ms TTL=125
Reply from 192.168.2.1: bytes=32 time=17ms TTL=125
Reply from 192.168.2.1: bytes=32 time=2ms TTL=125

Ping statistics for 192.168.2.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 2ms, Maximum = 17ms, Average = 5ms
```

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