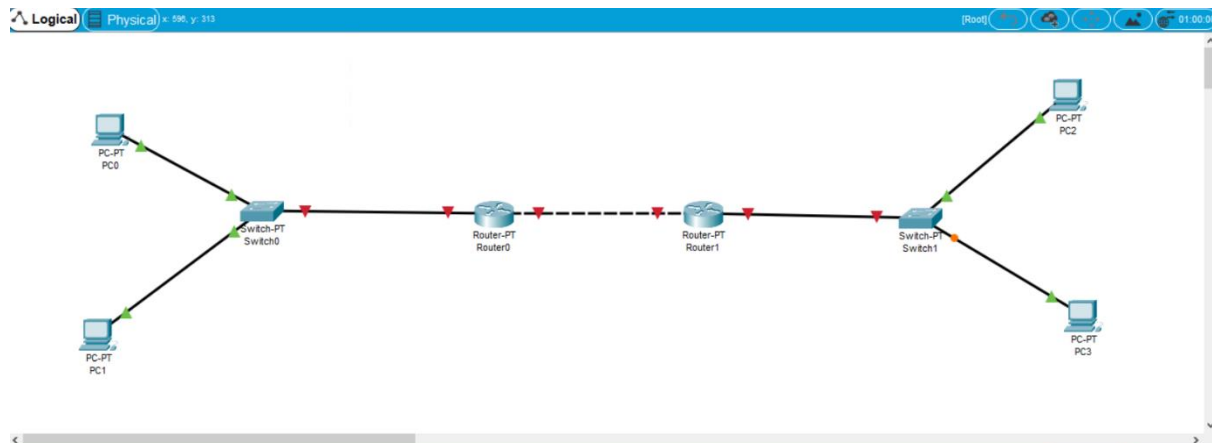Cisco Packet Tracer Lab- 4 : (Two different network connected by each other via two router and each router contain one switch and 2 pc)

.Each pc can pingable to each other.

PC1

Physical   Config   **Desktop**   Programming   Attributes

IP Configuration   X

Interface   FastEthernet0

IP Configuration

○ DHCP   ● Static

IP Address   192.168.0.3

Subnet Mask   255.255.255.0

Default Gateway   192.168.0.1

DNS Server   0.0.0.0

IPv6 Configuration

○ DHCP   ○ Auto Config   ● Static

IPv6 Address   /

Link Local Address   FE80::206:2AFF:FE37:D9DE

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

☐ Top

PC2

Physical   Config   **Desktop**   Programming   Attributes

IP Configuration   X

Interface   FastEthernet0

IP Configuration

○ DHCP   ● Static

IP Address   172.16.0.2

Subnet Mask   255.255.0.0

Default Gateway   172.16.0.1

DNS Server   0.0.0.0

IPv6 Configuration

○ DHCP   ○ Auto Config   ● Static

IPv6 Address   /

Link Local Address   FE80::202:17FF:FE75:3C56

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

☐ Top

PC3

Physical   Config   Desktop   Programming   Attributes

IP Configuration   X

Interface   FastEthernet0

IP Configuration

○ DHCP   ● Static

IP Address   172.16.0.3

Subnet Mask   255.255.0.0

Default Gateway   172.16.0.1

DNS Server   0.0.0.0

IPv6 Configuration

○ DHCP   ○ Auto Config   ● Static

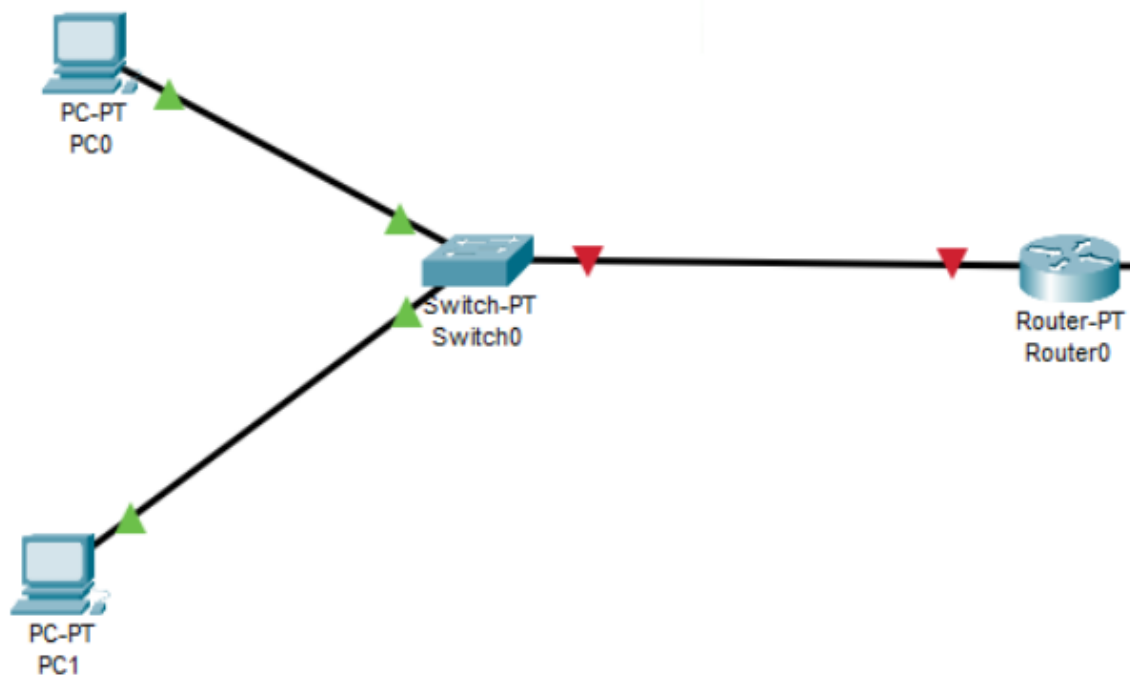IPv6 Address   /

Link Local Address   FE80::2E0:B0FF:FE56:1845

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

☐ Top

Router0 — FastEthernet0/0 Configuration

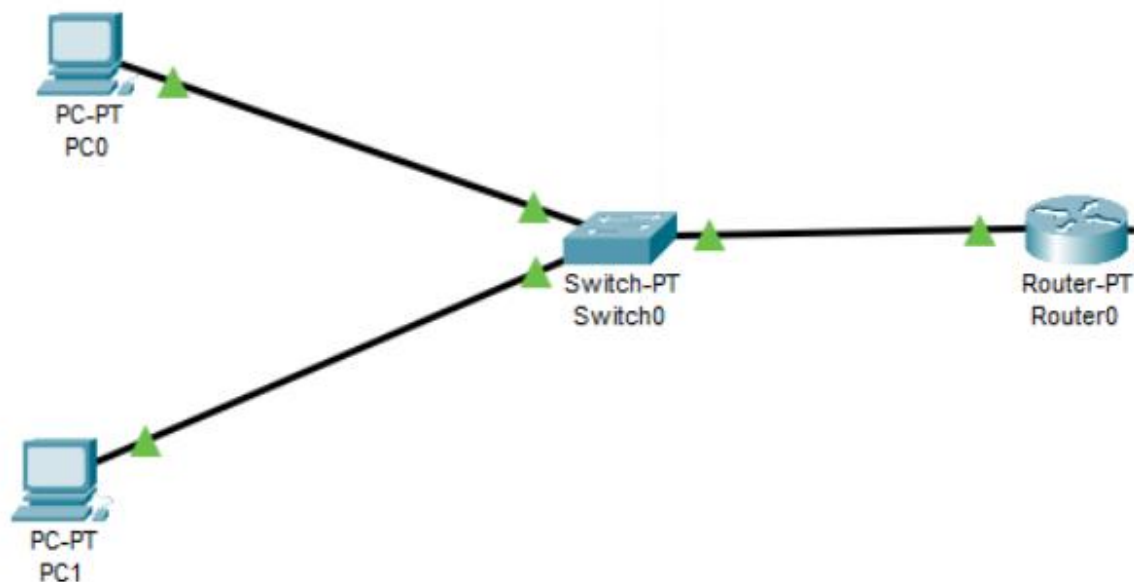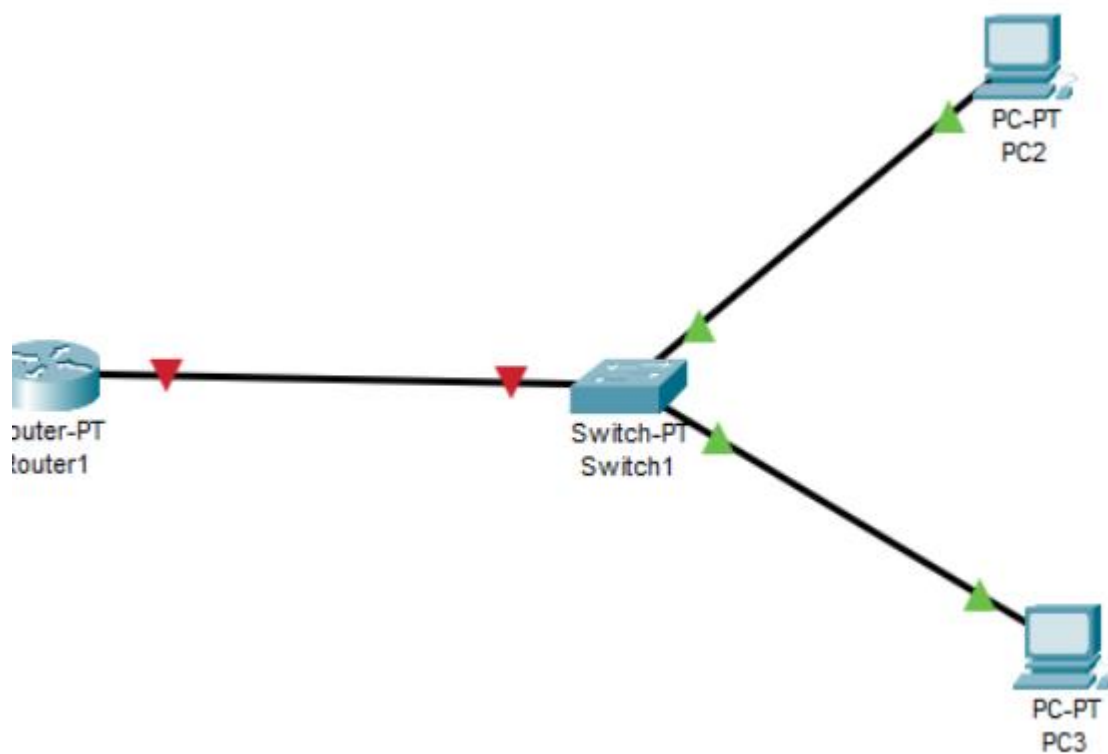| Field	Value
Port Status	On
Bandwidth	100 Mbps / 10 Mbps — Auto
Duplex	Half Duplex / Full Duplex — Auto
MAC Address	0007.ECBE.873D
IP Address	192.168.0.1
Subnet Mask	255.255.255.0
Tx Ring Limit	10

Equivalent IOS Commands

```
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)#interface FastEthernet0/0
Router(config-if)#
```


PC-PT
PC0

Switch-PT
Switch0

Router-PT
Router0

PC-PT
PC1

Router2 — □ ×

Physical   Config   CLI   Attributes

GLOBAL
Settings
Algorithm Settings
ROUTING
Static
RIP
INTERFACE
FastEthernet0/0
FastEthernet1/0
Serial2/0
Serial3/0
FastEthernet4/0
FastEthernet5/0

FastEthernet0/0

Port Status   ☑ On
Bandwidth   ◉ 100 Mbps ○ 10 Mbps ☑ Auto
Duplex   ○ Half Duplex ◉ Full Duplex ☑ Auto
MAC Address   00D0.9762.31A7

IP Configuration
IP Address   172.16.0.1
Subnet Mask   255.255.0.0

Tx Ring Limit   10
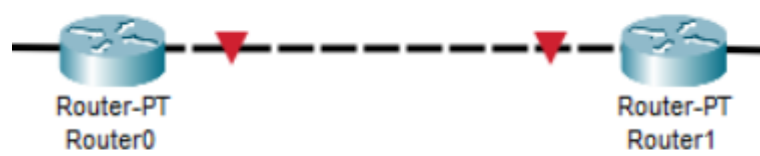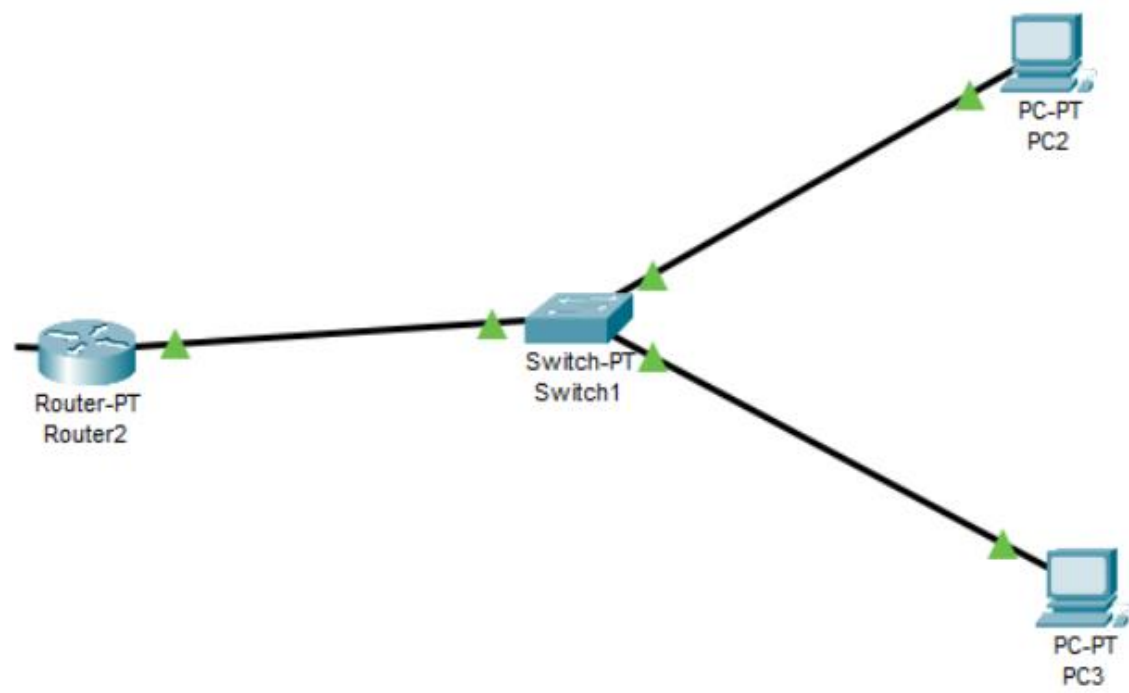
Equivalent IOS Commands

```
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
```

☐ Top

Router-PT
Router2

Switch-PT
Switch1

PC-PT
PC2

PC-PT
PC3

Router-PT
Router0

Router-PT
Router1

Router0

Physical | **Config** | **CLI** | **Attributes**

GLOBAL
- Settings
- Algorithm Settings

ROUTING
- Static
- RIP

INTERFACE
- FastEthernet0/0
- **FastEthernet1/0**
- Serial2/0
- Serial3/0
- FastEthernet4/0
- FastEthernet5/0

FastEthernet1/0

Field	Value
Port Status	☑ On
Bandwidth	◉ 100 Mbps ◯ 10 Mbps ☑ Auto
Duplex	◯ Half Duplex ◉ Full Duplex ☑ Auto
MAC Address	0060.7098.D894

IP Configuration

Field	Value
IP Address	10.0.0.1
Subnet Mask	255.0.0.0
Tx Ring Limit	10

Equivalent IOS Commands

```
%SYS-5-CONFIG_I: Configured from console by console

Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet1/0
Router(config-if)#
```

☐ Top

Router2

Physical | **Config** | **CLI** | **Attributes**

GLOBAL
- Settings
- Algorithm Settings

ROUTING
- Static
- RIP

INTERFACE
- FastEthernet0/0
- **FastEthernet1/0**
- Serial2/0
- Serial3/0
- FastEthernet4/0
- FastEthernet5/0

FastEthernet1/0

Field	Value
Port Status	☑ On
Bandwidth	◉ 100 Mbps ◯ 10 Mbps ☑ Auto
Duplex	◯ Half Duplex ◉ Full Duplex ☑ Auto
MAC Address	0060.70D2.6479

IP Configuration

Field	Value
IP Address	10.0.0.2
Subnet Mask	255.0.0.0
Tx Ring Limit	10

Equivalent IOS Commands

```
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)#interface FastEthernet1/0
Router(config-if)#
```
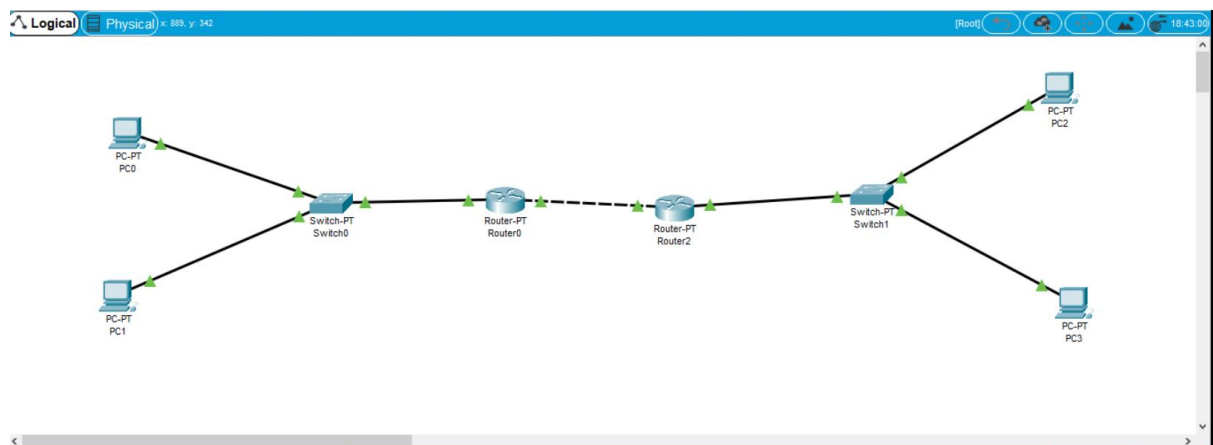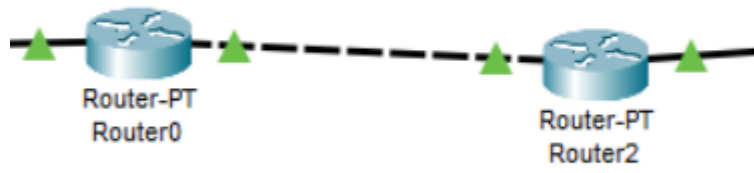
☐ Top

Router-PT
Router0

Router-PT
Router2

Logical | Physical x: 889, y: 342 [Root] 18:43:00

PC-PT
PC0

PC-PT
PC1

Switch-PT
Switch0

Router-PT
Router0

Router-PT
Router2

Switch-PT
Switch1

PC-PT
PC2

PC-PT
PC3

Router0

Physical | Config | CLI | Attributes

GLOBAL
Settings
Algorithm Settings
ROUTING
Static
RIP
INTERFACE
FastEthernet0/0
FastEthernet1/0
Serial2/0
Serial3/0
FastEthernet4/0
FastEthernet5/0

RIP Routing

Network

Add

Network Address
10.0.0.0
172.16.0.0
192.168.0.0

Remove

Equivalent IOS Commands

```
Router(config)#interface FastEthernet0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet1/0
Router(config-if)#
Router(config-if)#exit
Router(config)#router rip
Router(config-router)#
```

☐ Top

Router2

Physical | Config | CLI | Attributes

GLOBAL
Settings
Algorithm Settings
ROUTING
Static
RIP
INTERFACE
FastEthernet0/0
FastEthernet1/0
Serial2/0
Serial3/0
FastEthernet4/0
FastEthernet5/0

RIP Routing

Network

Add

Network Address
10.0.0.0
172.16.0.0
192.168.0.0

Remove

Equivalent IOS Commands

```
%SYS-5-CONFIG_I: Configured from console by console

Router(config-if)#exit
Router(config)#interface FastEthernet1/0
Router(config-if)#
Router(config-if)#exit
Router(config)#router rip
Router(config-router)#
```

☐ Top

PC0

Physical | Config | Desktop | Programming | Attributes

Command Prompt

```
Usage: ping [-n count | -v TOS | -t ] target

C:\>ipconfig

FastEthernet0 Connection:(default port)

    Link-local IPv6 Address.........: FE80::290:2BFF:FE85:D8DE
    IP Address......................: 192.168.0.2
    Subnet Mask.....................: 255.255.255.0
    Default Gateway.................: 192.168.0.1

Bluetooth Connection:

    Link-local IPv6 Address.........: ::
    IP Address......................: 0.0.0.0
    Subnet Mask.....................: 0.0.0.0
    Default Gateway.................: 0.0.0.0

C:\>ping 172.16.0.2

Pinging 172.16.0.2 with 32 bytes of data:

Request timed out.
Reply from 172.16.0.2: bytes=32 time<1ms TTL=126
Reply from 172.16.0.2: bytes=32 time=1ms TTL=126
Reply from 172.16.0.2: bytes=32 time<1ms TTL=126
```

☐ Top

PC3

Physical | Config | Desktop | Programming | Attributes

Command Prompt

```
Packet Tracer PC Command Line 1.0
C:\>ipconfig

FastEthernet0 Connection:(default port)

    Link-local IPv6 Address.........: FE80::2E0:B0FF:FE56:1845
    IP Address......................: 172.16.0.3
    Subnet Mask.....................: 255.255.0.0
    Default Gateway.................: 172.16.0.1

Bluetooth Connection:

    Link-local IPv6 Address.........: ::
    IP Address......................: 0.0.0.0
    Subnet Mask.....................: 0.0.0.0
    Default Gateway.................: 0.0.0.0

C:\>ping 192.168.0.1

Pinging 192.168.0.1 with 32 bytes of data:

Reply from 192.168.0.1: bytes=32 time=1ms TTL=254
Reply from 192.168.0.1: bytes=32 time=1ms TTL=254
Reply from 192.168.0.1: bytes=32 time=1ms TTL=254
Reply from 192.168.0.1: bytes=32 time<1ms TTL=254
```

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