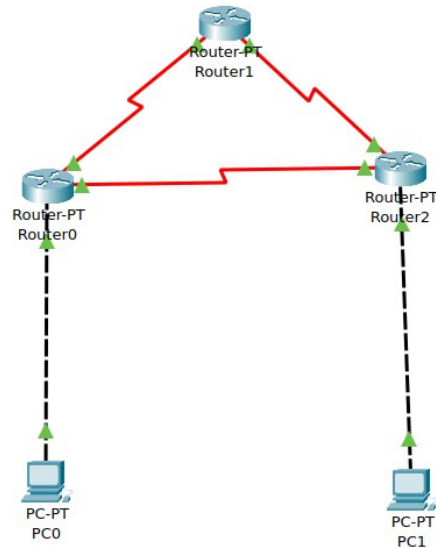


Experiment 9 : Simulate OSPF protocol in a topology.

Step 1:



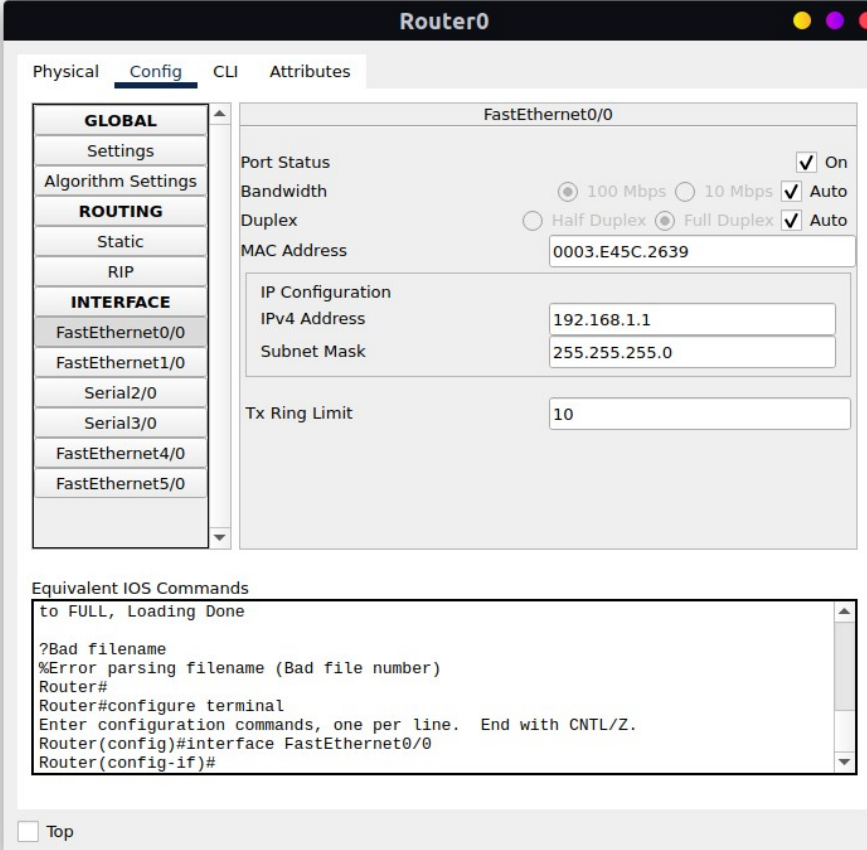
Step 2:

The screenshot shows the configuration window for PC0, specifically the 'Desktop' tab. The 'IP Configuration' section is active, showing the following settings for the 'FastEthernet0' interface:

- IP Configuration:**
 - ☐ DHCP
 - ☒ Static
 - IPv4 Address: 192.168.1.2
 - Subnet Mask: 255.255.255.0
 - Default Gateway: 192.168.1.1
 - DNS Server: 0.0.0.0
- IPv6 Configuration:**
 - ☐ Automatic
 - ☒ Static
 - IPv6 Address: (empty field) / (empty field)
 - Link Local Address: FE80::203:E4FF:FEC6:E333
 - Default Gateway: (empty field)
 - DNS Server: (empty field)
- 802.1X:**
 - ☐ Use 802.1X Security
 - Authentication: MD5

At the bottom left, there is a 'Top' button.

Step 3:



The screenshot shows the configuration window for the FastEthernet0/0 interface on Router0. The left sidebar has tabs for Physical, Config (selected), CLI, and Attributes. Under the Config tab, there are sections for GLOBAL, ROUTING, and INTERFACE. The INTERFACE section lists several interfaces, with FastEthernet0/0 selected. The main area displays configuration options for FastEthernet0/0: Port Status (On), Bandwidth (100 Mbps), Duplex (Full Duplex), MAC Address (0003.E45C.2639), IP Configuration (IPv4 Address: 192.168.1.1, Subnet Mask: 255.255.255.0), and Tx Ring Limit (10). At the bottom, there is a text area for Equivalent IOS Commands.

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

FastEthernet0/0

Port Status ☒ On

Bandwidth ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 0003.E45C.2639

IP Configuration

IPv4 Address 192.168.1.1

Subnet Mask 255.255.255.0

Tx Ring Limit 10

Equivalent IOS Commands

to FULL, Loading Done

?Bad filename

%Error parsing filename (Bad file number)

Router#

Router#configure terminal

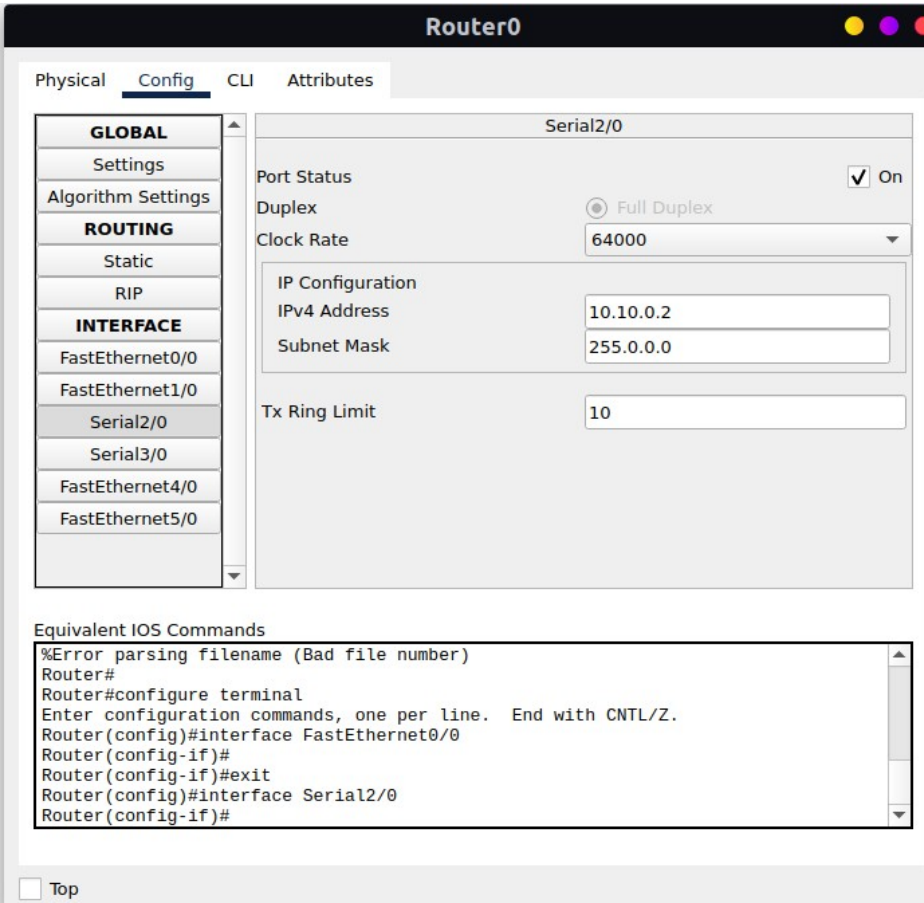
Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#interface FastEthernet0/0

Router(config-if)#

☐ Top

Step 4:



The screenshot shows the configuration window for the Serial2/0 interface on Router0. The left sidebar has tabs for Physical, Config (selected), CLI, and Attributes. Under the Config tab, there are sections for GLOBAL, ROUTING, and INTERFACE. The INTERFACE section lists several interfaces, with Serial2/0 selected. The main area displays configuration options for Serial2/0: Port Status (On), Duplex (Full Duplex), Clock Rate (64000), IP Configuration (IPv4 Address: 10.10.0.2, Subnet Mask: 255.0.0.0), and Tx Ring Limit (10). At the bottom, there is a text area for Equivalent IOS Commands.

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

Serial2/0

Port Status ☒ On

Duplex ☒ Full Duplex

Clock Rate 64000

IP Configuration

IPv4 Address 10.10.0.2

Subnet Mask 255.0.0.0

Tx Ring Limit 10

Equivalent IOS Commands

%Error parsing filename (Bad file number)

Router#

Router#configure terminal

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

Router(config)#interface FastEthernet0/0

Router(config-if)#

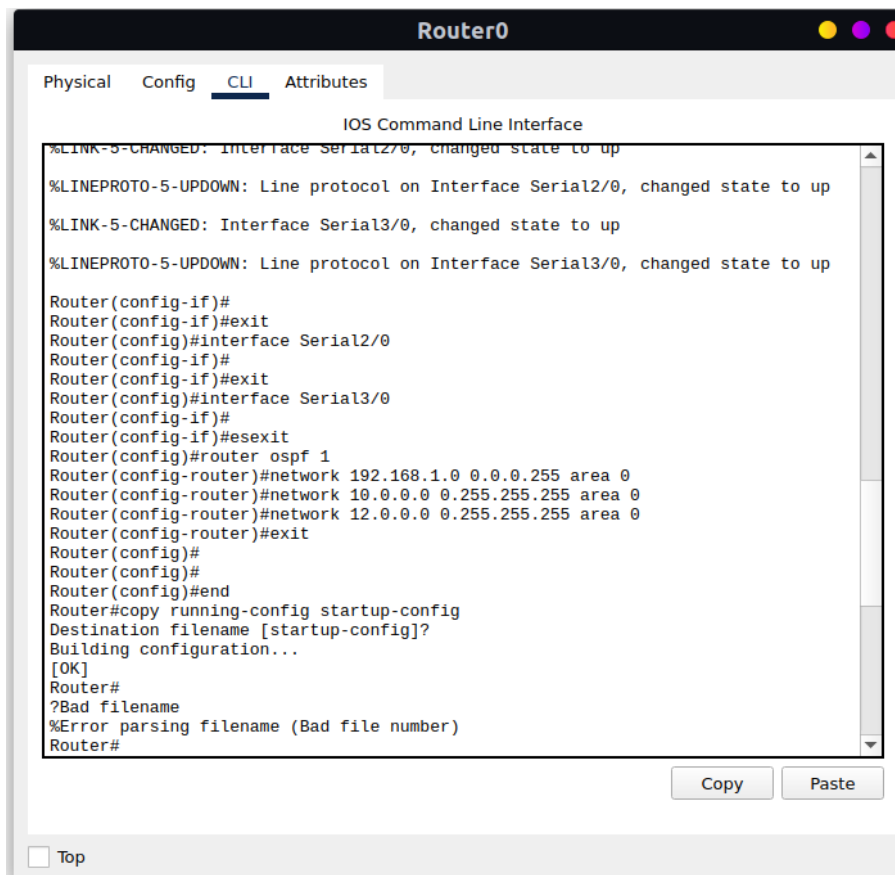
Router(config-if)#exit

Router(config)#interface Serial2/0

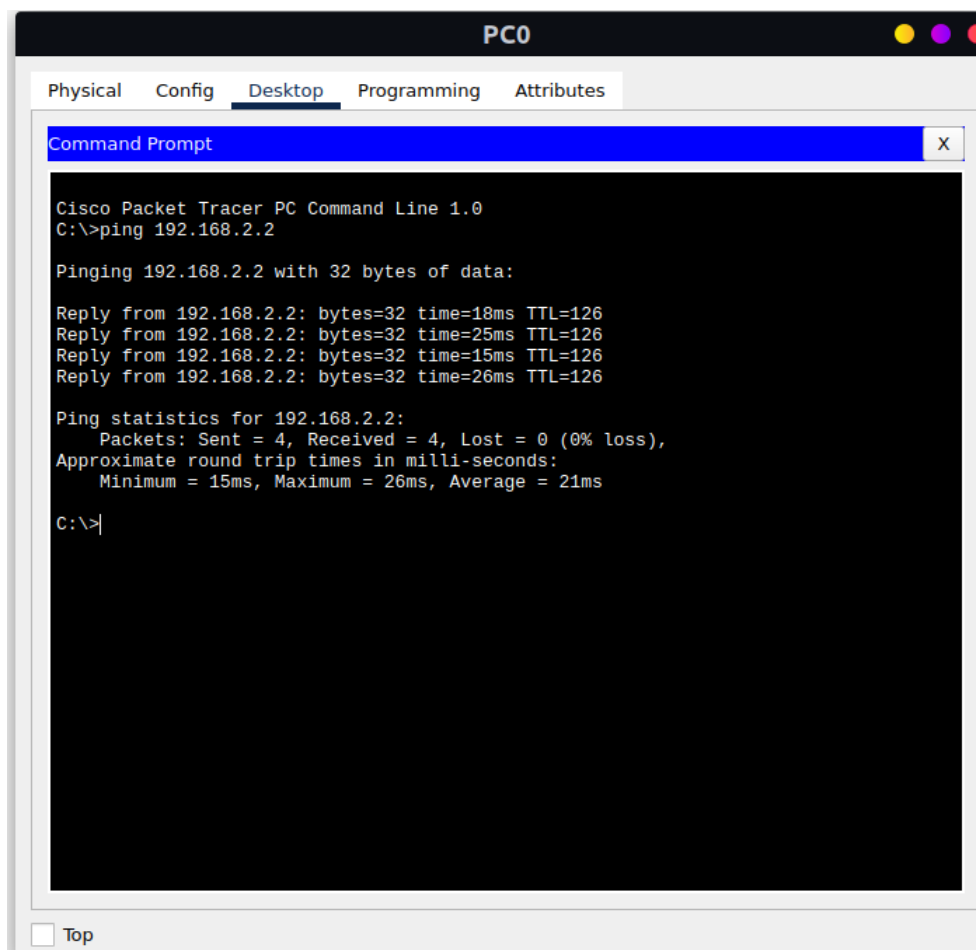
Router(config-if)#

☐ Top

Step 5:



Step 6:



Step 7:

