

Week 7 Assignment 1 (RIP)

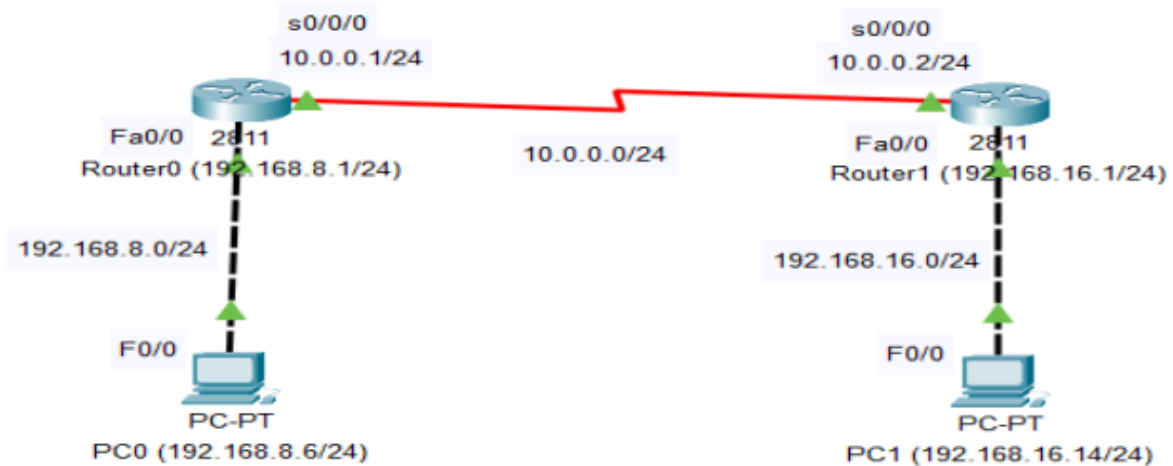
ITE 476 Section 1

Instructor : Dr. Nay Myo Sandar

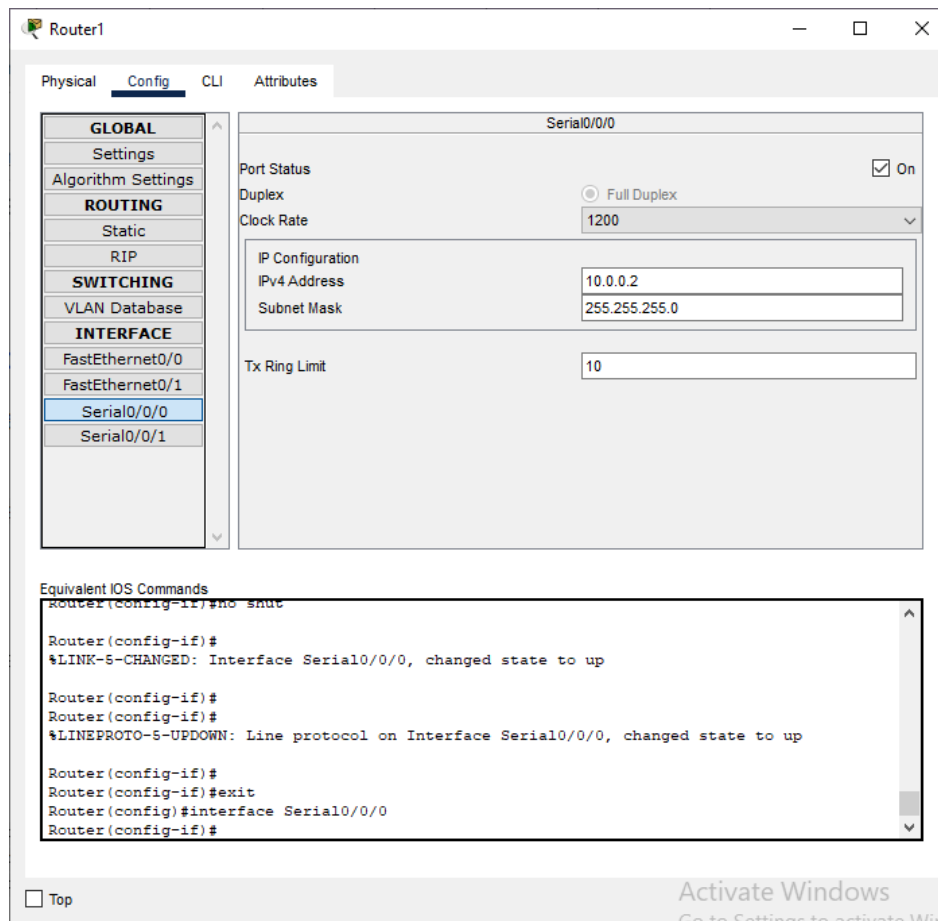
Student name & ID: Fardina Kabir 1910080005

Lab for RIP (Use packet tracer to do the lab for RIP)

I. Configure for RIPv1



(i) Configure basic settings for each router.



Week 7 Assignment 1 (RIP)

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Router0

Physical **Config** CLI Attributes

GLOBAL

- Settings
- Algorithm Settings

ROUTING

- Static
- RIP

SWITCHING

- VLAN Database

INTERFACE

- FastEthernet0/0
- FastEthernet0/1
- Serial0/0/0**
- Serial0/0/1

Serial0/0/0

Port Status ☒ On

Duplex ☐ Full Duplex

Clock Rate 2000000

IP Configuration

IPv4 Address 10.0.0.1

Subnet Mask 255.255.255.0

Tx Ring Limit 10

Equivalent IOS Commands

```
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial0/0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial0/0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial0/0/0
Router(config-if)#
```

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Router0

Physical Config CLI Attributes

GLOBAL

- Settings
- Algorithm Settings

ROUTING

- Static
- RIP

SWITCHING

- VLAN Database

INTERFACE

- FastEthernet0/0
- FastEthernet0/1
- Serial0/0/0
- Serial0/0/1

FastEthernet0/0

Port Status ☒ On

Bandwidth ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 0050.0FEE.1601

IP Configuration

IPv4 Address 192.168.8.1

Subnet Mask 255.255.255.0

Tx Ring Limit 10

Equivalent IOS Commands

```
*LINK-S-CHANGED: Interface Serial0/0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0, changed state to up

Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface FastEthernet0/0
Router(config-if)#
```


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 Router1

Physical

Config

CLI

Attributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

SWITCHING

VLAN Database

INTERFACE

FastEthernet0/0

FastEthernet0/1

Serial0/0/0

Serial0/0/1

FastEthernet0/0

Port Status ☒ On

Bandwidth ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 0090.0C92.9901

IP Configuration

IPv4 Address 192.168.16.1

Subnet Mask 255.255.255.0

Tx Ring Limit 10

Equivalent IOS Commands

```
Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface FastEthernet0/0
Router(config-if)#
```

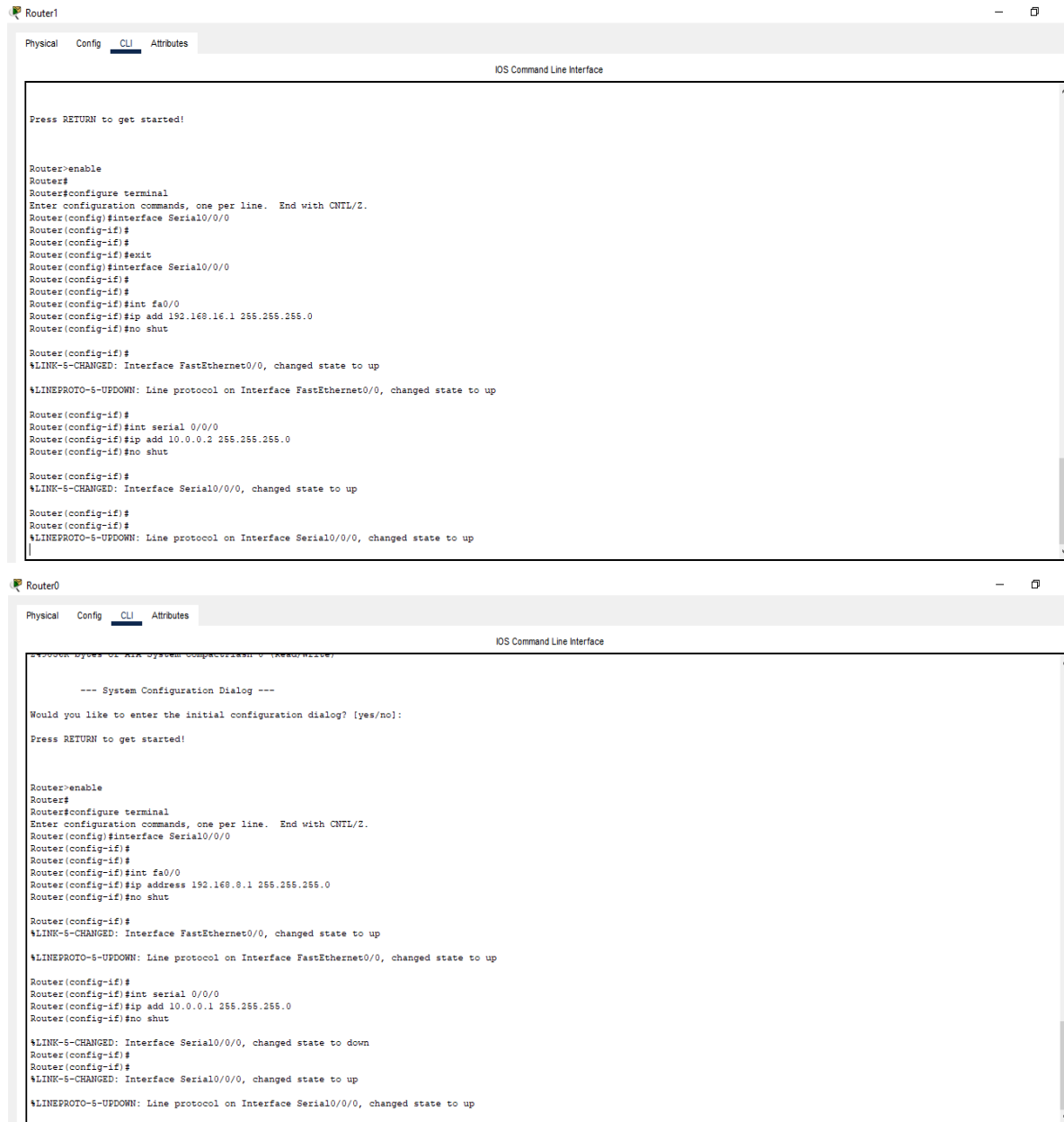
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The image shows two screenshots of a Cisco IOS Command Line Interface (CLI) for two routers, Router1 and Router0. Both routers are in the 'CLI' tab of a configuration window.

Router1 CLI:

```
Press RETURN to get started!

Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface Serial0/0/0
Router(config-if)#
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial0/0/0
Router(config-if)#
Router(config-if)#
Router(config-if)#int fa0/0
Router(config-if)#ip add 192.168.16.1 255.255.255.0
Router(config-if)#no shut

Router(config-if)#
%LINK-S-CHANGED: Interface FastEthernet0/0, changed state to up
%LINEPROTO-S-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

Router(config-if)#
Router(config-if)#int serial 0/0/0
Router(config-if)#ip add 10.0.0.2 255.255.255.0
Router(config-if)#no shut

Router(config-if)#
%LINK-S-CHANGED: Interface Serial0/0/0, changed state to up
Router(config-if)#
Router(config-if)#
%LINEPROTO-S-UPDOWN: Line protocol on Interface Serial0/0/0, changed state to up
```

Router0 CLI:

```
Between Bytes Of AKA System Configuration: 0 (hex/decimal)

--- System Configuration Dialog ---

Would you like to enter the initial configuration dialog? [yes/no]:

Press RETURN to get started!

Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface Serial0/0/0
Router(config-if)#
Router(config-if)#
Router(config-if)#int fa0/0
Router(config-if)#ip address 192.168.0.1 255.255.255.0
Router(config-if)#no shut

Router(config-if)#
%LINK-S-CHANGED: Interface FastEthernet0/0, changed state to up
%LINEPROTO-S-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

Router(config-if)#
Router(config-if)#int serial 0/0/0
Router(config-if)#ip add 10.0.0.1 255.255.255.0
Router(config-if)#no shut

%LINK-S-CHANGED: Interface Serial0/0/0, changed state to down
Router(config-if)#
Router(config-if)#
%LINK-S-CHANGED: Interface Serial0/0/0, changed state to up
%LINEPROTO-S-UPDOWN: Line protocol on Interface Serial0/0/0, changed state to up
```

(ii) Configure PCs with IP addresses and gateways

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PC1

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface: FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address: 192.168.16.14

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.16.1

DNS Server: 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address: /

Link Local Address: FE80::202:17FF:FE08:8BAC

Default Gateway:

DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: MD5

Username:

Password:

☐ Top

Week 7 Assignment 1 (RIP)

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PC0

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface: FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address: 192.168.8.6

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.8.1

DNS Server: 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address: /

Link Local Address: FE80::260:3EFF:FE55:D6B7

Default Gateway:

DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: MD5

Username:

Password:

☐ Top

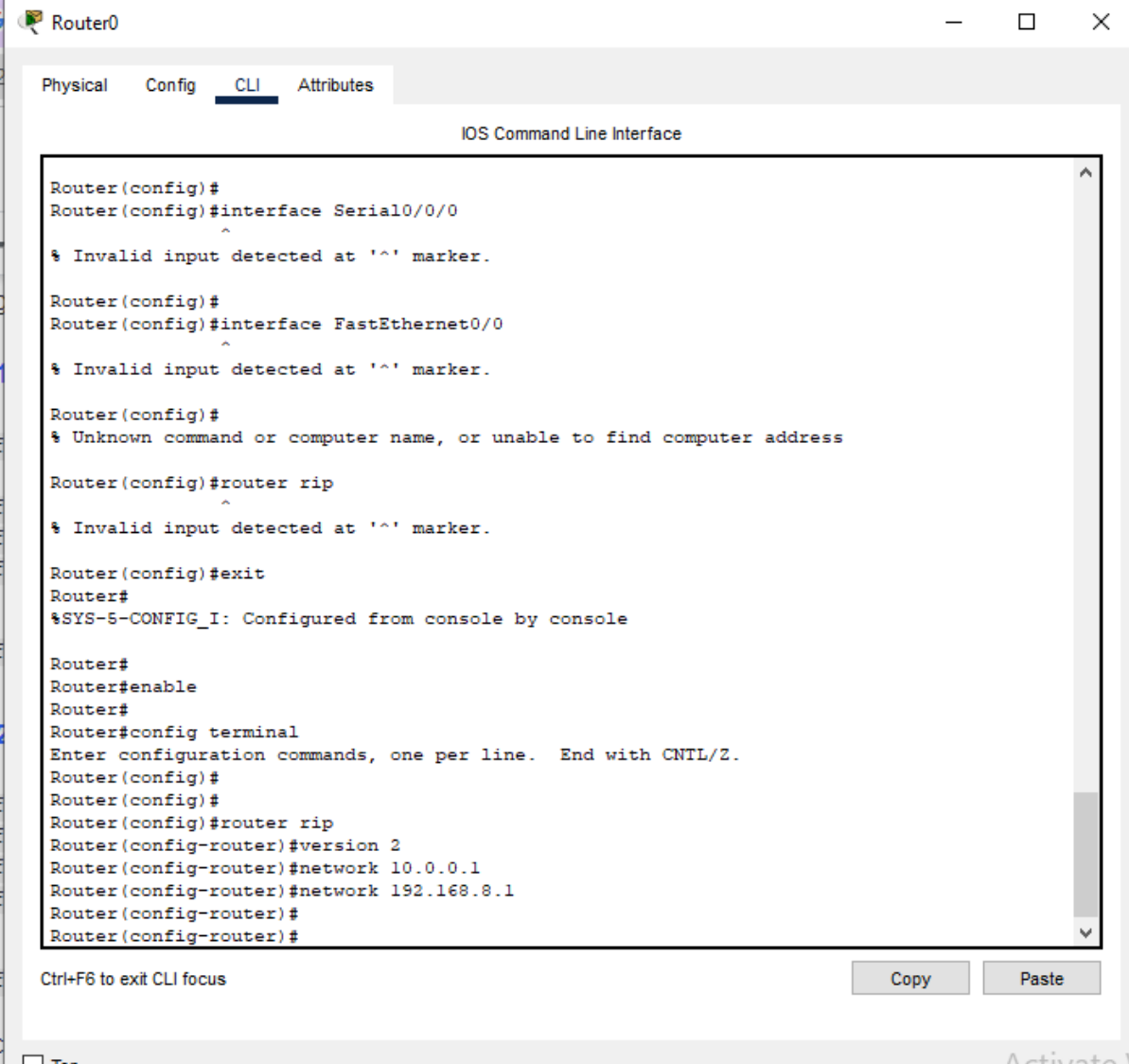
(iii) Configure RIPv1 routing in each router

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The screenshot shows a Packet Tracer window titled "Router0" with tabs for Physical, Config, CLI, and Attributes. The CLI tab is active, displaying the "IOS Command Line Interface". The terminal shows the following sequence of commands and responses:

```
Router(config)#
Router(config)#interface Serial0/0/0
^
% Invalid input detected at '^' marker.

Router(config)#
Router(config)#interface FastEthernet0/0
^
% Invalid input detected at '^' marker.

Router(config)#
% Unknown command or computer name, or unable to find computer address

Router(config)#router rip
^
% Invalid input detected at '^' marker.

Router(config)#exit
Router#
%SYS-S-CONFIG_I: Configured from console by console

Router#
Router#enable
Router#
Router#config terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#
Router(config)#
Router(config)#router rip
Router(config-router)#version 2
Router(config-router)#network 10.0.0.1
Router(config-router)#network 192.168.8.1
Router(config-router)#
Router(config-router)#
```

Below the terminal, there is a status bar with "Ctrl+F6 to exit CLI focus" on the left, and "Copy" and "Paste" buttons on the right. At the bottom left, there is a "Top" button. At the bottom right, the text "Activate V" is partially visible.

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The screenshot shows the configuration window of a router named "Router1". The tabs at the top are Physical, Config, CLI (selected), and Attributes. Below the tabs, it says "IOS Command Line Interface". A scrollable terminal area displays the following commands:

```
Router(config)#  
Router(config)#  
Router(config)#  
Router(config)#  
Router(config)#  
Router(config)#  
Router(config)#  
Router(config)#  
Router(config)#  
Router(config)#  
Router(config)#  
Router(config)#  
Router(config)#  
Router(config)#  
Router(config)#  
Router(config)#  
Router(config)#  
Router(config)#  
Router(config)#  
Router(config)#  
Router(config)#  
Router(config)#  
Router(config)#  
Router(config)#  
Router(config)#  
Router(config)#  
Router(config)#  
Router(config)#  
Router(config)#  
Router(config)#  
Router(config)#  
Router(config)#  
Router(config)#  
Router(config)#  
Router(config)#  
Router(config)#  
Router(config)#  
Router(config)#  
Router(config)#  
Router(config)#router rip  
Router(config-router)#version 2  
Router(config-router)#network 10.0.0.0  
Router(config-router)#network 192.168.16.0  
Router(config-router)#  
Router(config-router)#  
Router(config-router)#
```

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(iv) Examine RIPv1 is running in each router using the commands ``show ip route`` and ``show ip protocols``

```
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#`show
Router#`showip
Router#`show
Router#`showip
Router#show ip route
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
        D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
        N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
        E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
        i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
        * - candidate default, U - per-user static route, o - ODR
        P - periodic downloaded static route

Gateway of last resort is not set

      10.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
C       10.0.0.0/24 is directly connected, Serial0/0/0
L       10.0.0.1/32 is directly connected, Serial0/0/0
      192.168.8.0/24 is variably subnetted, 2 subnets, 2 masks
C       192.168.8.0/24 is directly connected, FastEthernet0/0
L       192.168.8.1/32 is directly connected, FastEthernet0/0
R       192.168.16.0/24 [120/1] via 10.0.0.2, 00:00:21, Serial0/0/0

Router#
Router#
Router#
```

Ctrl+F6 to exit CLI focus

Copy Paste

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Router1

Physical Config **CLI** Attributes

IOS Command Line Interface

```
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#show ip route
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
        D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
        N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
        E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
        i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
        * - candidate default, U - per-user static route, o - ODR
        P - periodic downloaded static route

Gateway of last resort is not set

    10.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
C       10.0.0.0/24 is directly connected, Serial0/0/0
L       10.0.0.2/32 is directly connected, Serial0/0/0
R       192.168.8.0/24 [120/1] via 10.0.0.1, 00:00:21, Serial0/0/0
        192.168.16.0/24 is variably subnetted, 2 subnets, 2 masks
C       192.168.16.0/24 is directly connected, FastEthernet0/0
L       192.168.16.1/32 is directly connected, FastEthernet0/0

Router#
Router#
Router#
```

Ctrl+F6 to exit CLI focus

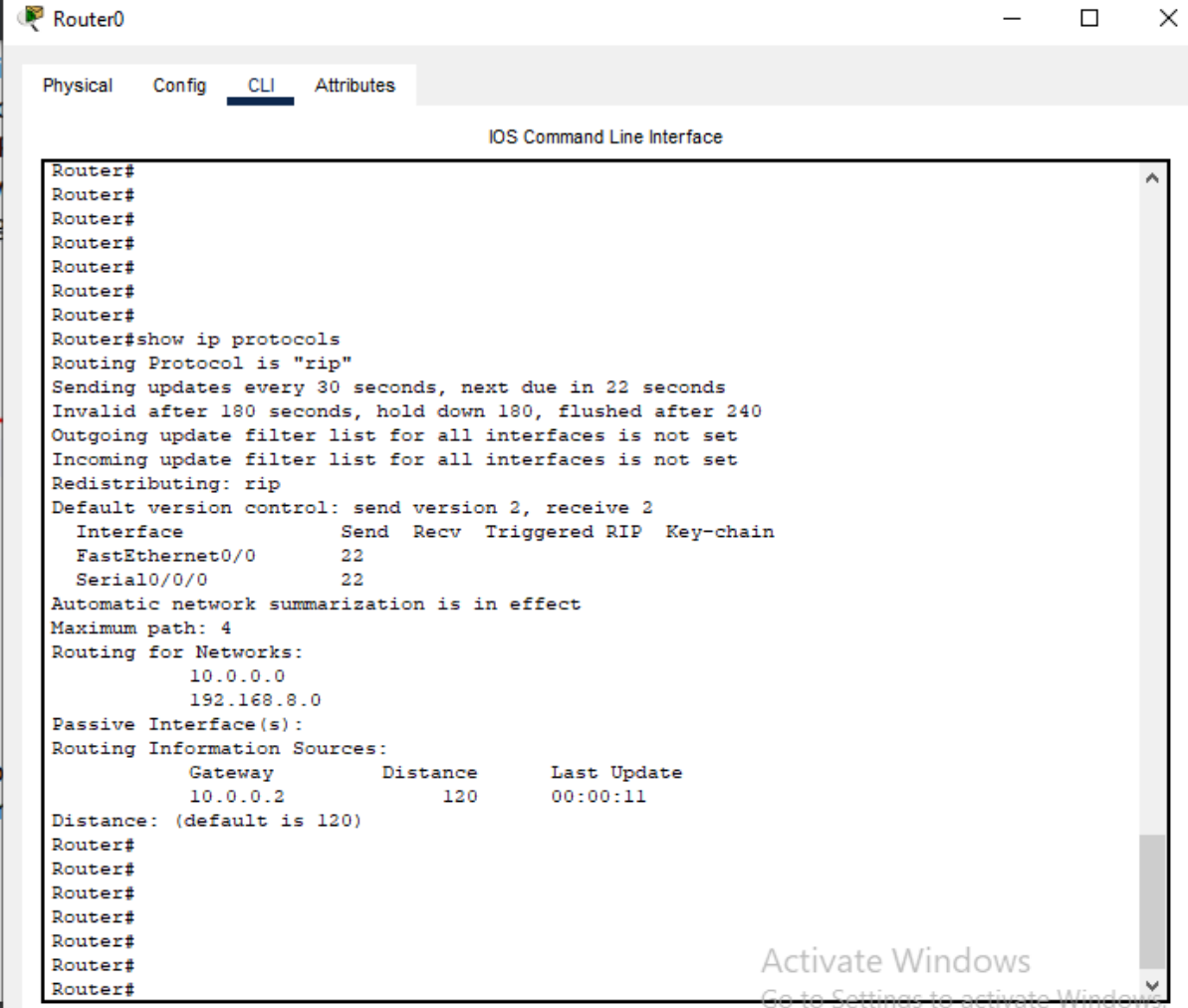
Copy Paste

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```
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#show ip protocols
Routing Protocol is "rip"
Sending updates every 30 seconds, next due in 22 seconds
Invalid after 180 seconds, hold down 180, flushed after 240
Outgoing update filter list for all interfaces is not set
Incoming update filter list for all interfaces is not set
Redistributing: rip
Default version control: send version 2, receive 2
  Interface          Send Recv Triggered RIP Key-chain
FastEthernet0/0      22
Serial0/0/0          22
Automatic network summarization is in effect
Maximum path: 4
Routing for Networks:
  10.0.0.0
  192.168.8.0
Passive Interface(s):
Routing Information Sources:
  Gateway         Distance      Last Update
  10.0.0.2         120           00:00:11
Distance: (default is 120)
Router#
Router#
Router#
Router#
Router#
Router#
Router#
```

Ctrl+F6 to exit CLI focus

Activate Windows
Go to Settings to activate Windows.

Copy Paste

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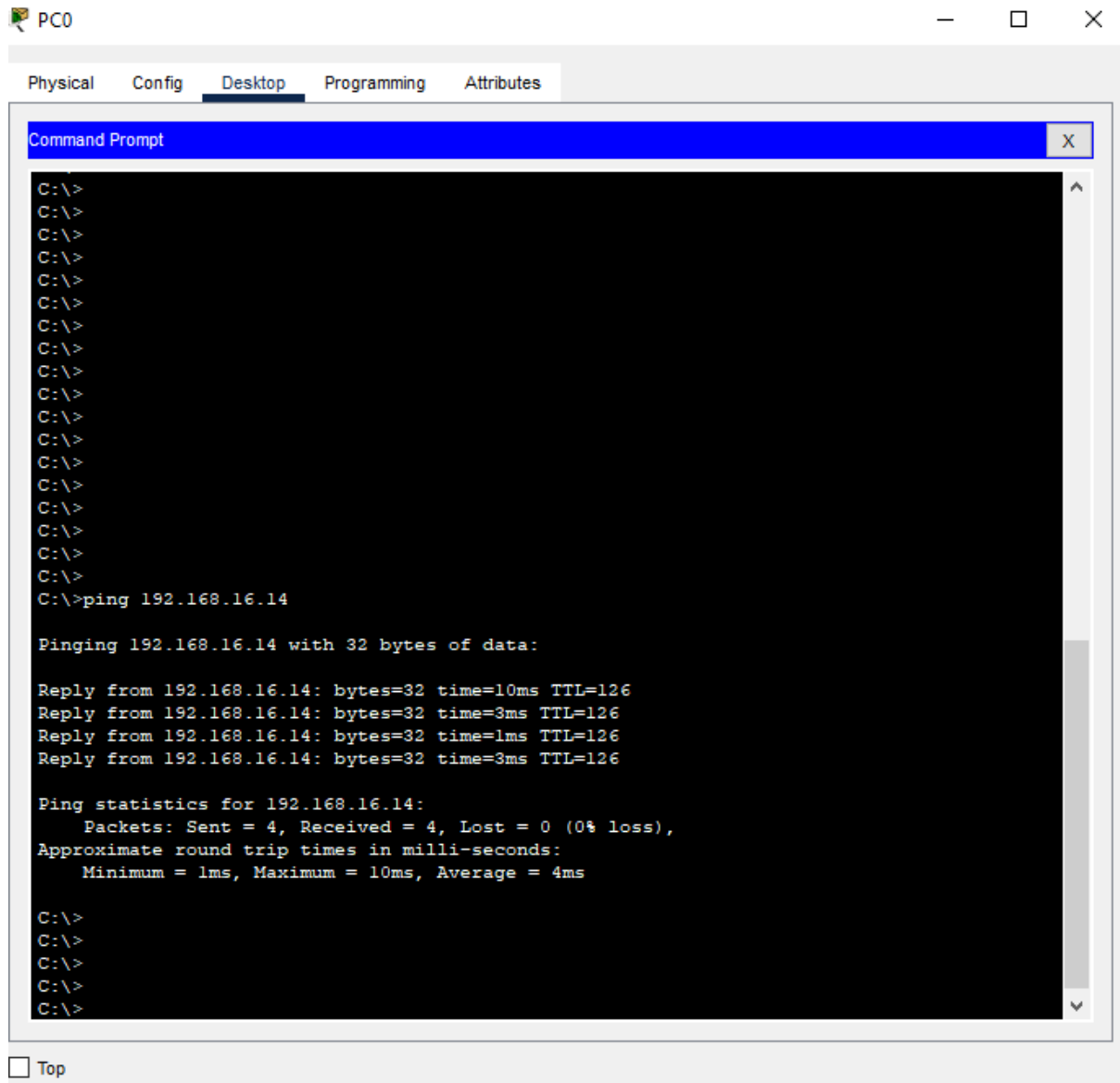
(v) Verify the connectivity of PC0 and PC1 using ping.

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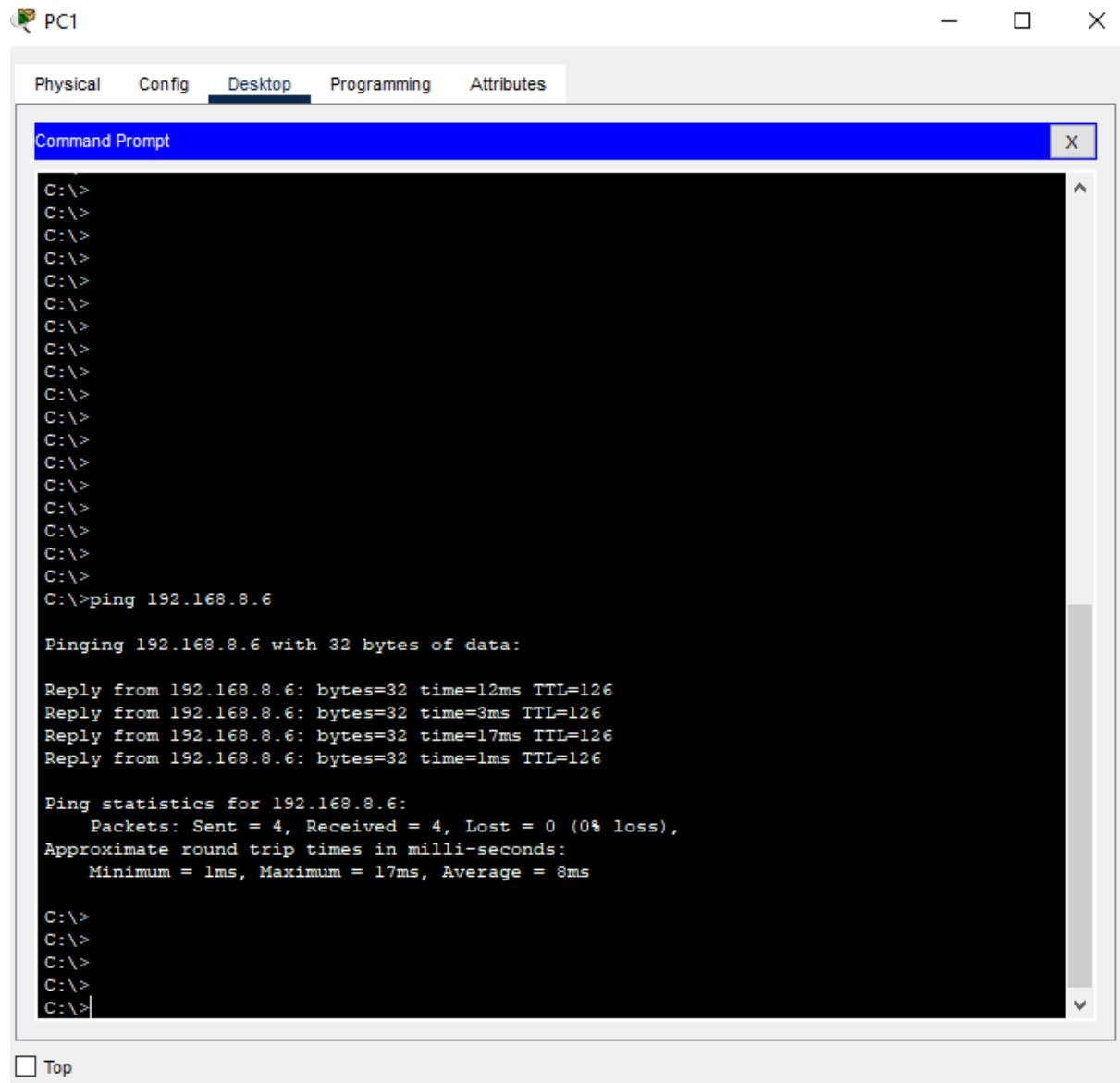


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(vi) Take screenshots for ``show ip route`` and ``show ip protocols`` of Router0 and Router1; ping from PC0 to PC1 and from PC1 to PC0.

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Router0

Physical Config CLI Attributes

IOS Command Line Interface

```
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#`show
Router#`showip
Router#`show
Router#`showip
Router#show ip route
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
        D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
        N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
        E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
        i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
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        P - periodic downloaded static route

Gateway of last resort is not set

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C       10.0.0.0/24 is directly connected, Serial0/0/0
L       10.0.0.1/32 is directly connected, Serial0/0/0
    192.168.8.0/24 is variably subnetted, 2 subnets, 2 masks
C       192.168.8.0/24 is directly connected, FastEthernet0/0
L       192.168.8.1/32 is directly connected, FastEthernet0/0
R       192.168.16.0/24 [120/1] via 10.0.0.2, 00:00:21, Serial0/0/0

Router#
Router#
Router#
```

Ctrl+F6 to exit CLI focus

Activate Windows
Go to Settings to activate Windows


Copy Paste

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 Router1

Physical

Config

CLI

Attributes

IOS Command Line Interface

```
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#show ip route
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
        D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
        N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
        E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
        i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
        * - candidate default, U - per-user static route, o - ODR
        P - periodic downloaded static route

Gateway of last resort is not set

      10.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
C       10.0.0.0/24 is directly connected, Serial0/0/0
L       10.0.0.2/32 is directly connected, Serial0/0/0
R       192.168.8.0/24 [120/1] via 10.0.0.1, 00:00:21, Serial0/0/0
        192.168.16.0/24 is variably subnetted, 2 subnets, 2 masks
C       192.168.16.0/24 is directly connected, FastEthernet0/0
L       192.168.16.1/32 is directly connected, FastEthernet0/0

Router#
Router#
Router#
```

Ctrl+F6 to exit CLI focus

Copy

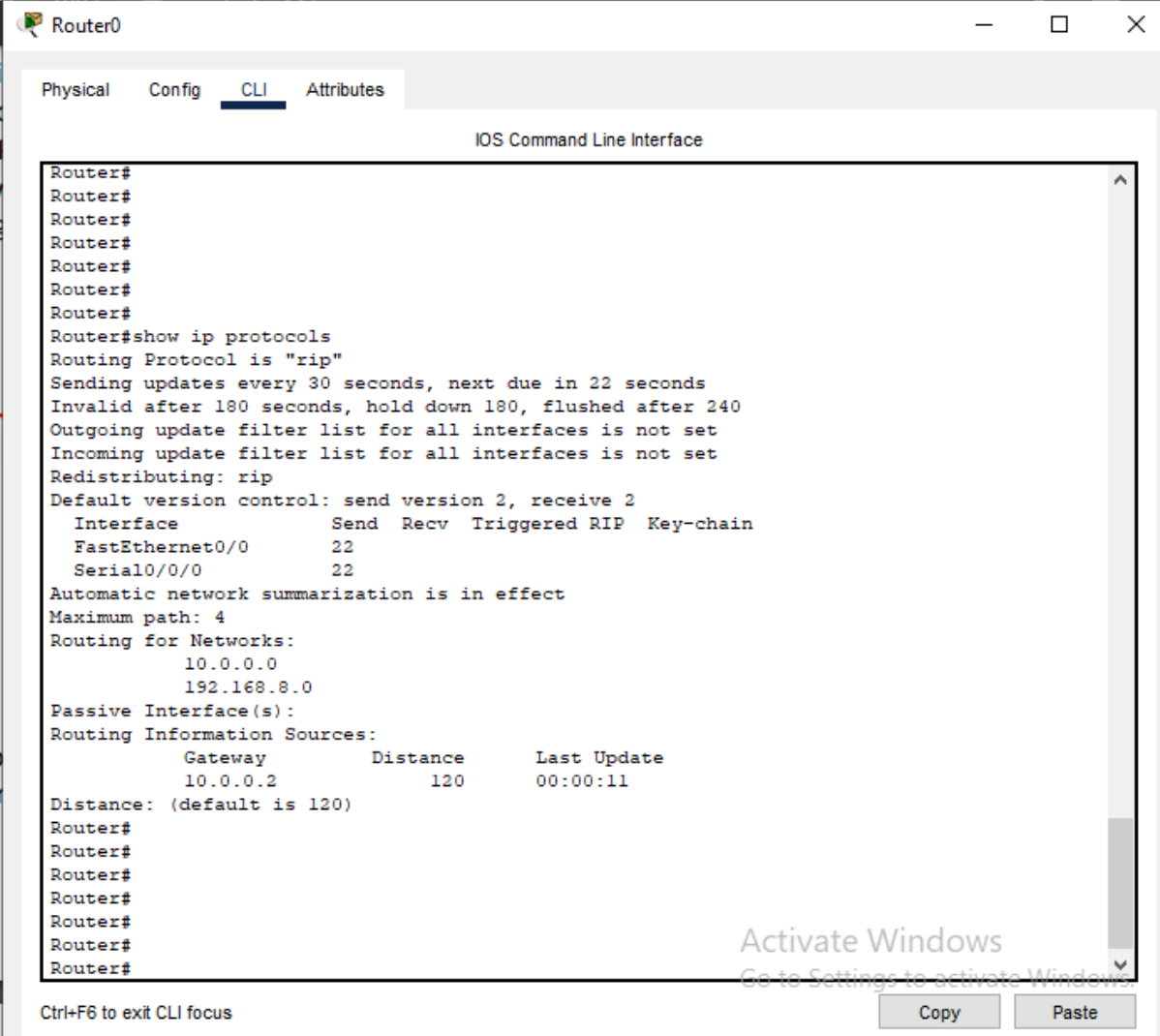
Paste

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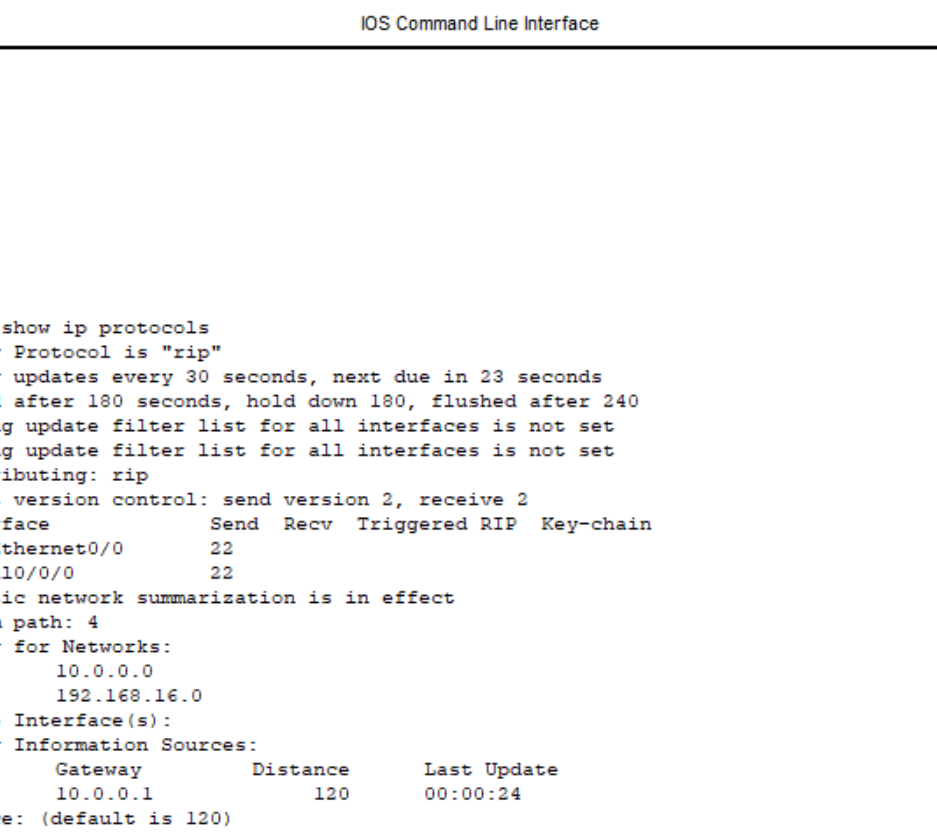


```
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#show ip protocols
Routing Protocol is "rip"
Sending updates every 30 seconds, next due in 22 seconds
Invalid after 180 seconds, hold down 180, flushed after 240
Outgoing update filter list for all interfaces is not set
Incoming update filter list for all interfaces is not set
Redistributing: rip
Default version control: send version 2, receive 2
  Interface          Send Recv Triggered RIP Key-chain
FastEthernet0/0      22
Serial0/0/0          22
Automatic network summarization is in effect
Maximum path: 4
Routing for Networks:
  10.0.0.0
  192.168.8.0
Passive Interface(s):
Routing Information Sources:
  Gateway         Distance      Last Update
  10.0.0.2         120           00:00:11
Distance: (default is 120)
Router#
Router#
Router#
Router#
Router#
Router#
Router#
```

Ctrl+F6 to exit CLI focus

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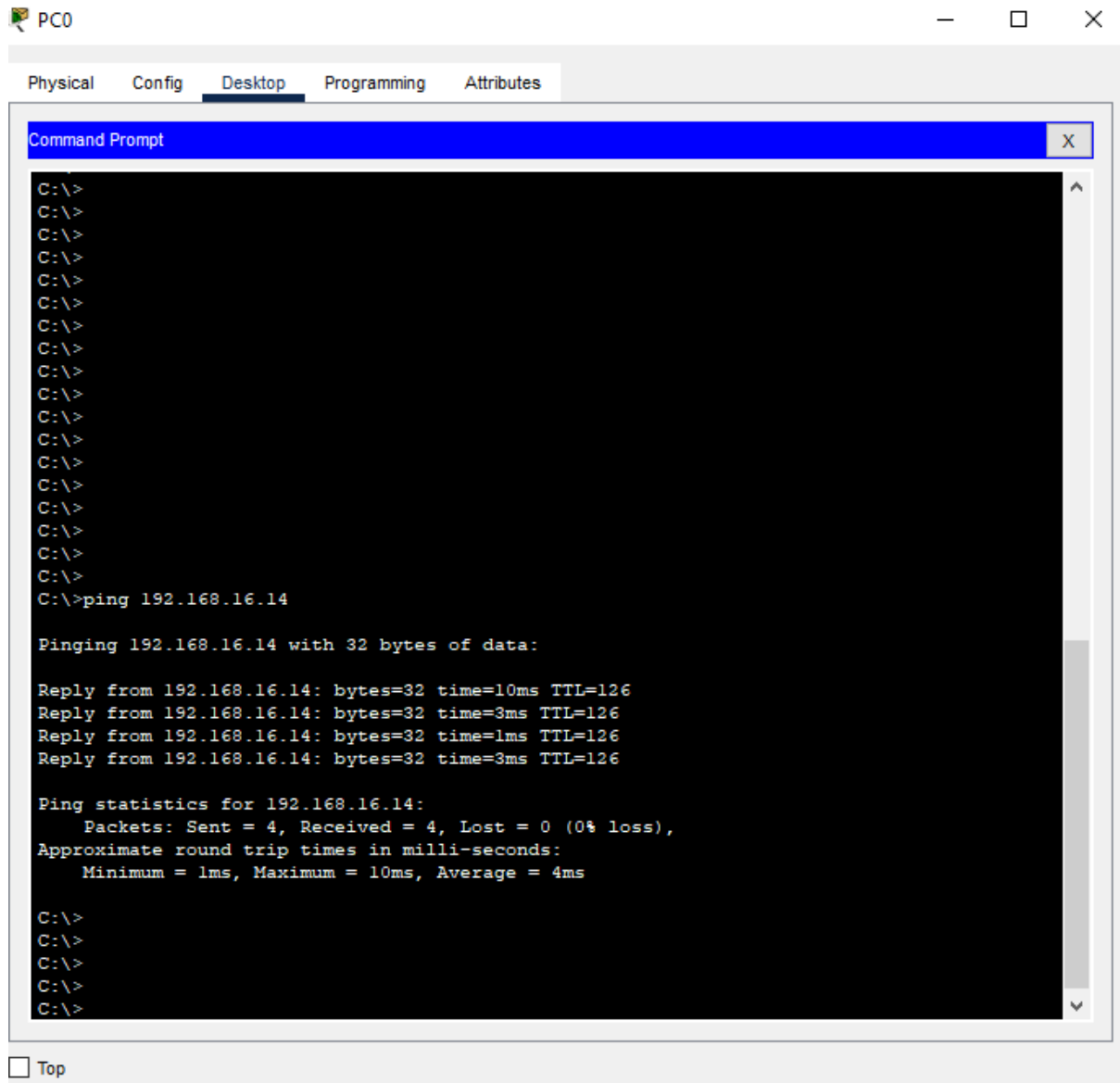
```
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#show ip protocols
Routing Protocol is "rip"
Sending updates every 30 seconds, next due in 23 seconds
Invalid after 180 seconds, hold down 180, flushed after 240
Outgoing update filter list for all interfaces is not set
Incoming update filter list for all interfaces is not set
Redistributing: rip
Default version control: send version 2, receive 2
Interface      Send Recv Triggered RIP Key-chain
FastEthernet0/0  22
Serial0/0/0      22
Automatic network summarization is in effect
Maximum path: 4
Routing for Networks:
    10.0.0.0
    192.168.16.0
Passive Interface(s):
Routing Information Sources:
    Gateway        Distance    Last Update
    10.0.0.1       120        00:00:24
Distance: (default is 120)
Router#
Router#
Router#
```

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The screenshot shows a window titled "PC0" with a tabbed interface. The "Desktop" tab is active, displaying a "Command Prompt" window. The Command Prompt shows a series of "C:\>" prompts, followed by the command "ping 192.168.16.14". The output of the ping command is displayed, showing four successful replies with varying times and TTL values. The statistics section indicates that all four packets were received with 0% loss.

```
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>ping 192.168.16.14

Pinging 192.168.16.14 with 32 bytes of data:

Reply from 192.168.16.14: bytes=32 time=10ms TTL=126
Reply from 192.168.16.14: bytes=32 time=3ms TTL=126
Reply from 192.168.16.14: bytes=32 time=1ms TTL=126
Reply from 192.168.16.14: bytes=32 time=3ms TTL=126

Ping statistics for 192.168.16.14:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 10ms, Average = 4ms

C:\>
C:\>
C:\>
C:\>
C:\>
```

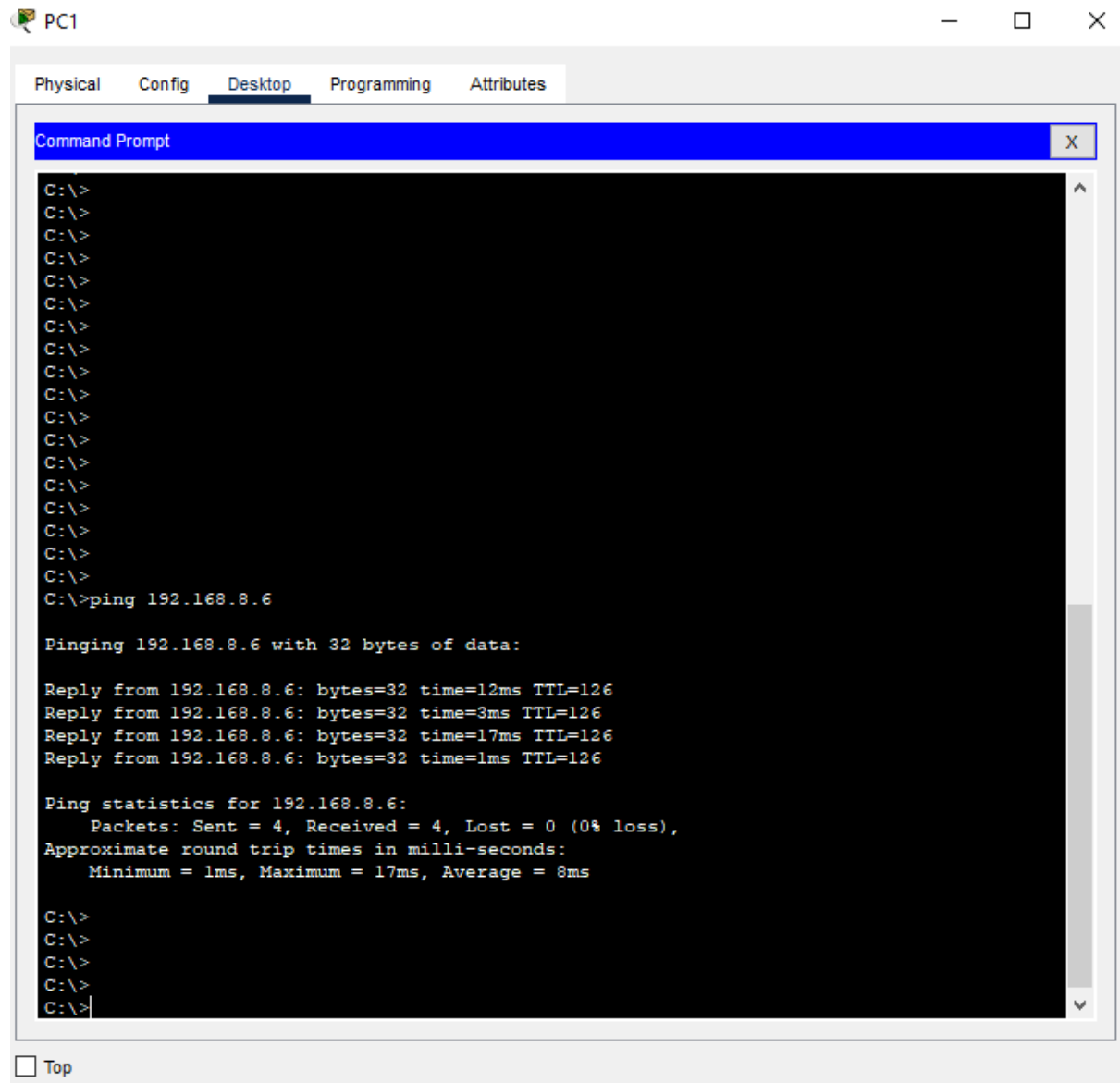
☐ Top

Week 7 Assignment 1 (RIP)

ITE 476 Section 1

Instructor : Dr. Nay Myo Sandar

Student name & ID: Fardina Kabir 1910080005



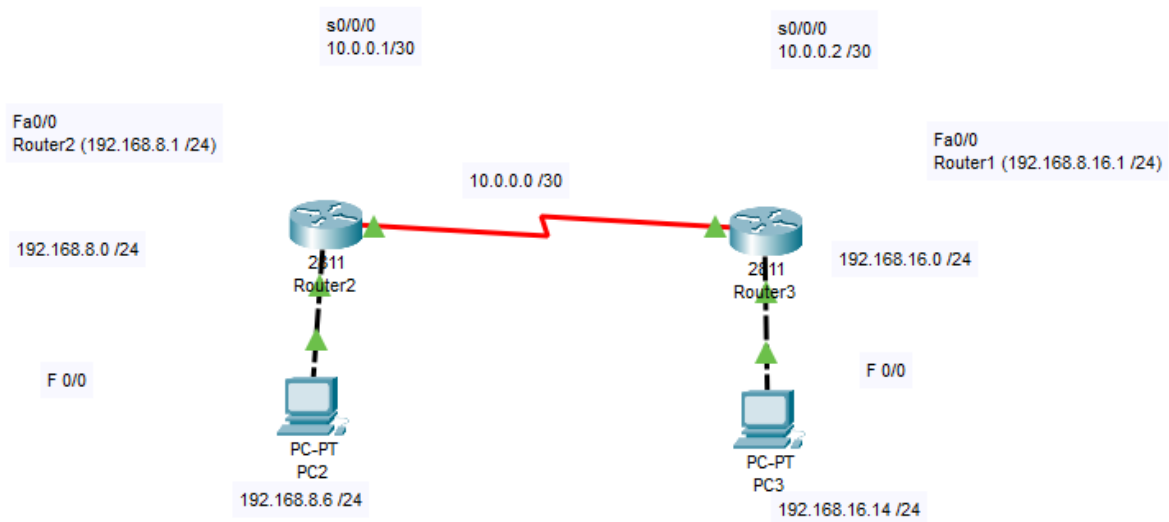
The screenshot shows a PC1 window with a title bar containing a minimize button, a maximize button, and a close button. Below the title bar are four tabs: Physical, Config, Desktop, and Attributes. The Desktop tab is selected. Inside the Desktop tab is a Command Prompt window titled "Command Prompt" with a close button. The Command Prompt shows the following text:

```
C:\>  
C:\>  
C:\>  
C:\>  
C:\>  
C:\>  
C:\>  
C:\>  
C:\>  
C:\>  
C:\>  
C:\>  
C:\>  
C:\>  
C:\>  
C:\>  
C:\>  
C:\>  
C:\>  
C:\>  
C:\>ping 192.168.8.6  
  
Pinging 192.168.8.6 with 32 bytes of data:  
  
Reply from 192.168.8.6: bytes=32 time=12ms TTL=126  
Reply from 192.168.8.6: bytes=32 time=3ms TTL=126  
Reply from 192.168.8.6: bytes=32 time=17ms TTL=126  
Reply from 192.168.8.6: bytes=32 time=1ms TTL=126  
  
Ping statistics for 192.168.8.6:  
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),  
    Approximate round trip times in milli-seconds:  
        Minimum = 1ms, Maximum = 17ms, Average = 8ms  
  
C:\>  
C:\>  
C:\>  
C:\>  
C:\>
```

At the bottom of the PC1 window, there is a checkbox labeled "Top".

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Student name & ID: Fardina Kabir 1910080005

II. Configure for RIPv2



(i) Configure basic settings for each router.

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ITE 476 Section 1

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Student name & ID: Fardina Kabir 1910080005

Router3

Physical

Config

CLI

Attributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

SWITCHING

VLAN Database

INTERFACE

FastEthernet0/0

FastEthernet0/1

Serial0/0/0

Serial0/0/1

FastEthernet0/0

Port Status

Bandwidth

Duplex

MAC Address

IP Configuration

IPv4 Address

Subnet Mask

Tx Ring Limit

FastEthernet0/0

☒ On

☒ 100 Mbps

☐ 10 Mbps

☒ Auto

☐ Half Duplex

☒ Full Duplex

☒ Auto

00D0.BA9C.7001

192.168.16.1

255.255.255.0

10

Equivalent IOS Commands

```
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial0/0/1
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial0/0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/1
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#
```

☐ Top


Activate W
Go to Settings

Week 7 Assignment 1 (RIP)

ITE 476 Section 1

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 Router3

Physical

Config

CLI

Attributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

SWITCHING

VLAN Database

INTERFACE

FastEthernet0/0

FastEthernet0/1

Serial0/0/0

Serial0/0/1

Serial0/0/0

Port Status ☒ On

Duplex ☐ Full Duplex

Clock Rate 2000000

IP Configuration

IPv4 Address 10.0.0.2

Subnet Mask 255.255.255.252

Tx Ring Limit 10

Equivalent IOS Commands

```
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial0/0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/1
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial0/0/0
Router(config-if)#
```

☐ Top


Activate W
Go to Settings

Week 7 Assignment 1 (RIP)

ITE 476 Section 1

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 Router2

Physical

Config

CLI

Attributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

SWITCHING

VLAN Database

INTERFACE

FastEthernet0/0

FastEthernet0/1

Serial0/0/0

Serial0/0/1

FastEthernet0/0

Port Status ☒ On

Bandwidth ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 0002.16C9.2C01

IP Configuration

IPv4 Address 192.168.8.1

Subnet Mask 255.255.255.0

Tx Ring Limit 10

Equivalent IOS Commands

```
Router(config-if)#
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/1
Router(config-if)#
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/1
Router(config-if)#
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#
```

☐ Top

Week 7 Assignment 1 (RIP)

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Router2

Physical **Config** CLI Attributes

GLOBAL

- Settings
- Algorithm Settings

ROUTING

- Static
- RIP

SWITCHING

- VLAN Database

INTERFACE

- FastEthernet0/0
- FastEthernet0/1
- Serial0/0/0**
- Serial0/0/1

Serial0/0/0

Port Status ☒ On

Duplex ☐ Full Duplex

Clock Rate 2000000

IP Configuration

IPv4 Address 10.0.0.1

Subnet Mask 255.255.255.252

Tx Ring Limit 10

Equivalent IOS Commands

```
Router(config)#interface FastEthernet0/1
Router(config-if)#
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/1
Router(config-if)#
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial0/0/0
Router(config-if)#
```


☐ Top

Week 7 Assignment 1 (RIP)

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Student name & ID: Fardina Kabir 1910080005

 Router2

Physical

Config

CLI

Attributes

IOS Command Line Interface

```
Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface Serial0/0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/1
Router(config-if)#int fa0/0
Router(config-if)#ip address 192.168.8.1 255.255.255.0
Router(config-if)#no shut

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

Router(config-if)#
Router(config-if)#int serial 0/0/0
Router(config-if)#ip add 10.0.0.1 255.255.255.252
Router(config-if)#no shut

%LINK-5-CHANGED: Interface Serial0/0/0, changed state to down
Router(config-if)#
Router(config-if)#
Router(config-if)#
```

Ctrl+F6 to exit CLI focus

Copy

Paste


☐ Top

Week 7 Assignment 1 (RIP)

ITE 476 Section 1

Instructor : Dr. Nay Myo Sandar

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 Router3

Physical

Config

CLI

Attributes

IOS Command Line Interface

```
256K bytes of non-volatile configuration memory.
249856K bytes of ATA System CompactFlash 0 (Read/Write)

--- System Configuration Dialog ---

Would you like to enter the initial configuration dialog? [yes/no]:

Press RETURN to get started!

Router>enable
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)#
Router(config-if)#int fa0/0
Router(config-if)#ip add 192.168.16.1 255.255.255.0
Router(config-if)#no shut

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

Router(config-if)#
Router(config-if)#int serial 0/0/0
Router(config-if)#ip add 10.0.0.2 255.255.255.252
Router(config-if)#no shut

%LINK-5-CHANGED: Interface Serial0/0/0, changed state to down
Router(config-if)#
Router(config-if)#
Router(config-if)#
```

Ctrl+F6 to exit CLI focus

Copy

Paste

☐ Top

Activat
Go to Set

Week 7 Assignment 1 (RIP)

ITE 476 Section 1

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(ii) Configure PCs with IP addresses and gateways.

PC2

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface: FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address: 192.168.8.6

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.8.1

DNS Server: 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address: /

Link Local Address: FE80::201:96FF:FE01:7671

Default Gateway:

DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: MD5

Username:

Password:

☐ Top

Week 7 Assignment 1 (RIP)

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PC3

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface: FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address: 192.168.16.14

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.16.1

DNS Server: 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address: /

Link Local Address: FE80::210:11FF:FE5D:CAA1

Default Gateway:

DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: MD5

Username:

Password:

☐ Top


(iii) Configure RIPv2 routing in each router

Week 7 Assignment 1 (RIP)

ITE 476 Section 1

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Student name & ID: Fardina Kabir 1910080005

 Router2

Physical

Config

CLI

Attributes

IOS Command Line Interface

```
Router(config-if)#int fa0/0
Router(config-if)#ip address 192.168.8.1 255.255.255.0
Router(config-if)#no shut

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

Router(config-if)#
Router(config-if)#int serial 0/0/0
Router(config-if)#ip add 10.0.0.1 255.255.255.252
Router(config-if)#no shut

%LINK-5-CHANGED: Interface Serial0/0/0, changed state to down
Router(config-if)#
Router(config-if)#
Router(config-if)#
%LINK-5-CHANGED: Interface Serial0/0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

Router(config-if)#
Router(config-if)#
Router(config-if)#
Router(config-if)#
Router(config-if)#
Router(config-if)#router rip
Router(config-router)#version 2
Router(config-router)#network 10.0.0.0
Router(config-router)#network 192.168.8.0
Router(config-router)#
Router(config-router)#
Router(config-router)#
Router(config-router)#
```

Ctrl+F6 to exit CLI focus

Copy Paste

Top

Activate Windows
Go to Settings to activate Windows.

Week 7 Assignment 1 (RIP)

ITE 476 Section 1

Instructor : Dr. Nay Myo Sandar

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```
Router3
Physical Config CLI Attributes
IOS Command Line Interface
Router(config)#interface FastEthernet0/0
Router(config-if)#
Router(config-if)#
Router(config-if)#int fa0/0
Router(config-if)#ip add 192.168.16.1 255.255.255.0
Router(config-if)#no shut

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

Router(config-if)#
Router(config-if)#int serial 0/0/0
Router(config-if)#ip add 10.0.0.2 255.255.255.252
Router(config-if)#no shut

%LINK-5-CHANGED: Interface Serial0/0/0, changed state to down
Router(config-if)#
Router(config-if)#
Router(config-if)#
%LINK-5-CHANGED: Interface Serial0/0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

Router(config-if)#
Router(config-if)#
Router(config-if)#
Router(config-if)#
Router(config-if)#router rip
Router(config-router)#version 2
Router(config-router)#network 10.0.0.0
Router(config-router)#network 192.168.16.0
Router(config-router)#
Router(config-router)#

Ctrl+F6 to exit CLI focus
Copy Paste
Activate W
Go to Settings
```

(iv) Examine RIPv2 is running in each router using the commands ``show ip route`` and ``show ip protocols``

Week 7 Assignment 1 (RIP)

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Student name & ID: Fardina Kabir 1910080005

Router3

Physical Config CLI Attributes

IOS Command Line Interface

```
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#
Router#show ip route
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route

Gateway of last resort is not set

    10.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
C       10.0.0.0/30 is directly connected, Serial0/0/0
L       10.0.0.2/32 is directly connected, Serial0/0/0
R       192.168.8.0/24 [120/1] via 10.0.0.1, 00:00:00, Serial0/0/0
        192.168.16.0/24 is variably subnetted, 2 subnets, 2 masks
C       192.168.16.0/24 is directly connected, FastEthernet0/0
L       192.168.16.1/32 is directly connected, FastEthernet0/0

Router#
Router#
Router#
Router#
Router#show ip route rip
    10.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
R       192.168.8.0/24 [120/1] via 10.0.0.1, 00:00:17, Serial0/0/0

Router#
Router#
Router#
```

Ctrl+F6 to exit CLI focus

Copy Paste

Activate W
Go to Settings


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 Router2

Physical

Config

CLI

Attributes

IOS Command Line Interface

```
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#
Router#show ip route
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route

Gateway of last resort is not set

    10.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
C       10.0.0.0/30 is directly connected, Serial0/0/0
L       10.0.0.1/32 is directly connected, Serial0/0/0
    192.168.8.0/24 is variably subnetted, 2 subnets, 2 masks
C       192.168.8.0/24 is directly connected, FastEthernet0/0
L       192.168.8.1/32 is directly connected, FastEthernet0/0
R       192.168.16.0/24 [120/1] via 10.0.0.2, 00:00:17, Serial0/0/0

Router#
Router#
Router#
Router#show ip route rip
    192.168.8.0/24 is variably subnetted, 2 subnets, 2 masks
R       192.168.16.0/24 [120/1] via 10.0.0.2, 00:00:06, Serial0/0/0

Router#
Router#
Router#
```

Ctrl+F6 to exit CLI focus

Copy

Paste

Activate Windows
Go to Settings to activate Windows.

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Week 7 Assignment 1 (RIP)

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Router2

Physical Config **CLI** Attributes

IOS Command Line Interface

```
Router#
Router#
Router#
Router#show ip route rip
      192.168.8.0/24 is variably subnetted, 2 subnets, 2 masks
R       192.168.16.0/24 [120/1] via 10.0.0.2, 00:00:06, Serial0/0/0

Router#
Router#
Router#show
Router#show ip
Router#show ip protocols
Routing Protocol is "rip"
Sending updates every 30 seconds, next due in 1 seconds
Invalid after 180 seconds, hold down 180, flushed after 240
Outgoing update filter list for all interfaces is not set
Incoming update filter list for all interfaces is not set
Redistributing: rip
Default version control: send version 2, receive 2
  Interface          Send Recv Triggered RIP Key-chain
  FastEthernet0/0      22
  Serial0/0/0          22
Automatic network summarization is in effect
Maximum path: 4
Routing for Networks:
  10.0.0.0
  192.168.8.0
Passive Interface(s):
Routing Information Sources:
  Gateway         Distance      Last Update
  10.0.0.2         120           00:00:06
Distance: (default is 120)
Router#
Router#
Router#
```

Ctrl+F6 to exit CLI focus

Copy Paste

Activate Windows
Go to Settings to activate Windows.

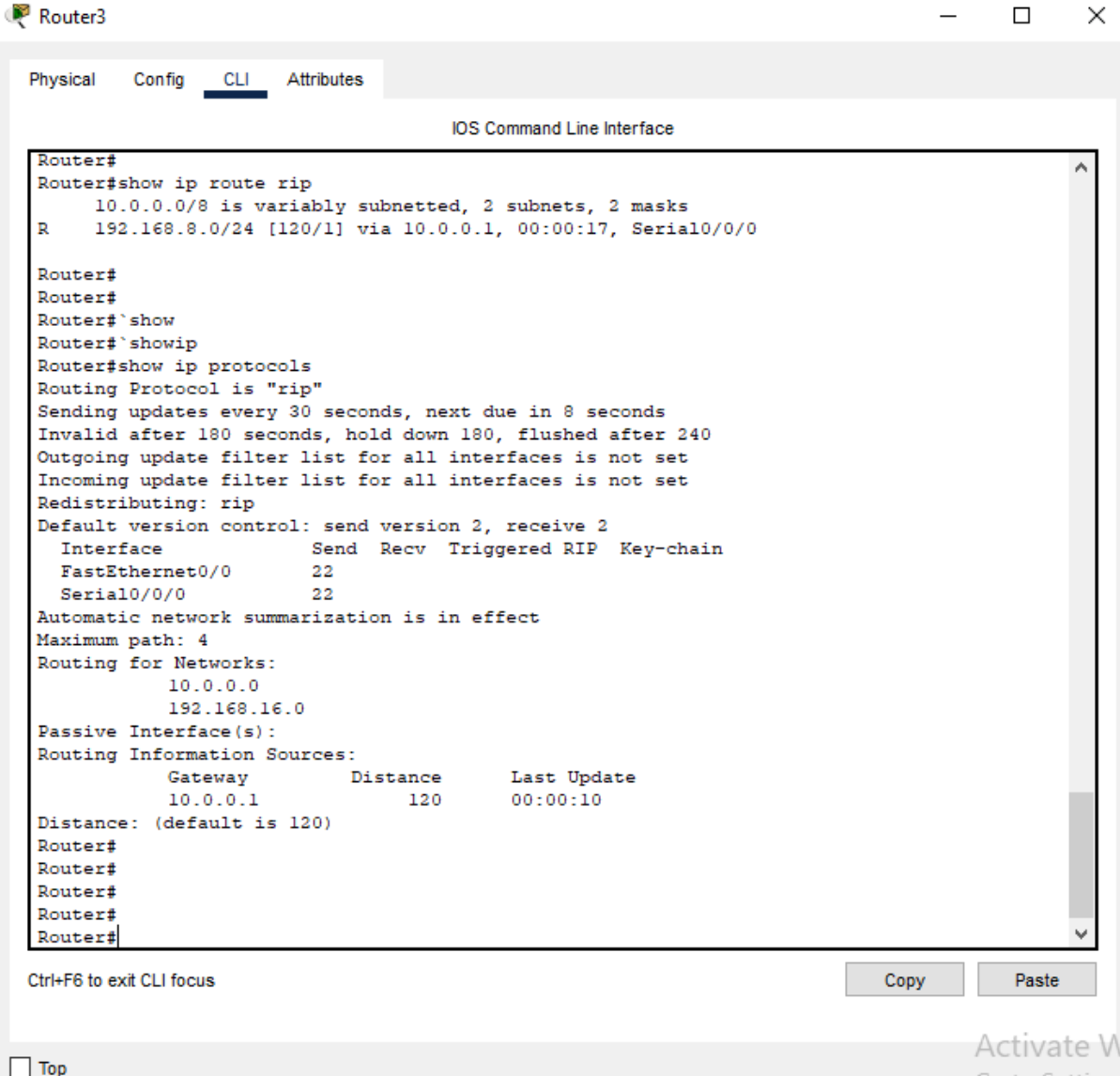
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Student name & ID: Fardina Kabir 1910080005



Router3

Physical Config **CLI** Attributes

IOS Command Line Interface

```
Router#
Router#show ip route rip
      10.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
R       192.168.8.0/24 [120/1] via 10.0.0.1, 00:00:17, Serial0/0/0

Router#
Router#
Router#`show
Router#`showip
Router#show ip protocols
Routing Protocol is "rip"
  Sending updates every 30 seconds, next due in 8 seconds
  Invalid after 180 seconds, hold down 180, flushed after 240
  Outgoing update filter list for all interfaces is not set
  Incoming update filter list for all interfaces is not set
  Redistributing: rip
  Default version control: send version 2, receive 2
    Interface          Send Recv Triggered RIP Key-chain
  FastEthernet0/0      22
  Serial0/0/0          22
Automatic network summarization is in effect
Maximum path: 4
Routing for Networks:
  10.0.0.0
  192.168.16.0
Passive Interface(s):
Routing Information Sources:
  Gateway         Distance      Last Update
  10.0.0.1         120           00:00:10
Distance: (default is 120)
Router#
Router#
Router#
Router#
Router#
```

Ctrl+F6 to exit CLI focus

Copy Paste

Top

Activate W
Go to Settings

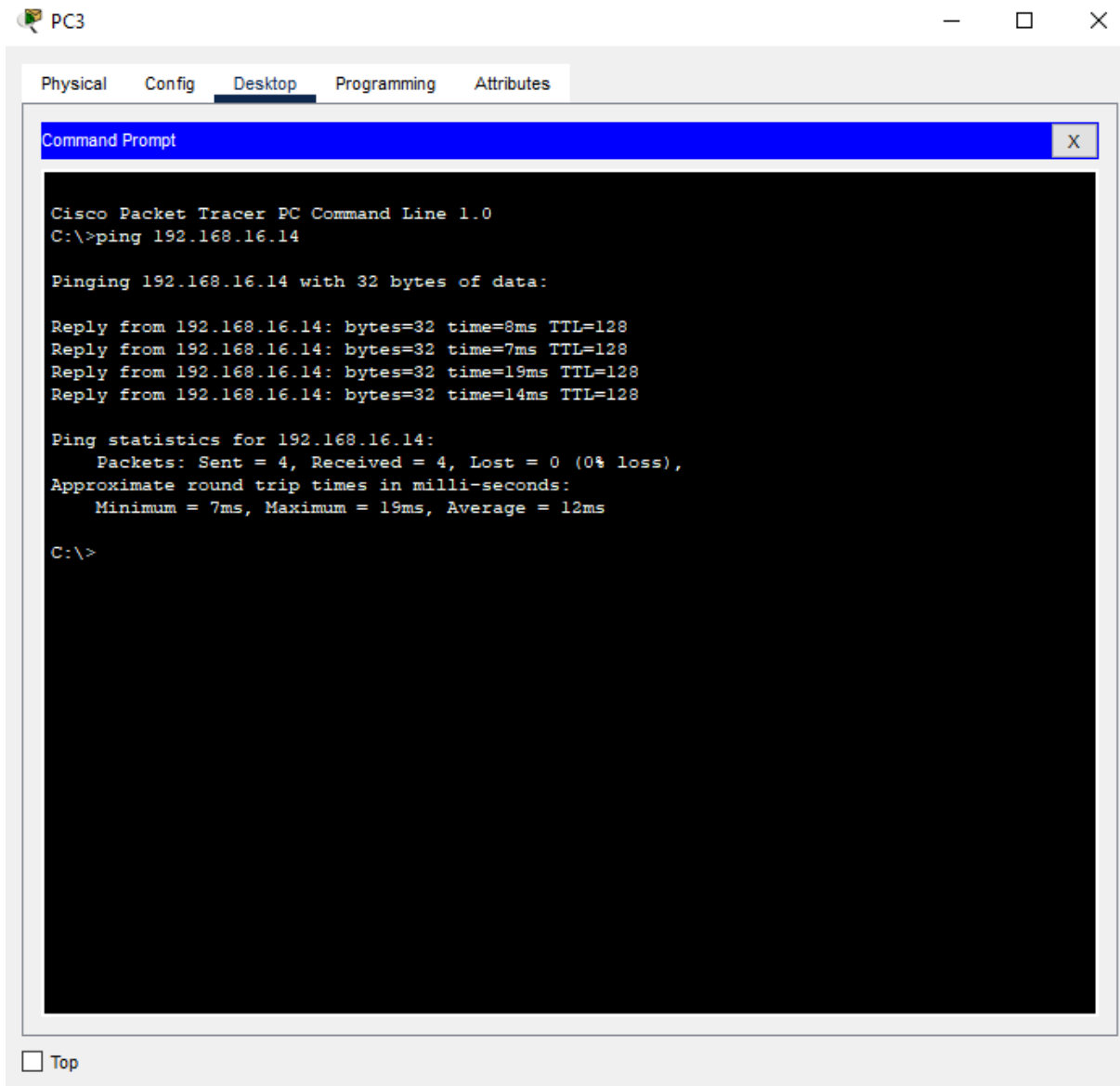
(v) Verify the connectivity of PC2 and PC3 using ping.

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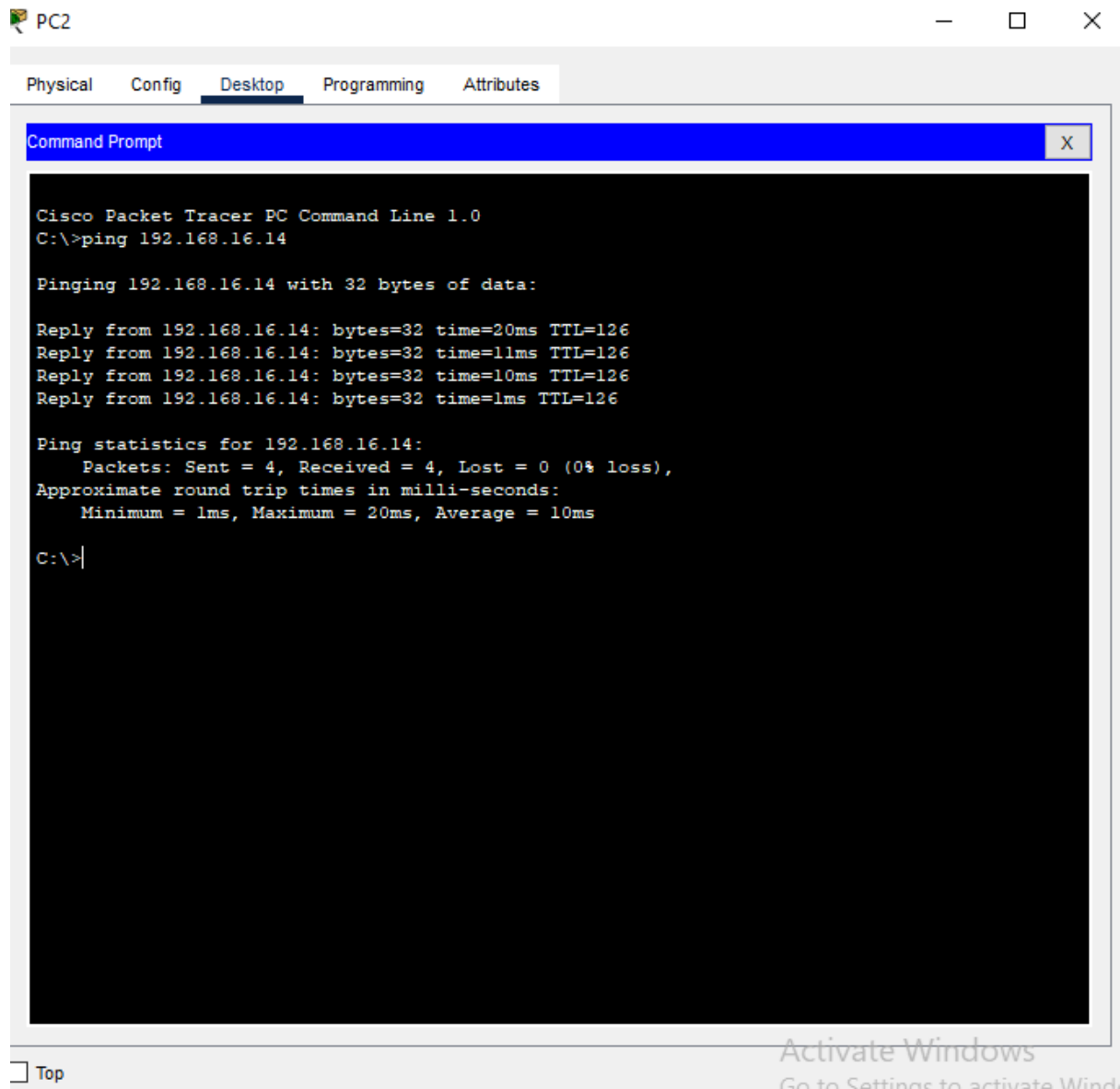


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(vi) Take screenshot for ``show ip route`` and ``show ip protocols`` of Router2 and Router3; ping from PC2 to PC3 and from PC3 to PC2.

Week 7 Assignment 1 (RIP)

ITE 476 Section 1

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Student name & ID: Fardina Kabir 1910080005

Router3

Physical Config CLI Attributes

IOS Command Line Interface

```
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#
Router#show ip route
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route

Gateway of last resort is not set

    10.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
C       10.0.0.0/30 is directly connected, Serial0/0/0
L       10.0.0.2/32 is directly connected, Serial0/0/0
R       192.168.8.0/24 [120/1] via 10.0.0.1, 00:00:00, Serial0/0/0
        192.168.16.0/24 is variably subnetted, 2 subnets, 2 masks
C       192.168.16.0/24 is directly connected, FastEthernet0/0
L       192.168.16.1/32 is directly connected, FastEthernet0/0

Router#
Router#
Router#
Router#
Router#show ip route rip
    10.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
R       192.168.8.0/24 [120/1] via 10.0.0.1, 00:00:17, Serial0/0/0

Router#
Router#
Router#
```

Ctrl+F6 to exit CLI focus

Copy Paste

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Activate W
Go to Settings

Week 7 Assignment 1 (RIP)

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 Router2

Physical

Config

CLI

Attributes

IOS Command Line Interface

```
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#
Router#show ip route
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route

Gateway of last resort is not set

    10.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
C       10.0.0.0/30 is directly connected, Serial0/0/0
L       10.0.0.1/32 is directly connected, Serial0/0/0
    192.168.8.0/24 is variably subnetted, 2 subnets, 2 masks
C       192.168.8.0/24 is directly connected, FastEthernet0/0
L       192.168.8.1/32 is directly connected, FastEthernet0/0
R       192.168.16.0/24 [120/1] via 10.0.0.2, 00:00:17, Serial0/0/0

Router#
Router#
Router#
Router#show ip route rip
    192.168.8.0/24 is variably subnetted, 2 subnets, 2 masks
R       192.168.16.0/24 [120/1] via 10.0.0.2, 00:00:06, Serial0/0/0

Router#
Router#
Router#
```

Ctrl+F6 to exit CLI focus

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Week 7 Assignment 1 (RIP)

ITE 476 Section 1

Instructor : Dr. Nay Myo Sandar

Student name & ID: Fardina Kabir 1910080005

 Router2

Physical

Config

CLI

Attributes

IOS Command Line Interface

```
Router#
Router#
Router#
Router#show ip route rip
      192.168.8.0/24 is variably subnetted, 2 subnets, 2 masks
R    192.168.16.0/24 [120/1] via 10.0.0.2, 00:00:06, Serial0/0/0

Router#
Router#
Router#show
Router#show ip
Router#show ip protocols
Routing Protocol is "rip"
Sending updates every 30 seconds, next due in 1 seconds
Invalid after 180 seconds, hold down 180, flushed after 240
Outgoing update filter list for all interfaces is not set
Incoming update filter list for all interfaces is not set
Redistributing: rip
Default version control: send version 2, receive 2
  Interface          Send Recv Triggered RIP Key-chain
  FastEthernet0/0      22
  Serial0/0/0          22
Automatic network summarization is in effect
Maximum path: 4
Routing for Networks:
  10.0.0.0
  192.168.8.0
Passive Interface(s):
Routing Information Sources:
  Gateway         Distance      Last Update
  10.0.0.2         120           00:00:06
Distance: (default is 120)
Router#
Router#
Router#
```

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Week 7 Assignment 1 (RIP)

ITE 476 Section 1

Instructor : Dr. Nay Myo Sandar

Student name & ID: Fardina Kabir 1910080005

 Router3

Physical

Config

CLI

Attributes

IOS Command Line Interface

```
Router#
Router#show ip route rip
      10.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
R       192.168.8.0/24 [120/1] via 10.0.0.1, 00:00:17, Serial0/0/0

Router#
Router#
Router#`show
Router#`showip
Router#show ip protocols
Routing Protocol is "rip"
Sending updates every 30 seconds, next due in 8 seconds
Invalid after 180 seconds, hold down 180, flushed after 240
Outgoing update filter list for all interfaces is not set
Incoming update filter list for all interfaces is not set
Redistributing: rip
Default version control: send version 2, receive 2
  Interface          Send Recv Triggered RIP Key-chain
  FastEthernet0/0      22
  Serial0/0/0          22
Automatic network summarization is in effect
Maximum path: 4
Routing for Networks:
    10.0.0.0
    192.168.16.0
Passive Interface(s):
Routing Information Sources:
    Gateway         Distance      Last Update
    10.0.0.1         120          00:00:10
Distance: (default is 120)
Router#
Router#
Router#
Router#
Router#
```

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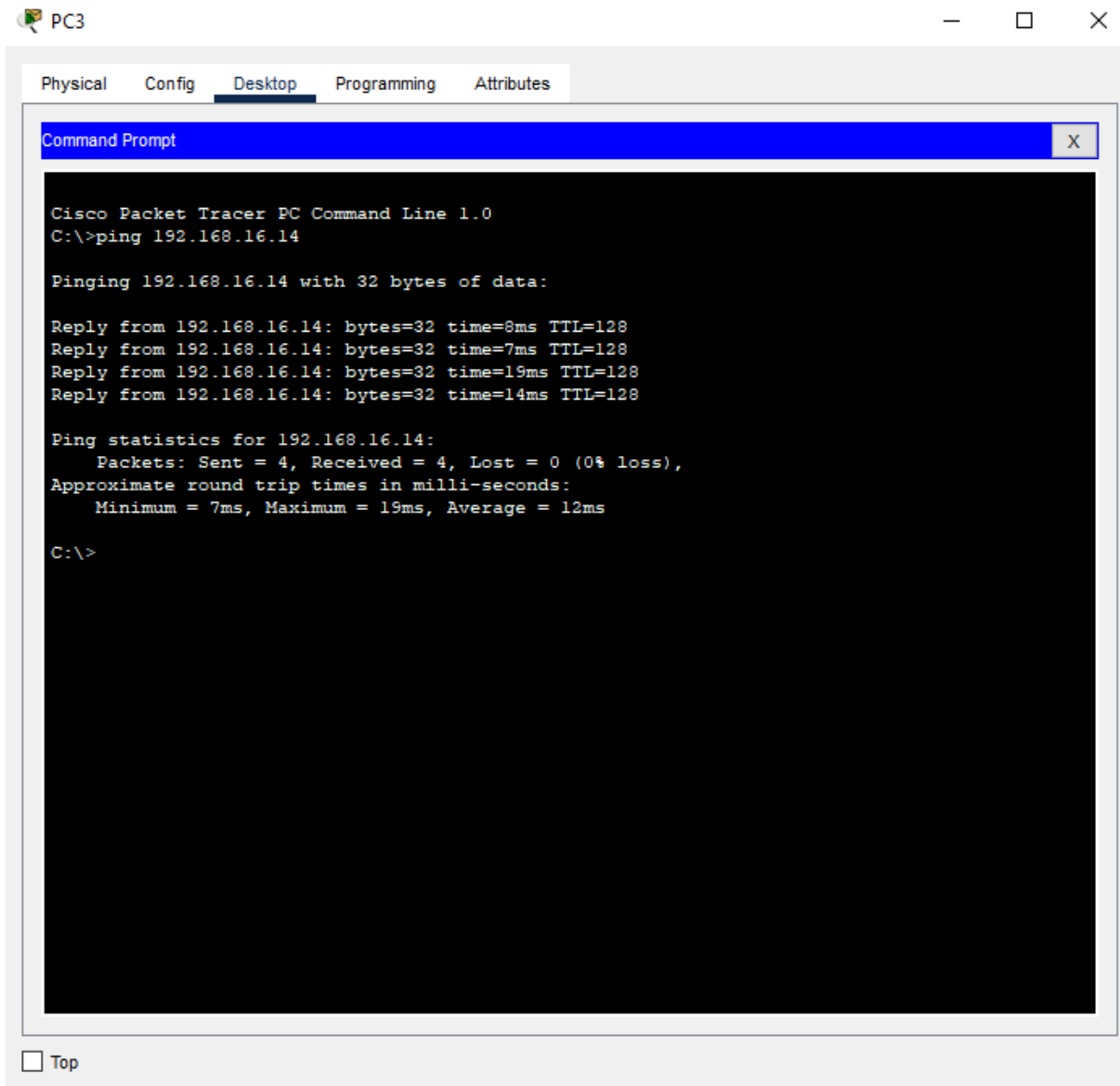
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Week 7 Assignment 1 (RIP)

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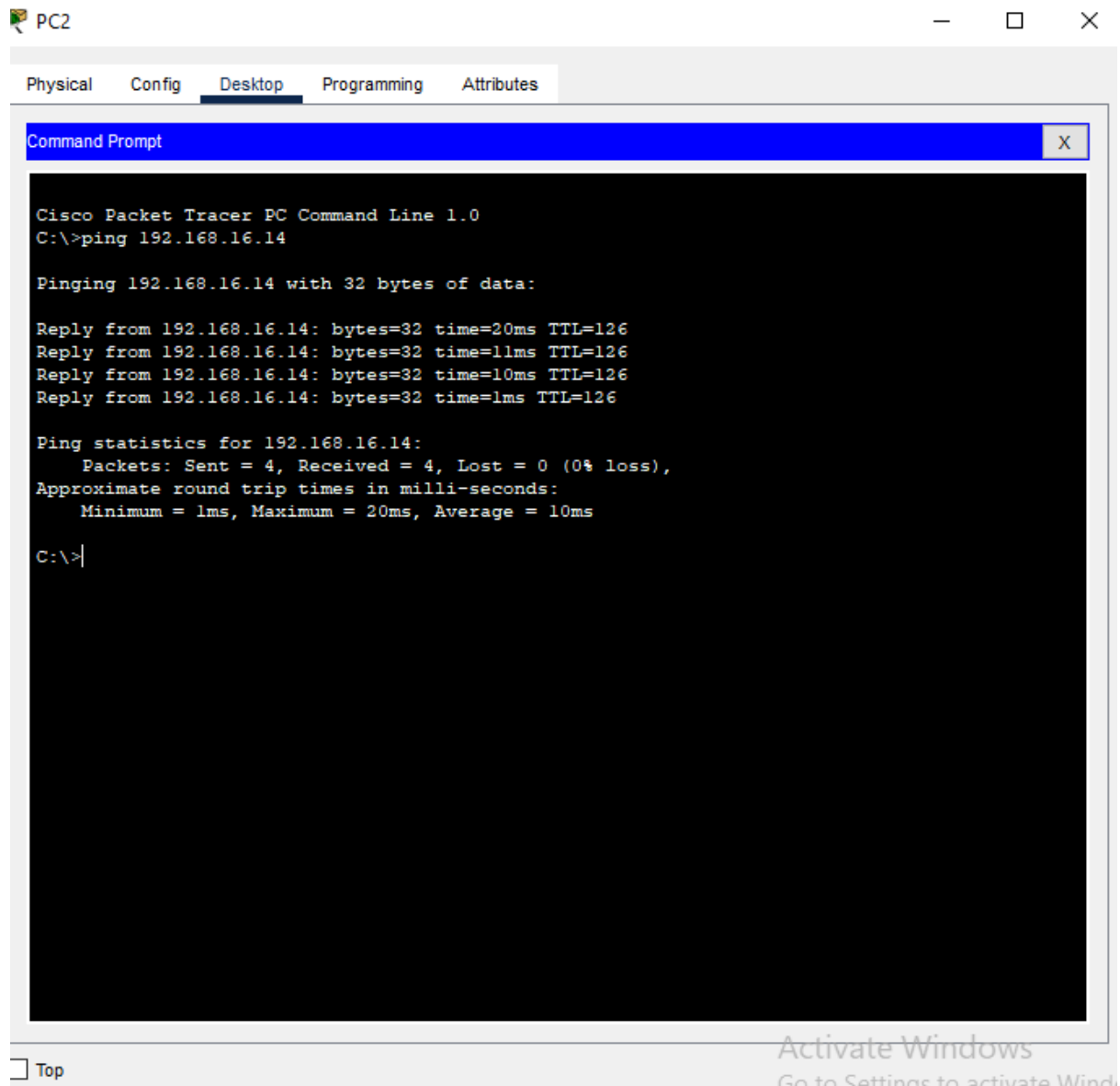


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