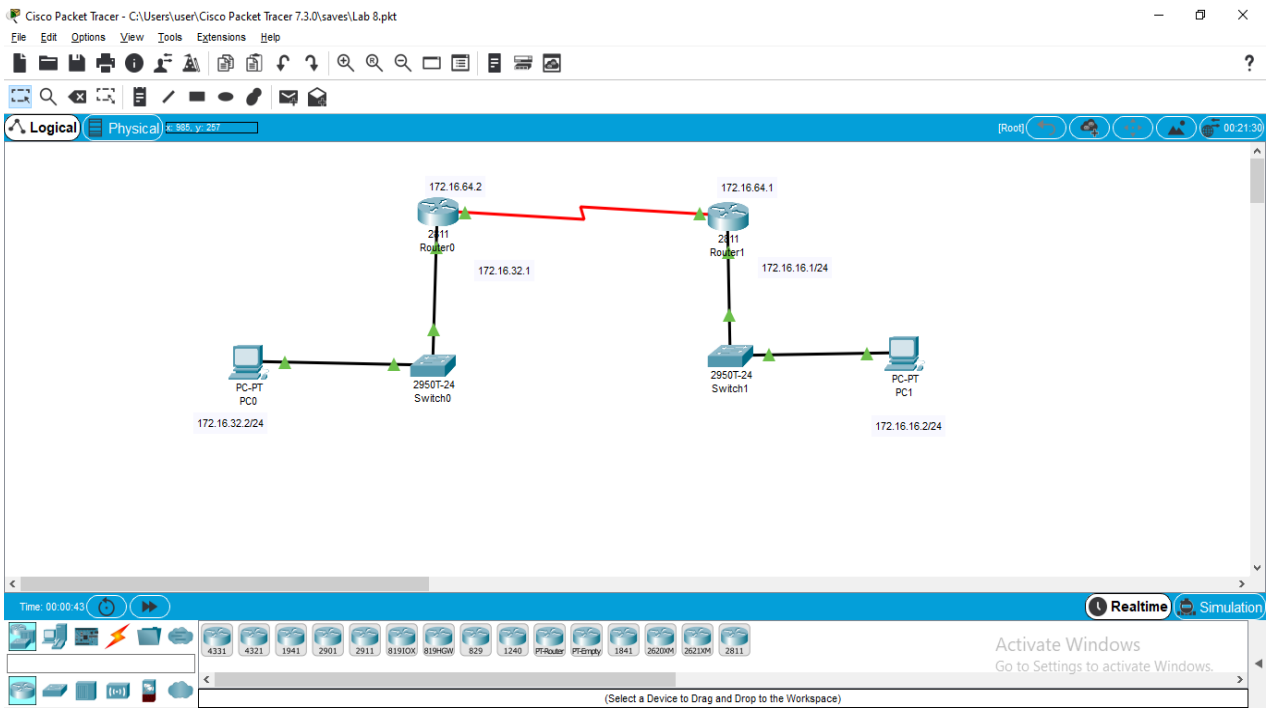
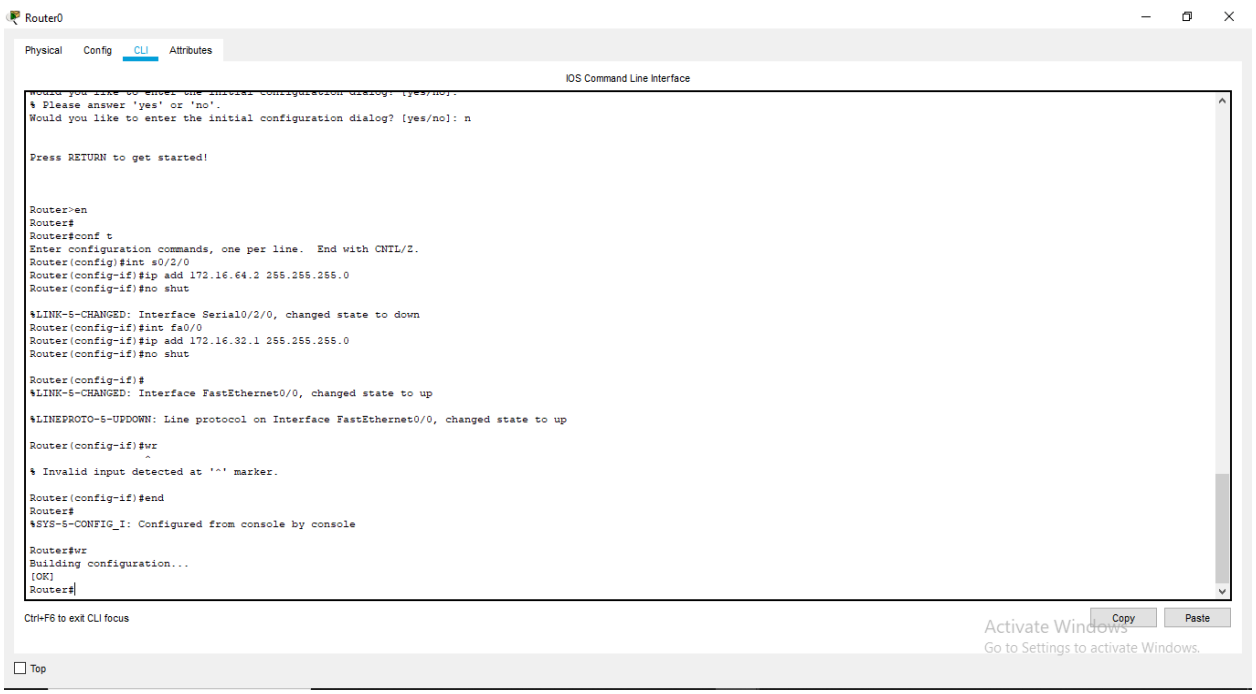
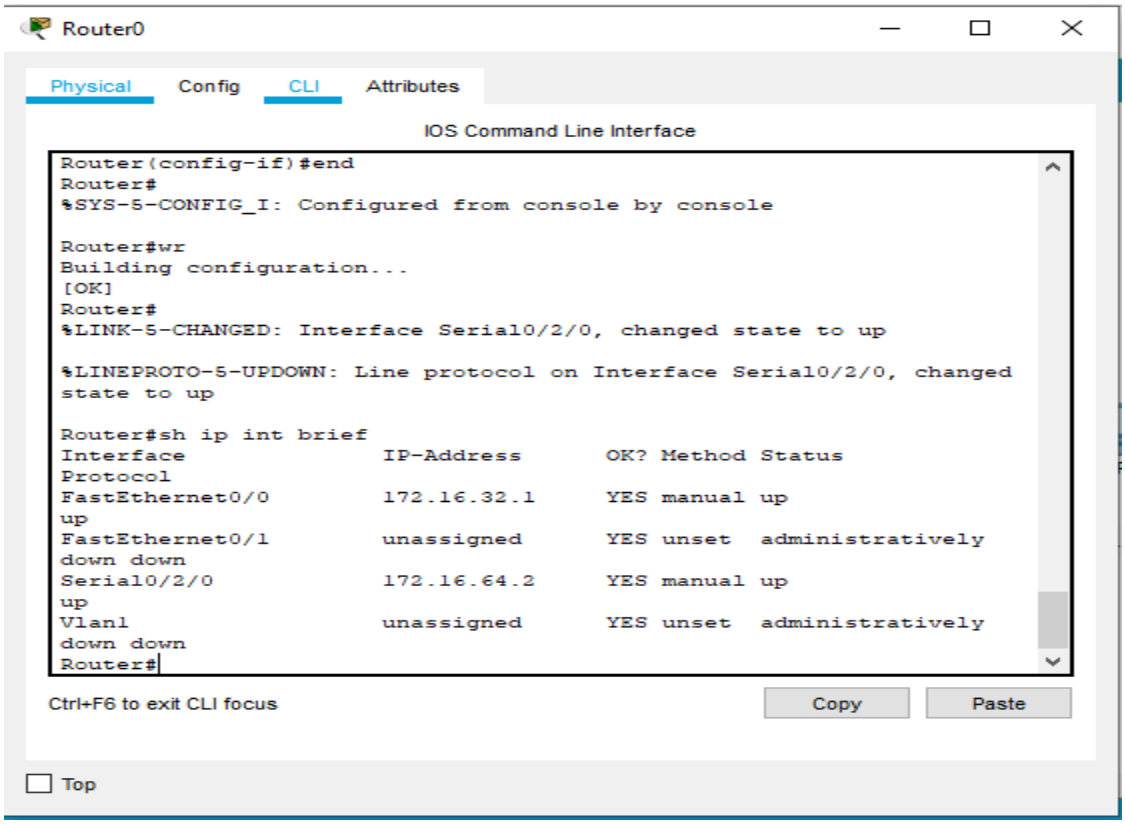
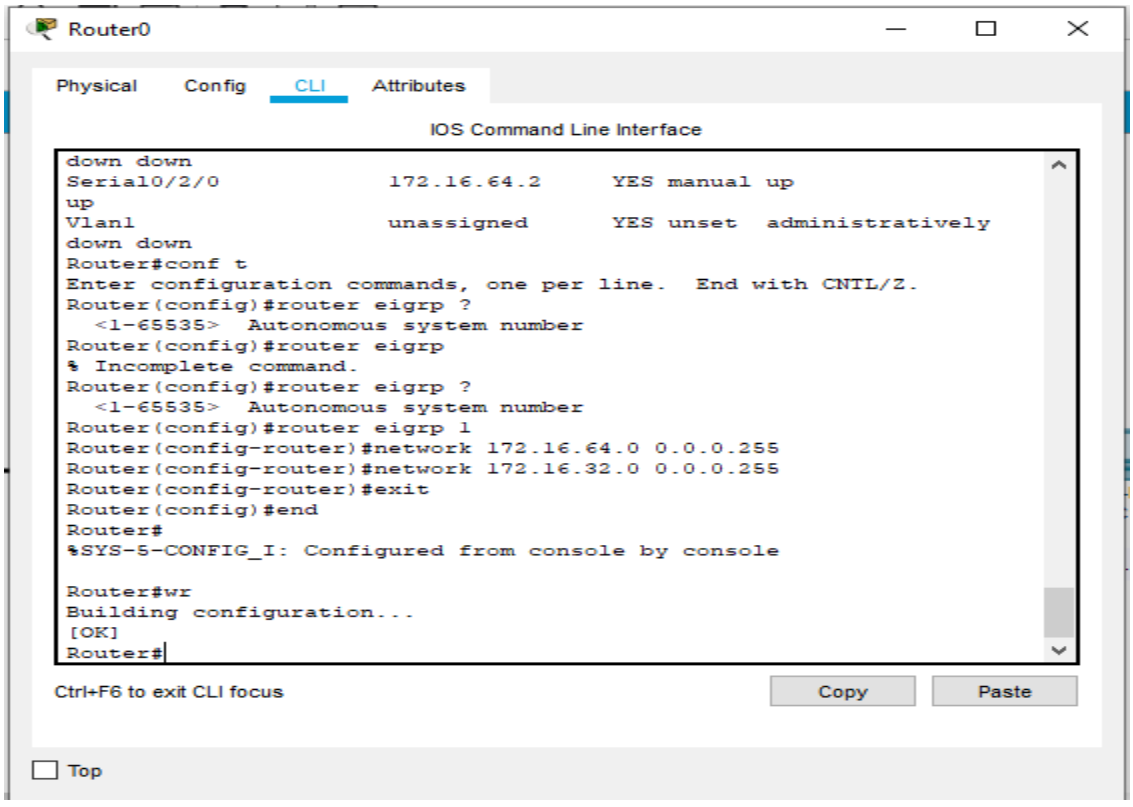
Lab No: 7

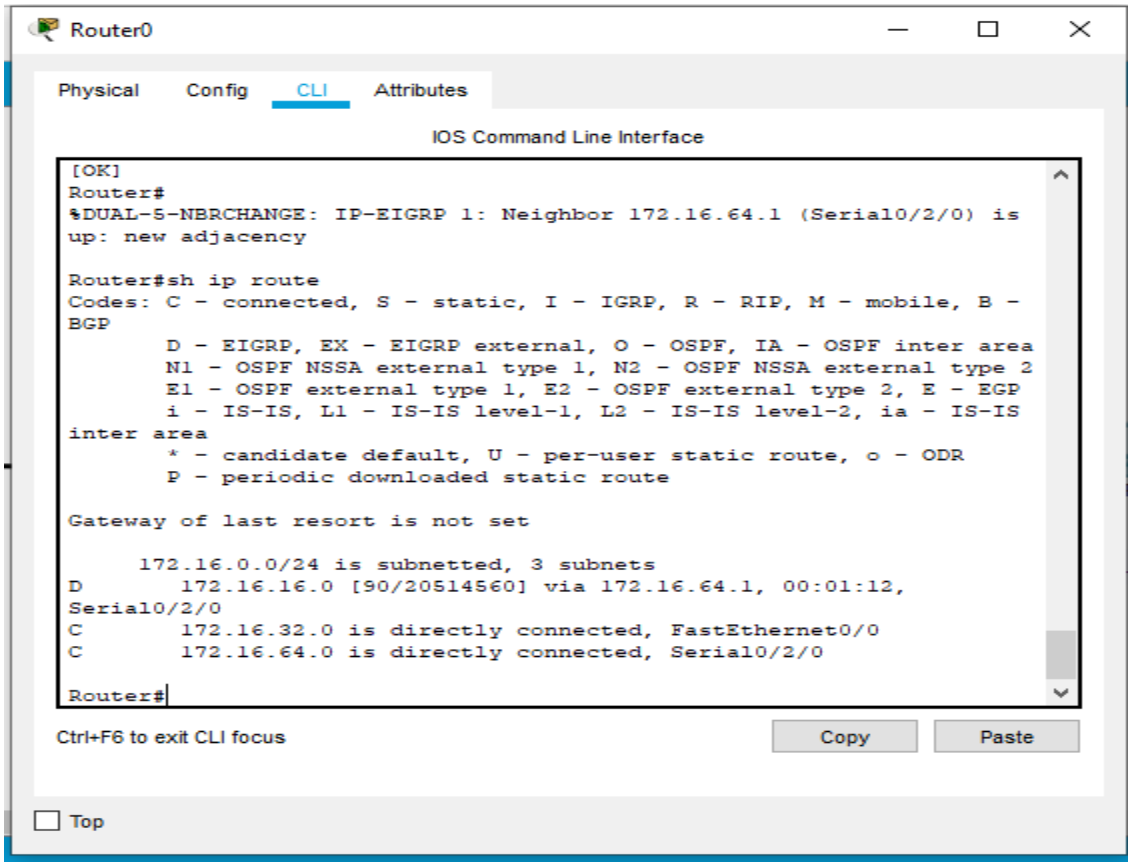


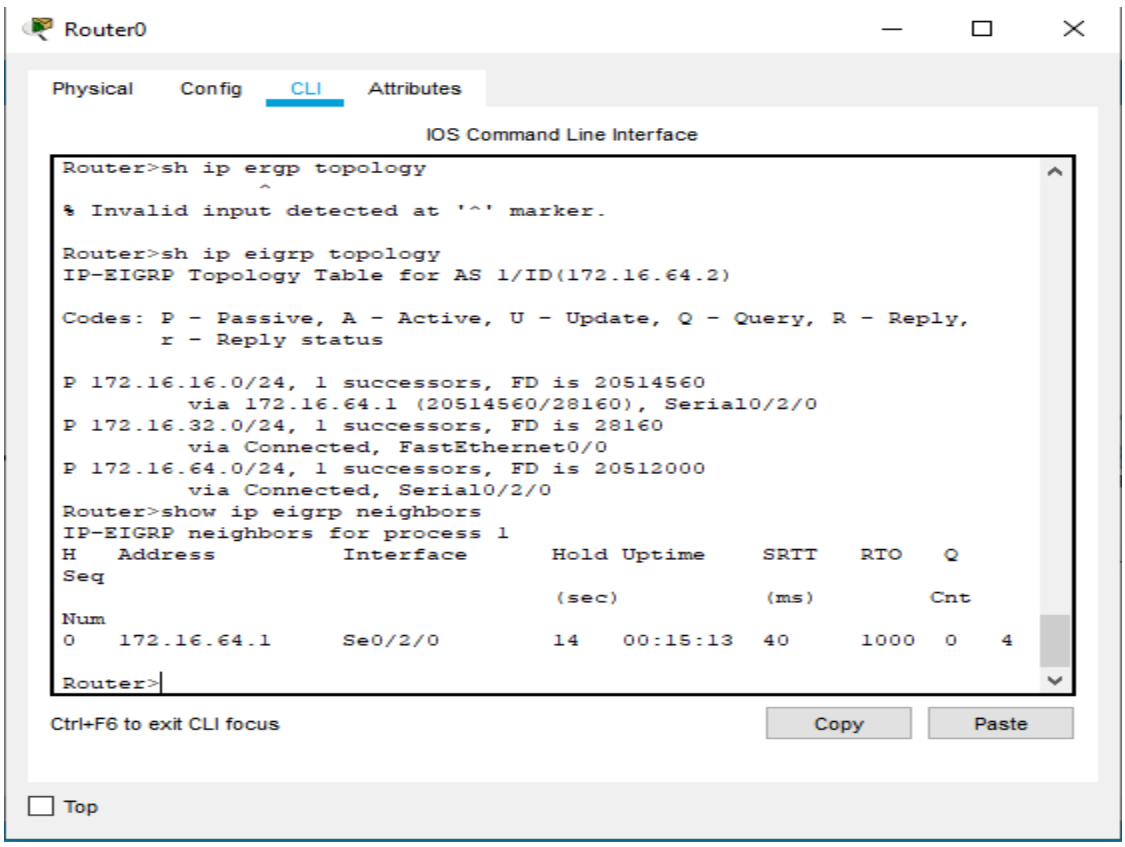
For Router 0



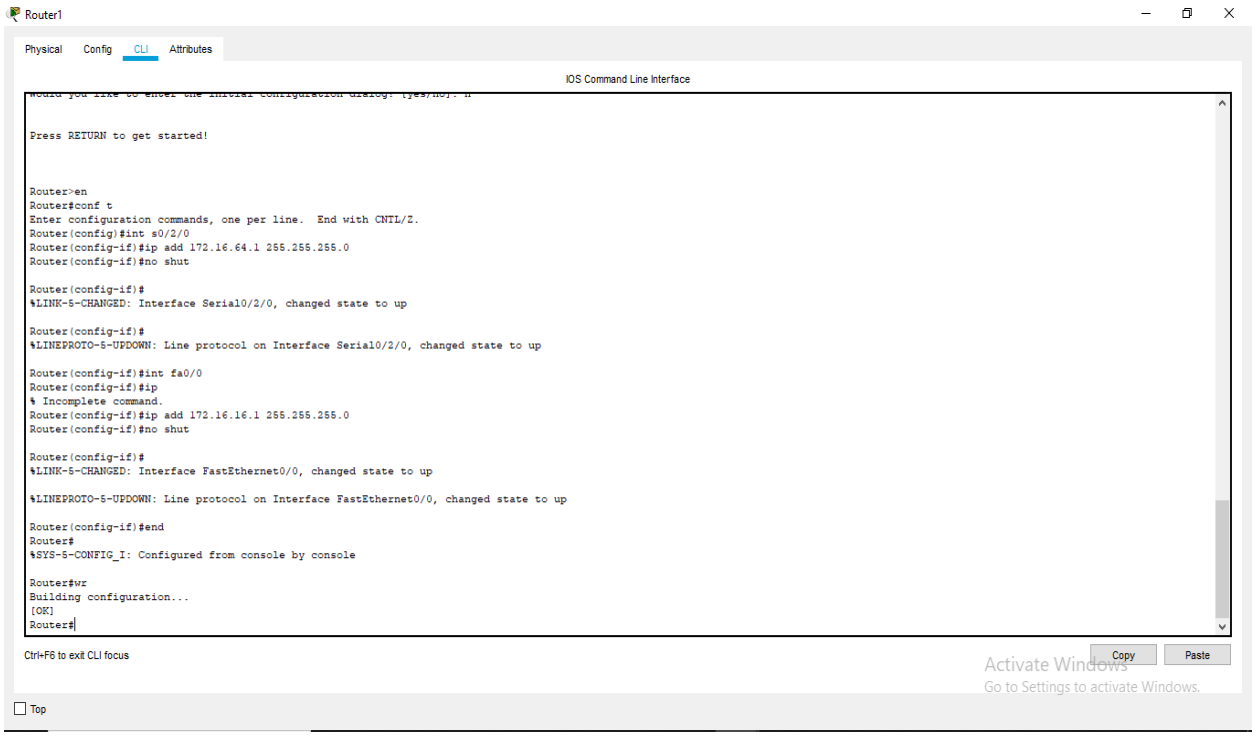

Router0
Physical
Config
CLI
Attributes
IOS Command Line Interface
Router(config-if)#end
Router#
%SYS-5-CONFIG_I: Configured from console by console
Router#wr
Building configuration...
[OK]
Router#
%LINK-5-CHANGED: Interface Serial0/2/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/2/0, changed state to up
Router#sh ip int brief
Interface IP-Address OK? Method Status Protocol
FastEthernet0/0 172.16.32.1 YES manual up up
FastEthernet0/1 unassigned YES unset administratively down down
Serial0/2/0 172.16.64.2 YES manual up up
Vlan1 unassigned YES unset administratively down down
Router#
Ctrl+F6 to exit CLI focus
Copy
Paste
Top

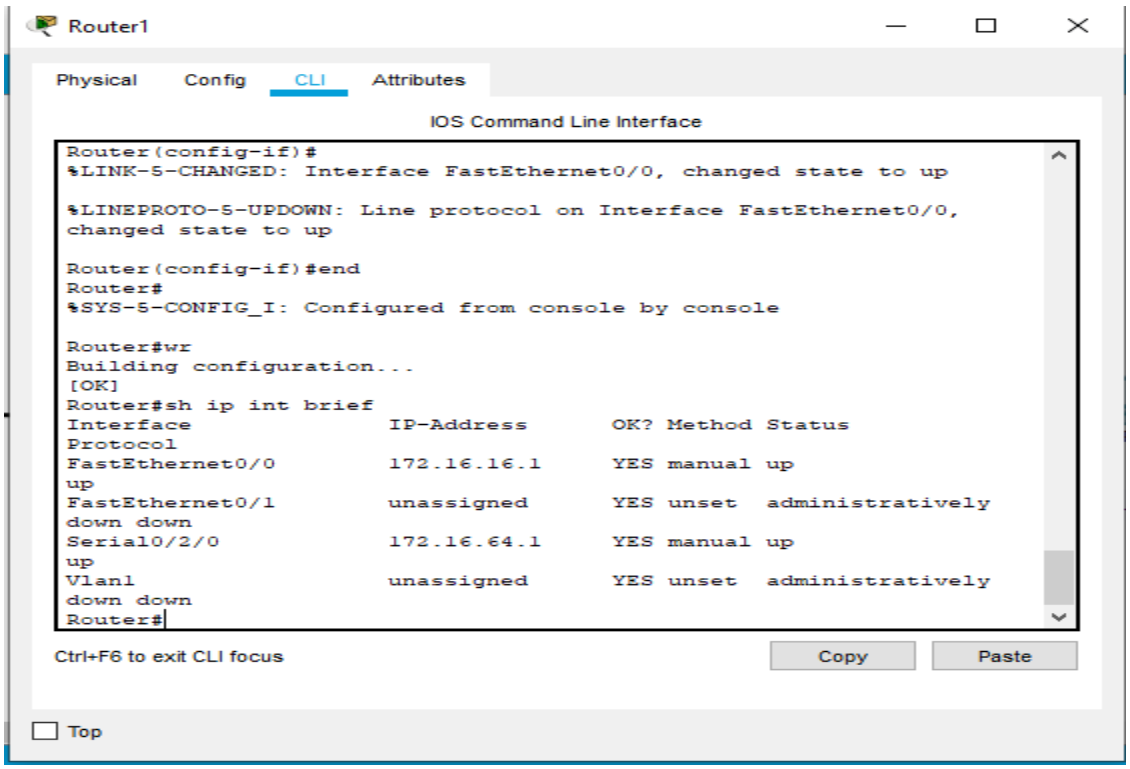

Router0
Physical
Config
CLI
Attributes
IOS Command Line Interface
down down
Serial0/2/0 172.16.64.2 YES manual up up
Vlan1 unassigned YES unset administratively down down
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router eigrp ?
<1-65535> Autonomous system number
Router(config)#router eigrp
% Incomplete command.
Router(config)#router eigrp ?
<1-65535> Autonomous system number
Router(config)#router eigrp 1
Router(config-router)#network 172.16.64.0 0.0.0.255
Router(config-router)#network 172.16.32.0 0.0.0.255
Router(config-router)#exit
Router(config)#end
Router#
%SYS-5-CONFIG_I: Configured from console by console
Router#wr
Building configuration...
[OK]
Router#
Ctrl+F6 to exit CLI focus
Copy
Paste
Top

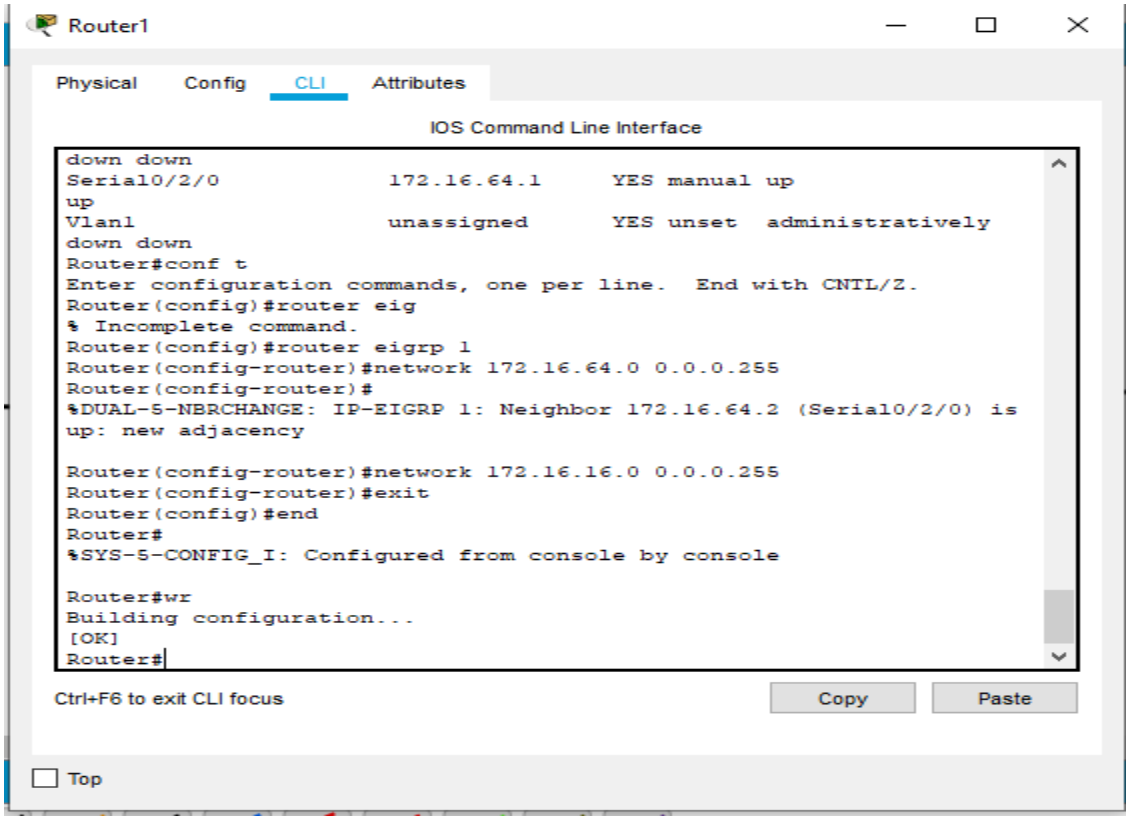

Router0
Physical
Config
CLI
Attributes
IOS Command Line Interface
[OK]
Router#
%DUAL-5-NBRCHANGE: IP-EIGRP 1: Neighbor 172.16.64.1 (Serial0/2/0) is up: new adjacency
Router#sh ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
D - EIGRP, EX - EIGRP external, O - OSPF, IA - 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
172.16.0.0/24 is subnetted, 3 subnets
D 172.16.16.0 [90/20514560] via 172.16.64.1, 00:01:12, Serial0/2/0
C 172.16.32.0 is directly connected, FastEthernet0/0
C 172.16.64.0 is directly connected, Serial0/2/0
Router#
Ctrl+F6 to exit CLI focus
Copy
Paste
Top

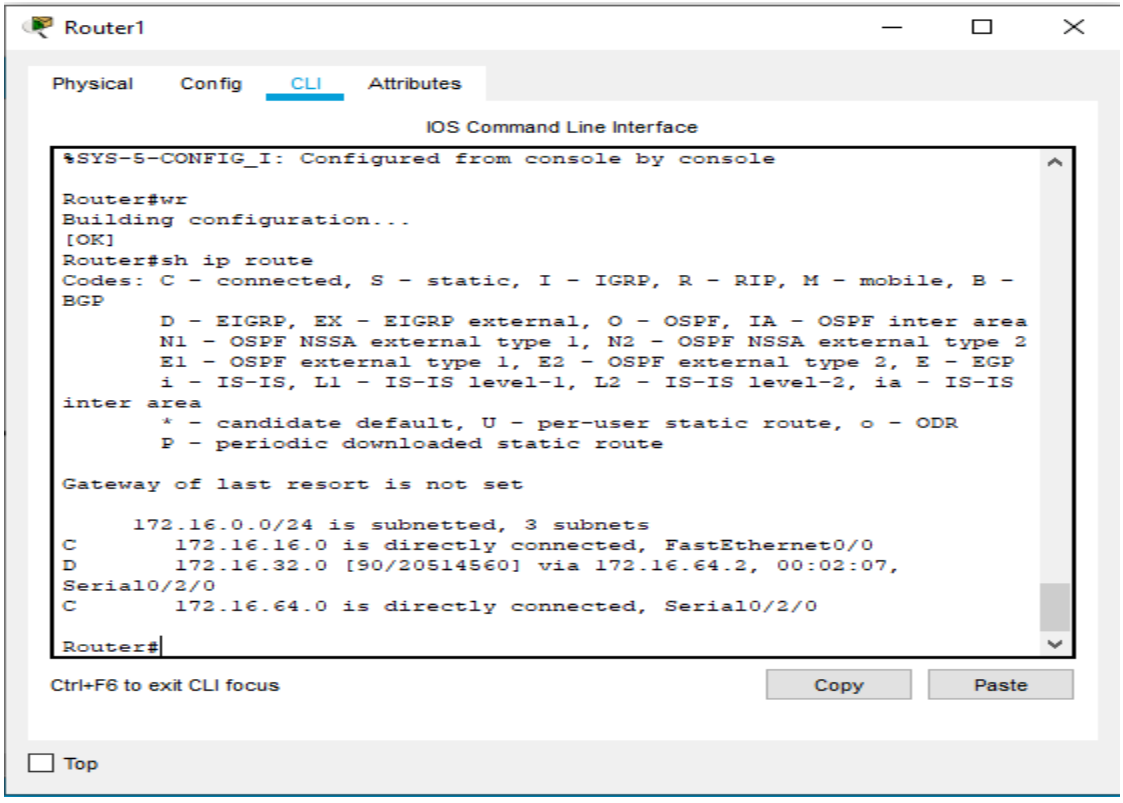

Router0
Physical
Config
CLI
Attributes
IOS Command Line Interface
Router>sh ip ergp topology
% Invalid input detected at '^' marker.
Router>sh ip eigrp topology
IP-EIGRP Topology Table for AS 1/ID(172.16.64.2)
Codes: P - Passive, A - Active, U - Update, Q - Query, R - Reply, r - Reply status
P 172.16.16.0/24, 1 successors, FD is 20514560
via 172.16.64.1 (20514560/28160), Serial0/2/0
P 172.16.32.0/24, 1 successors, FD is 28160
via Connected, FastEthernet0/0
P 172.16.64.0/24, 1 successors, FD is 20512000
via Connected, Serial0/2/0
Router>show ip eigrp neighbors
IP-EIGRP neighbors for process 1
H Address Interface Hold Uptime SRTT RTO Q Seq
(sec) (ms) Cnt Num
0 172.16.64.1 Se0/2/0 14 00:15:13 40 1000 0 4
Router>
Ctrl+F6 to exit CLI focus
Copy
Paste
Top

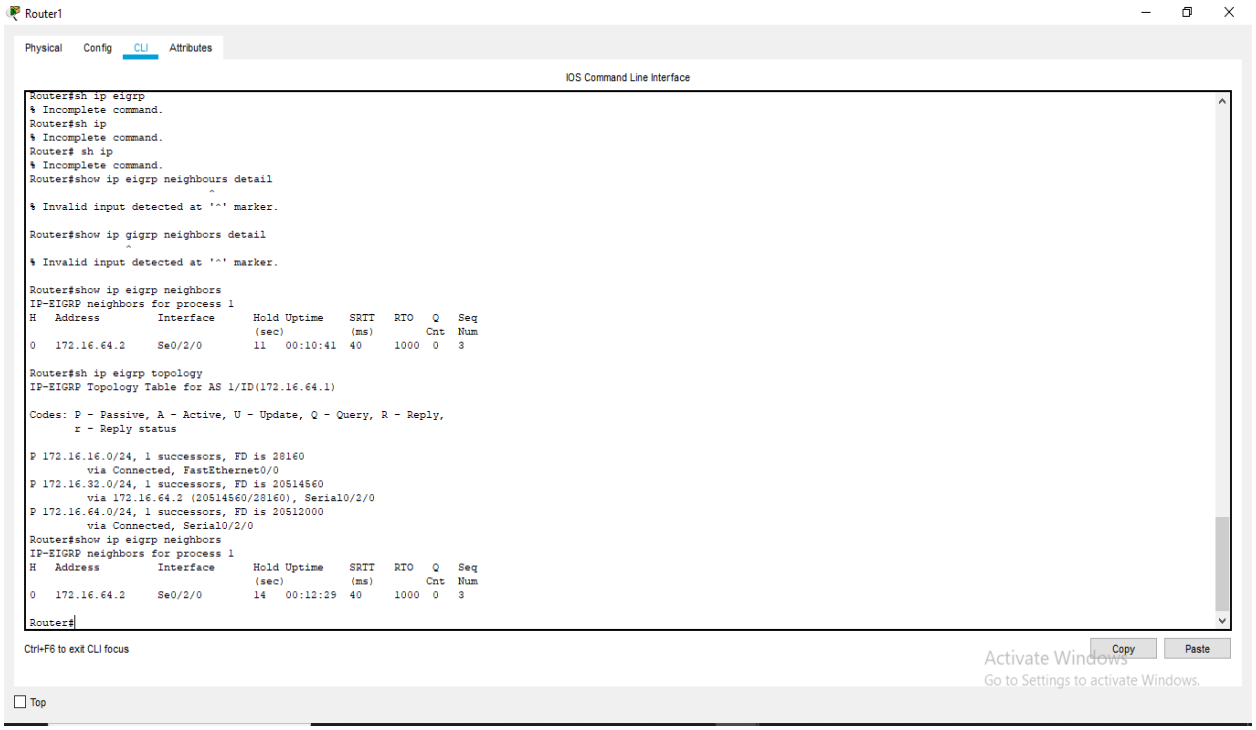
For Router 1

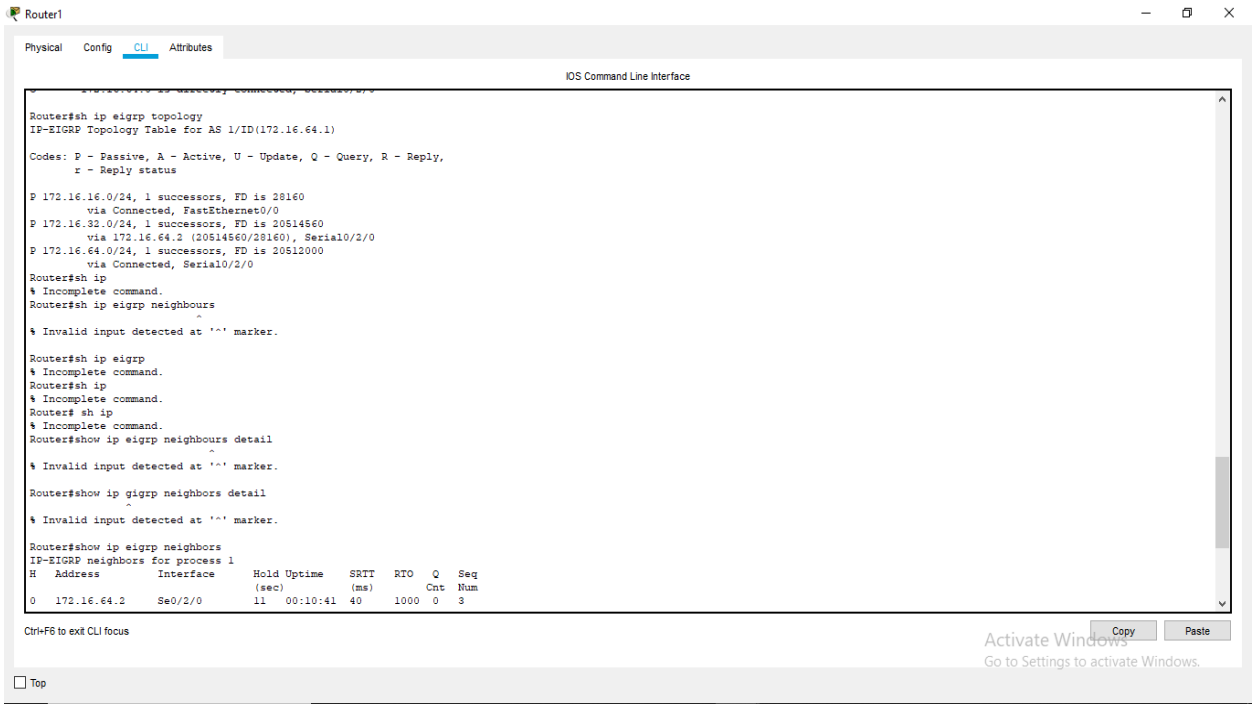

Router1
Physical
Config
CLI
Attributes
IOS Command Line Interface
Press RETURN to get started!
Router>en
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int s0/2/0
Router(config-if)#ip add 172.16.64.1 255.255.255.0
Router(config-if)#no shut
Router(config-if)#
%LINK-5-CHANGED: Interface Serial0/2/0, changed state to up
Router(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/2/0, changed state to up
Router(config-if)#int fa0/0
Router(config-if)#ip
% Incomplete command.
Router(config-if)#ip add 172.16.16.1 255.255.255.0
Router(config-if)#no shut
Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
Router(config-if)#end
Router#
%SYS-5-CONFIG_I: Configured from console by console
Router#wr
Building configuration...
[OK]
Router#
Ctrl+F6 to exit CLI focus
Copy
Paste
Top


Router1
Physical
Config
CLI
Attributes
IOS Command Line Interface
Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0,
changed state to up
Router(config-if)#end
Router#
%SYS-5-CONFIG_I: Configured from console by console
Router#wr
Building configuration...
[OK]
Router#sh ip int brief
Interface IP-Address OK? Method Status
Protocol
FastEthernet0/0 172.16.16.1 YES manual up
up
FastEthernet0/1 unassigned YES unset administratively
down down
Serial0/2/0 172.16.64.1 YES manual up
up
Vlan1 unassigned YES unset administratively
down down
Router#
Ctrl+F6 to exit CLI focus
Copy
Paste
Top


Router1
Physical
Config
CLI
Attributes
IOS Command Line Interface
down down
Serial0/2/0 172.16.64.1 YES manual up
up
Vlan1 unassigned YES unset administratively
down down
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router eig
% Incomplete command.
Router(config)#router eigrp 1
Router(config-router)#network 172.16.64.0 0.0.0.255
Router(config-router)#
%DUAL-5-NBRCHANGE: IP-EIGRP 1: Neighbor 172.16.64.2 (Serial0/2/0) is
up: new adjacency
Router(config-router)#network 172.16.16.0 0.0.0.255
Router(config-router)#exit
Router(config)#end
Router#
%SYS-5-CONFIG_I: Configured from console by console
Router#wr
Building configuration...
[OK]
Router#
Ctrl+F6 to exit CLI focus
Copy
Paste
Top


Router1
Physical
Config
CLI
Attributes
IOS Command Line Interface
%SYS-5-CONFIG_I: Configured from console by console
Router#wr
Building configuration...
[OK]
Router#sh ip route
Codes: C - connected, S - static, I - IGRP, 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
172.16.0.0/24 is subnetted, 3 subnets
C 172.16.16.0 is directly connected, FastEthernet0/0
D 172.16.32.0 [90/20514560] via 172.16.64.2, 00:02:07,
Serial0/2/0
C 172.16.64.0 is directly connected, Serial0/2/0
Router#
Ctrl+F6 to exit CLI focus
Copy
Paste
Top


Router1
Physical
Config
CLI
Attributes
IOS Command Line Interface
Router#sh ip eigrp
% Incomplete command.
Router#sh ip
% Incomplete command.
Router# sh ip
% Incomplete command.
Router#show ip eigrp neighbours detail
                    ^
% Invalid input detected at '^' marker.
Router#show ip gigrp neighbors detail
           ^
% Invalid input detected at '^' marker.
Router#show ip eigrp neighbors
IP-EIGRP neighbors for process 1
H   Address   Interface   Hold Uptime   SRTT   RTO   Q   Seq
                                    (sec)   (ms)   Cnt Num
0   172.16.64.2   Se0/2/0   11   00:10:41 40   1000 0   3
Router#sh ip eigrp topology
IP-EIGRP Topology Table for AS 1/ID(172.16.64.1)
Codes: P - Passive, A - Active, U - Update, Q - Query, R - Reply,
       r - Reply status
P 172.16.16.0/24, 1 successors, FD is 28160
         via Connected, FastEthernet0/0
P 172.16.32.0/24, 1 successors, FD is 20514560
         via 172.16.64.2 (20514560/28160), Serial0/2/0
P 172.16.64.0/24, 1 successors, FD is 20512000
         via Connected, Serial0/2/0
Router#show ip eigrp neighbors
IP-EIGRP neighbors for process 1
H   Address   Interface   Hold Uptime   SRTT   RTO   Q   Seq
                                    (sec)   (ms)   Cnt Num
0   172.16.64.2   Se0/2/0   14   00:12:29 40   1000 0   3
Router#
Ctrl+F6 to exit CLI focus
Copy
Paste
Activate Windows
Go to Settings to activate Windows.
Top


Router1
Physical
Config
CLI
Attributes
IOS Command Line Interface
Router#sh ip eigrp topology
IP-EIGRP Topology Table for AS 1/ID(172.16.64.1)
Codes: P - Passive, A - Active, U - Update, Q - Query, R - Reply,
       r - Reply status
P 172.16.16.0/24, 1 successors, FD is 28160
         via Connected, FastEthernet0/0
P 172.16.32.0/24, 1 successors, FD is 20514560
         via 172.16.64.2 (20514560/28160), Serial0/2/0
P 172.16.64.0/24, 1 successors, FD is 20512000
         via Connected, Serial0/2/0
Router#sh ip
% Incomplete command.
Router#sh ip eigrp neighbours
                   ^
% Invalid input detected at '^' marker.
Router#sh ip eigrp
% Incomplete command.
Router#sh ip
% Incomplete command.
Router# sh ip
% Incomplete command.
Router#show ip eigrp neighbours detail
                    ^
% Invalid input detected at '^' marker.
Router#show ip gigrp neighbors detail
           ^
% Invalid input detected at '^' marker.
Router#show ip eigrp neighbors
IP-EIGRP neighbors for process 1
H   Address   Interface   Hold Uptime   SRTT   RTO   Q   Seq
                                    (sec)   (ms)   Cnt Num
0   172.16.64.2   Se0/2/0   11   00:10:41 40   1000 0   3
Ctrl+F6 to exit CLI focus
Copy
Paste
Activate Windows
Go to Settings to activate Windows.
Top

PC1

Physical | Config | Desktop | Programming | Attributes

Command Prompt

```
Packet Tracer PC Command Line 1.0
C:\>ping 172.16.32.2

Pinging 172.16.32.2 with 32 bytes of data:

Reply from 172.16.32.2: bytes=32 time=4ms TTL=126
Reply from 172.16.32.2: bytes=32 time=11ms TTL=126
Reply from 172.16.32.2: bytes=32 time=14ms TTL=126
Reply from 172.16.32.2: bytes=32 time=16ms TTL=126

Ping statistics for 172.16.32.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 4ms, Maximum = 16ms, Average = 11ms

C:\>
```

Top

PC0

Physical | Config | Desktop | Programming | Attributes

Command Prompt

```
C:\>ping 172.16.16.2

Pinging 172.16.16.2 with 32 bytes of data:

Reply from 172.16.32.1: Destination host unreachable.
Reply from 172.16.32.1: Destination host unreachable.
Reply from 172.16.32.1: Destination host unreachable.
Reply from 172.16.32.1: Destination host unreachable.

Ping statistics for 172.16.16.2:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>ping 172.16.16.2

Pinging 172.16.16.2 with 32 bytes of data:

Reply from 172.16.16.2: bytes=32 time=7ms TTL=126
Reply from 172.16.16.2: bytes=32 time=2ms TTL=126
Reply from 172.16.16.2: bytes=32 time=15ms TTL=126
Reply from 172.16.16.2: bytes=32 time=13ms TTL=126

Ping statistics for 172.16.16.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 15ms, Average = 9ms

C:\>
```

Top