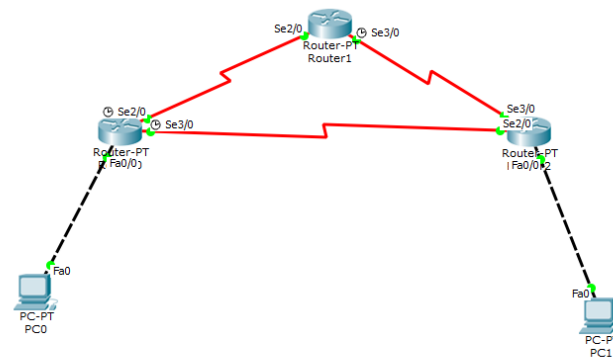


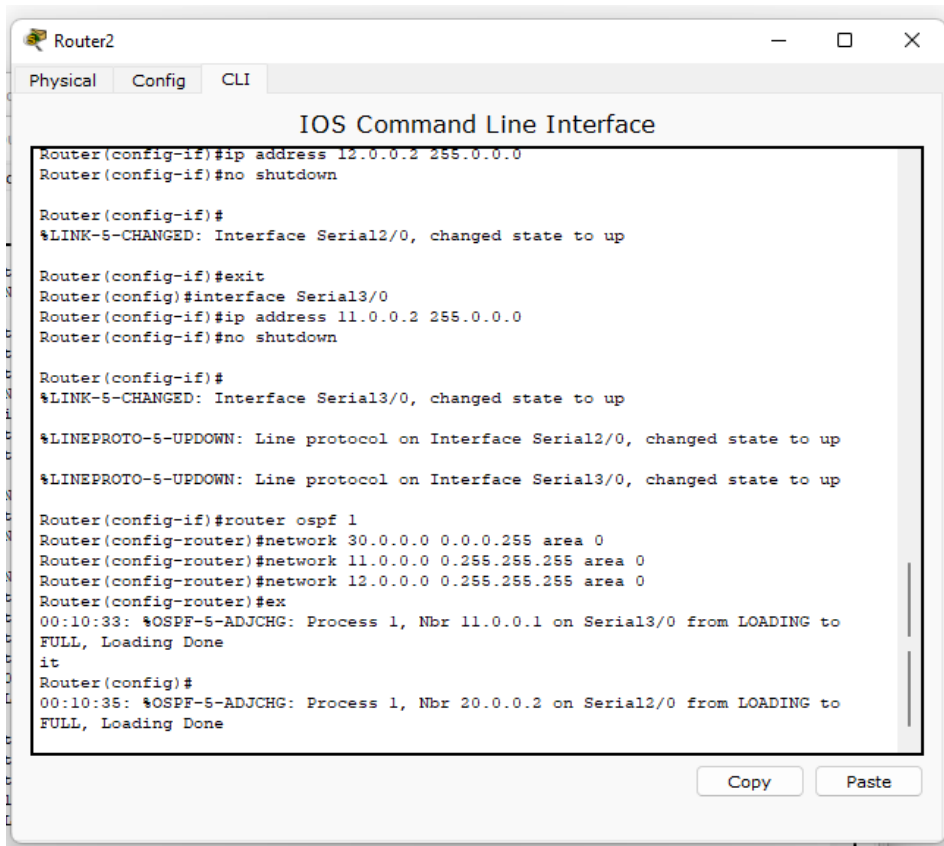
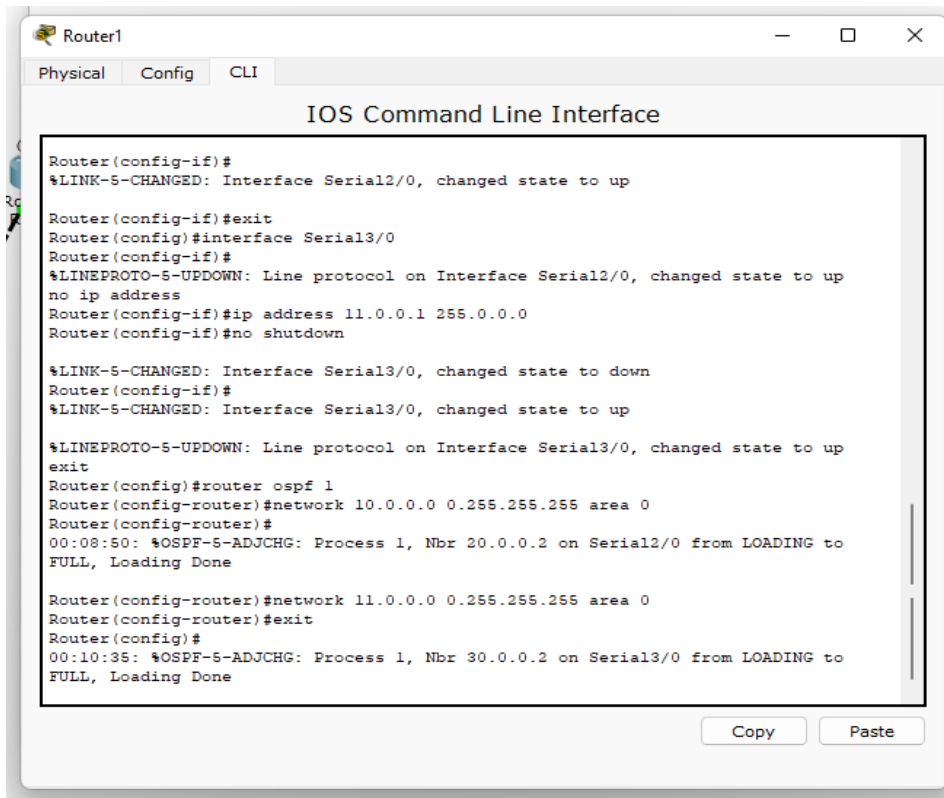
Title: Configure OSPF routing protocol

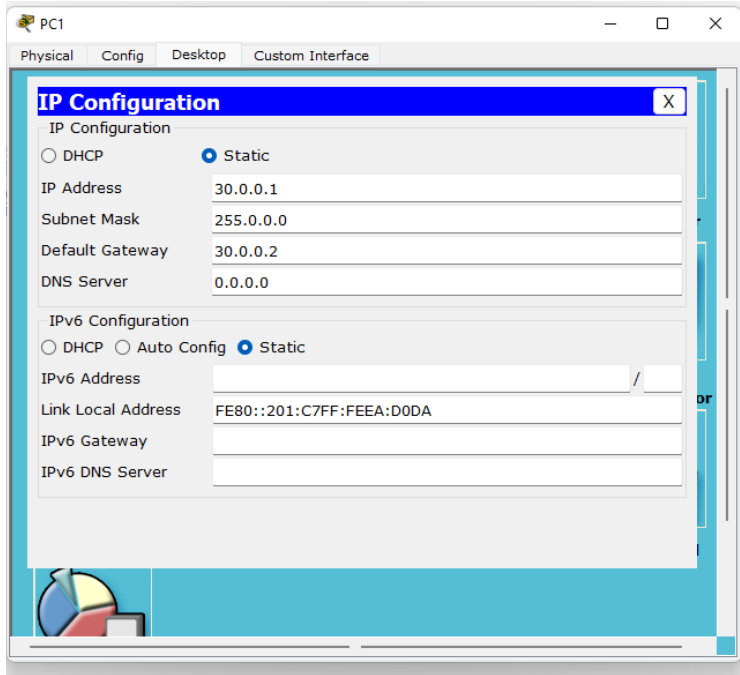
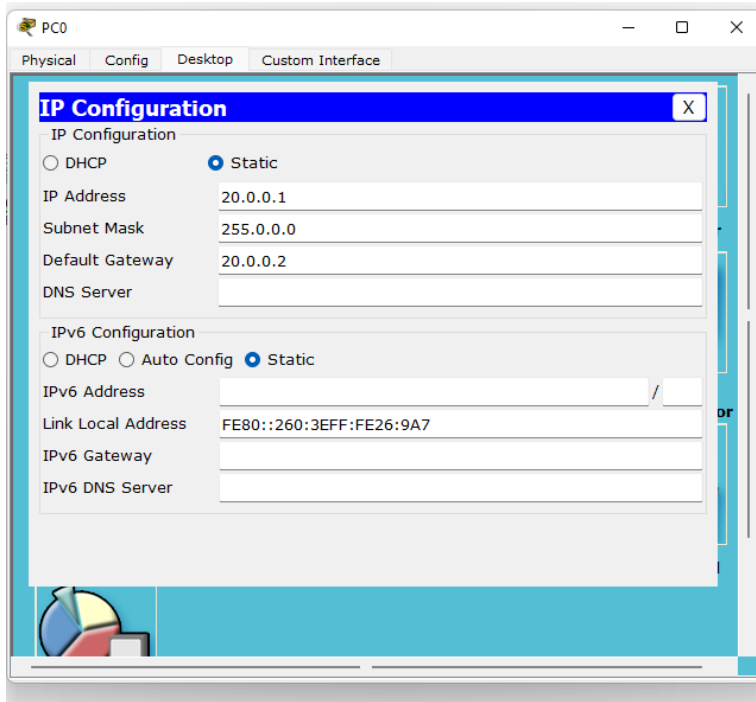
Topology:

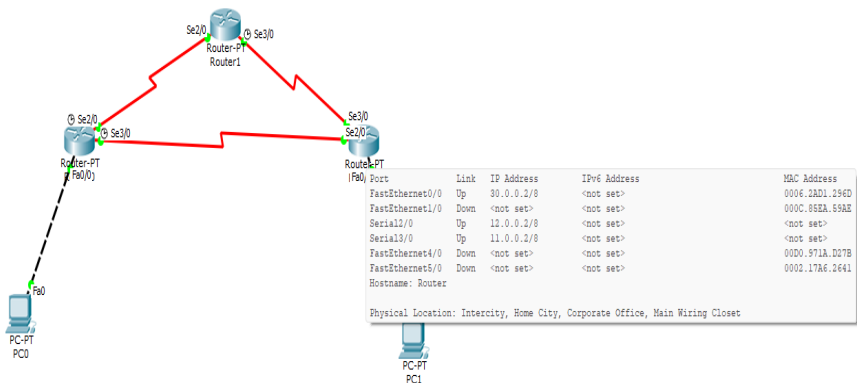
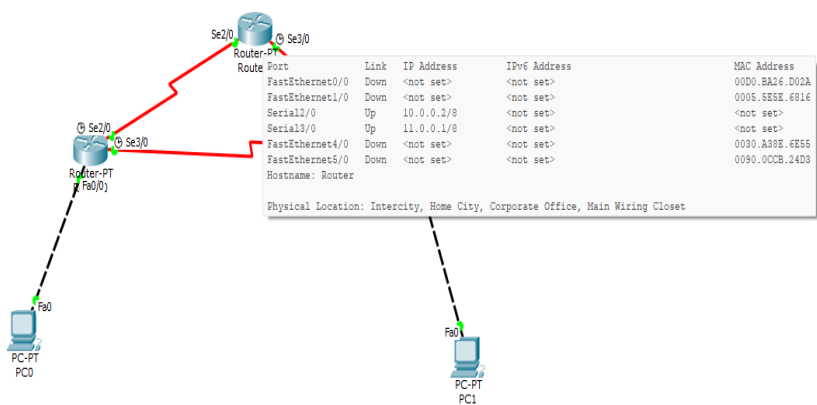
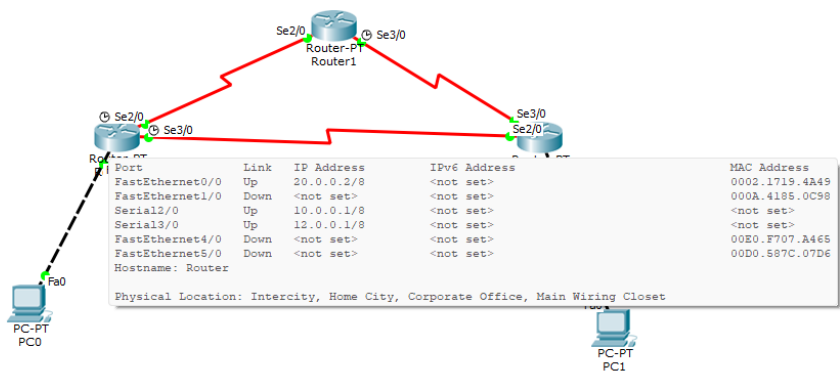


```
Router0
Physical Config CLI
IOS Command Line Interface
$LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state to up
exit
Router(config)#router ospf 1
Router(config-router)#network 20.0.0.0 0.0.0.255 area 0
Router(config-router)#network 10.0.0.0 255.0.0.0 area 0
Router(config-router)#network 12.0.0.0 255.0.0.0 area 0
Router(config-router)#exit
Router(config)#show ip route
^
% Invalid input detected at '^' marker.

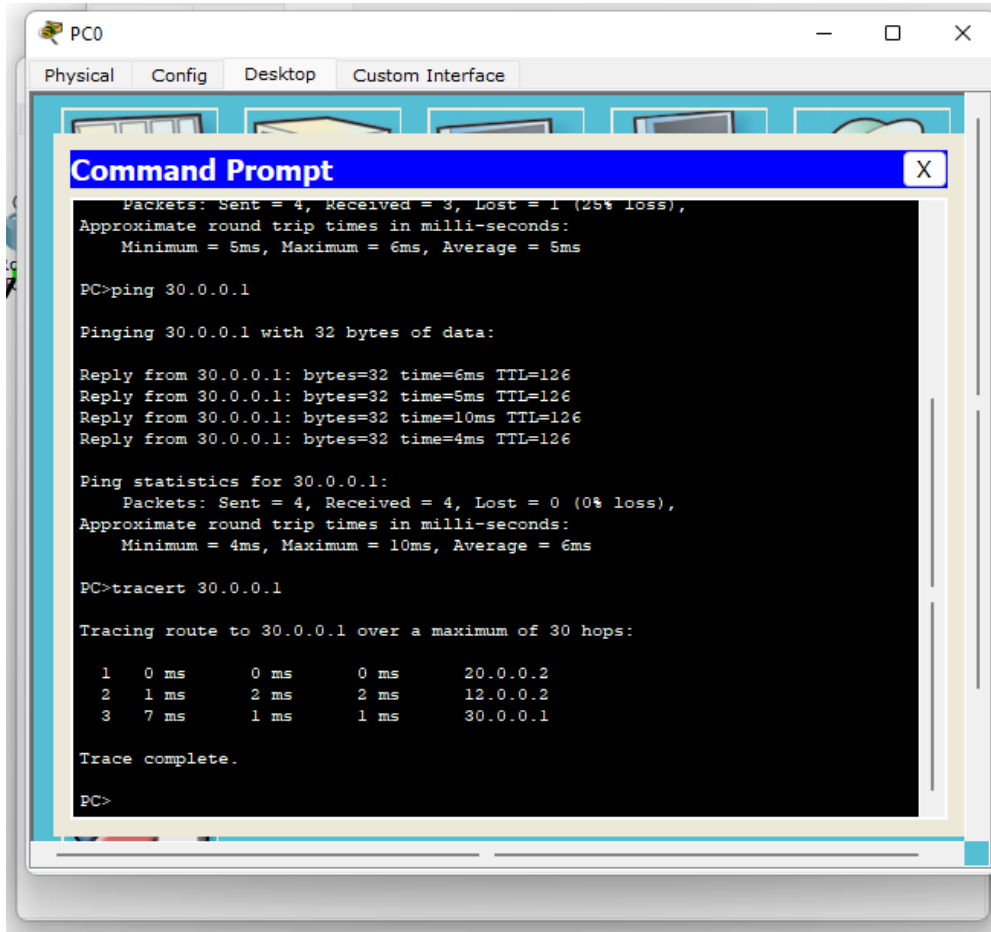
Router(config)#router ospf 1
Router(config-router)#network 12.0.0.0 255.0.0.0 area 0
Router(config-router)#network 12.0.0.0 255.0.0.0 area 0
Router#
%SYS-5-CONFIG_I: Configured from console by console
configure terminal
Enter configuration commands, one per line. End with CNTRL/Z.
Router(config)#router ospf 1
Router(config-router)#network 20.0.0.0 0.0.0.255 area 0
Router(config-router)#network 10.0.0.0 0.255.255.255 area 0
Router(config-router)#network 12.0.0.0 0.255.255.255 area 0
Router(config-router)#exit
Router(config)#
00:08:52: %OSPF-5-ADJCHG: Process 1, Nbr 11.0.0.1 on Serial2/0 from LOADING to FULL, Loading Done
00:10:40: %OSPF-5-ADJCHG: Process 1, Nbr 30.0.0.2 on Serial3/0 from LOADING to FULL, Loading Done
```







Output:



The screenshot shows a Packet Tracer PC0 desktop environment. A Command Prompt window is open, displaying the results of a ping and a traceroute command. The window has a blue title bar with the text 'Command Prompt' and a close button. The background of the desktop shows various icons and a taskbar.

```
PC0
Physical Config Desktop Custom Interface

Command Prompt

Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
  Minimum = 5ms, Maximum = 6ms, Average = 5ms

PC>ping 30.0.0.1

Pinging 30.0.0.1 with 32 bytes of data:

Reply from 30.0.0.1: bytes=32 time=6ms TTL=126
Reply from 30.0.0.1: bytes=32 time=5ms TTL=126
Reply from 30.0.0.1: bytes=32 time=10ms TTL=126
Reply from 30.0.0.1: bytes=32 time=4ms TTL=126

Ping statistics for 30.0.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 4ms, Maximum = 10ms, Average = 6ms

PC>tracert 30.0.0.1

Tracing route to 30.0.0.1 over a maximum of 30 hops:

  0  0 ms    0 ms    0 ms    20.0.0.2
  1  1 ms    2 ms    2 ms    12.0.0.2
  2  7 ms    1 ms    1 ms    30.0.0.1

Trace complete.

PC>
```