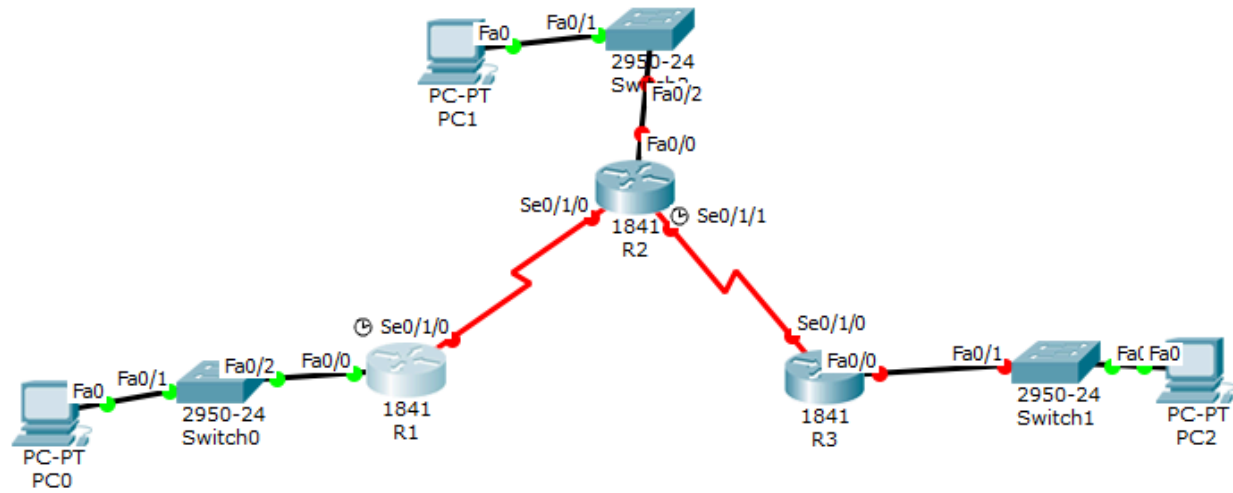LAB 5

Configure default route ,static to the router

R1

```
Router>enable
Router#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#int Se0/1/0
Router(config-if)#ip address 172.16.1.1 255.255.255.252
Router(config-if)#no shutdown

%LINK-5-CHANGED: Interface Serial0/1/0, changed state to down
Router(config-if)#exit
Router(config)#interface fa0/0
Router(config-if)#ip address 192.168.10.1 255.255.255.0
Router(config-if)#no shutdown

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
write memory
                      ^
% Invalid input detected at '^' marker.

Router(config-if)#exit
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
write memory
Building configuration...
[OK]
Router#
```

R2

```
Router>enable
Router#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#int Se0/1/0
Router(config-if)#ip address 172.16.1.2 255.255.255.252
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface Serial0/1/0, changed state to up
exit
Router(config)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/1/0, changed state to up

Router(config)#int Fa0/0
Router(config-if)#ip address 192.168.20.1 255.255.255.0
Router(config-if)#no shutdown

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
exit
Router(config)#Se0/1/1
                ^
% Invalid input detected at '^' marker.

Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
int Se0/1/1
      ^
% Invalid input detected at '^' marker.

Router#ip address 172.16.2.1 255.255.255.252
          ^
% Invalid input detected at '^' marker.

Router#
Router#int Se0/1/1
          ^
% Invalid input detected at '^' marker.

Router#no shutdown
          ^
% Invalid input detected at '^' marker.

Router#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#int Se0/1/1
Router(config-if)#ip address 172.16.2.1 255.255.255.252
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface Serial0/1/1, changed state to up
^Z
Router#
%SYS-5-CONFIG_I: Configured from console by console
wr
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/1/1, changed state to up

Building configuration...
[OK]
Router#
```

R3

```
          --- System Configuration Dialog ---

Continue with configuration dialog? [yes/no]: no


Press RETURN to get started!



Router>enable
Router#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#int Se0/1/0
Router(config-if)#ip address 172.16.2.2 255.255.255.252
Router(config-if)#no shutdown

%LINK-5-CHANGED: Interface Serial0/1/0, changed state to down
Router(config-if)#exit
Router(config)#
Router(config)#int Fa0/0
Router(config-if)#ip address 192.168.30.1 255.255.255.0
Router(config-if)#no shutdown

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)#exit
Router(config)#^Z
Router#
%SYS-5-CONFIG_I: Configured from console by console
wr
Building configuration...
[OK]
Router#
```
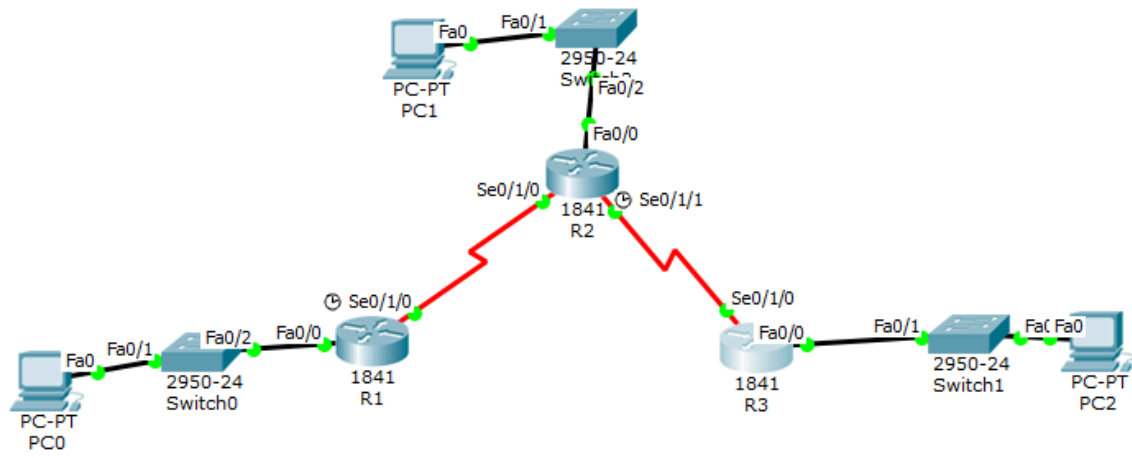
IOS Command Line Interface

```
Router>hostname R1
              ^
% Invalid input detected at '^' marker.

Router>enable
Router#hostname R1
              ^
% Invalid input detected at '^' marker.

Router#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#hostname R1
R1(config)#ip route 192.168.20.0 255.255.255.0 172.16.1.2
R1(config)#ip route 172.16.2.0 255.255.255.252 172.16.1.2
R1(config)#ip route 192.168.30.0 255.255.255.0 172.16.1.2
R1(config)#^Z
R1#
%SYS-5-CONFIG_I: Configured from console by console
wr
Building configuration...
[OK]
R1#
```

Physical   Config   **CLI**

IOS Command Line Interface

```
Router(config)#int Se0/1/1
Router(config-if)#ip address 172.16.2.1 255.255.255.252
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface Serial0/1/1, changed state to up
^Z
Router#
%SYS-5-CONFIG_I: Configured from console by console
wr
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/1/1, changed state to up

Building configuration...
[OK]
Router#
Router#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#enable
% Incomplete command.
Router(config)#conf t
%Invalid hex value
Router(config)#ip route 192.168.10.0 255.255.255.0 172.16.1.1
Router(config)#ip route 192.168.30.0 255.255.255.0 172.16.2.2
Router(config)#^Z
Router#
%SYS-5-CONFIG_I: Configured from console by console
wr
Building configuration...
[OK]
Router#
```
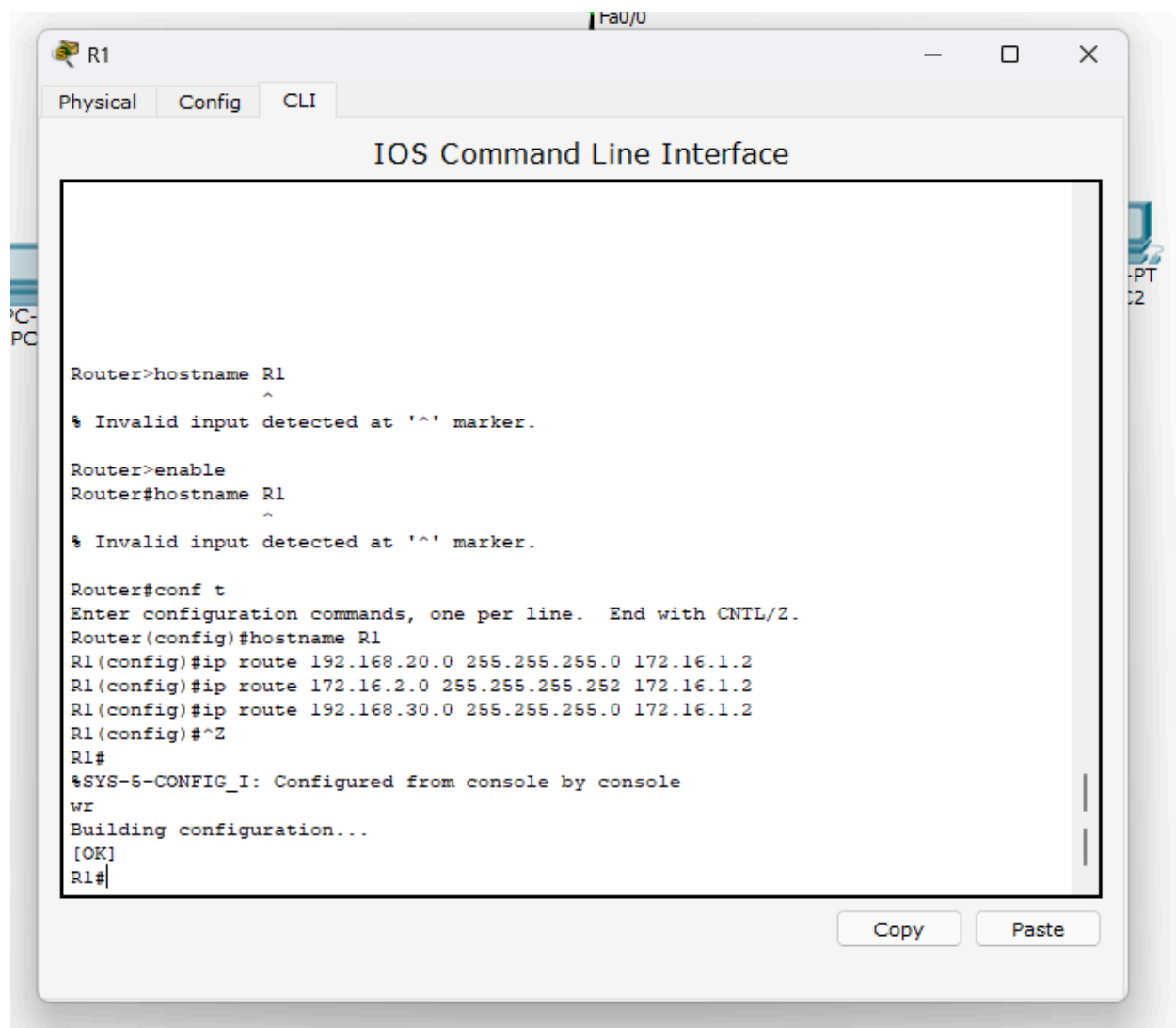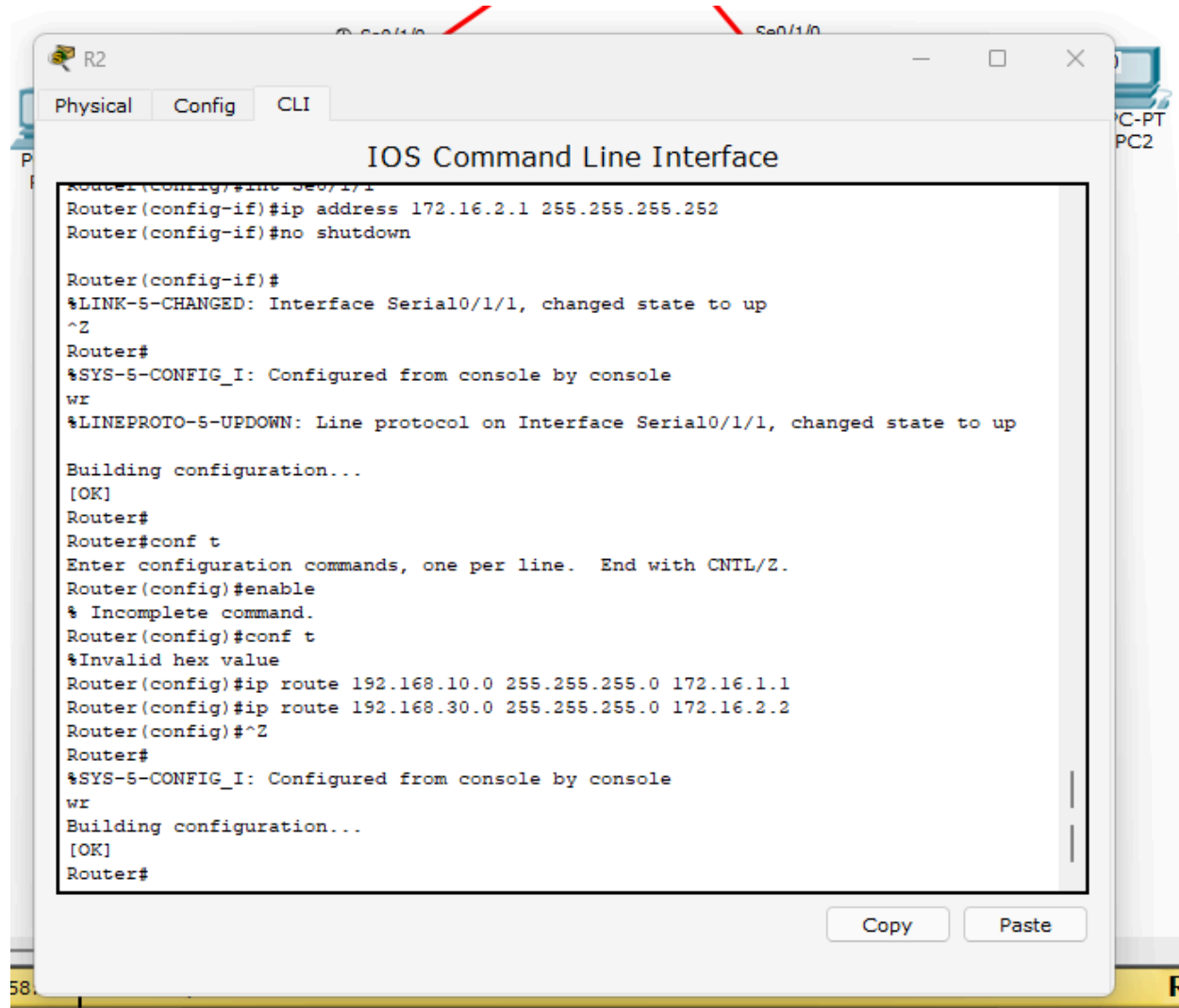
Copy   Paste

```
Packet Tracer PC Command Line 1.0
PC>ping 192.168.10.1

Pinging 192.168.10.1 with 32 bytes of data:

Reply from 192.168.10.1: bytes=32 time=0ms TTL=255
Reply from 192.168.10.1: bytes=32 time=0ms TTL=255
Reply from 192.168.10.1: bytes=32 time=0ms TTL=255
Reply from 192.168.10.1: bytes=32 time=0ms TTL=255

Ping statistics for 192.168.10.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

PC>ping 192.168.20.1

Pinging 192.168.20.1 with 32 bytes of data:

Reply from 192.168.20.1: bytes=32 time=5ms TTL=254
Reply from 192.168.20.1: bytes=32 time=3ms TTL=254
Reply from 192.168.20.1: bytes=32 time=4ms TTL=254
Reply from 192.168.20.1: bytes=32 time=4ms TTL=254

Ping statistics for 192.168.20.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 3ms, Maximum = 5ms, Average = 4ms

PC>ping 192.168.30.1

Pinging 192.168.30.1 with 32 bytes of data:

Reply from 192.168.30.1: bytes=32 time=11ms TTL=253
Reply from 192.168.30.1: bytes=32 time=10ms TTL=253
Reply from 192.168.30.1: bytes=32 time=10ms TTL=253
Reply from 192.168.30.1: bytes=32 time=2ms TTL=253

Ping statistics for 192.168.30.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 11ms, Average = 8ms

PC>
```
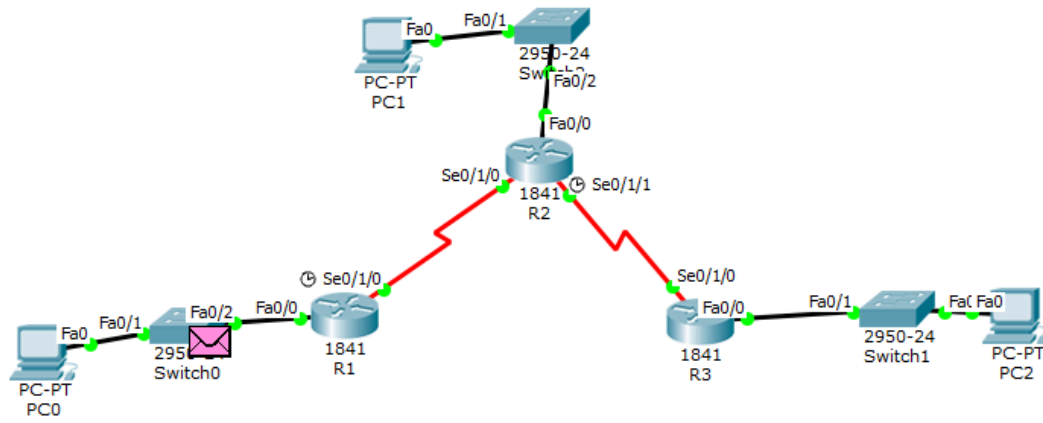
	Successful	PC0	PC1
	Successful	PC0	PC1
	Successful	PC2	PC1