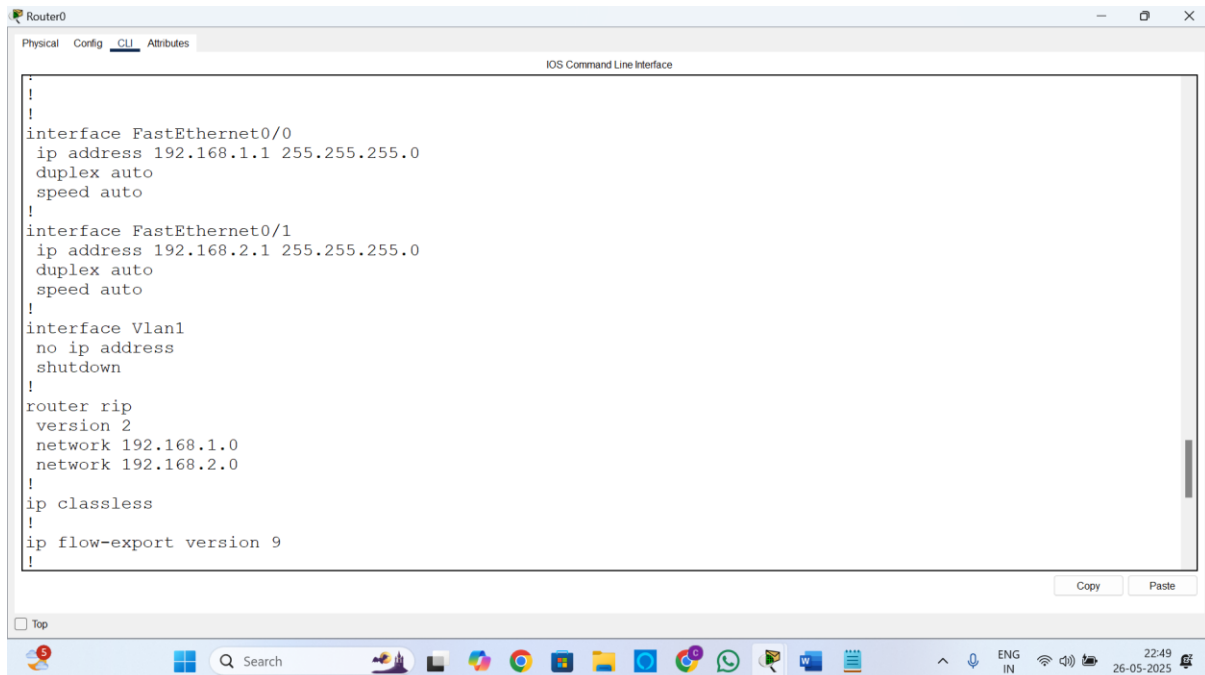


Lab 3: RIPv2 routing:

Show run for router 0:

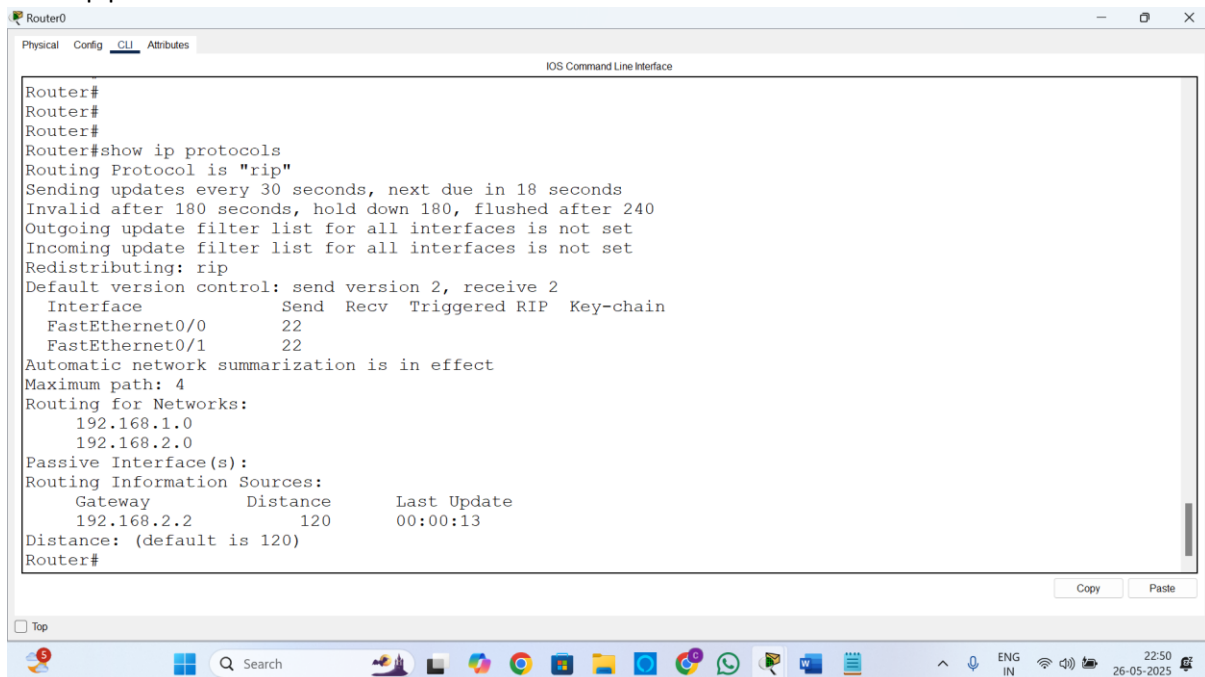


The screenshot shows the Router0 CLI interface with the following configuration:

```
!
!
interface FastEthernet0/0
 ip address 192.168.1.1 255.255.255.0
 duplex auto
 speed auto
!
interface FastEthernet0/1
 ip address 192.168.2.1 255.255.255.0
 duplex auto
 speed auto
!
interface Vlan1
 no ip address
 shutdown
!
router rip
 version 2
 network 192.168.1.0
 network 192.168.2.0
!
ip classless
!
ip flow-export version 9
!
```

The interface includes tabs for Physical, Config, CLI, and Attributes. The CLI tab is active, showing the IOS Command Line Interface. The bottom of the window shows a Windows taskbar with various application icons and system status information (22:49, 26-05-2025).

Show ip protocol:



The screenshot shows the Router0 CLI interface with the output of the 'show ip protocols' command:

```
Router#
Router#
Router#
Router#show ip protocols
Routing Protocol is "rip"
Sending updates every 30 seconds, next due in 18 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
FastEthernet0/1      22
Automatic network summarization is in effect
Maximum path: 4
Routing for Networks:
  192.168.1.0
  192.168.2.0
Passive Interface(s):
Routing Information Sources:
  Gateway         Distance      Last Update
  192.168.2.2      120           00:00:13
Distance: (default is 120)
Router#
```

The interface includes tabs for Physical, Config, CLI, and Attributes. The CLI tab is active, showing the IOS Command Line Interface. The bottom of the window shows a Windows taskbar with various application icons and system status information (22:50, 26-05-2025).

Show ip rip database:

```
Router#show ip rip database
192.168.1.0/24    auto-summary
192.168.1.0/24    directly connected, FastEthernet0/0
192.168.2.0/24    auto-summary
192.168.2.0/24    directly connected, FastEthernet0/1
192.168.3.0/24    auto-summary
192.168.3.0/24
    [1] via 192.168.2.2, 00:00:06, FastEthernet0/1
192.168.4.0/24    auto-summary
192.168.4.0/24
    [2] via 192.168.2.2, 00:00:06, FastEthernet0/1
Router#
```

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Ping output:

```
Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping 192.168.4.3

Pinging 192.168.4.3 with 32 bytes of data:

Reply from 192.168.4.3: bytes=32 time<1ms TTL=125
Reply from 192.168.4.3: bytes=32 time<1ms TTL=125
Reply from 192.168.4.3: bytes=32 time<1ms TTL=125
Reply from 192.168.4.3: bytes=32 time<1ms TTL=125

Ping statistics for 192.168.4.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

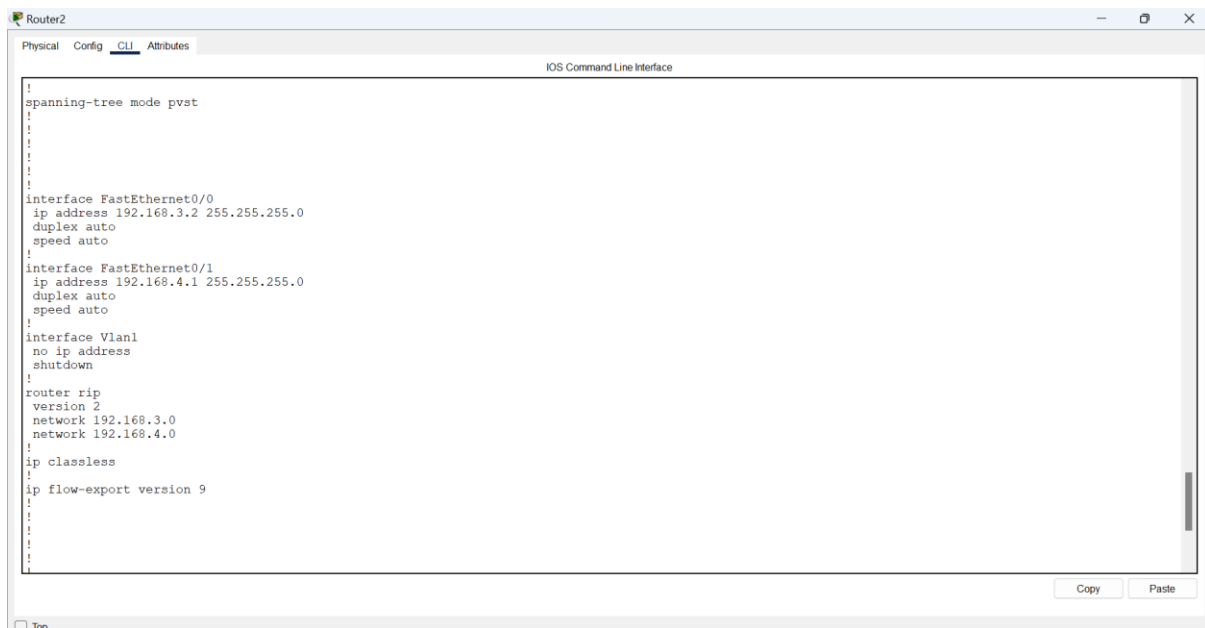
C:\>
```

Show run for router 1:

```
spanning-tree mode pvst
!
!
!
!
!
!
interface FastEthernet0/0
 ip address 192.168.2.2 255.255.255.0
 duplex auto
 speed auto
!
interface FastEthernet0/1
 ip address 192.168.3.1 255.255.255.0
 duplex auto
 speed auto
!
interface Vlan1
 no ip address
 shutdown
!
router rip
 version 2
 network 192.168.2.0
 network 192.168.3.0
!
ip classless
!
ip flow-export version 9
!
!
!
```

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Show run for router 2:



RIPv2 timers:

```
% unrecognized command
Router(config-router)#timers basic 10 ?
<1-4294967295> Invalid
Router(config-router)#timers basic 10 60 ?
<0-4294967295> Holddown
Router(config-router)#timers basic 10 60 60 ?
<1-4294967295> Flush
Router(config-router)#timers basic 10 60 60 80
Router(config-router)#
```

Timers output:

Physical Config GUI Advanced

IOS Command Line Interface

```
!
!
!
!
!
interface FastEthernet0/0
 ip address 192.168.1.1 255.255.255.0
 duplex auto
 speed auto
!
interface FastEthernet0/1
 ip address 192.168.2.1 255.255.255.0
 duplex auto
 speed auto
!
interface Vlan1
 no ip address
 shutdown
!
router rip
 version 2
 timers basic 10 60 60 80
 network 192.168.1.0
 network 192.168.2.0
!
ip classless
!
ip flow-export version 9
!
!
!
!
```