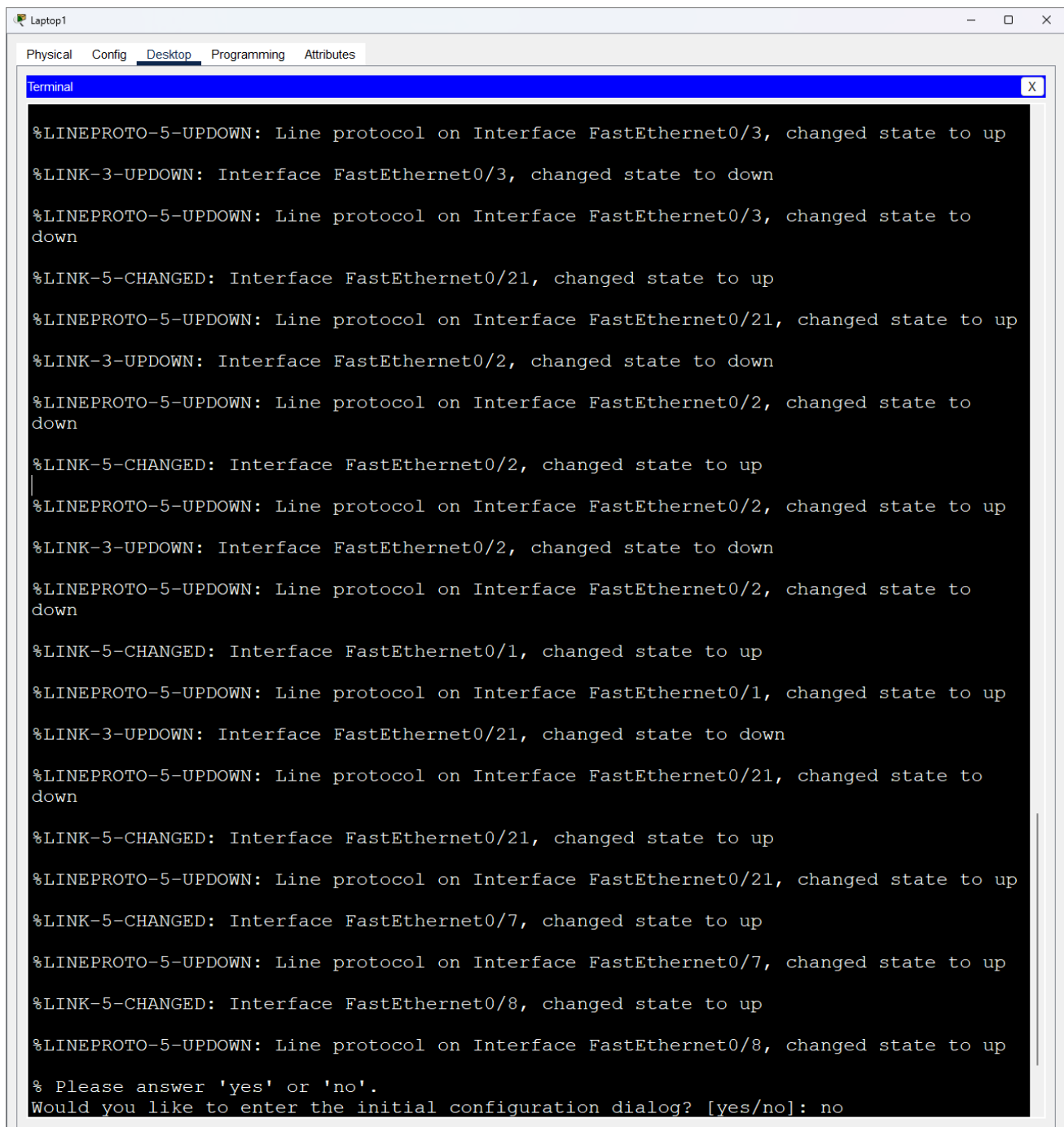
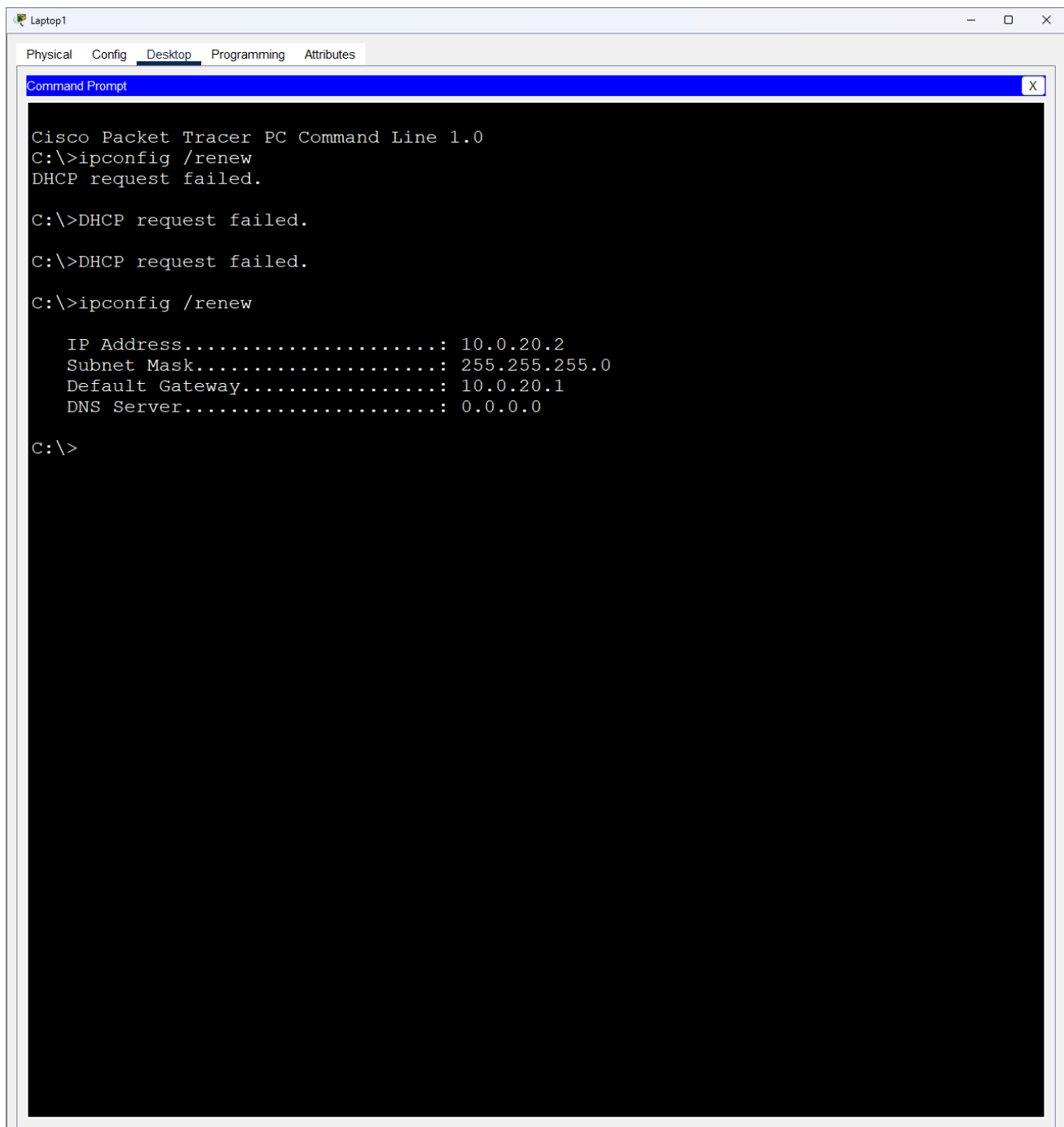


Cisco Packet Tracer - C__Users_mark_Cisco Packet Tracer 8.2.2_saves_lab5.pkt 5_27_2025 1_00_31 PM.png



Cisco Router and LAN Configuration Lab - NotebookLM — Mozilla Firefox 5_27_2025 1_06_03 PM.png



The screenshot shows a 'Command Prompt' window within the Cisco Packet Tracer environment. The window title is 'Command Prompt' with a close button. The interface includes tabs for 'Physical', 'Config', 'Desktop', 'Programming', and 'Attributes', with 'Desktop' currently selected. The command prompt displays the following text:

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ipconfig /renew
DHCP request failed.

C:\>DHCP request failed.

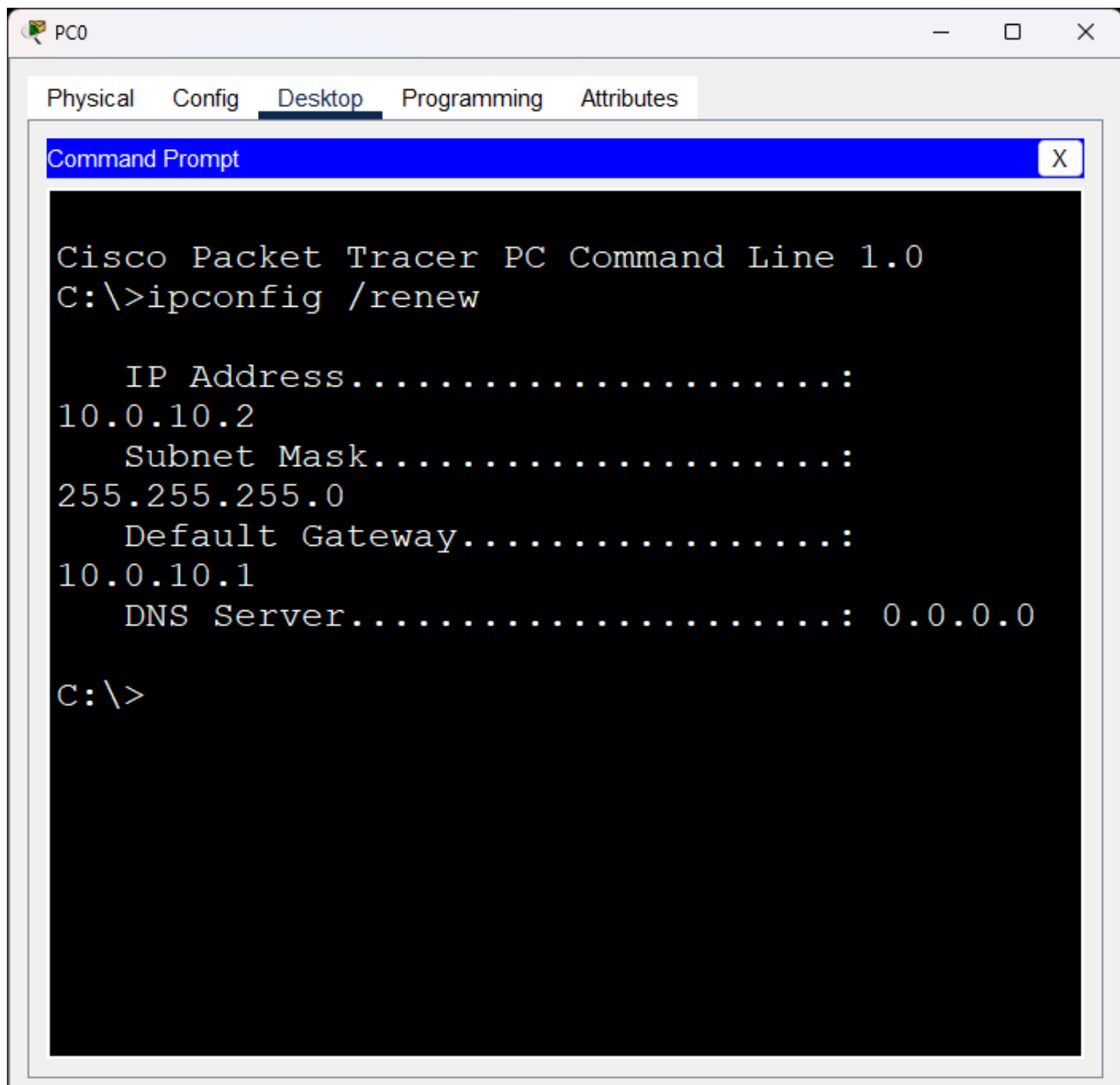
C:\>DHCP request failed.

C:\>ipconfig /renew

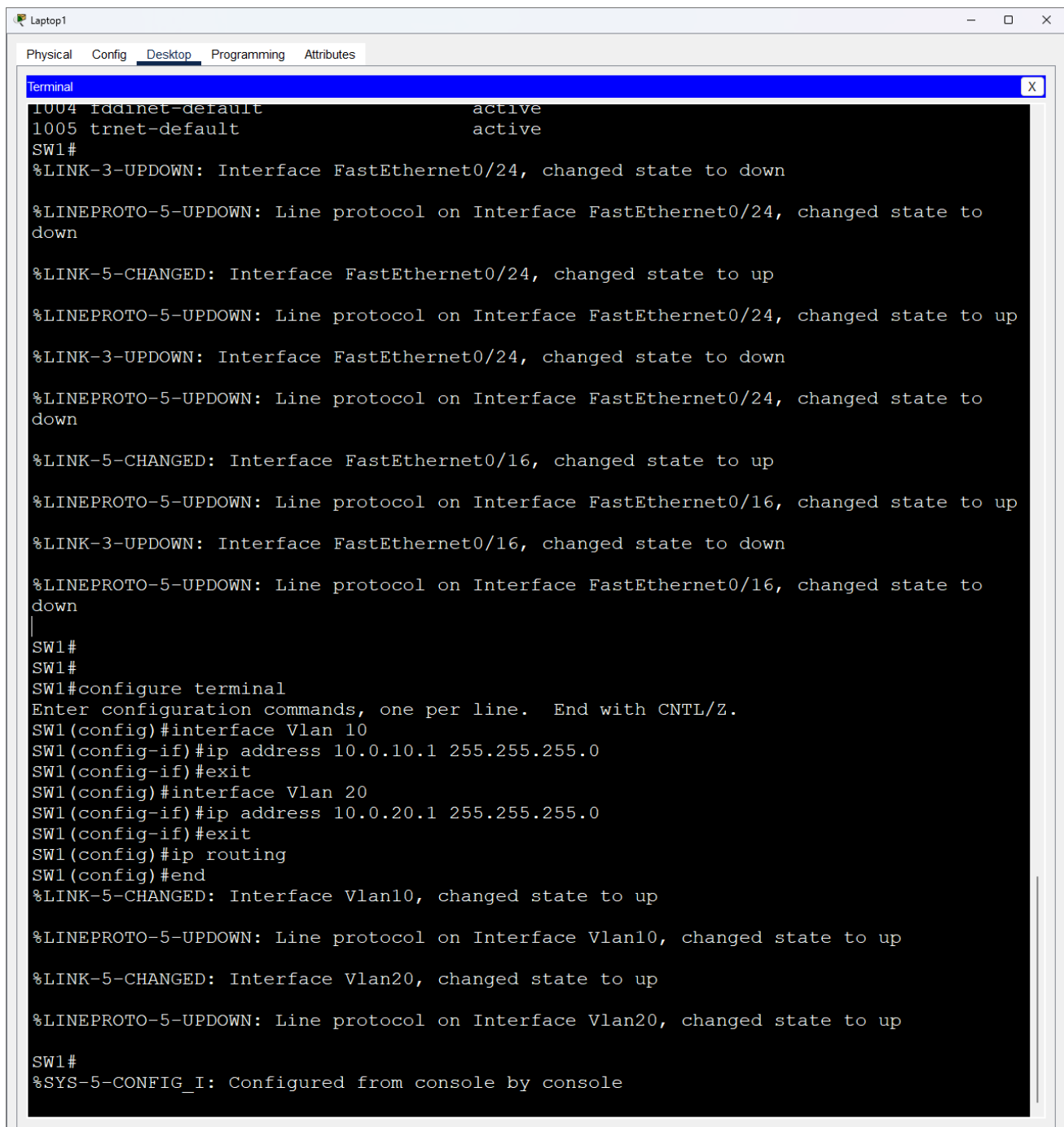
    IP Address.....: 10.0.20.2
    Subnet Mask.....: 255.255.255.0
    Default Gateway...: 10.0.20.1
    DNS Server.....: 0.0.0.0

C:\>
```

Cisco Router and LAN Configuration Lab - NotebookLM — Mozilla Firefox 5_27_2025 1_06_55 PM.png



Cisco Router and LAN Configuration Lab - NotebookLM — Mozilla Firefox 5_27_2025 1_12_49 PM.png



```
Laptop1
Physical Config Desktop Programming Attributes
Terminal
1004 rddinet-default      active
1005 trnet-default        active
SW1#
%LINK-3-UPDOWN: Interface FastEthernet0/24, changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/24, changed state to
down

%LINK-5-CHANGED: Interface FastEthernet0/24, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/24, changed state to up

%LINK-3-UPDOWN: Interface FastEthernet0/24, changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/24, changed state to
down

%LINK-5-CHANGED: Interface FastEthernet0/16, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/16, changed state to up

%LINK-3-UPDOWN: Interface FastEthernet0/16, changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/16, changed state to
down
|
SW1#
SW1#
SW1#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
SW1(config)#interface Vlan 10
SW1(config-if)#ip address 10.0.10.1 255.255.255.0
SW1(config-if)#exit
SW1(config)#interface Vlan 20
SW1(config-if)#ip address 10.0.20.1 255.255.255.0
SW1(config-if)#exit
SW1(config)#ip routing
SW1(config)#end
%LINK-5-CHANGED: Interface Vlan10, changed state to up

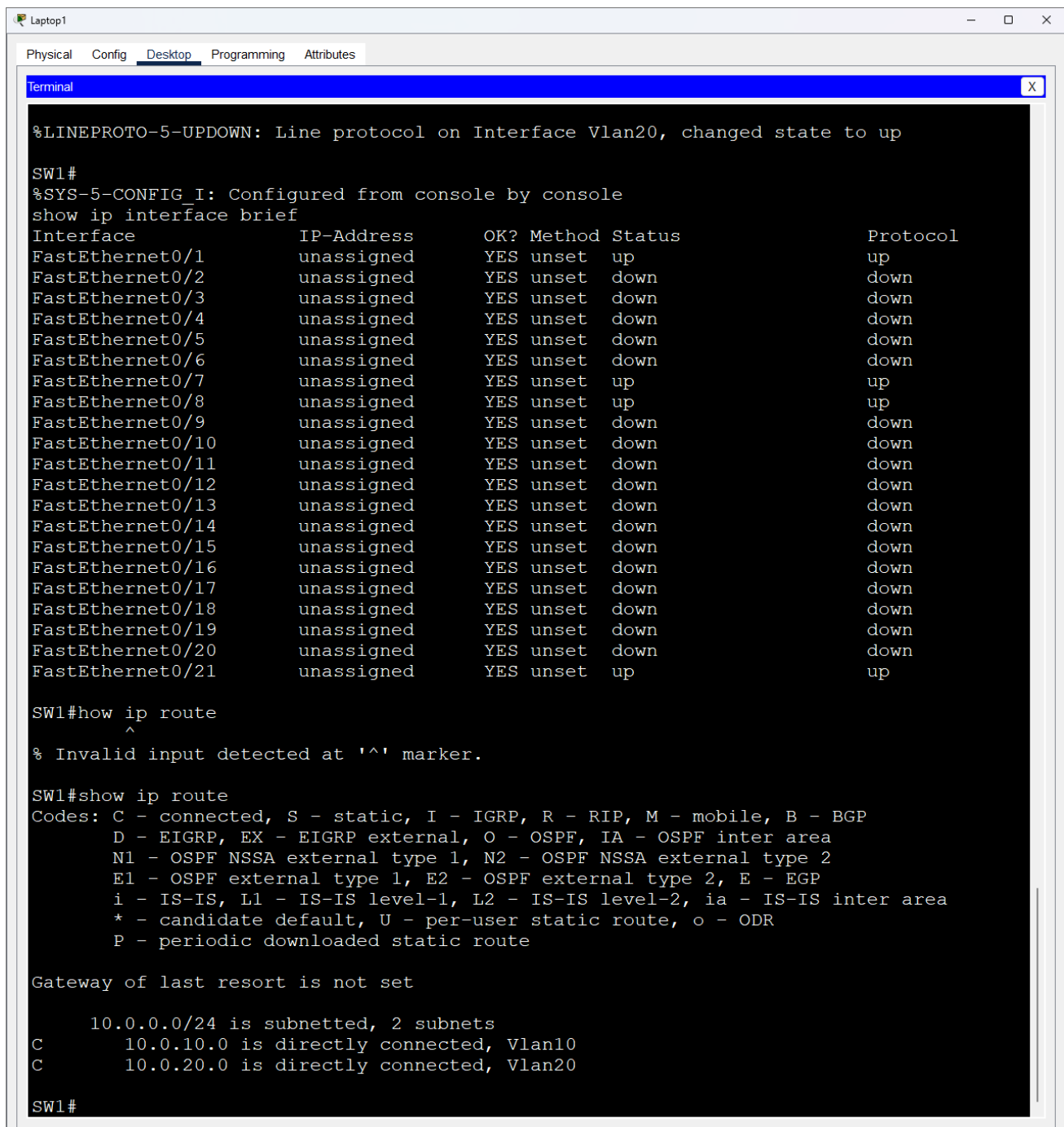
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan10, changed state to up

%LINK-5-CHANGED: Interface Vlan20, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan20, changed state to up

SW1#
%SYS-5-CONFIG_I: Configured from console by console
```

Cisco Router and LAN Configuration Lab - NotebookLM — Mozilla Firefox 5_27_2025 1_14_48 PM.png



The screenshot shows a terminal window titled "Laptop1" with tabs for Physical, Config, Desktop, Programming, and Attributes. The Desktop tab is active, displaying a terminal window with the following text:

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan20, changed state to up

SW1#
%SYS-5-CONFIG_I: Configured from console by console
show ip interface brief
Interface                IP-Address      OK? Method Status      Protocol
FastEthernet0/1          unassigned      YES unset  up          up
FastEthernet0/2          unassigned      YES unset  down        down
FastEthernet0/3          unassigned      YES unset  down        down
FastEthernet0/4          unassigned      YES unset  down        down
FastEthernet0/5          unassigned      YES unset  down        down
FastEthernet0/6          unassigned      YES unset  down        down
FastEthernet0/7          unassigned      YES unset  up          up
FastEthernet0/8          unassigned      YES unset  up          up
FastEthernet0/9          unassigned      YES unset  down        down
FastEthernet0/10         unassigned      YES unset  down        down
FastEthernet0/11         unassigned      YES unset  down        down
FastEthernet0/12         unassigned      YES unset  down        down
FastEthernet0/13         unassigned      YES unset  down        down
FastEthernet0/14         unassigned      YES unset  down        down
FastEthernet0/15         unassigned      YES unset  down        down
FastEthernet0/16         unassigned      YES unset  down        down
FastEthernet0/17         unassigned      YES unset  down        down
FastEthernet0/18         unassigned      YES unset  down        down
FastEthernet0/19         unassigned      YES unset  down        down
FastEthernet0/20         unassigned      YES unset  down        down
FastEthernet0/21         unassigned      YES unset  up          up

SW1#how ip route
^
% Invalid input detected at '^' marker.

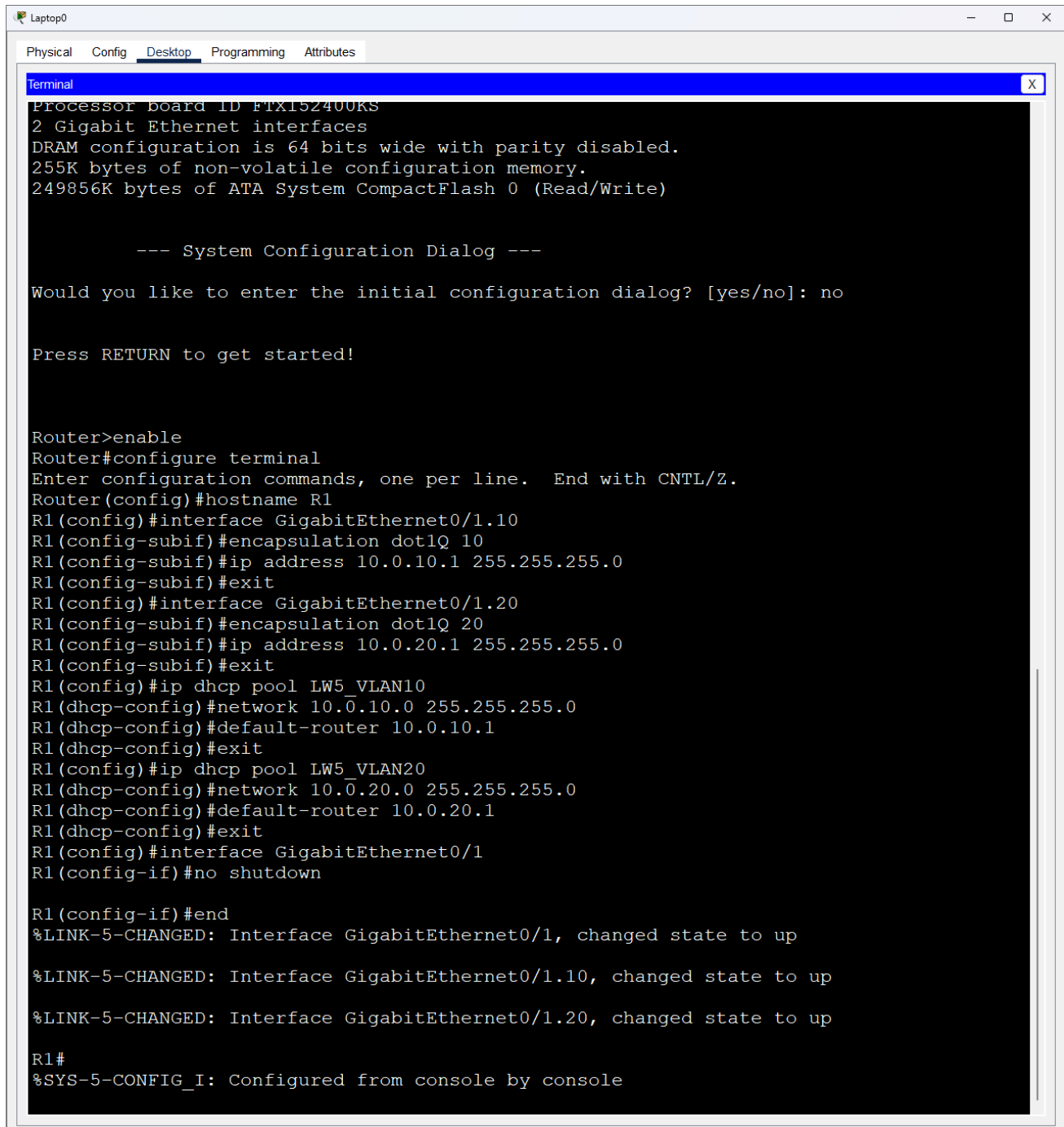
SW1#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       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

    10.0.0.0/24 is subnetted, 2 subnets
C       10.0.10.0 is directly connected, Vlan10
C       10.0.20.0 is directly connected, Vlan20

SW1#
```

Laptop0 5_27_2025 12_59_35 PM.png



```
Processor board ID FTX152400KS
2 Gigabit Ethernet interfaces
DRAM configuration is 64 bits wide with parity disabled.
255K 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]: no

Press RETURN to get started!

Router>enable
Router#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#hostname R1
R1(config)#interface GigabitEthernet0/1.10
R1(config-subif)#encapsulation dot1Q 10
R1(config-subif)#ip address 10.0.10.1 255.255.255.0
R1(config-subif)#exit
R1(config)#interface GigabitEthernet0/1.20
R1(config-subif)#encapsulation dot1Q 20
R1(config-subif)#ip address 10.0.20.1 255.255.255.0
R1(config-subif)#exit
R1(config)#ip dhcp pool LW5_VLAN10
R1(dhcp-config)#network 10.0.10.0 255.255.255.0
R1(dhcp-config)#default-router 10.0.10.1
R1(dhcp-config)#exit
R1(config)#ip dhcp pool LW5_VLAN20
R1(dhcp-config)#network 10.0.20.0 255.255.255.0
R1(dhcp-config)#default-router 10.0.20.1
R1(dhcp-config)#exit
R1(config)#interface GigabitEthernet0/1
R1(config-if)#no shutdown

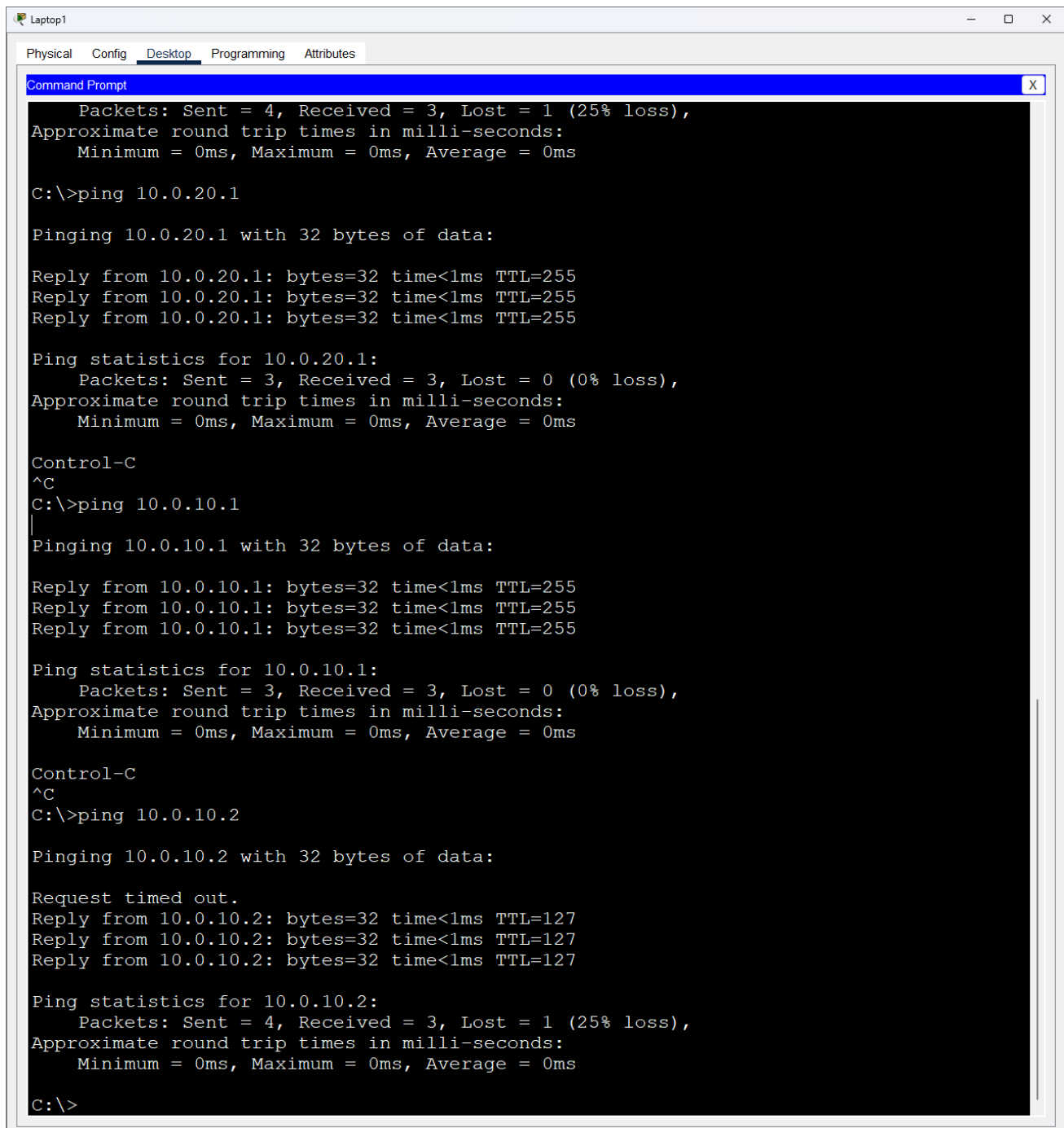
R1(config-if)#end
%LINK-5-CHANGED: Interface GigabitEthernet0/1, changed state to up

%LINK-5-CHANGED: Interface GigabitEthernet0/1.10, changed state to up

%LINK-5-CHANGED: Interface GigabitEthernet0/1.20, changed state to up

R1#
%SYS-5-CONFIG_I: Configured from console by console
```

Laptop1 5_27_2025 1_13_30 PM.png



```
Laptop1
Physical Config Desktop Programming Attributes
Command Prompt
Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 10.0.20.1

Pinging 10.0.20.1 with 32 bytes of data:

Reply from 10.0.20.1: bytes=32 time<1ms TTL=255
Reply from 10.0.20.1: bytes=32 time<1ms TTL=255
Reply from 10.0.20.1: bytes=32 time<1ms TTL=255

Ping statistics for 10.0.20.1:
    Packets: Sent = 3, Received = 3, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

Control-C
^C
C:\>ping 10.0.10.1

Pinging 10.0.10.1 with 32 bytes of data:

Reply from 10.0.10.1: bytes=32 time<1ms TTL=255
Reply from 10.0.10.1: bytes=32 time<1ms TTL=255
Reply from 10.0.10.1: bytes=32 time<1ms TTL=255

Ping statistics for 10.0.10.1:
    Packets: Sent = 3, Received = 3, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

Control-C
^C
C:\>ping 10.0.10.2

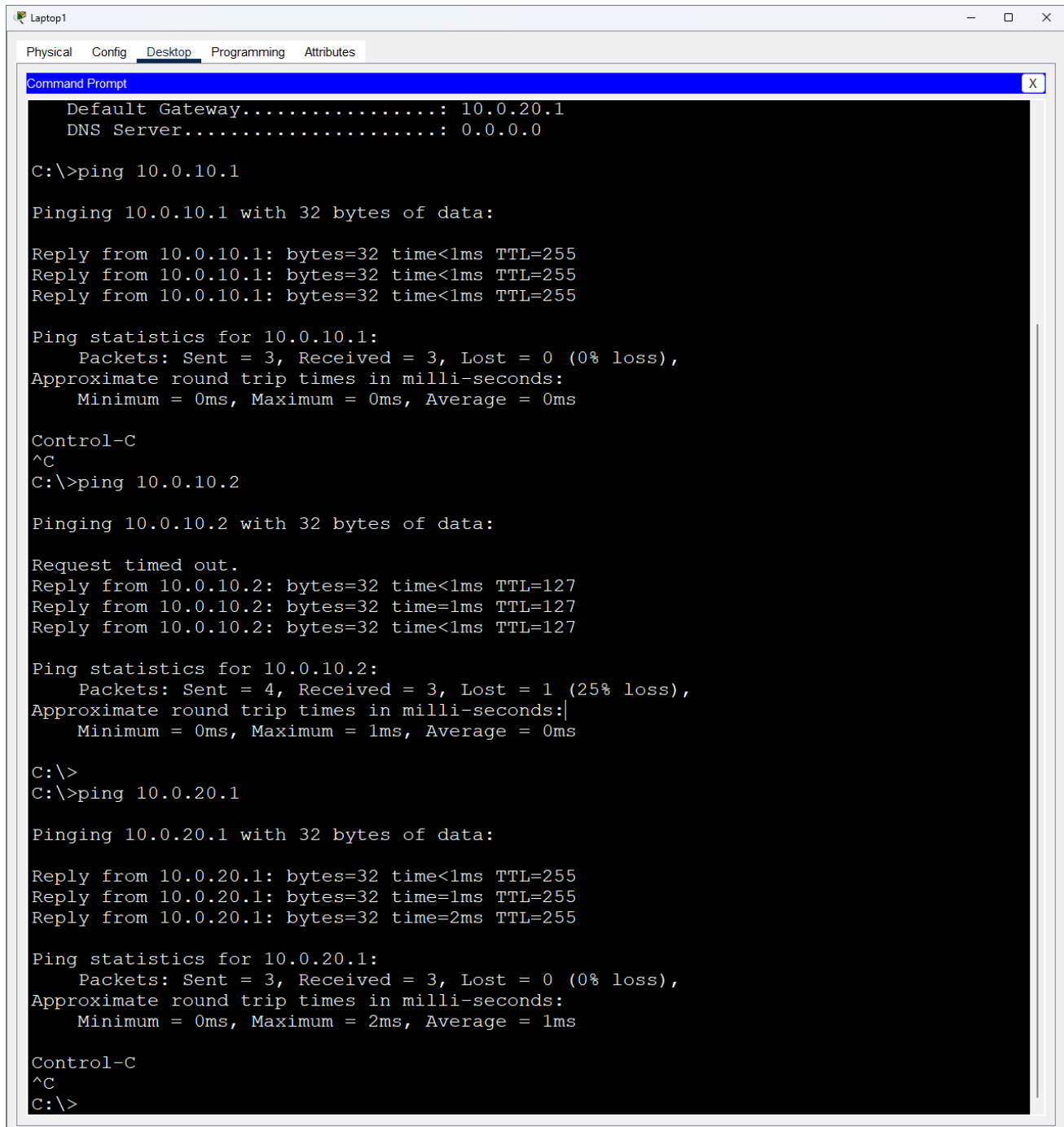
Pinging 10.0.10.2 with 32 bytes of data:

Request timed out.
Reply from 10.0.10.2: bytes=32 time<1ms TTL=127
Reply from 10.0.10.2: bytes=32 time<1ms TTL=127
Reply from 10.0.10.2: bytes=32 time<1ms TTL=127

Ping statistics for 10.0.10.2:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

PC0 5_27_2025 1_08_19 PM.png



The screenshot shows a Windows Command Prompt window titled "Laptop1". The window has tabs for "Physical", "Config", "Desktop", "Programming", and "Attributes", with "Desktop" selected. The Command Prompt displays the following text:

```
Default Gateway.....: 10.0.20.1
DNS Server.....: 0.0.0.0

C:\>ping 10.0.10.1

Pinging 10.0.10.1 with 32 bytes of data:

Reply from 10.0.10.1: bytes=32 time<1ms TTL=255
Reply from 10.0.10.1: bytes=32 time<1ms TTL=255
Reply from 10.0.10.1: bytes=32 time<1ms TTL=255

Ping statistics for 10.0.10.1:
    Packets: Sent = 3, Received = 3, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

Control-C
^C
C:\>ping 10.0.10.2

Pinging 10.0.10.2 with 32 bytes of data:

Request timed out.
Reply from 10.0.10.2: bytes=32 time<1ms TTL=127
Reply from 10.0.10.2: bytes=32 time=1ms TTL=127
Reply from 10.0.10.2: bytes=32 time<1ms TTL=127

Ping statistics for 10.0.10.2:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
C:\>ping 10.0.20.1

Pinging 10.0.20.1 with 32 bytes of data:

Reply from 10.0.20.1: bytes=32 time<1ms TTL=255
Reply from 10.0.20.1: bytes=32 time=1ms TTL=255
Reply from 10.0.20.1: bytes=32 time=2ms TTL=255

Ping statistics for 10.0.20.1:
    Packets: Sent = 3, Received = 3, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 2ms, Average = 1ms

Control-C
^C
C:\>
```