

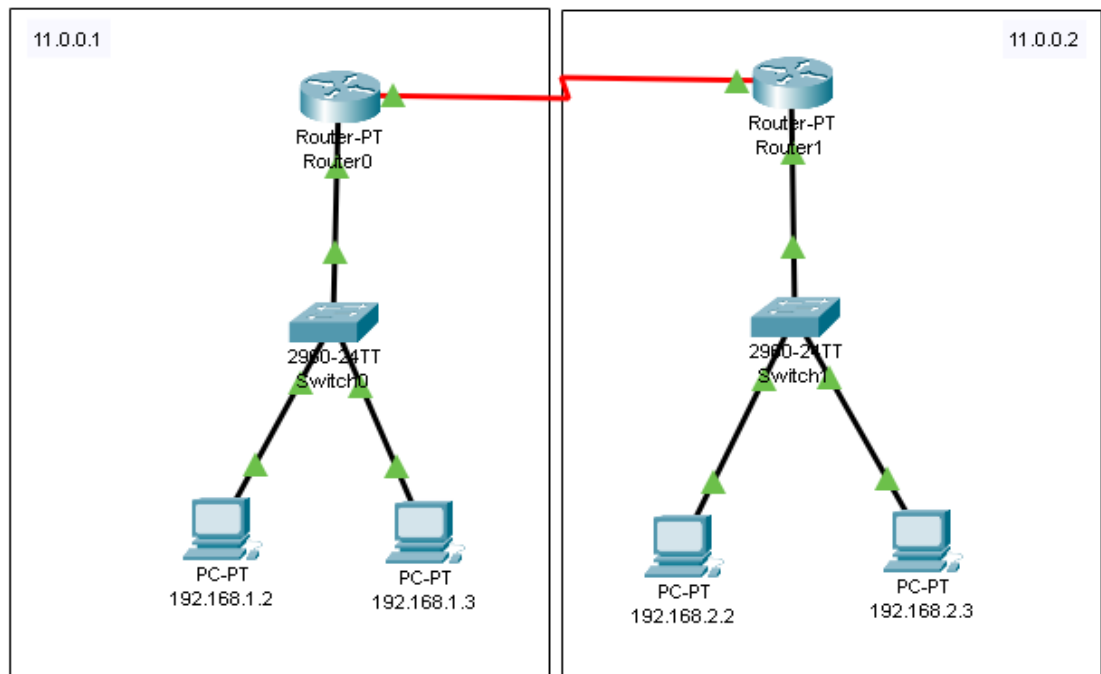
Date: 19/09/2024

Lab Practical #11:

Study the concept of routing using packet tracer. (Dynamic Routing)

Practical Assignment #11:

1. Connect the two different networks based on the calculated IP addresses and subnet using a packet tracer.

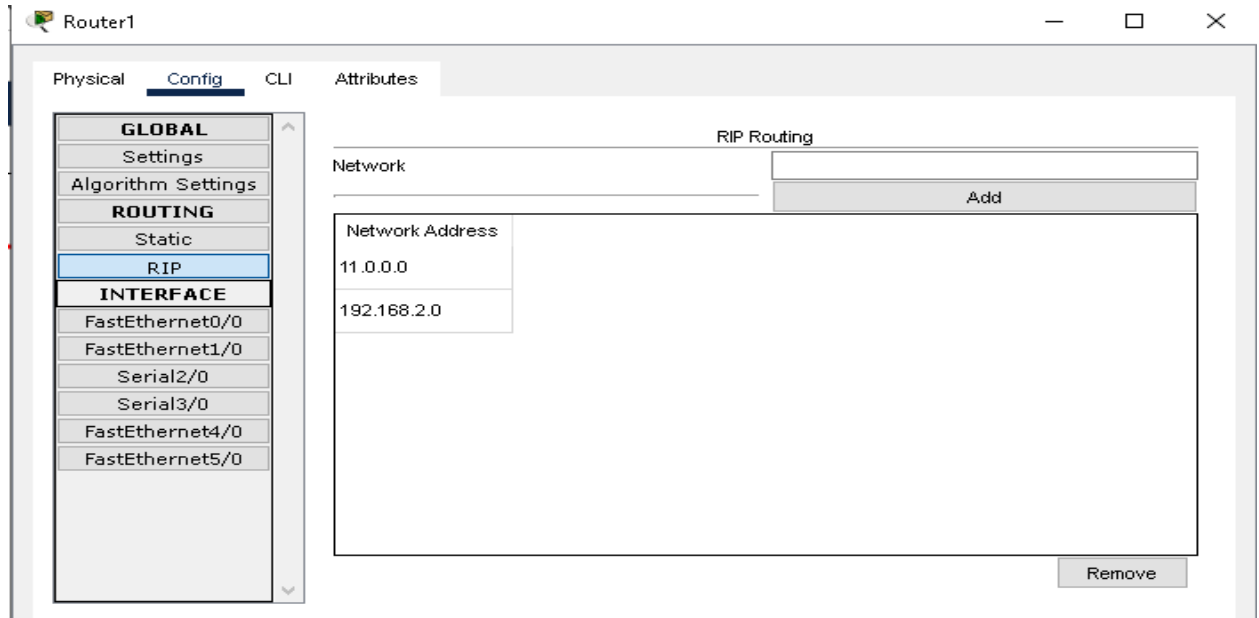


• Router0 :



Date: 19/09/2024

• **Router1 :**



Router1

Physical Config CLI Attributes

GLOBAL

- Settings
- Algorithm Settings
- ROUTING**
 - Static
 - RIP**
- INTERFACE**
 - FastEthernet0/0
 - FastEthernet1/0
 - Serial2/0
 - Serial3/0
 - FastEthernet4/0
 - FastEthernet5/0

RIP Routing

Network

Network Address

11.0.0.0

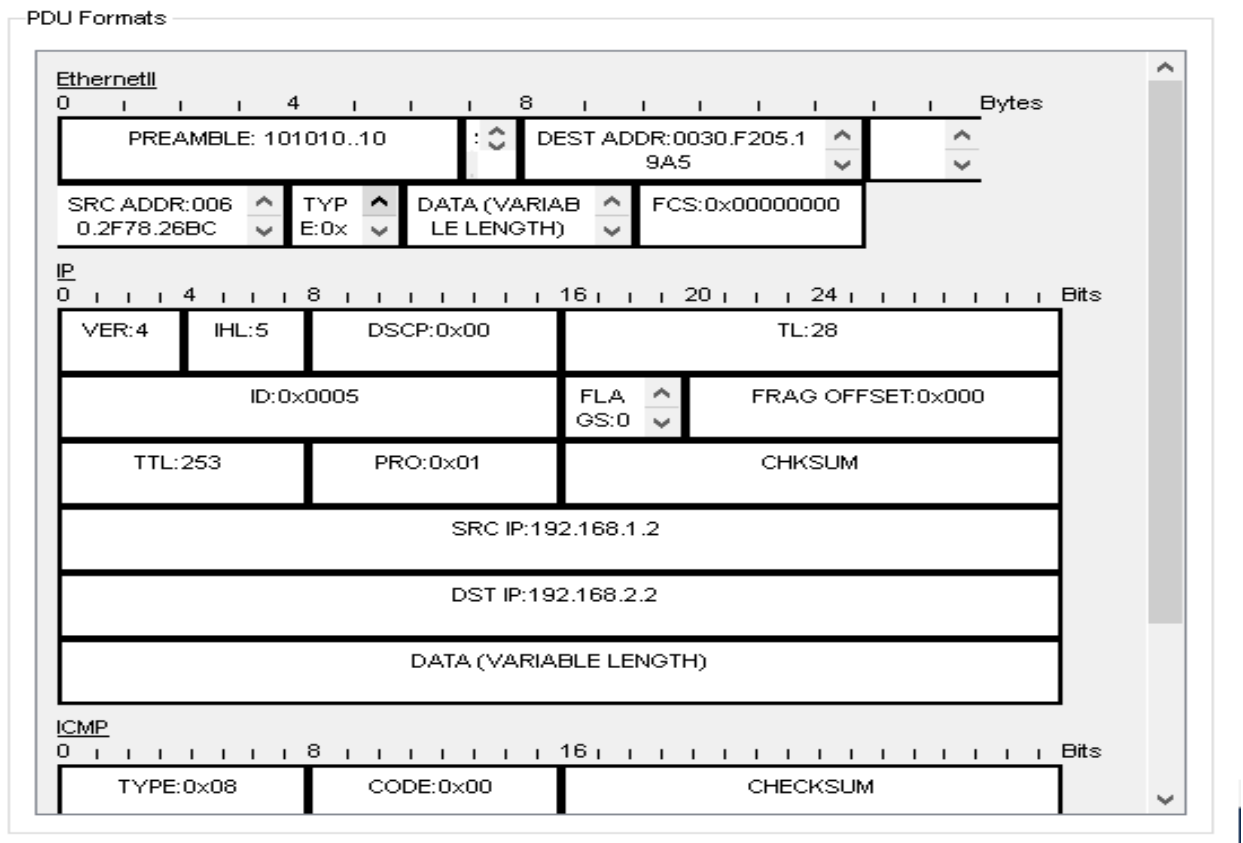
192.168.2.0

Add

Remove

PDU Information at Device: 192.168.2.2

OSI Model Inbound PDU Details Outbound PDU Details



PDU Formats

EthernetII

0 4 8 Bytes

PREAMBLE: 101010..10

DEST ADDR: 0030.F205.1 9A5

SRC ADDR: 006 0.2F78.26BC

TYP E: 0x

DATA (VARIABLE LENGTH)

FCS: 0x00000000

IP

0 4 8 16 20 24 Bits

VER: 4 IHL: 5 DSCP: 0x00 TL: 28

ID: 0x0005 FLA GS: 0 FRAG OFFSET: 0x000

TTL: 253 PRO: 0x01 CHKSUM

SRC IP: 192.168.1.2

DST IP: 192.168.2.2

DATA (VARIABLE LENGTH)

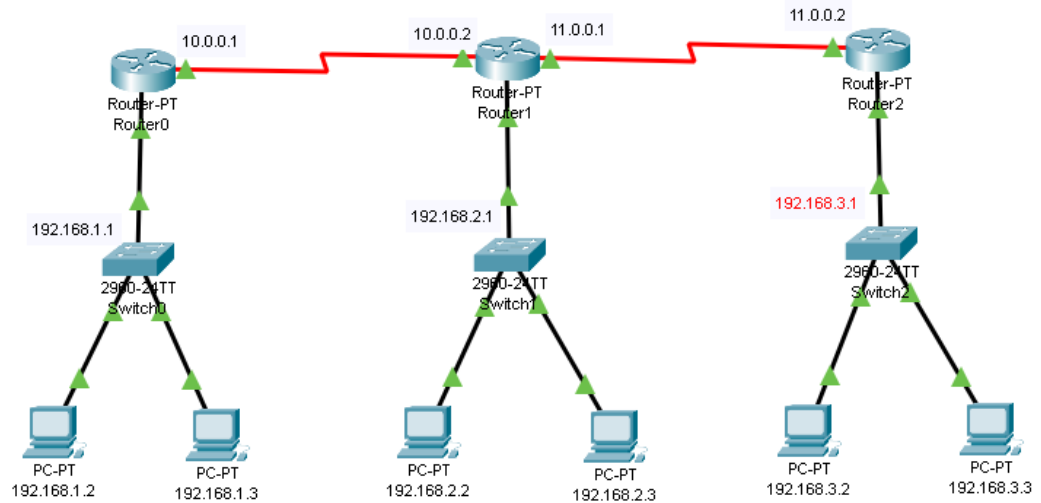
ICMP

0 8 16 Bits

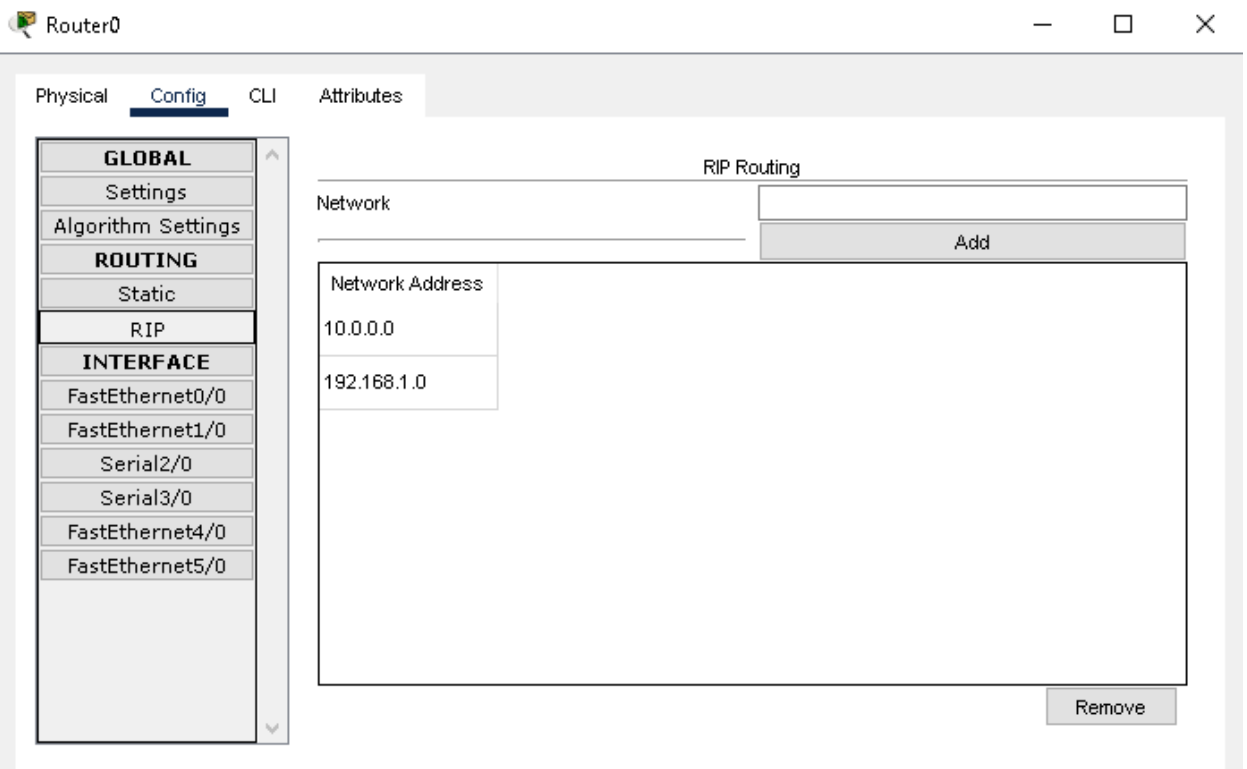
TYPE: 0x08 CODE: 0x00 CHECKSUM

Date: 19/09/2024

2. Connect the three different networks based on the calculated IP addresses and subnet using a packet tracer.



- **Router0 :**



Date: 19/09/2024

• **Router1 :**

Router1

Physical **Config** CLI Attributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

INTERFACE

FastEthernet0/0

FastEthernet1/0

Serial2/0

Serial3/0

FastEthernet4/0

FastEthernet5/0

RIP Routing

Network

Add

Network Address

10.0.0.0

11.0.0.0

192.168.2.0

Remove

• **Router2 :**

Router2

Physical **Config** CLI Attributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

INTERFACE

FastEthernet0/0

FastEthernet1/0

Serial2/0

Serial3/0

FastEthernet4/0

FastEthernet5/0

RIP Routing

Network

Add

Network Address

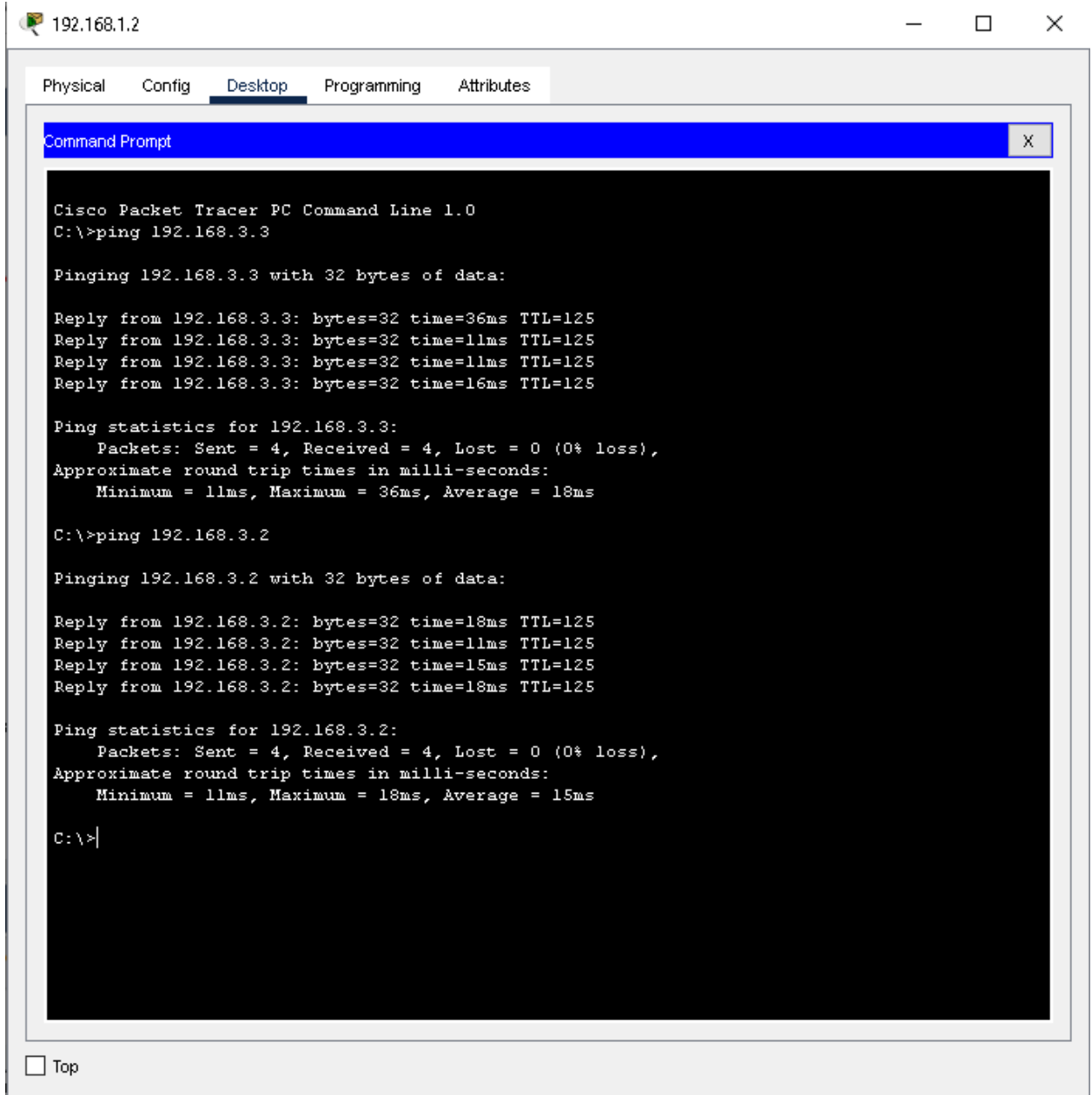
11.0.0.0

192.168.3.0

Remove

Date: 19/09/2024

- ping 192.168.3.3 :



The screenshot shows a Cisco Packet Tracer PC Command Line window for a device with IP 192.168.1.2. The window has tabs for Physical, Config, Desktop, Programming, and Attributes. The Desktop tab is active, displaying a Command Prompt window. The Command Prompt shows the following output:

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.3.3

Pinging 192.168.3.3 with 32 bytes of data:

Reply from 192.168.3.3: bytes=32 time=36ms TTL=125
Reply from 192.168.3.3: bytes=32 time=11ms TTL=125
Reply from 192.168.3.3: bytes=32 time=11ms TTL=125
Reply from 192.168.3.3: bytes=32 time=16ms TTL=125

Ping statistics for 192.168.3.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 11ms, Maximum = 36ms, Average = 18ms

C:\>ping 192.168.3.2

Pinging 192.168.3.2 with 32 bytes of data:

Reply from 192.168.3.2: bytes=32 time=18ms TTL=125
Reply from 192.168.3.2: bytes=32 time=11ms TTL=125
Reply from 192.168.3.2: bytes=32 time=15ms TTL=125
Reply from 192.168.3.2: bytes=32 time=18ms TTL=125

Ping statistics for 192.168.3.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 11ms, Maximum = 18ms, Average = 15ms

C:\>|
```

At the bottom of the Command Prompt window, there is a checkbox labeled "Top" which is currently unchecked.