

**PRAKTIKUM**  
**JARINGAN KOMPUTER**  
**MODUL 7**

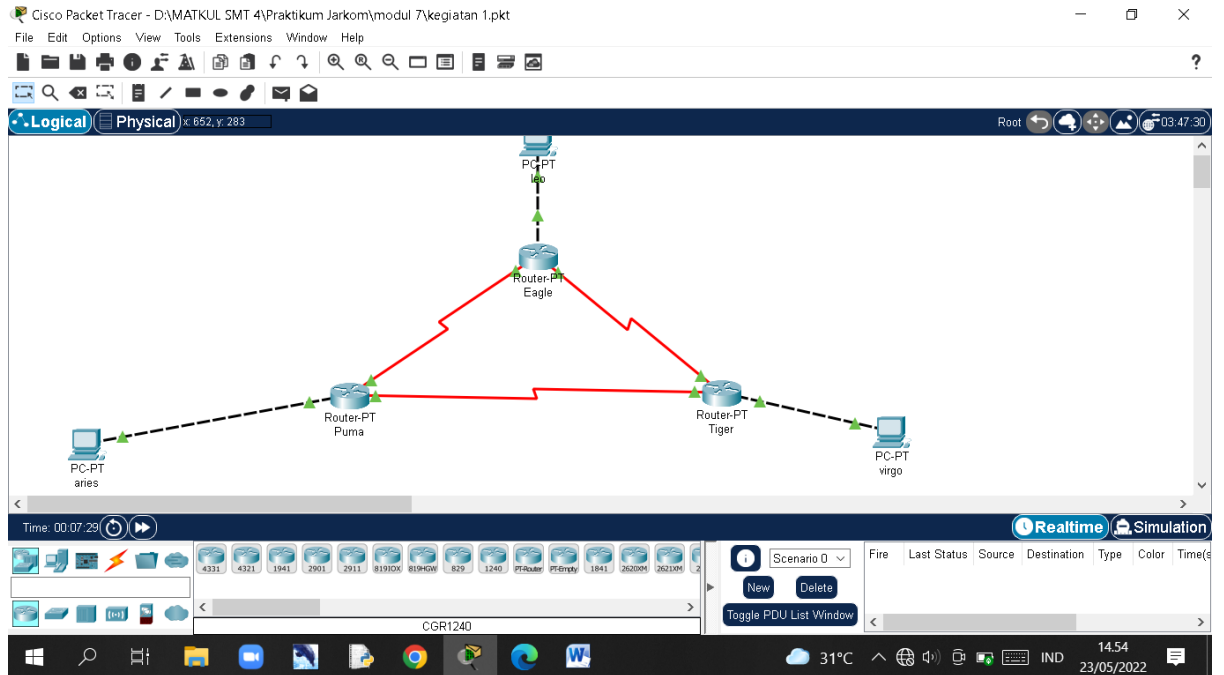


**Nama : NICKY JULYATRIKA SARI**

**NIM : L200200101**

**PROGRAM STUDI**  
**INFORMATIKA**  
**FAKULTAS KOMUNIKASI DAN INFORMATIKA**  
**UNIVERSITAS MUHAMMADIYAH SURAKARTA**  
**TAHUN 2021/2022**

- Kegiatan 2
  - a. Topologi



- b. Load konfigurasi seluruh device yang disimpan pada langkah 6 Kegiatan
- c. Pada mode configuration, konfigurasi routing RIP pada router eagle.
  - Langkah pengoperasian
    - Masuk mode configuration
    - Ketik router rip
    - Ketik network 172.21.0.0

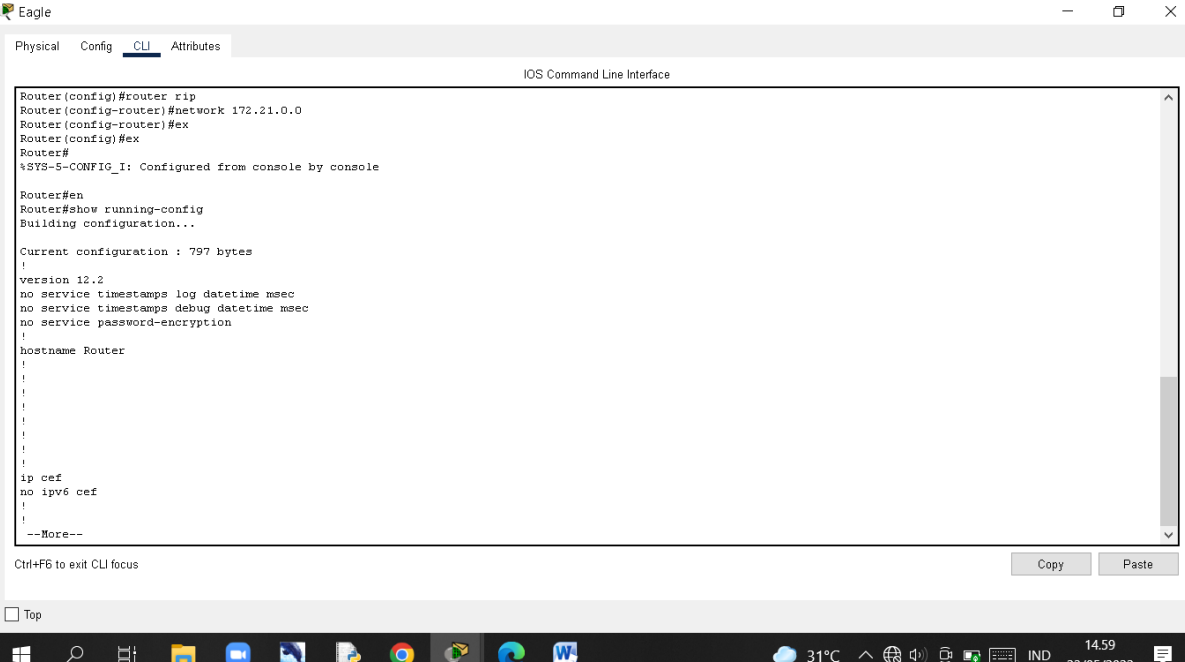
The screenshot shows the CLI window for Router-PT Eagle. The user has entered the following commands:

```

Router>en
Router#conf term
Router(config)#router rip
Router(config-router)#network 172.21.0.0
Router(config-router)#
  
```

The output of the configuration shows the status of the interfaces and the routing protocol. The status bar at the bottom indicates the time as 14:58 and the date as 23/05/2022.

- d. Lihat konfigurasi routing RIP yang telah dibuat dengan perintah “show running-config” pada mode user. Perhatikan konfigurasi pada bagian “router rip”



Eagle

Physical Config **CLI** Attributes

IOS Command Line Interface

```

Router(config)#router rip
Router(config-router)#network 172.21.0.0
Router(config-router)#ex
Router(config)#ex
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#en
Router#show running-config
Building configuration...

Current configuration : 797 bytes
!
version 12.2
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname Router
!
!
!
!
!
!
!
ip cef
no ipv6 cef
!
!
--More--

```

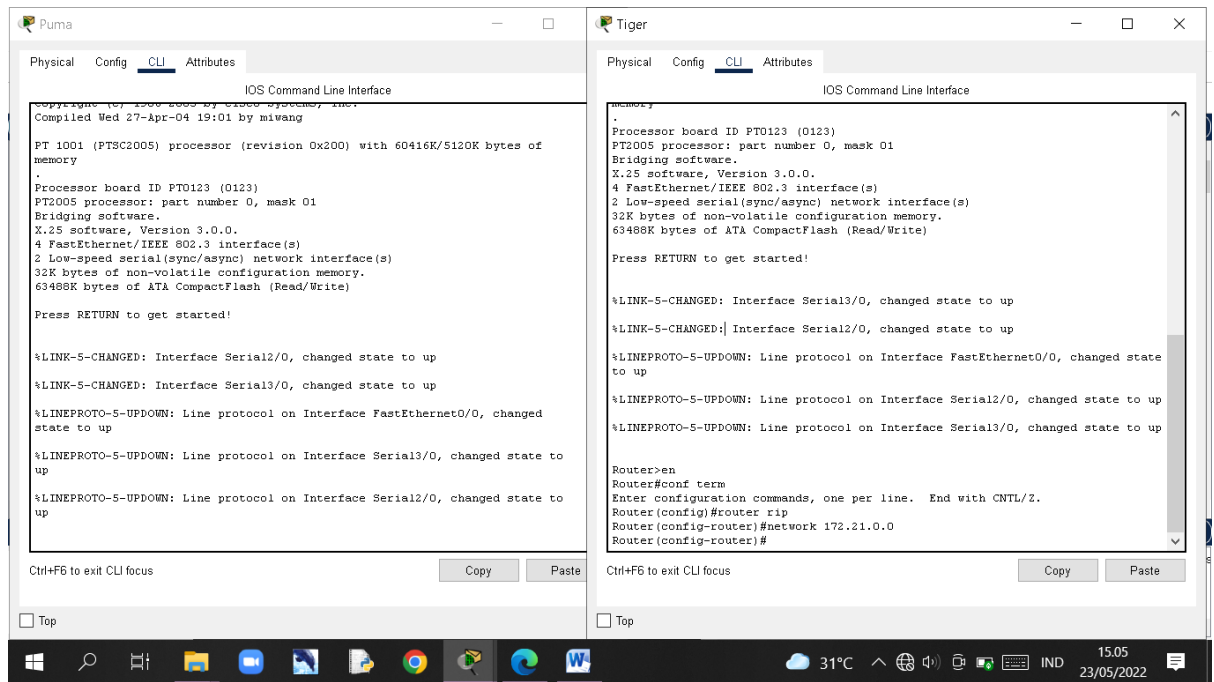
Ctrl+F6 to exit CLI focus

Copy Paste

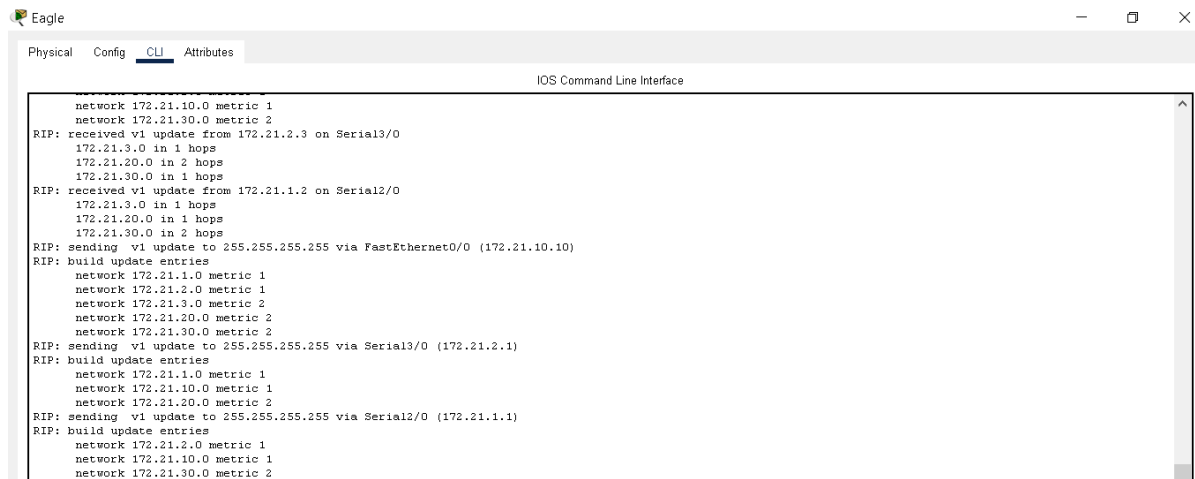
☐ Top

Windows taskbar: 31°C, 23/05/2022, 14:59

- Tugas 4A: Berapa nomor alamat jaringan yang terdaftar pada konfigurasi routing RIP? **172.21.0.0**
  - Tugas 4B: Mengapa alamat jaringan yang langsung terhubung dengan interface e0 (172.21.10.0), s0 (172.21.1.0), dan s1 (172.21.2.0) tidak didaftarkan ke konfigurasi routing RIP? **karena pada saat proses routing RIP hanya network 172.21.0.0 saja yang di daftarkan.**
- e. Lihat proses update routing RIP pada router eagle dengan perintah “ debug ip rip” pada mode user. Tunggu beberapa saat untuk melihat proses yang terjadi.
- Tugas 5A: Jelaskan secara singkat proses tersebut?  
**Update dari send dan received melalui interface router di tamplkan di terminal,jika network tidak berubah,informasi debug akan terus berulang setiap saat.di atas router mengirim pembaharuan v1,pada ethernet 0 interface RIP dikirim sebagai broadcast ke alamat multicast sehingga router meng advertising ke alamat 255.255.255.255. pada output di atas router mwngklaim dapat menjangkau 3 network.**
- f. Lakukan konfigurasi routing RIP pada router puma dan tiger. Perhatikan proses update routing RIP pada router eagle ketika konfigurasi router puma dan tiger dilakukan.



- Perintah debug ip rip



- Tugas 6A: Tuliskan langkah konfigurasi routing RIP yang dilakukan pada salah satu router (puma atau tiger).
  - o **Enable**
  - o **Conf term**
  - o **Router rip**
  - o **Network 172.21.0.0**
- Tugas 6B: Jelaskan secara singkat proses update yang terjadi pada router eagle ketika konfigurasi salah satu router (puma atau tiger) dilakukan. (perhatikan bagian “ RIP : Received updated from 172.21.X.X on SerialX” dan tambahan subnet yang terjadi

```

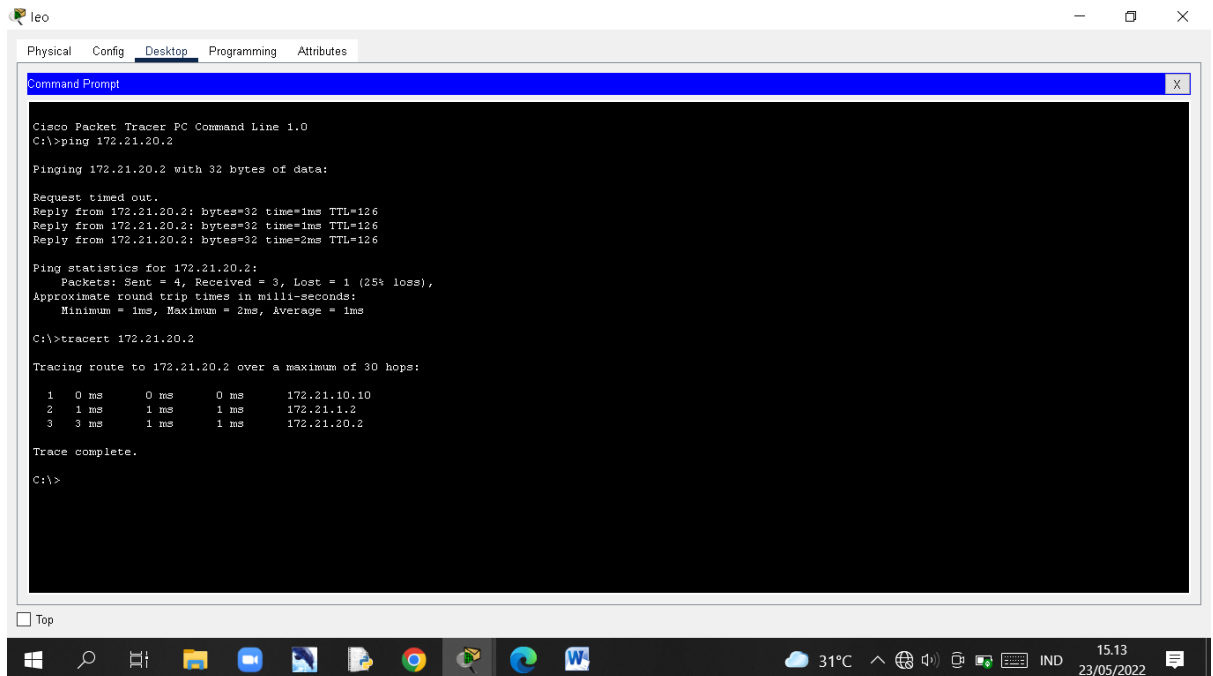
RIP: sending v1 update to 255.255.255.255 via Serial3/0 (172.21.2.1)
RIP: build update entries
      network 172.21.1.0 metric 1
      network 172.21.10.0 metric 1
      network 172.21.20.0 metric 2
RIP: sending v1 update to 255.255.255.255 via Serial2/0 (172.21.1.1)
RIP: build update entries
      network 172.21.2.0 metric 1
      network 172.21.10.0 metric 1
      network 172.21.30.0 metric 2

```

Pada saat routing RIP dilakukan pada puma dan tiger ,maka akan terjadi terjadi:

- **Version 1** mengirimkan updae ke **255.255.255.255** via serial 3/0 (**172.21.2.1**),yang dimana akan mengupdate network **172.21.20.0**(milik tiger).
- **Version 1** mengirimkan updae ke **255.255.255.255** via serial 2/0 (**172.21.1.1**),yang dimana akan mengupdate network **172.21.30.0**(milik puma).

g. Trace pc leo ke aries



```

Cisco Packet Tracer PC Command Line 1.0
C:\>ping 172.21.20.2

Pinging 172.21.20.2 with 32 bytes of data:

Request timed out.
Reply from 172.21.20.2: bytes=32 time=1ms TTL=126
Reply from 172.21.20.2: bytes=32 time=1ms TTL=126
Reply from 172.21.20.2: bytes=32 time=2ms TTL=126

Ping statistics for 172.21.20.2:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 2ms, Average = 1ms

C:\>tracert 172.21.20.2

Tracing route to 172.21.20.2 over a maximum of 30 hops:
  0  0 ms  0 ms  0 ms  172.21.10.10
  1  1 ms  1 ms  1 ms  172.21.1.2
  2  3 ms  1 ms  1 ms  172.21.20.2

Trace complete.

C:\>

```

h. Buat hubungan antara router eagle dan puma terputus dan perhatikan proses update routing RIP yang terjadi.

```

Puma
Physical Config CLI Attributes
IOS Command Line Interface

2 Low-speed serial(sync/async) network interface(s)
32K bytes of non-volatile configuration memory.
63488K bytes of ATA CompactFlash (Read/Write)

Press RETURN to get started!

%LINK-5-CHANGED: Interface Serial2/0, changed state to up
%LINK-5-CHANGED: Interface Serial3/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up

Router>en
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router rip
Router(config-router)#network 172.21.0.0
Router(config-router)#
Router(config-router)#int se2/0
Router(config-if)#shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface Serial2/0, changed state to administratively down
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to down

Ctrl+F6 to exit CLI focus
Copy Paste

```

- Tugas 8A: Jelaskan secara singkat proses update yang terjadi pada router eagle. (perhatikan bagian “ RIP : Received updated from 172.21.2.3 on Serial1” dan perubahan hops dari subnet 172.21.20.0 yang terjadi)!  
**Proses update yang terjadi yaitu pada router eagle sudah tidak lagi menerima update dari serial 2/0(172.21.1.1),hanya menerima update dari serial 3/0 saja.dan untuk hops sendiri juga sudah tidak menerima update dari serial 2/0 hanya menerima serial 3/0.**

#### i. Trace PC Leo ke pc aries

```

C:\>tracert 172.21.20.2

Tracing route to 172.21.20.2 over a maximum of 30 hops:

  0  0 ms  0 ms  0 ms  172.21.10.10
  1  0 ms  1 ms  0 ms  172.21.2.3
  2  1 ms  1 ms  1 ms  172.21.3.2
  3  3 ms  0 ms  1 ms  172.21.20.2

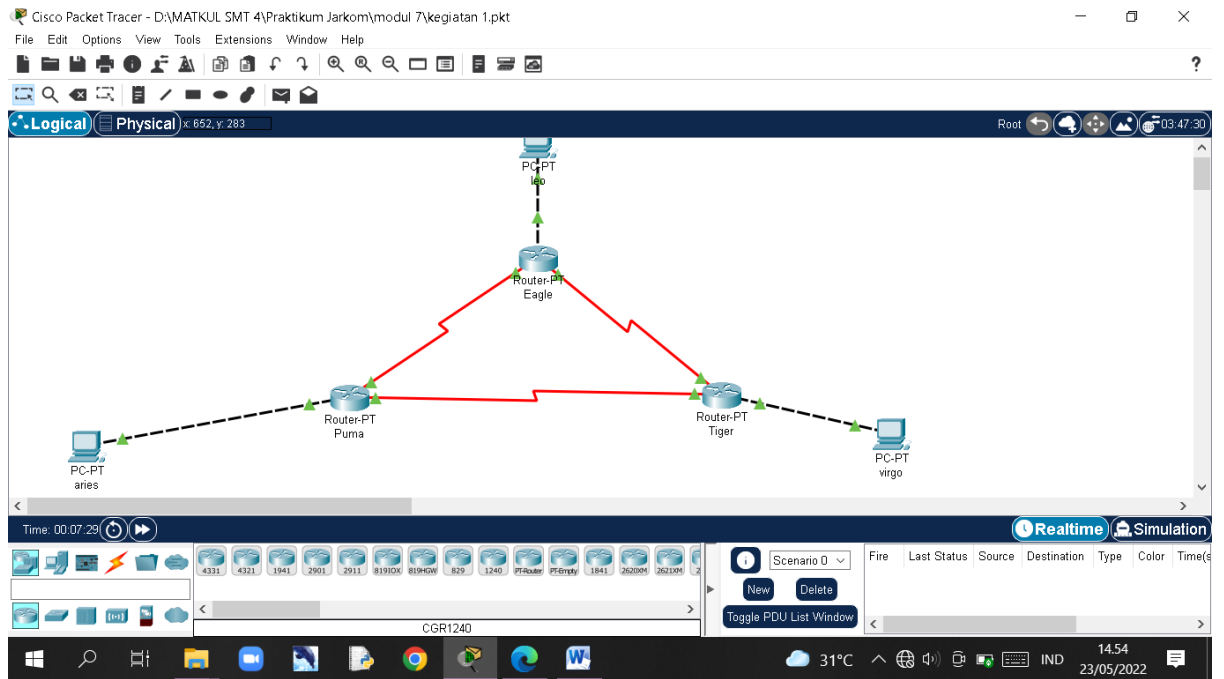
Trace complete.

C:\>

```

- Tugas 9A: Apakah hasil yang diperoleh berbeda dengan langkah 7 di atas (ketika langkah 8 belum dilakukan)? Jelaskan secara singkat mengapa demikian?  
**Setelah melakukan shut down pada serial 2/0 ,maka yang tampil adalah serial 3/0 172.21.3.2(puma) dan serial 172.21.2.3(tiger).**

- Kegiatan 8
  - a. Dari Packet Tracer, buka (load) topologi NetMap yang dipakai di Kegiatan 1.



- b. Load konfigurasi seluruh device yang disimpan pada langkah 6 Kegiatan 1.
- c. konfigurasi routing IGRP pada router eagle

```

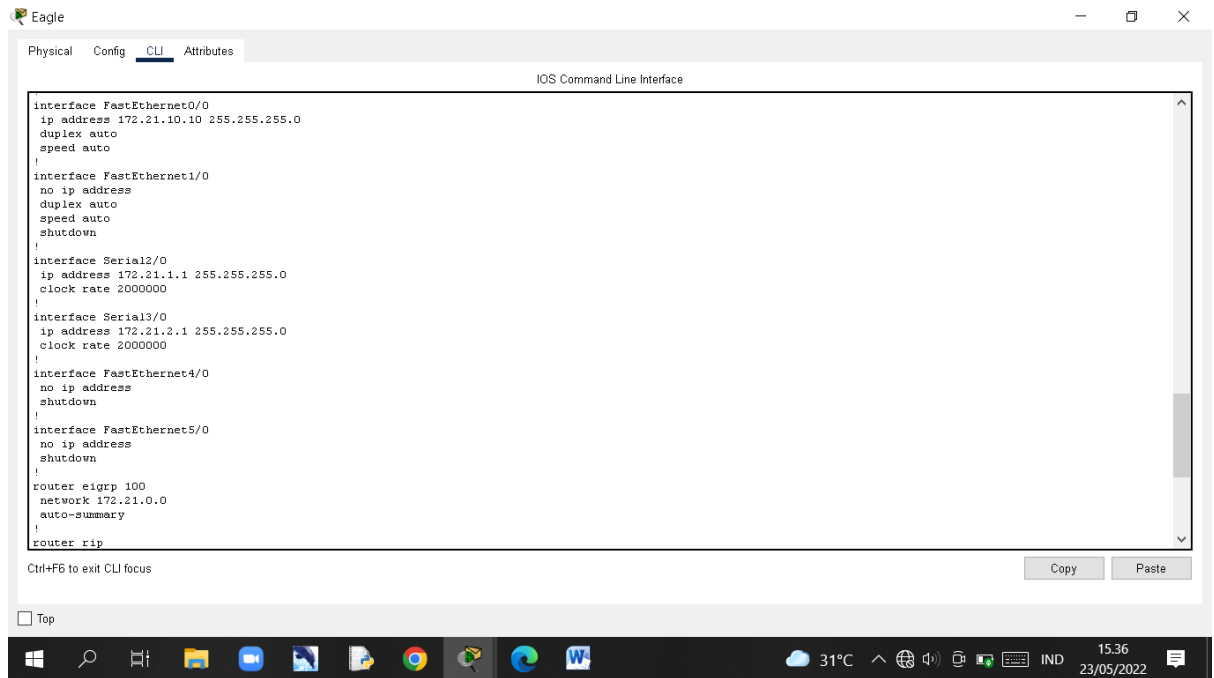
2 Low-speed serial(sync/async) network interface(s)
32K bytes of non-volatile configuration memory.
63486K bytes of ATA CompactFlash (Read/Write)

Press RETURN to get started!

%LINK-5-CHANGED: Interface Serial3/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state to up

Router>en
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router eigrp 100
Router(config)#router igrp 100
Router(config)#router eigrp 100
Router(config-router)#network 172.21.0.0
Router(config-router)#exit
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
  
```

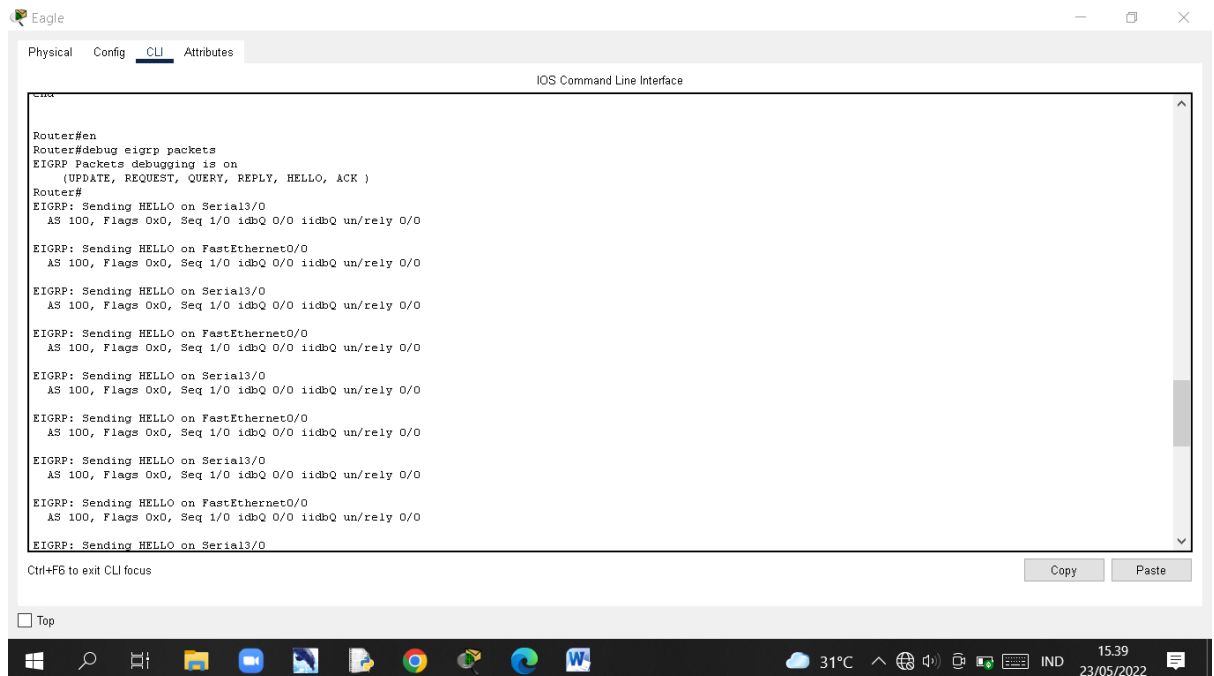
- d. show konfigurasi routing IGRP



```
interface FastEthernet0/0
ip address 172.21.10.10 255.255.255.0
duplex auto
speed auto
!
interface FastEthernet1/0
no ip address
duplex auto
speed auto
shutdown
!
interface Serial2/0
ip address 172.21.1.1 255.255.255.0
clock rate 2000000
!
interface Serial3/0
ip address 172.21.2.1 255.255.255.0
clock rate 2000000
!
interface FastEthernet4/0
no ip address
shutdown
!
interface FastEthernet5/0
no ip address
shutdown
!
router eigrp 100
network 172.21.0.0
auto-summary
!
router rip
```

- Tugas 4A: Berapa nomor alamat jaringan yang terdaftar pada konfigurasi routing IGRP? **alamat jaringan yang terkonfigurasi routing IGRP adalah 172.21.0.0.**

e. Transaksi IGRP pada router eagle



```
Router#en
Router#debug eigrp packets
EIGRP Packets debugging is on
(UPDATE, REQUEST, QUERY, REPLY, HELLO, ACK )
Router#
EIGRP: Sending HELLO on Serial3/0
AS 100, Flags 0x0, Seq 1/0 idbQ 0/0 iidbQ un/rely 0/0

EIGRP: Sending HELLO on FastEthernet0/0
AS 100, Flags 0x0, Seq 1/0 idbQ 0/0 iidbQ un/rely 0/0

EIGRP: Sending HELLO on Serial3/0
AS 100, Flags 0x0, Seq 1/0 idbQ 0/0 iidbQ un/rely 0/0

EIGRP: Sending HELLO on FastEthernet0/0
AS 100, Flags 0x0, Seq 1/0 idbQ 0/0 iidbQ un/rely 0/0

EIGRP: Sending HELLO on Serial3/0
AS 100, Flags 0x0, Seq 1/0 idbQ 0/0 iidbQ un/rely 0/0

EIGRP: Sending HELLO on FastEthernet0/0
AS 100, Flags 0x0, Seq 1/0 idbQ 0/0 iidbQ un/rely 0/0

EIGRP: Sending HELLO on Serial3/0
AS 100, Flags 0x0, Seq 1/0 idbQ 0/0 iidbQ un/rely 0/0

EIGRP: Sending HELLO on FastEthernet0/0
AS 100, Flags 0x0, Seq 1/0 idbQ 0/0 iidbQ un/rely 0/0

EIGRP: Sending HELLO on Serial3/0
```

f. Tugas 5A: Jelaskan secara singkat proses tersebut?

**Output menampilkan transmisi dan penerimaan paket EIGRP, jenis paket ini berupa hello, update, request, query, atau reply. Sequence dan acknowledgmen yang digunakan oleh transaksi algoritma EIGRP**



ditampilkan di output. Jika memungkinkan “network-layer address” dari neighboring juga akan disertakan.

- g. Lakukan konfigurasi routing IGRP pada router puma dan tiger.

**Puma**

```

X.25 software, version 3.0.0.
4 FastEthernet/IEEE 802.3 interface(s)
2 Low-speed serial(sync/async) network interface(s)
32K bytes of non-volatile configuration memory.
63488K bytes of ATA CompactFlash (Read/Write)

Press RETURN to get started!

%LINK-5-CHANGED: Interface Serial3/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state to up

Router>en
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router eigrp 100
Router(config-router)#network 172.21.0.0
Router(config-router)#
Router(config-router)#
%DUAL-5-NBRCHANGE: IP-EIGRP 100: Neighbor 172.21.3.3 (Serial3/0) is up: new adjacency
Router(config-router)#
Router(config-router)#
  
```

**Tiger**

```

32K bytes of non-volatile configuration memory.
63488K bytes of ATA CompactFlash (Read/Write)

Press RETURN to get started!

%LINK-5-CHANGED: Interface Serial3/0, changed state to up
%LINK-5-CHANGED: Interface Serial2/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state to up

Router>en
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router eigrp 100
Router(config-router)#network 172.21.0.0
Router(config-router)#
Router(config-router)#
%DUAL-5-NBRCHANGE: IP-EIGRP 100: Neighbor 172.21.2.1 (Serial3/0) is up: new adjacency
%DUAL-5-NBRCHANGE: IP-EIGRP 100: Neighbor 172.21.3.2 (Serial2/0) is up: new adjacency
  
```

**Puma**

```

EIGRP: Received HELLO on Serial3/0 nbr 172.21.3.3
AS 100, Flags 0x0, Seq 7/0 idbQ 0/0

EIGRP: Sending HELLO on FastEthernet0/0
AS 100, Flags 0x0, Seq 8/0 idbQ 0/0 idbQ un/rely 0/0

EIGRP: Sending HELLO on Serial3/0
AS 100, Flags 0x0, Seq 8/0 idbQ 0/0 idbQ un/rely 0/0

EIGRP: Received HELLO on Serial3/0 nbr 172.21.3.3
AS 100, Flags 0x0, Seq 7/0 idbQ 0/0

EIGRP: Sending HELLO on FastEthernet0/0
AS 100, Flags 0x0, Seq 8/0 idbQ 0/0 idbQ un/rely 0/0

EIGRP: Sending HELLO on Serial3/0
AS 100, Flags 0x0, Seq 8/0 idbQ 0/0 idbQ un/rely 0/0

EIGRP: Received HELLO on Serial3/0 nbr 172.21.3.3
AS 100, Flags 0x0, Seq 7/0 idbQ 0/0

EIGRP: Sending HELLO on FastEthernet0/0
AS 100, Flags 0x0, Seq 8/0 idbQ 0/0 idbQ un/rely 0/0

EIGRP: Sending HELLO on Serial3/0
AS 100, Flags 0x0, Seq 8/0 idbQ 0/0 idbQ un/rely 0/0

EIGRP: Received HELLO on Serial3/0 nbr 172.21.3.3
AS 100, Flags 0x0, Seq 7/0 idbQ 0/0
  
```

**Tiger**

```

EIGRP: Sending HELLO on Serial3/0
AS 100, Flags 0x0, Seq 7/0 idbQ 0/0 idbQ un/rely 0/0

EIGRP: Sending HELLO on FastEthernet0/0
AS 100, Flags 0x0, Seq 7/0 idbQ 0/0 idbQ un/rely 0/0

EIGRP: Received HELLO on Serial3/0 nbr 172.21.2.1
AS 100, Flags 0x0, Seq 8/0 idbQ 0/0

EIGRP: Received HELLO on Serial2/0 nbr 172.21.3.2
AS 100, Flags 0x0, Seq 8/0 idbQ 0/0

EIGRP: Sending HELLO on Serial2/0
AS 100, Flags 0x0, Seq 7/0 idbQ 0/0 idbQ un/rely 0/0

EIGRP: Sending HELLO on Serial3/0
AS 100, Flags 0x0, Seq 7/0 idbQ 0/0 idbQ un/rely 0/0

EIGRP: Sending HELLO on FastEthernet0/0
AS 100, Flags 0x0, Seq 7/0 idbQ 0/0 idbQ un/rely 0/0

EIGRP: Received HELLO on Serial3/0 nbr 172.21.2.1
AS 100, Flags 0x0, Seq 8/0 idbQ 0/0

EIGRP: Received HELLO on Serial2/0 nbr 172.21.3.2
AS 100, Flags 0x0, Seq 8/0 idbQ 0/0

EIGRP: Sending HELLO on Serial2/0
AS 100, Flags 0x0, Seq 7/0 idbQ 0/0 idbQ un/rely 0/0
  
```

- Tugas 7A: Tuliskan langkah konfigurasi routing IGRP yang dilakukan pada salah satu router (puma atau tiger).
  - o En
  - o Conf term
  - o Router eigrp 100

- Network 172.21.0.0
- End

- Tugas 7B: Jelaskan secara singkat proses update yang terjadi pada router eagle ketika konfigurasi salah satu router (puma atau tiger) dilakukan. (perhatikan bagian “ IGRP : Received updated from 172.21.X.X on SerialX” dan tambahan subnet yang terjadi)  
**Router eagle menerima update dari serial 2/0 172.21.1.2 (puma) dan serial 3/0 172.21.2.3 (tiger), yang berupa “hello” dengan nilai eigrp = 100.**

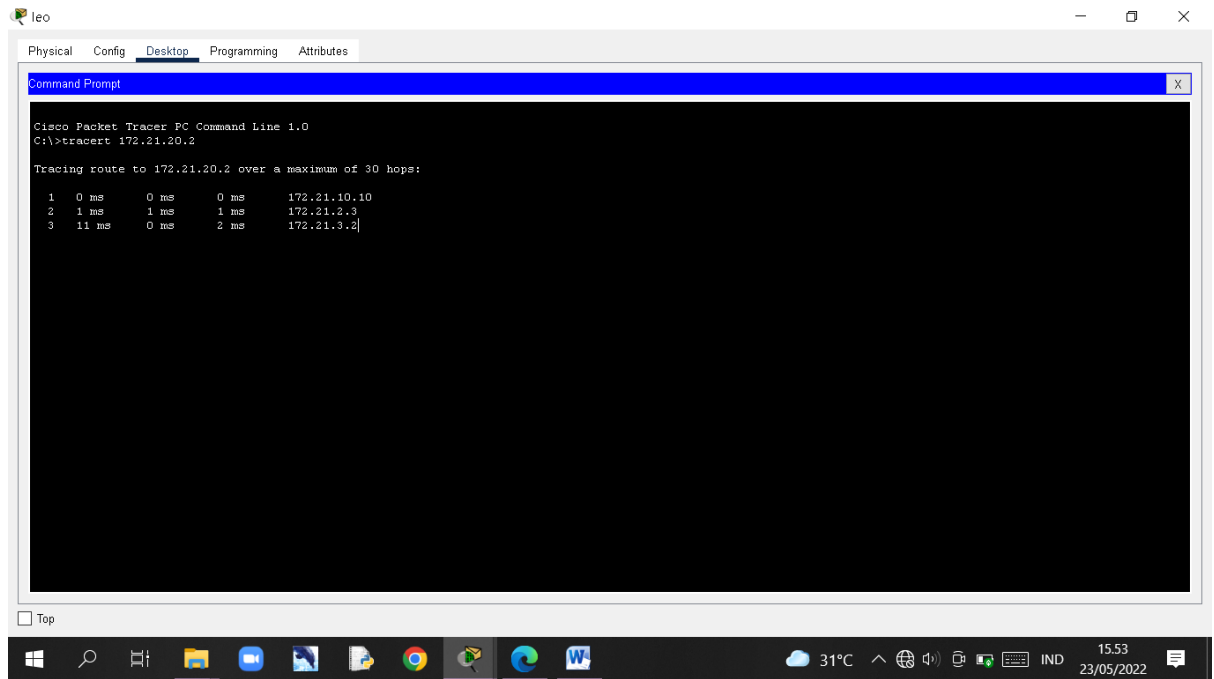
```

Eagle
Physical Config CLI Attributes
IOS Command Line Interface
AS 100, Flags 0x0, Seq 8/0 idbQ 0/0 iIdbQ un/rely 0/0
EIGRP: Received HELLO on Serial3/0 nbr 172.21.2.3
AS 100, Flags 0x0, Seq 7/0 idbQ 0/0
EIGRP: Sending HELLO on FastEthernet0/0
AS 100, Flags 0x0, Seq 8/0 idbQ 0/0 iIdbQ un/rely 0/0
EIGRP: Sending HELLO on Serial3/0
AS 100, Flags 0x0, Seq 8/0 idbQ 0/0 iIdbQ un/rely 0/0
EIGRP: Received HELLO on Serial3/0 nbr 172.21.2.3
AS 100, Flags 0x0, Seq 7/0 idbQ 0/0
EIGRP: Sending HELLO on FastEthernet0/0
AS 100, Flags 0x0, Seq 8/0 idbQ 0/0 iIdbQ un/rely 0/0
EIGRP: Sending HELLO on Serial3/0
AS 100, Flags 0x0, Seq 8/0 idbQ 0/0 iIdbQ un/rely 0/0
EIGRP: Received HELLO on Serial3/0 nbr 172.21.2.3
AS 100, Flags 0x0, Seq 7/0 idbQ 0/0
EIGRP: Sending HELLO on FastEthernet0/0
AS 100, Flags 0x0, Seq 8/0 idbQ 0/0 iIdbQ un/rely 0/0
EIGRP: Sending HELLO on Serial3/0
AS 100, Flags 0x0, Seq 8/0 idbQ 0/0 iIdbQ un/rely 0/0
EIGRP: Received HELLO on Serial3/0 nbr 172.21.2.3
AS 100, Flags 0x0, Seq 7/0 idbQ 0/0
Ctrl+F6 to exit CLI focus
Copy Paste
Top

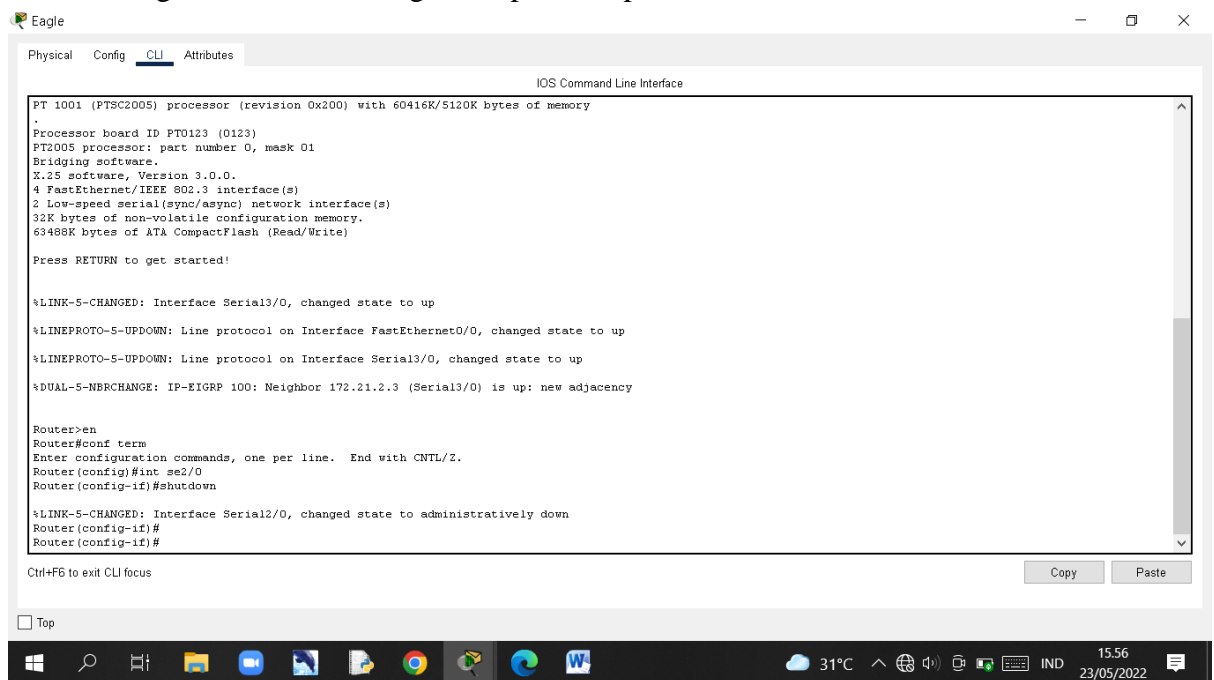
```

- Tugas 7C: Jika alamat jaringan pada segmen leo diubah dari 172.21.10.0/24 menjadi 172.21.100.0/24. Apakah perlu dilakukan? **Jika alamat segmen Leo diubah ke 172.21.100.0/24, perlu dilakukan perubahan konfigurasi pada setiap router, karena pada PC Leo dilakukan perubahan pada alamat jaringan pada segmen, maka router lain juga harus dirouting ulang sesuai alamat jaringan pada segmen dari PC Leo.**

h. Dari PC leo lakukan trace ke PC aries



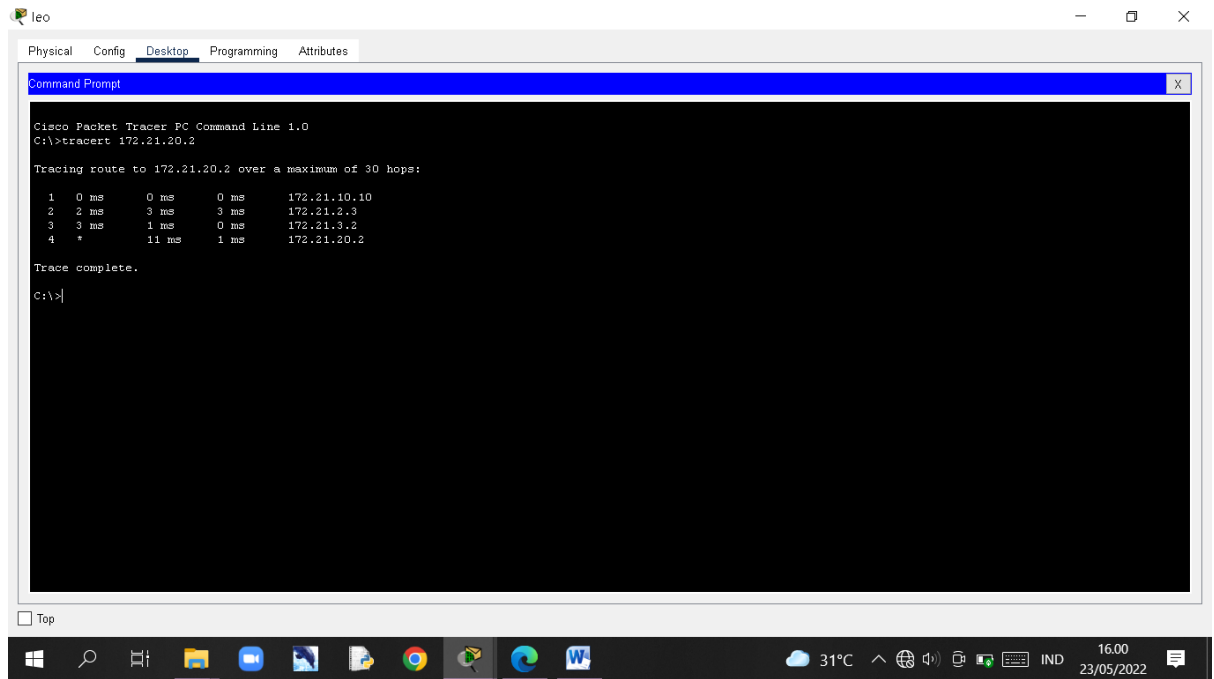
i. Buat hubungan antara router eagle dan puma terputus



- Tugas 9A: Jelaskan secara singkat proses update yang terjadi pada router eagle. (perhatikan bagian “ IGRP : Received updated from 172.21.2.3 on Serial1”)

**Router eagle tidak menerima update serial 2/0 172.21.1.2(puma),hanya menerima update dari serial 3/0 172.21.2.3(tiger).**

j. Dari PC leo lakukan trace ke PC aries



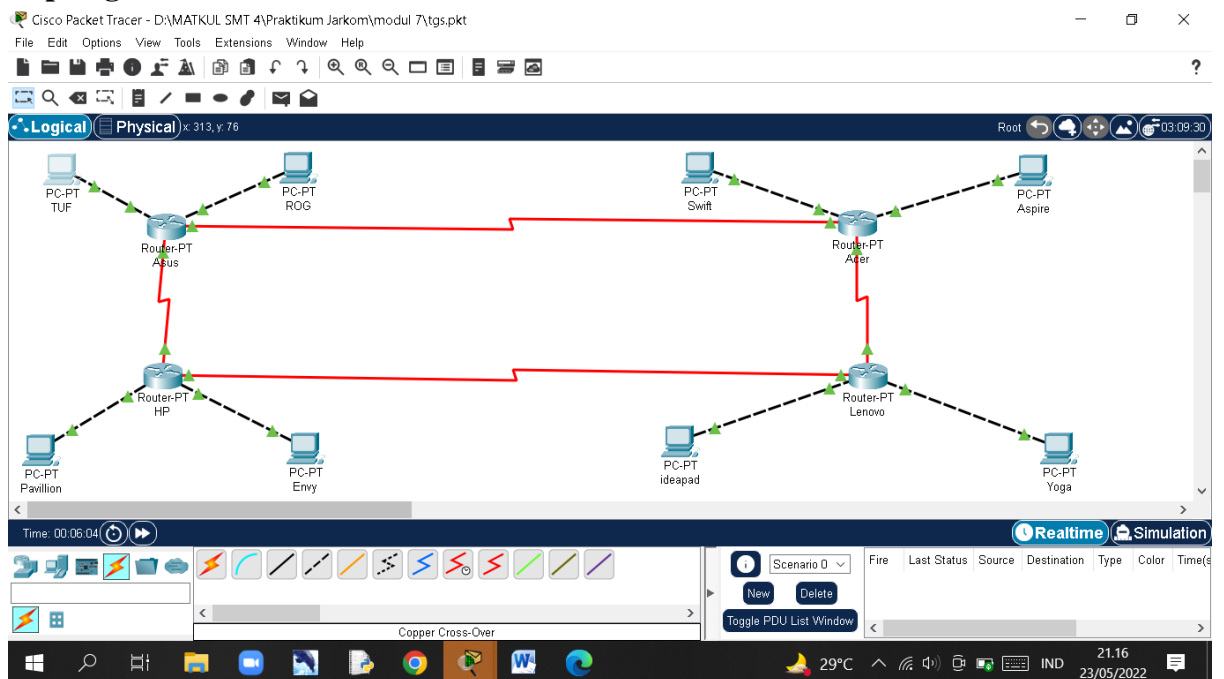
- Tugas 10A: Apakah hasil yang diperoleh berbeda dengan langkah 8 di atas (ketika langkah 9 belum dilakukan)? Jelaskan secara singkat mengapa demikian

**Leo sudah tidak menerima tanggapan dari serial 2/0**

**172.21.2.3(puma), karena sudah shut down. leo hanya menerima serial 2/0 172.21.2..3(tiger) dan serial 3/0 172.21.3.2(puma).**

## • Tugas

### a. Topologi



## b. Konfigurasi router

The image displays two screenshots of a Cisco IOS Command Line Interface (CLI) window, showing the configuration of a router. The top window is titled 'Asus' and the bottom window is titled 'Acer'. Both windows show the same sequence of commands for configuring interfaces fa 0/0, fa 1/0, and se 2/0, se 3/0.

**Asus Window:**

```
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int fa 0/0
Router(config-if)#ip address 172.21.10.10 255.255.255.0
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)#int fa 1/0
Router(config-if)#ip address 172.21.20.20 255.255.255.0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed state to up

Router(config-if)#exit
Router(config)#int se 2/0
Router(config-if)#clock rate 2000000
This command applies only to DCE interfaces
Router(config-if)#ip address 172.21.1.1 255.255.255.0
Router(config-if)#no shutdown

%LINK-5-CHANGED: Interface Serial2/0, changed state to down
Router(config-if)#
Router(config-if)#int se 3/0
Router(config-if)#clock rate 2000000
Router(config-if)#ip address 172.21.2.1 255.255.255.0
Router(config-if)#no shutdown
```

**Acer Window:**

```
Router>en
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int fa 0/0
Router(config-if)#ip address 172.21.30.30 255.255.255.0
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)#int fa 1/0
Router(config-if)#ip address 172.21.40.40 255.255.255.0
Router(config-if)#no shutdown

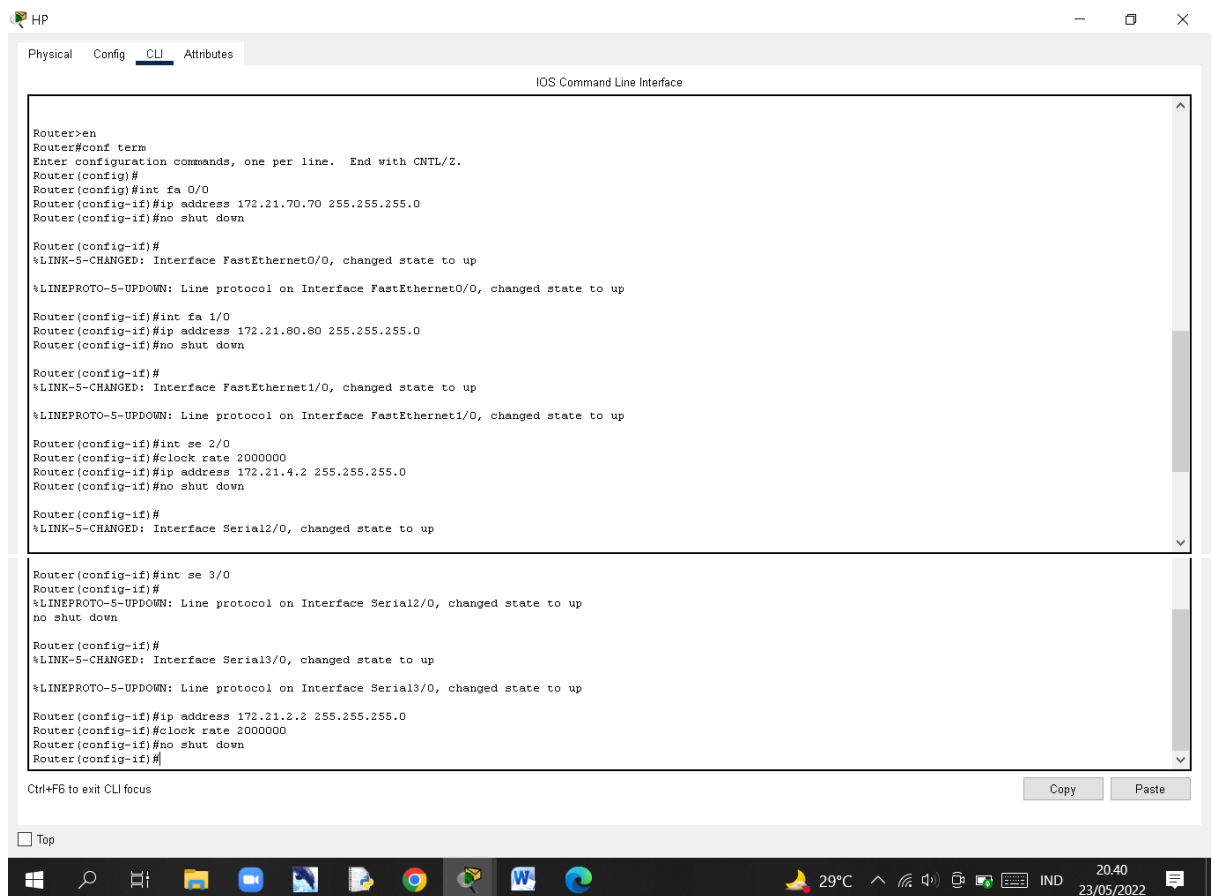
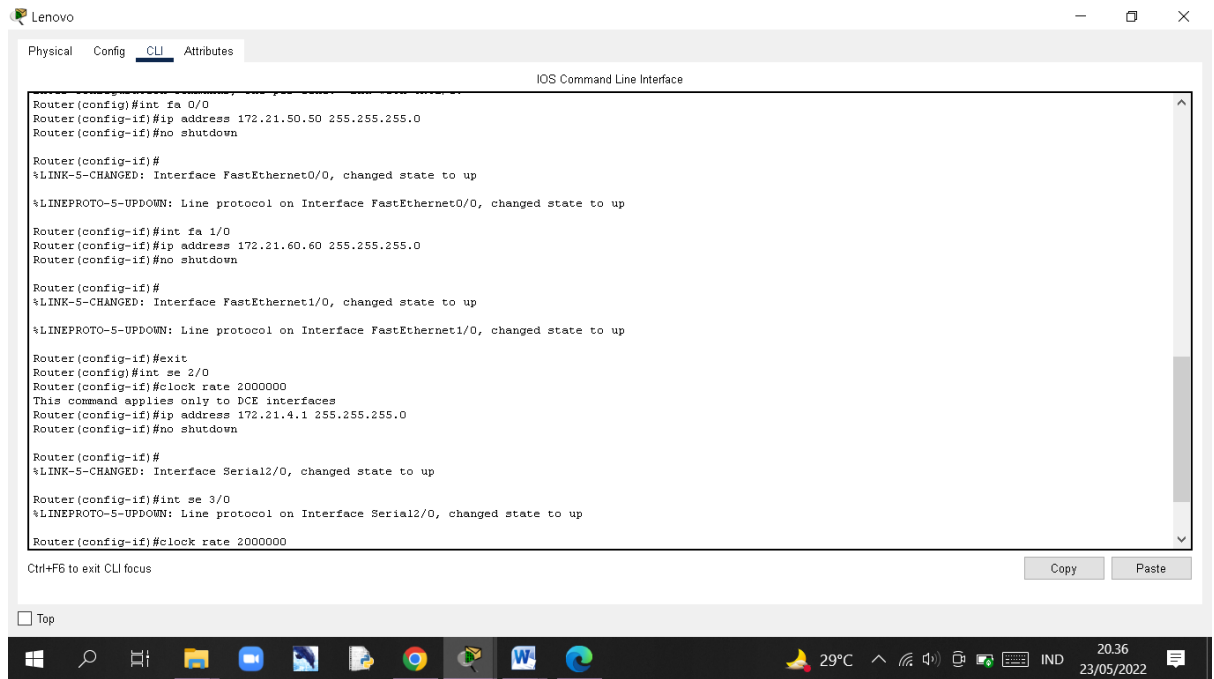
Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed state to up

Router(config-if)#int se 2/0
Router(config-if)#clock rate 2000000
This command applies only to DCE interfaces
Router(config-if)#ip address 172.21.1.2 255.255.255.0
Router(config-if)#no shutdown

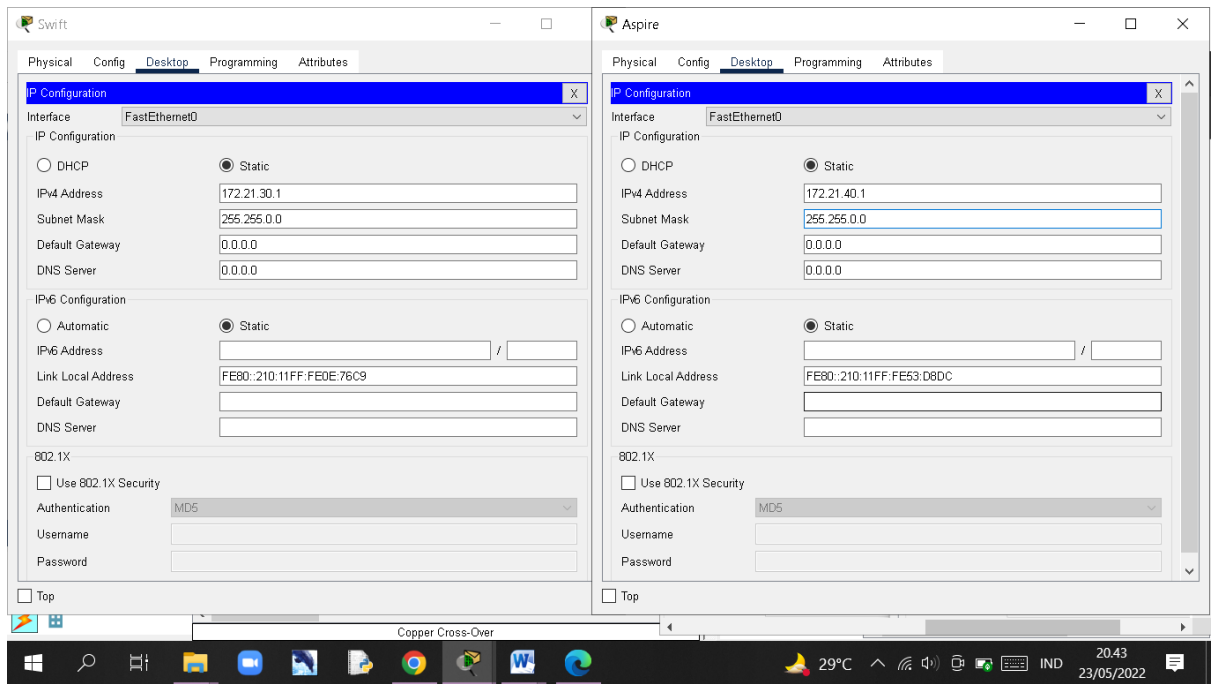
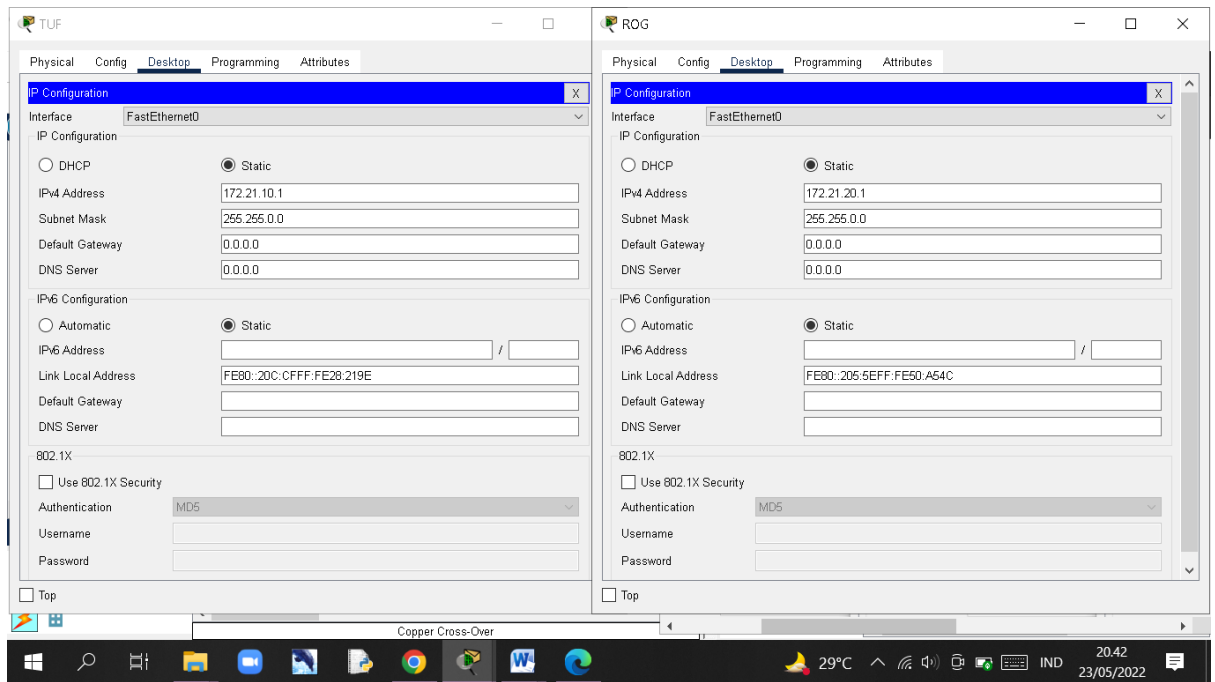
Router(config-if)#
%LINK-5-CHANGED: Interface Serial2/0, changed state to up

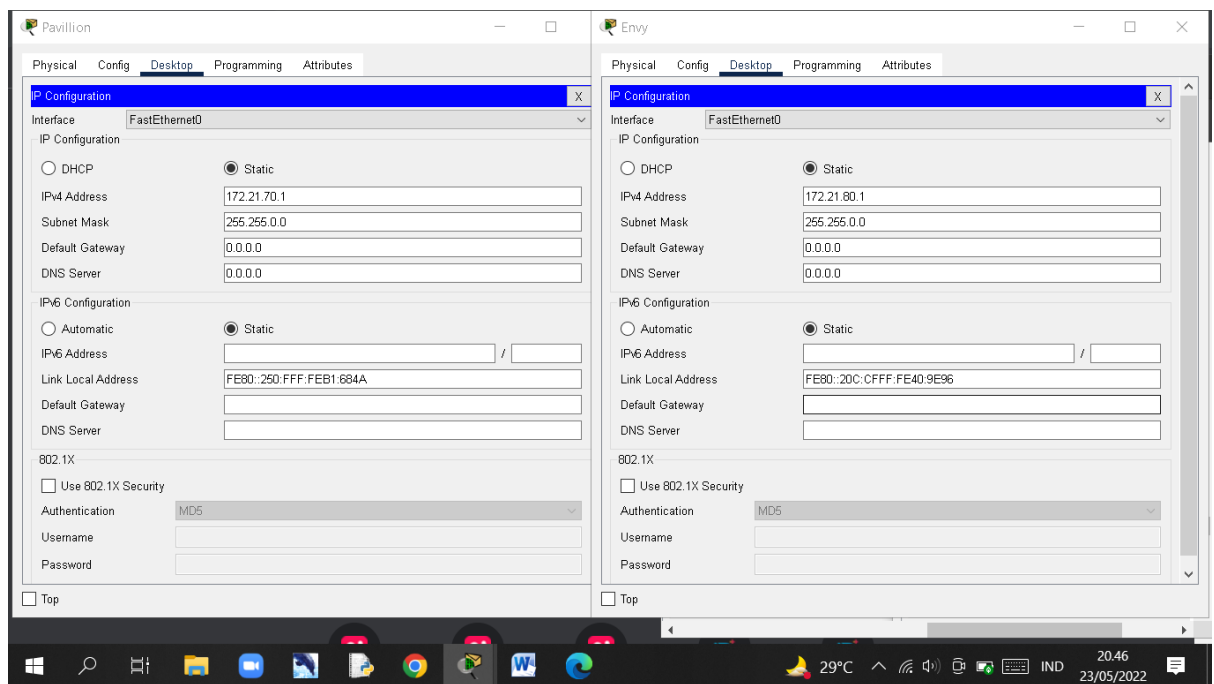
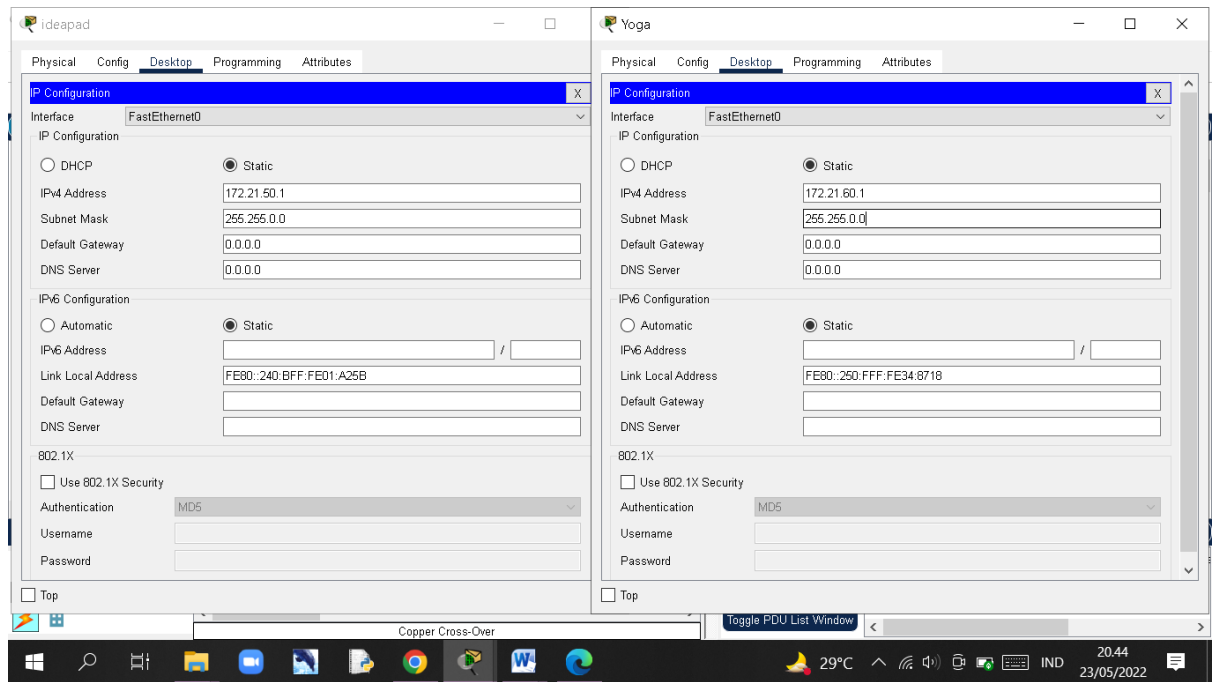
Router(config-if)#int se 3/0
Router(config-if)#clock rate 2000000
Router(config-if)#ip address 172.21.3.2 255.255.255.0
Router(config-if)#no shutdown

%LINK-5-CHANGED: Interface Serial3/0, changed state to down
Router(config-if)#
```



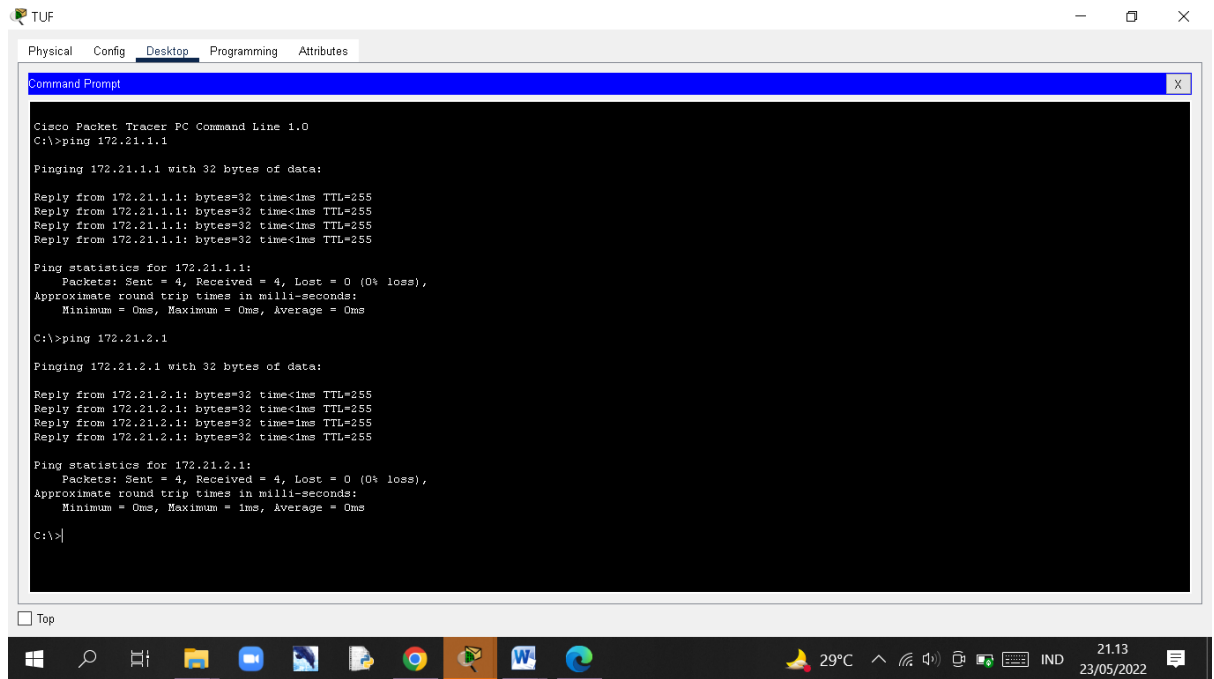
## c. Konfigurasi pc





#### d. Mengecek koneksi





## e. Routing router

