COMPUTER NETWORKS

PRACTICUM 7

By:

Motwkel Mhmoud Mohmed Adam

NIM: L200184220

INFORMATION TECHNOLOGY

FACULTY OF COMMUNICATION AND INFORMATICS

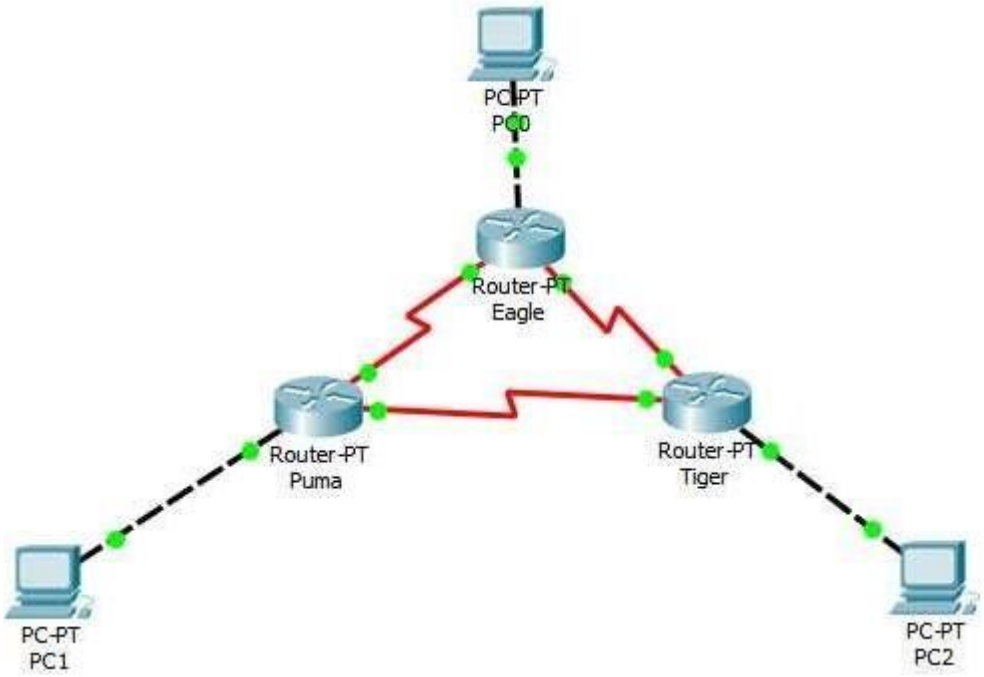
UNIVERSITY OF MUHAMMADIYAH SURAKARTA

2020

ACTIVITY 1

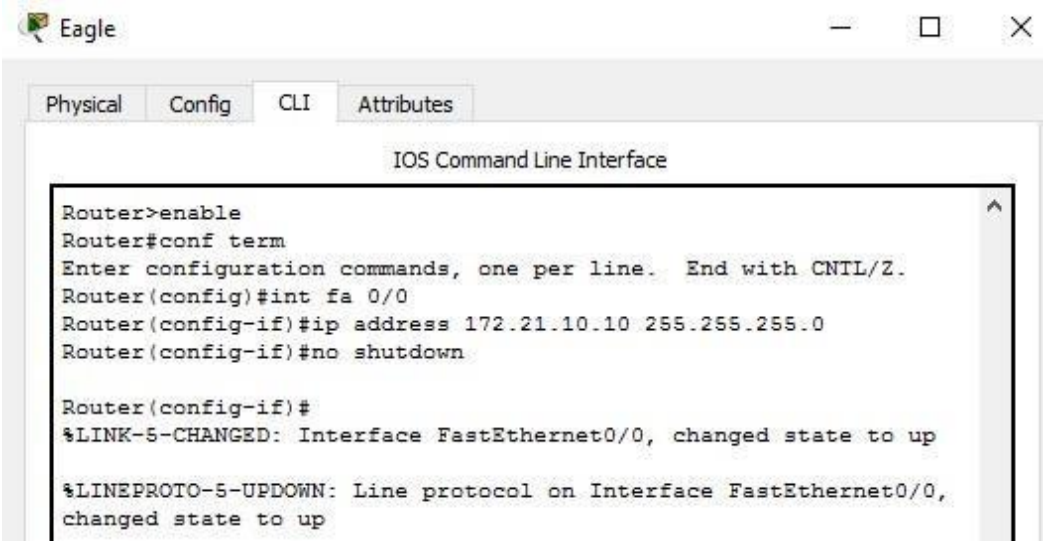
A. Membuat topologi

B. Memberi nama router



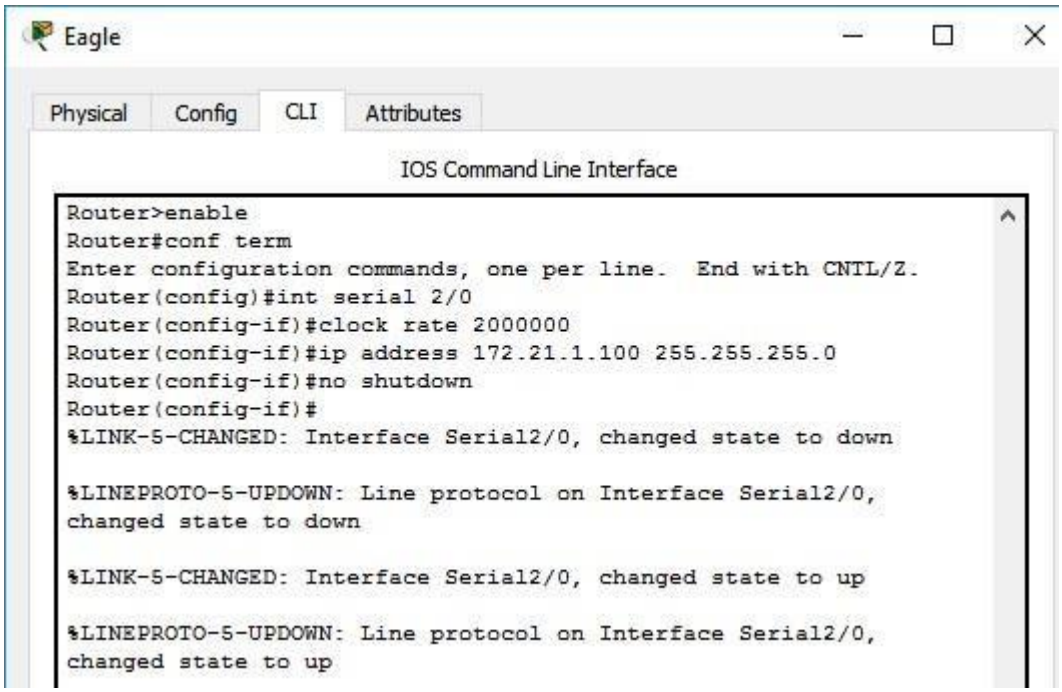
C. Konfigurasi IP Router

- **Eagle (Ethernet 0)**

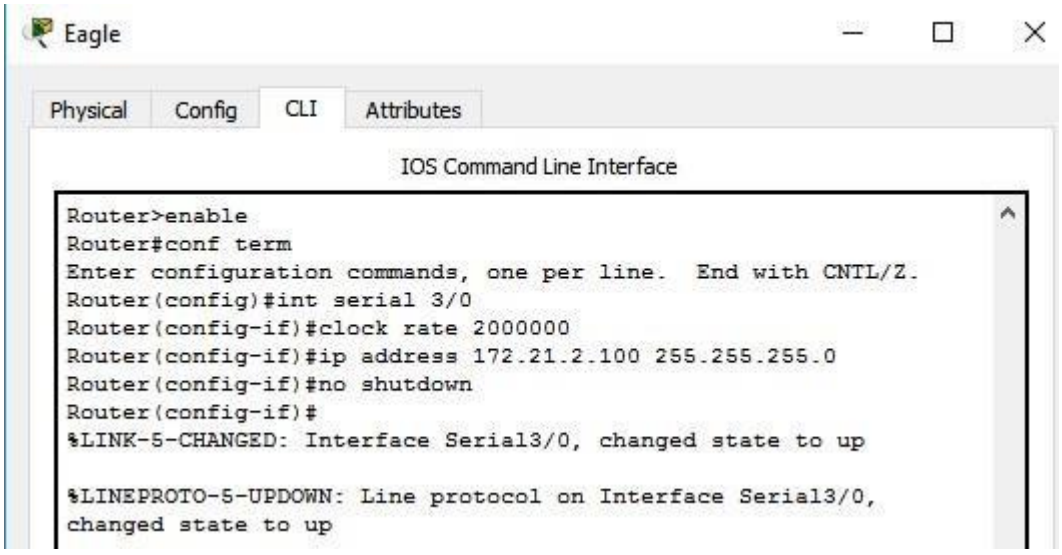


➢

Eagle (Serial 0)

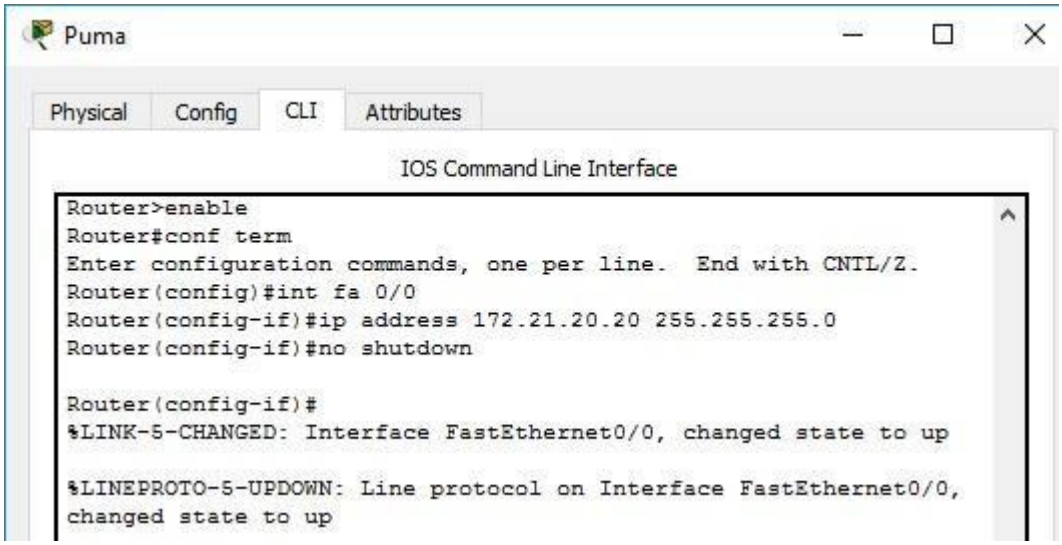


➢ **Eagle (Serial 1)**

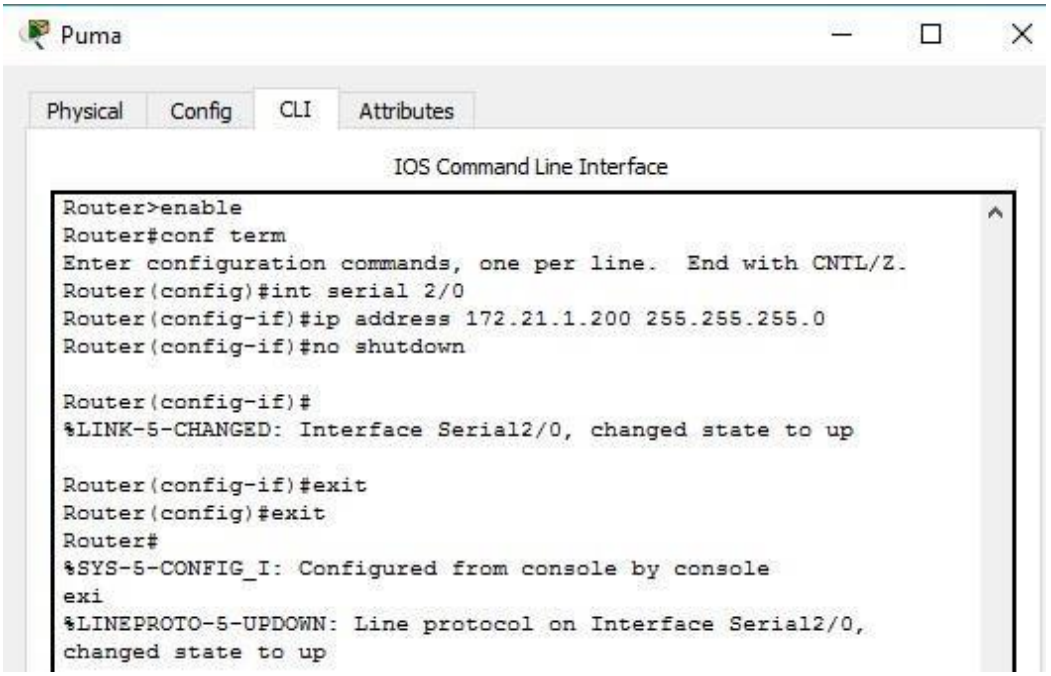


➢

Puma (Ethernet 0)

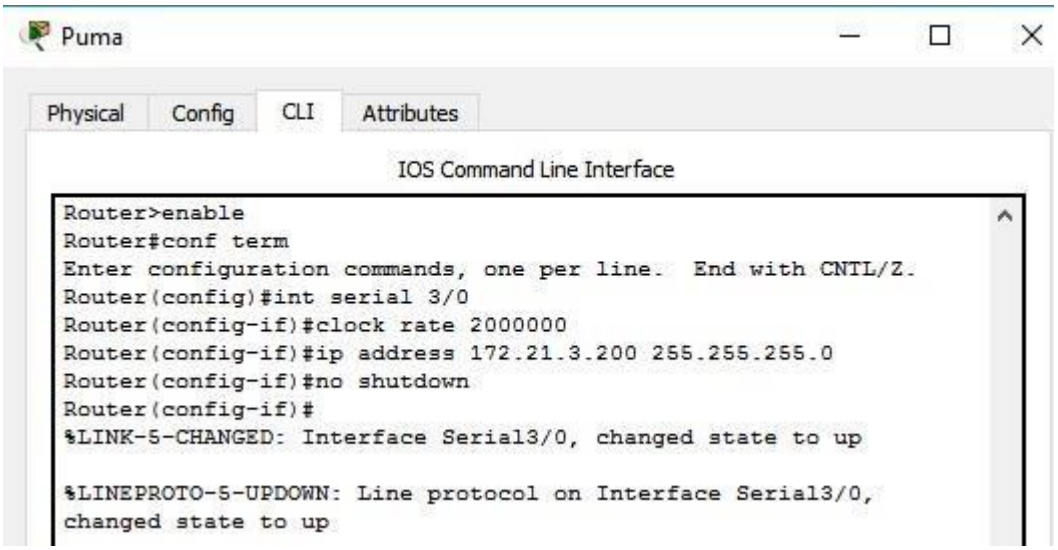


➢ **Puma (Serial 0)**

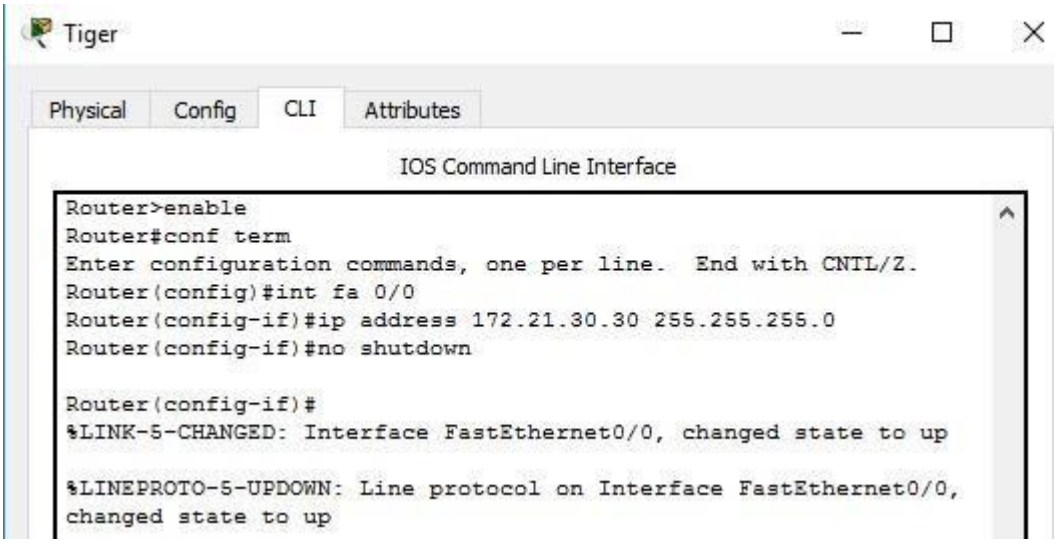


➢

Puma (Serial 1)

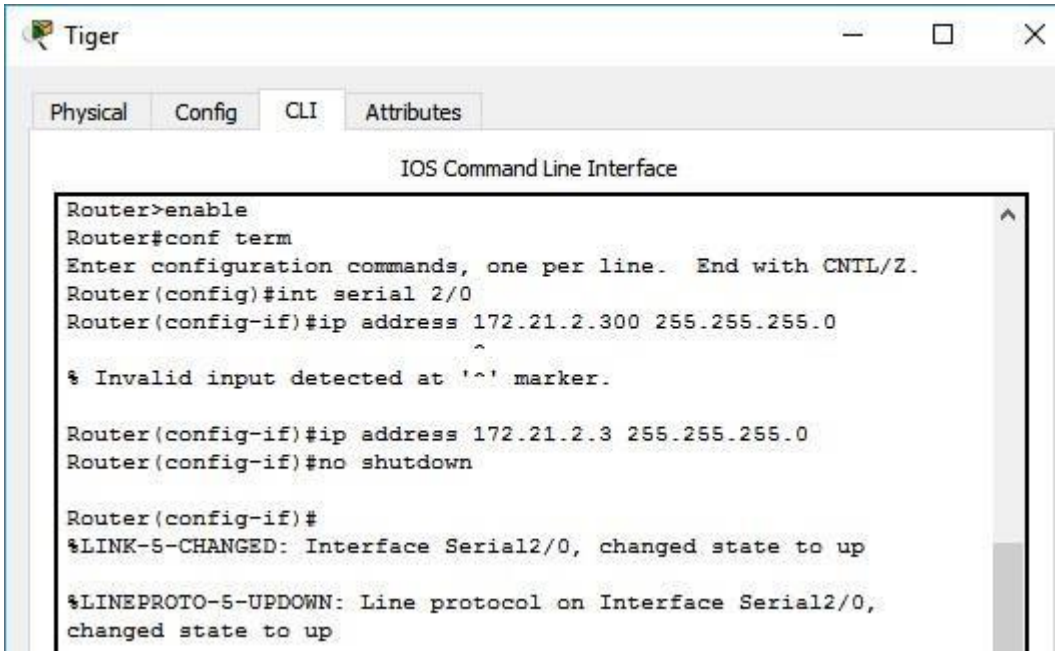


- **Tiger (Ethernet 0)**

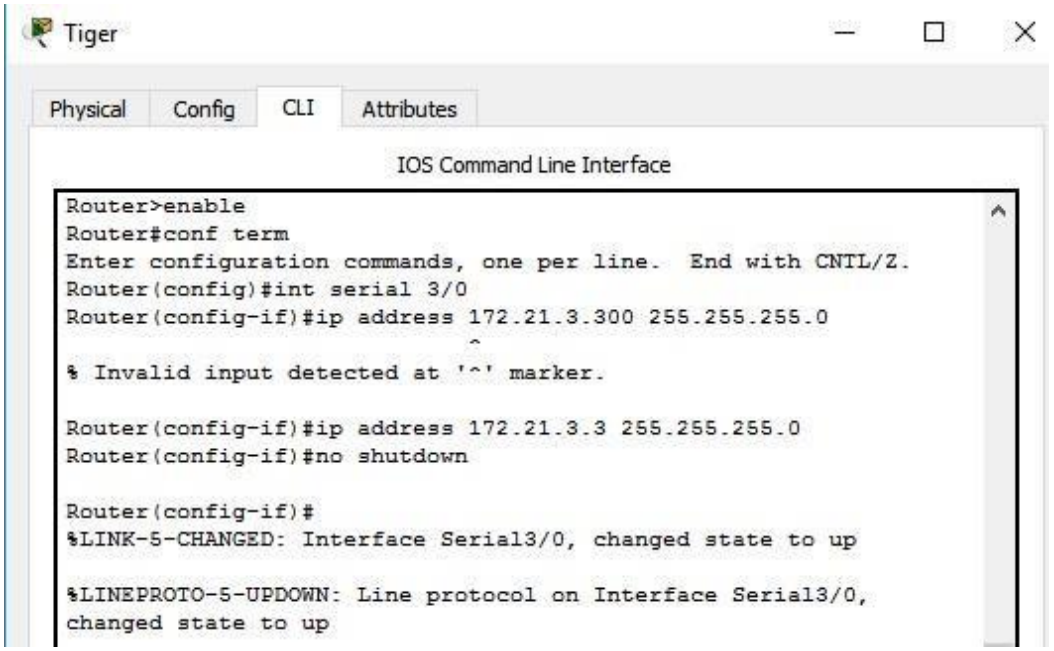


Tiger (Serial 0)

➢

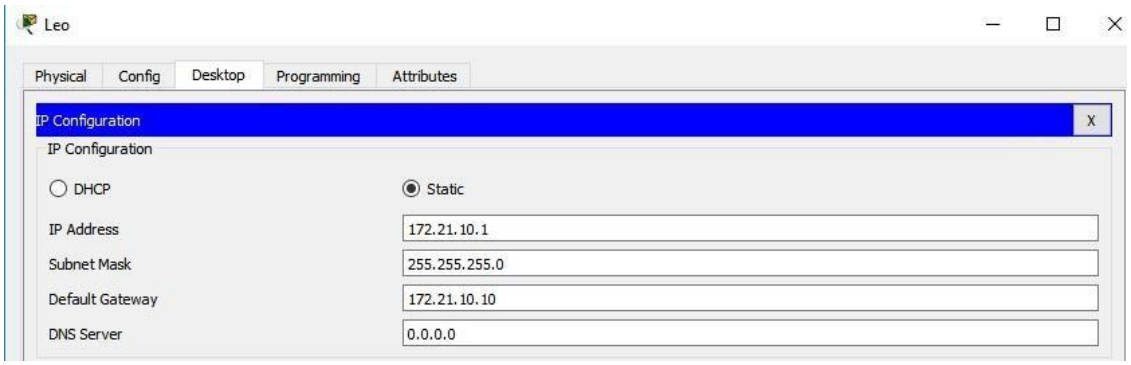


➢ **Tiger (Serial 1)**

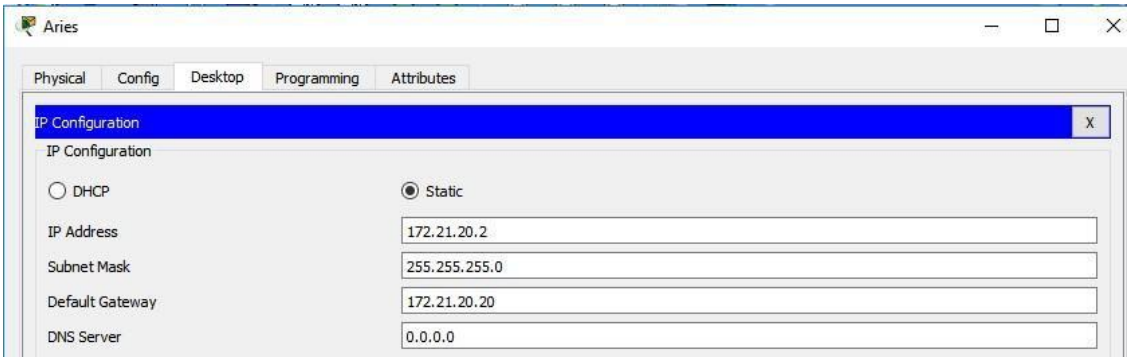


D. Konfigurasi PC

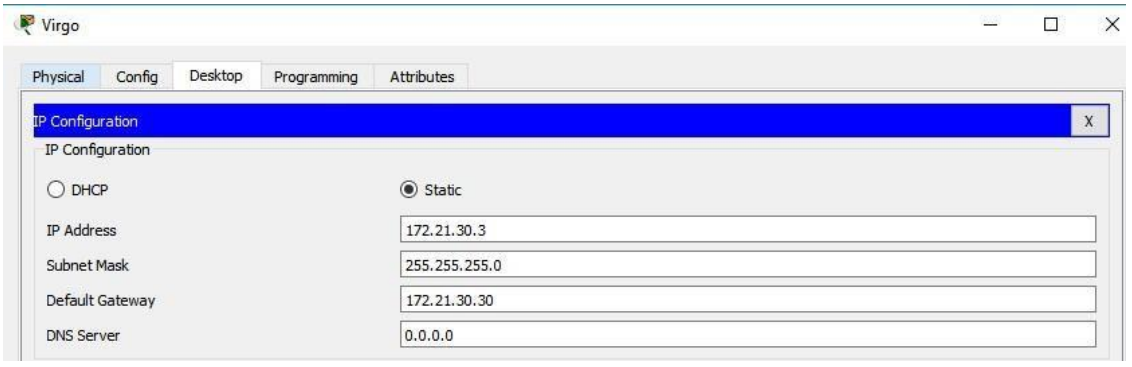
- **Leo (PC1)**



- **Aries (PC2)**

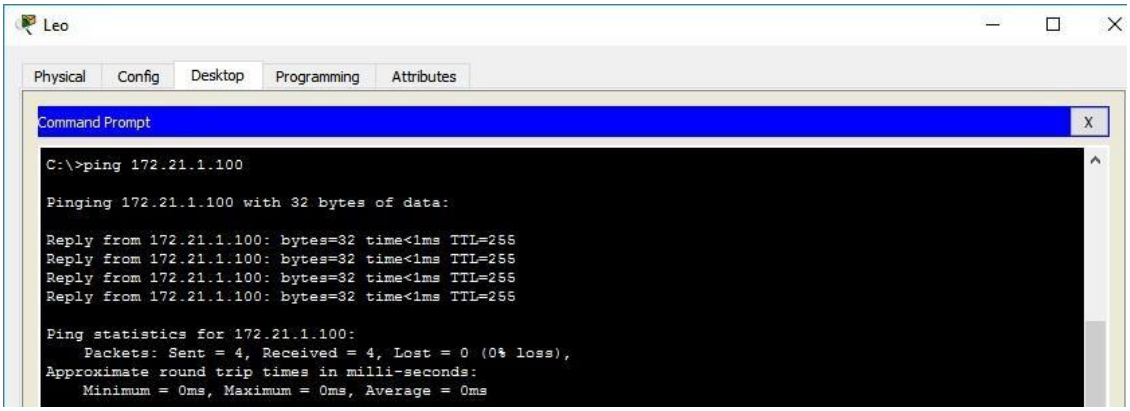


- **Virgo (PC3)**

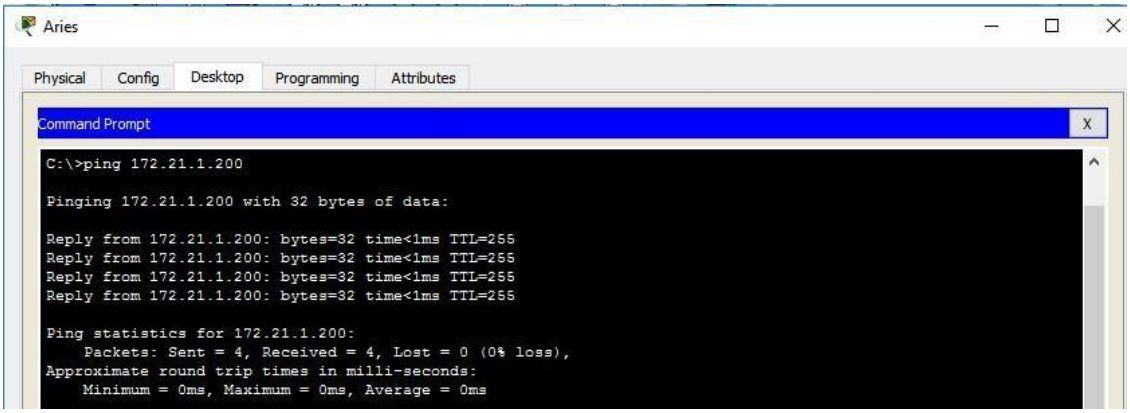


E. Memastikan kesesuaian konfigurasi

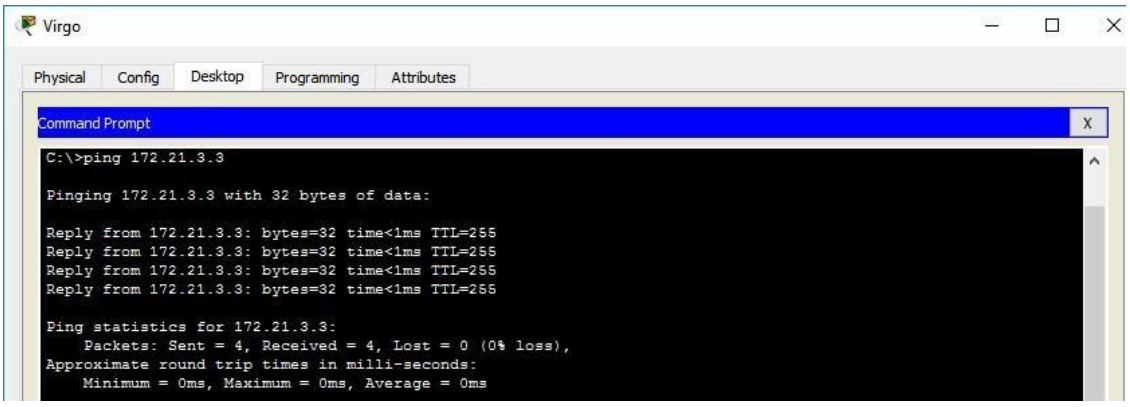
- **Ping dari PC Leo ke router Eagle**



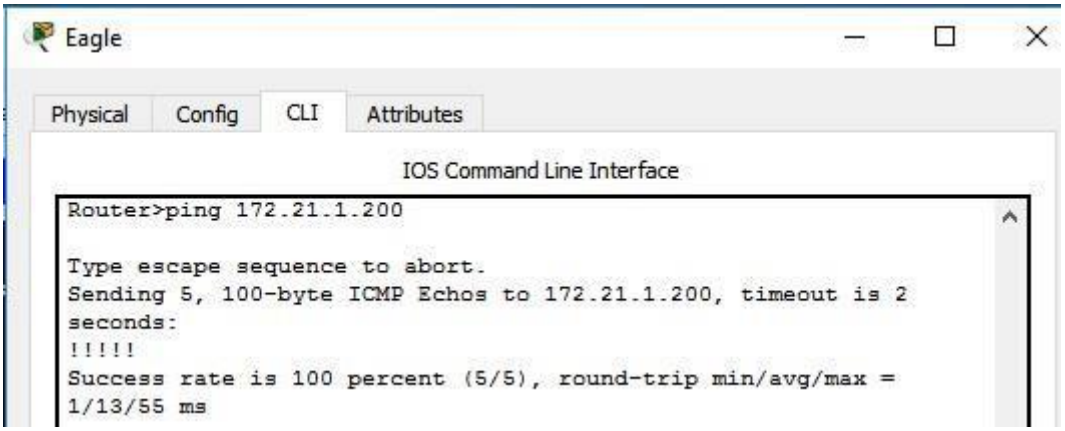
- **Ping dari PC Aries ke router Puma**



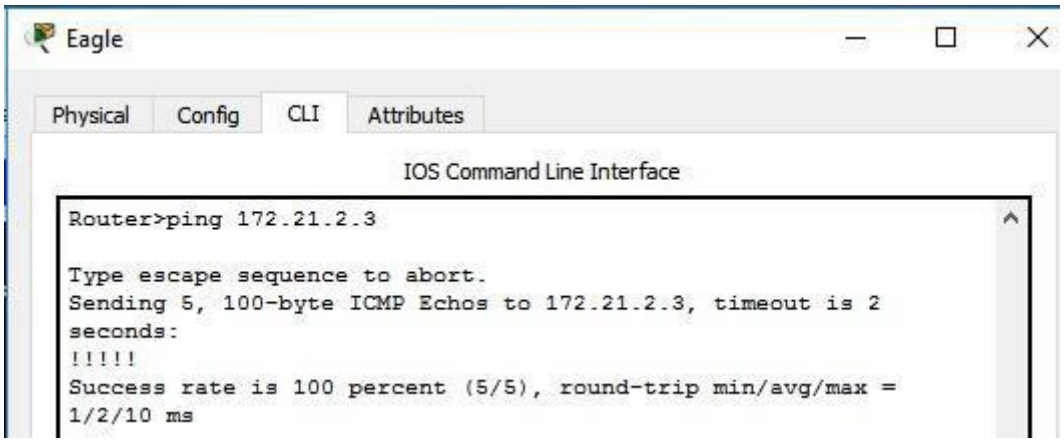
- **Ping dari PC Virgo ke router Tiger**



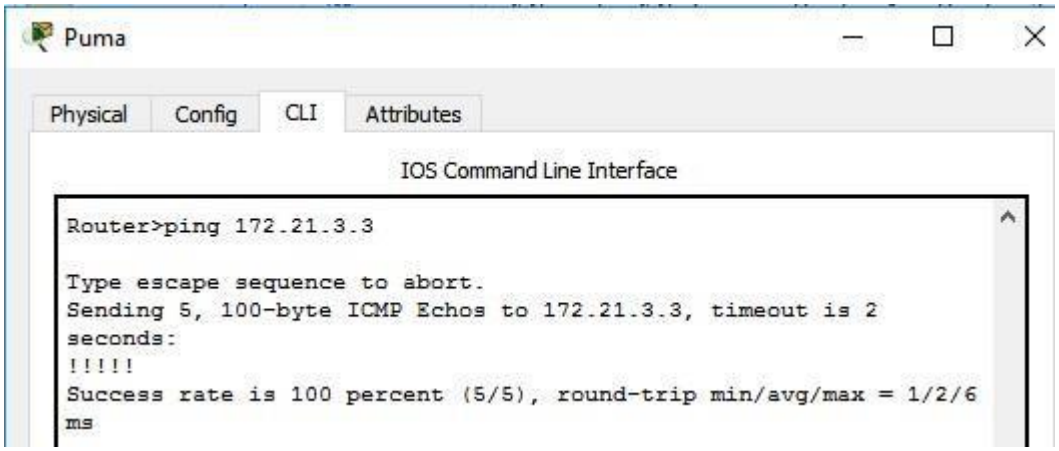
- **Ping dari router Eagle ke router Puma**



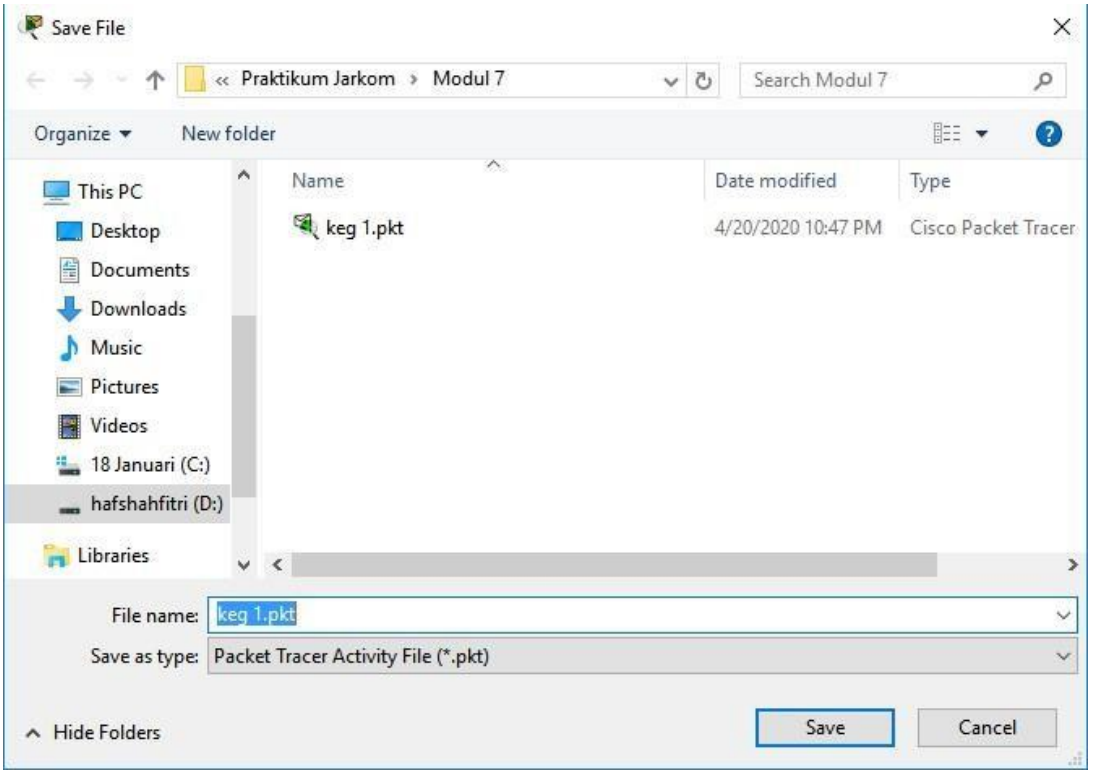
- **Ping dari router Eagle ke router Tiger**



- **Ping dari router Puma ke router Tiger**

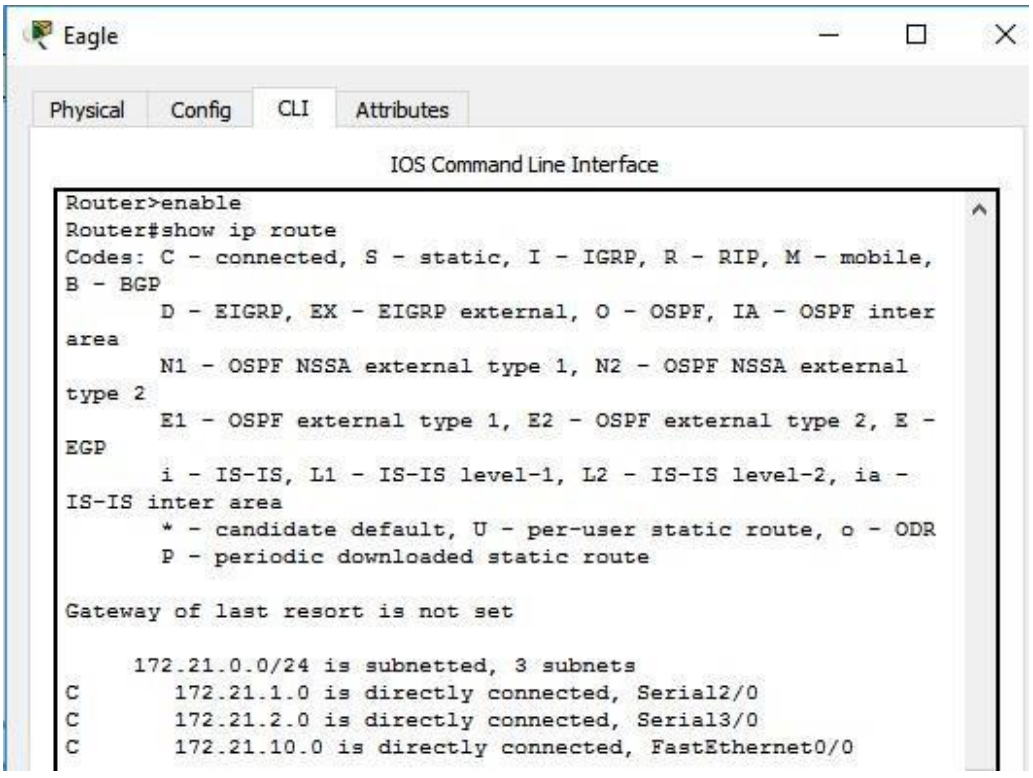


F. Simpan konfigurasi

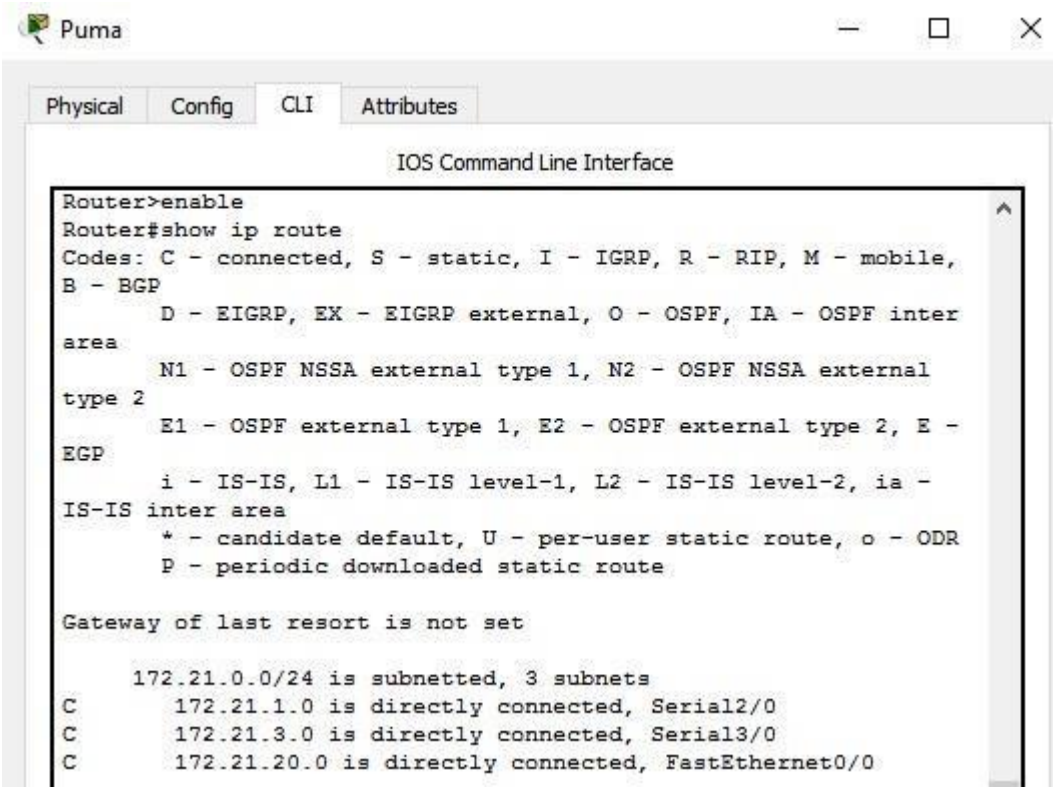


G. *Tugas 7A* . Melihat route table masing-masing router

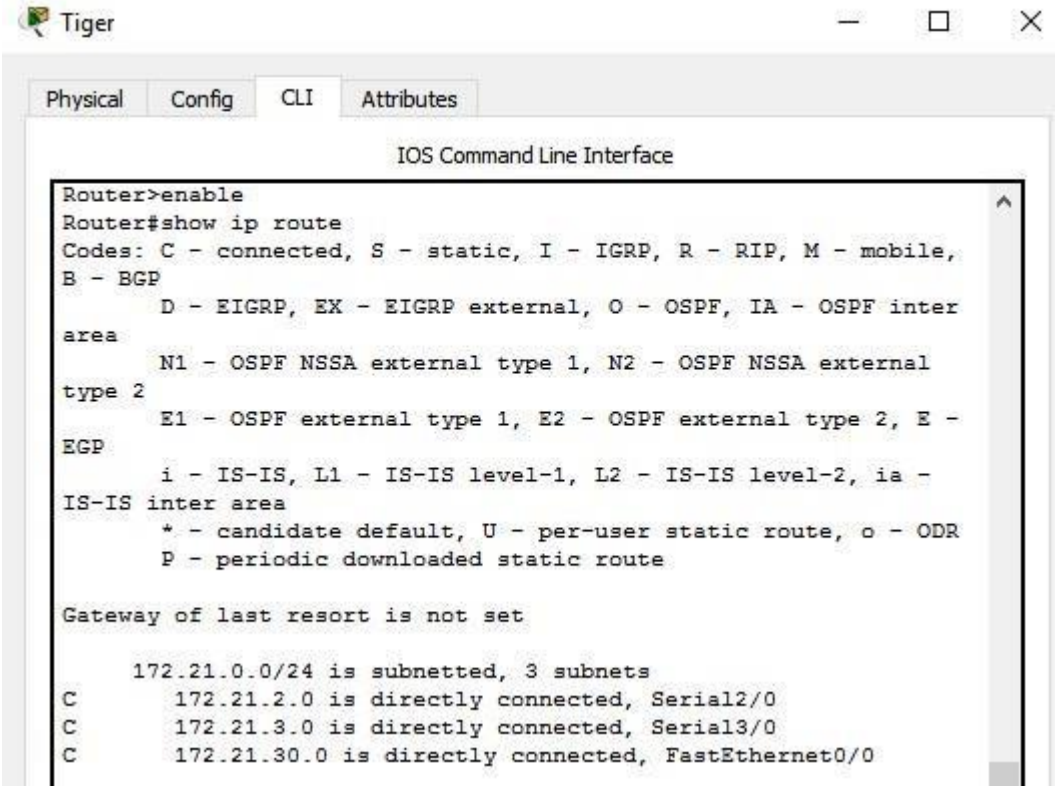
- **Eagle**



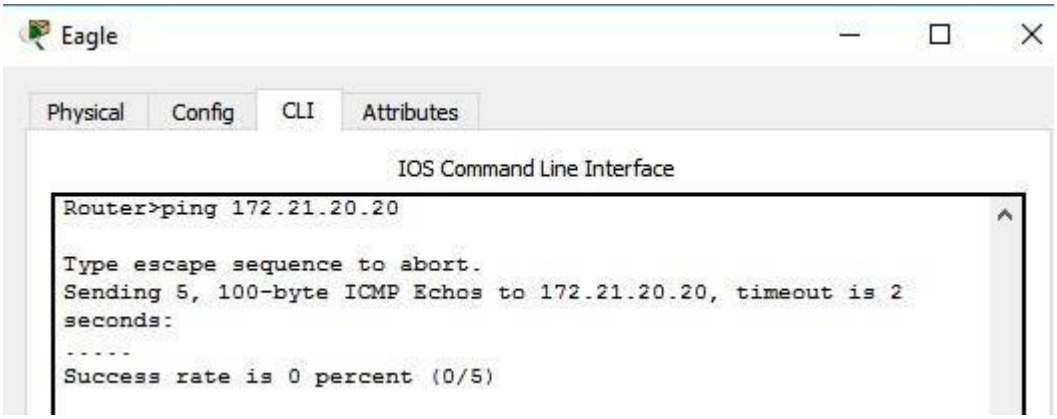
- **Puma**



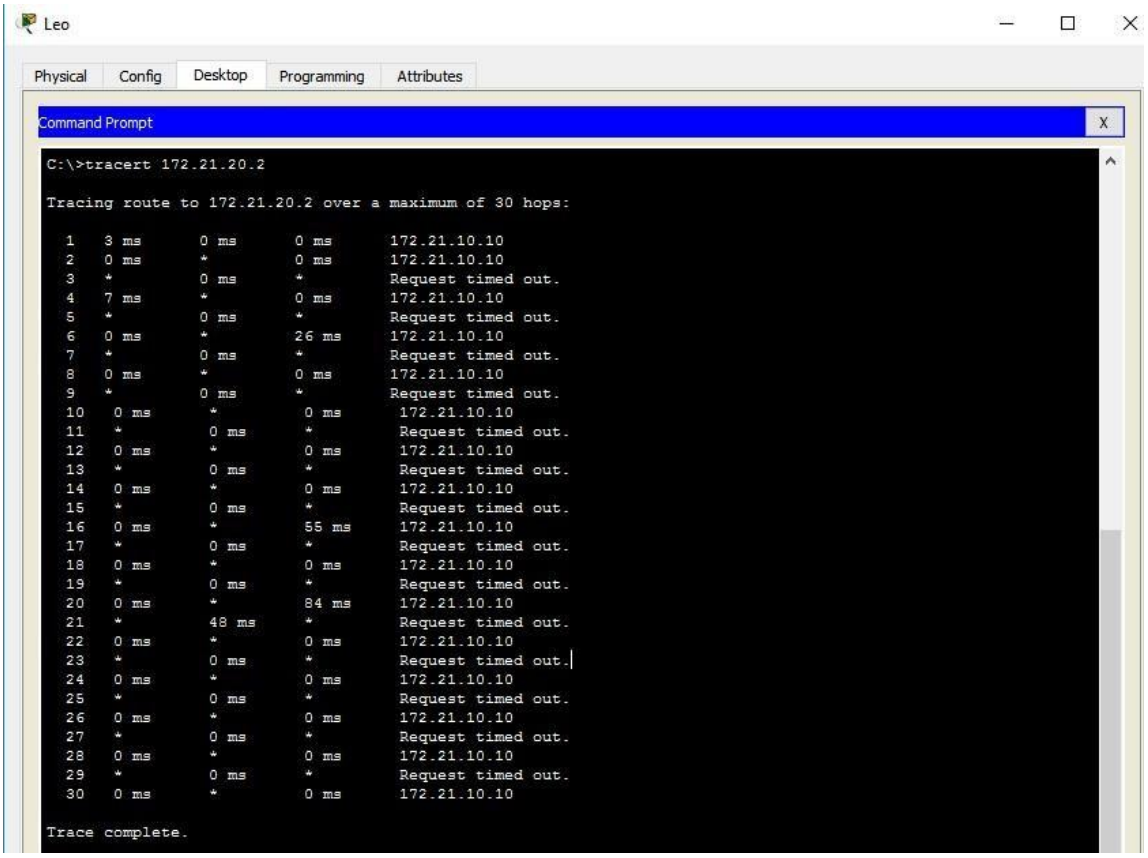
- **Tiger**



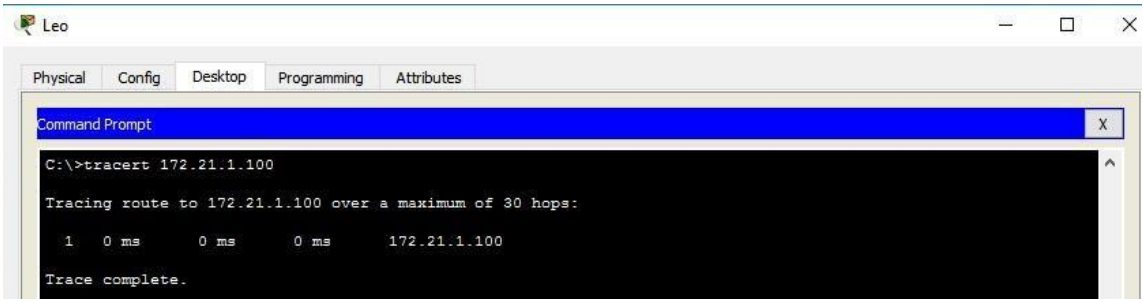
H. *Tugas 8A* . Ping dari Eagle ke interface e0 router Puma JELASIN



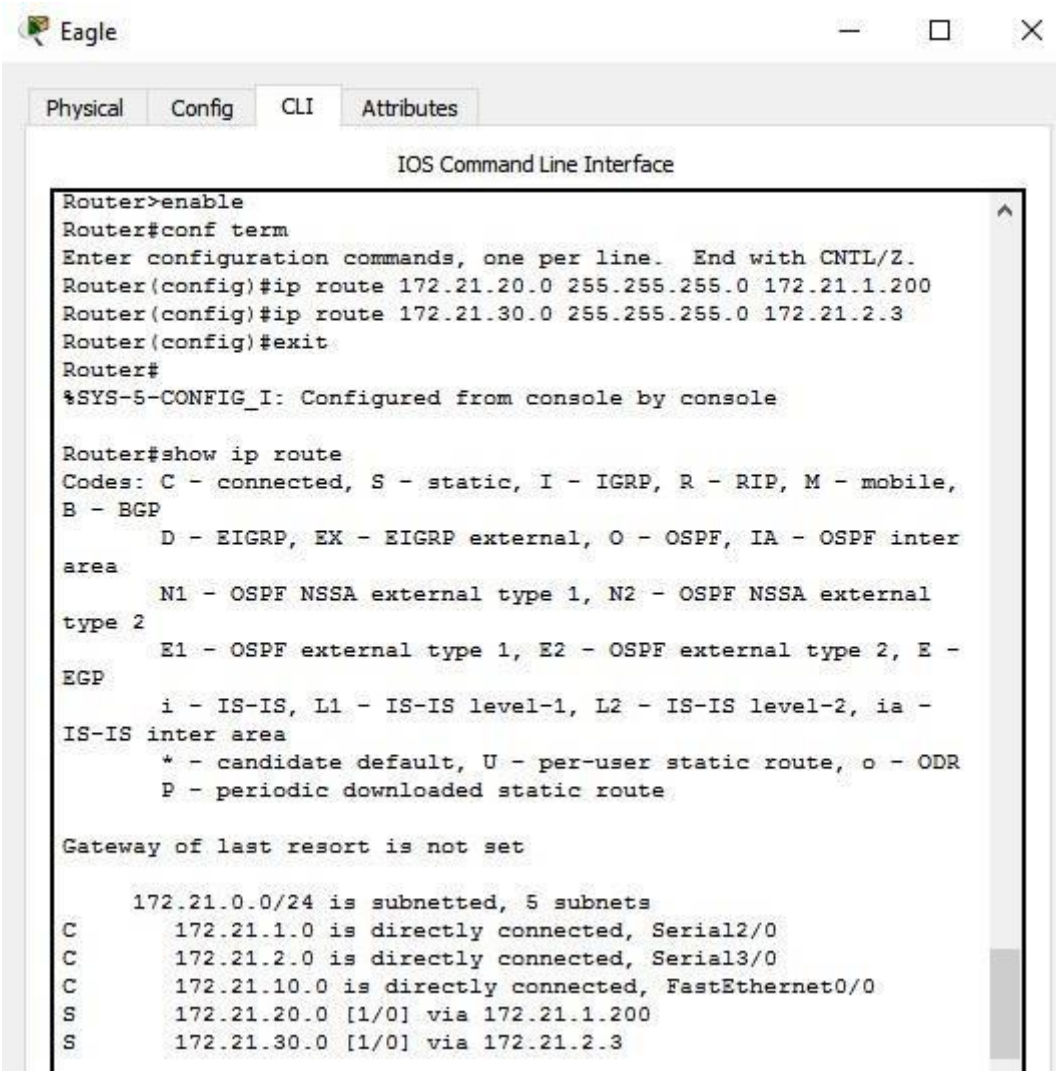
I. *Tugas 9A* . Trace PC Leo ke PC Aries JELASIN



J. Tugas 10A . Trace PC Leo ke interface s0 router Eagle JELASIN

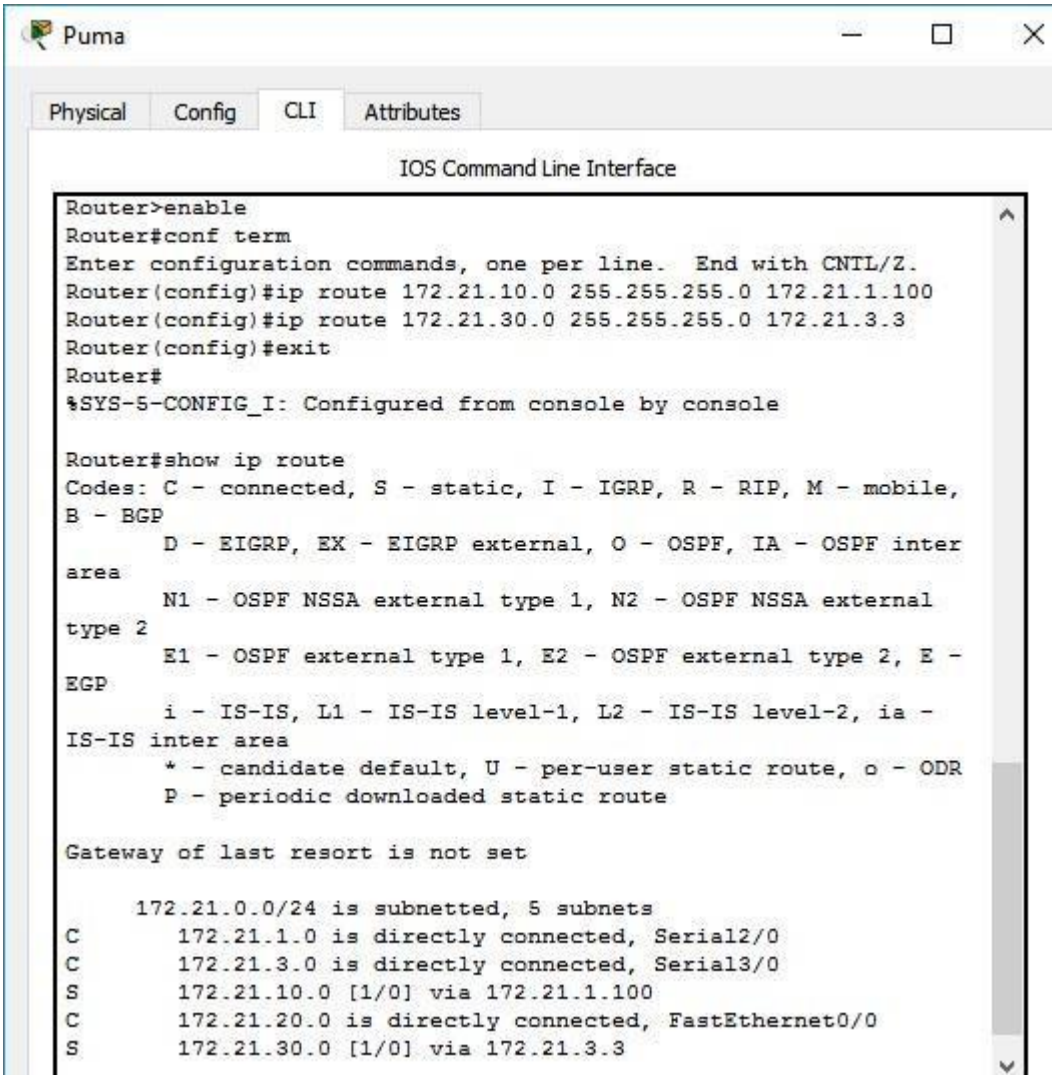


K. Route table untuk masing-masing router

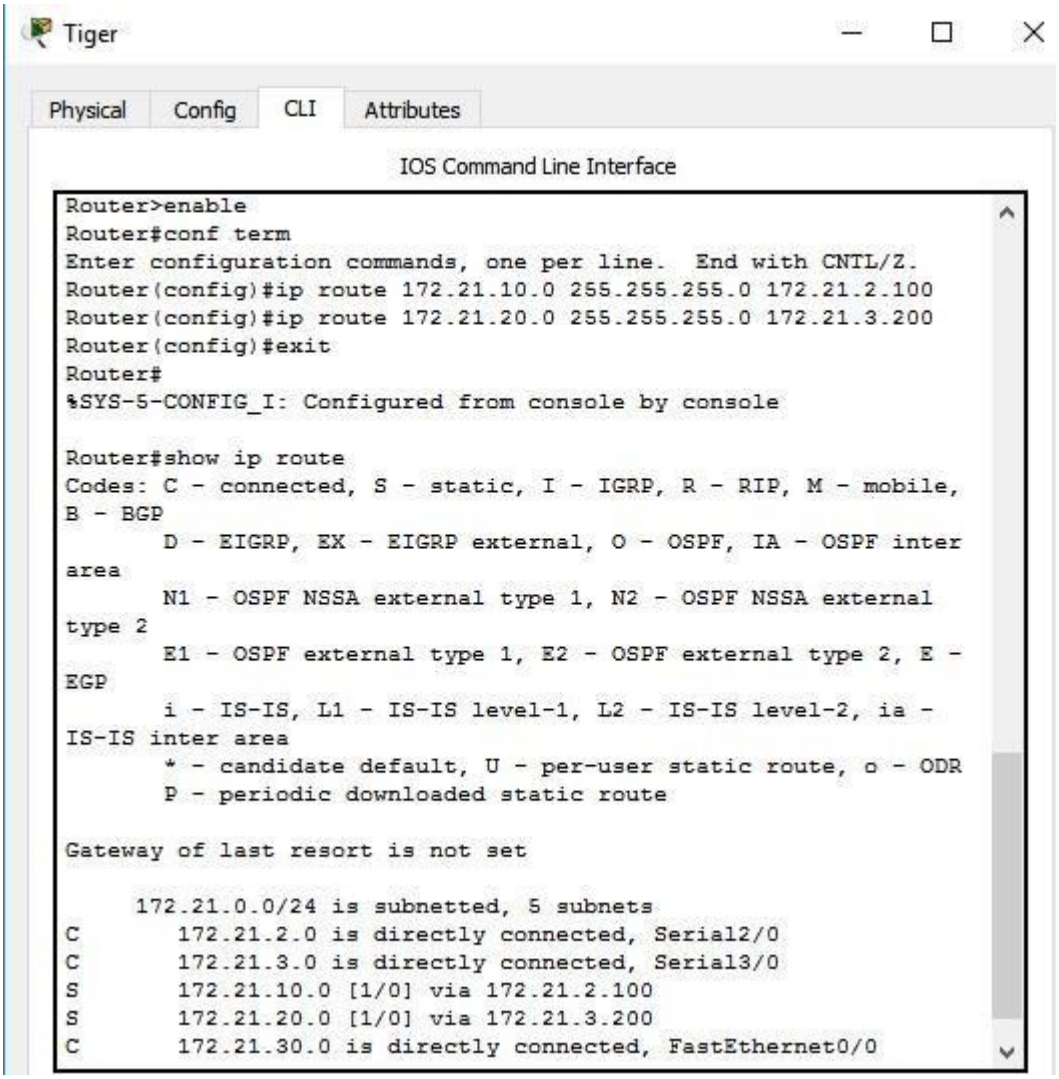


❖ Tugas 11A

- **Langkah penambahan route table pada router Puma**

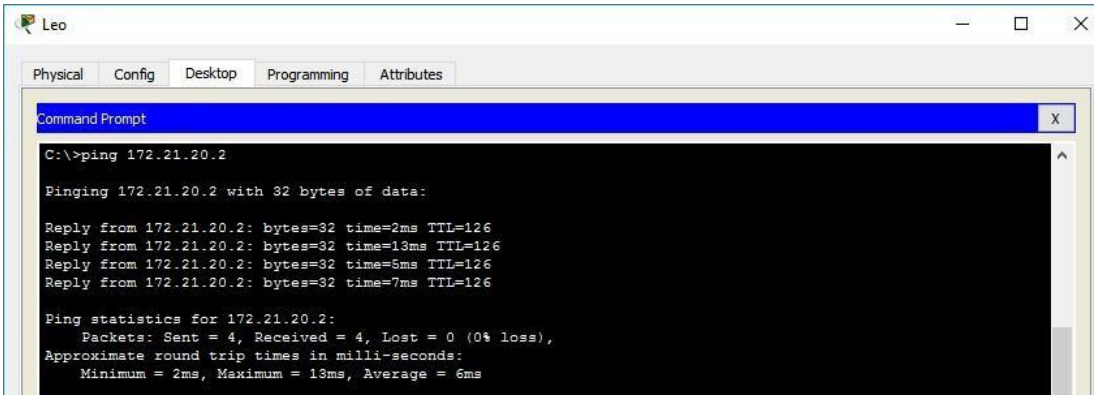


- **Langkah penambahan route table pada router Tiger**

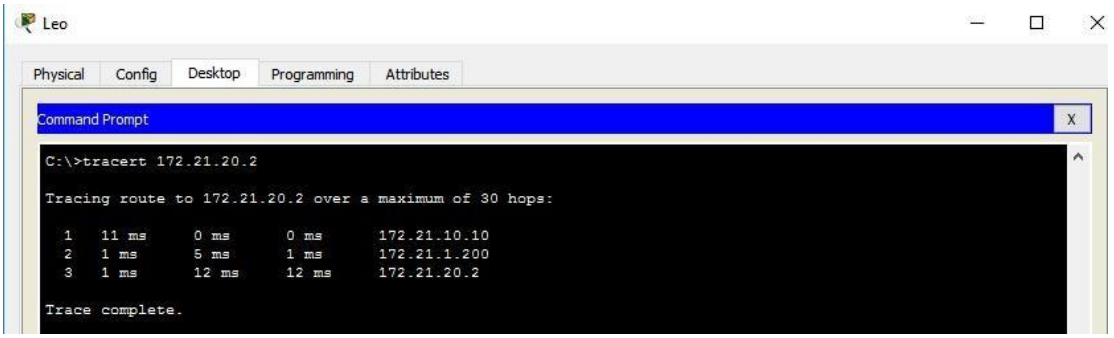


L. Tugas 12A .

- **Ping PC Leo ke PC Aries**

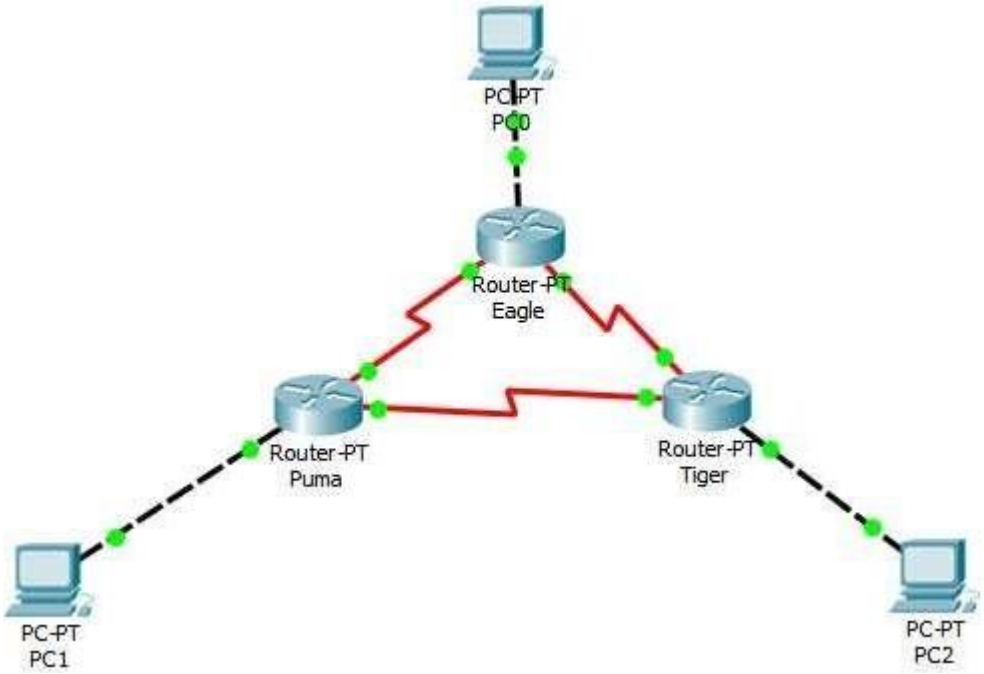


- **Trace PC Leo ke PC Aries JELASKAN**

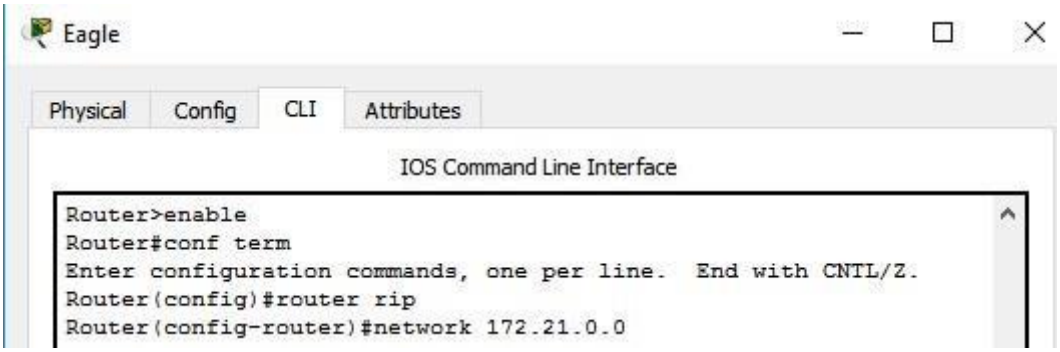


ACTIVITY 2

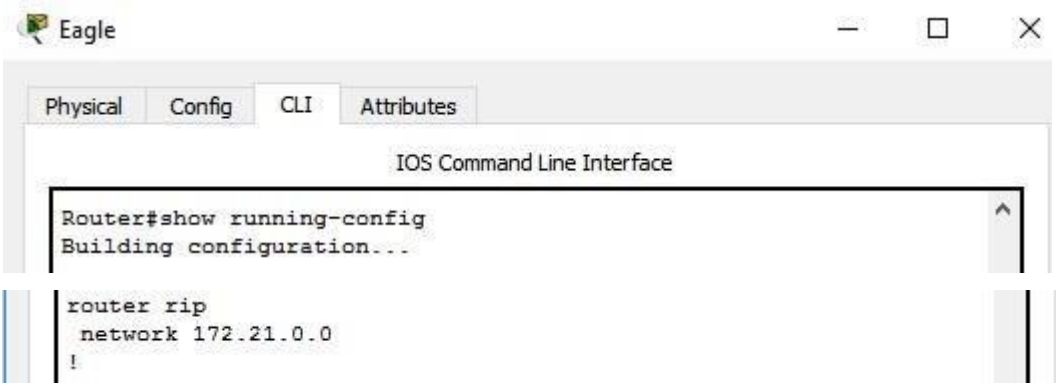
A. **Membuka topologi kegiatan 1**
B. **Load konfigurasi seluruh device yang disimpan pada langkah 6 kegiatan 1**



C. Konfigurasi routing RIP pada router Eagle



D. Melihat konfigurasi routing RIP

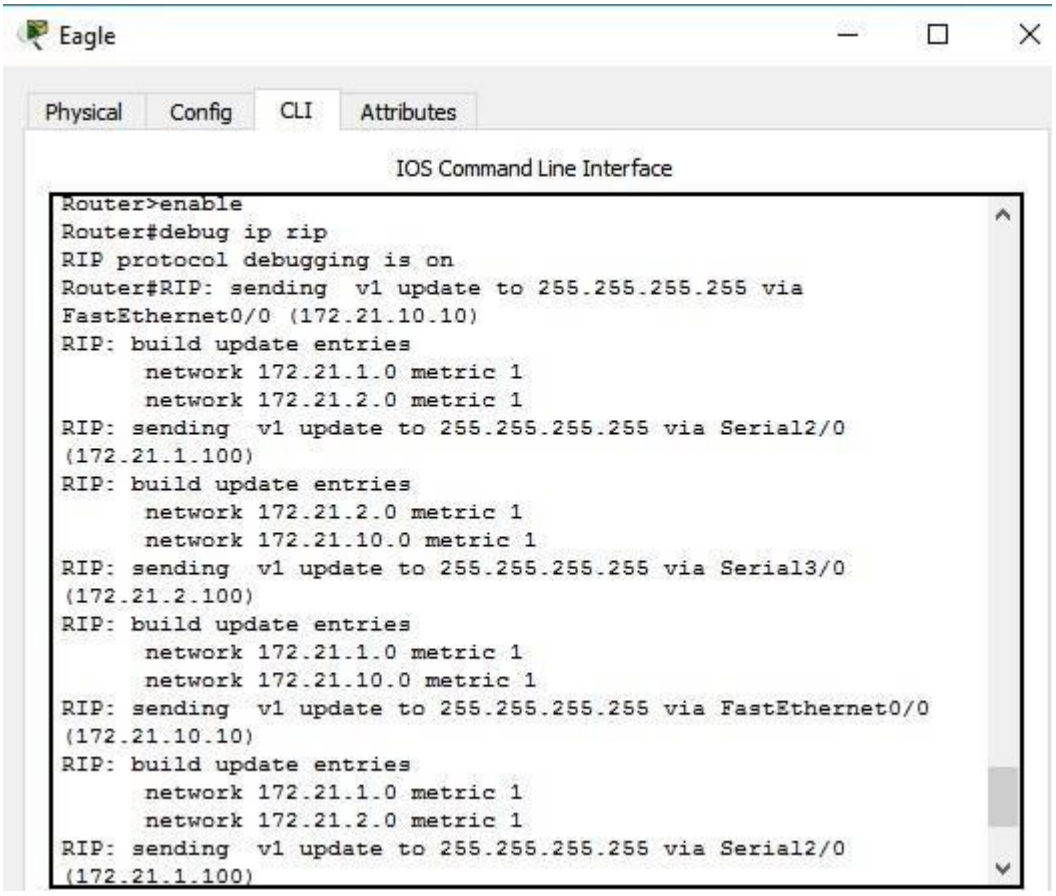


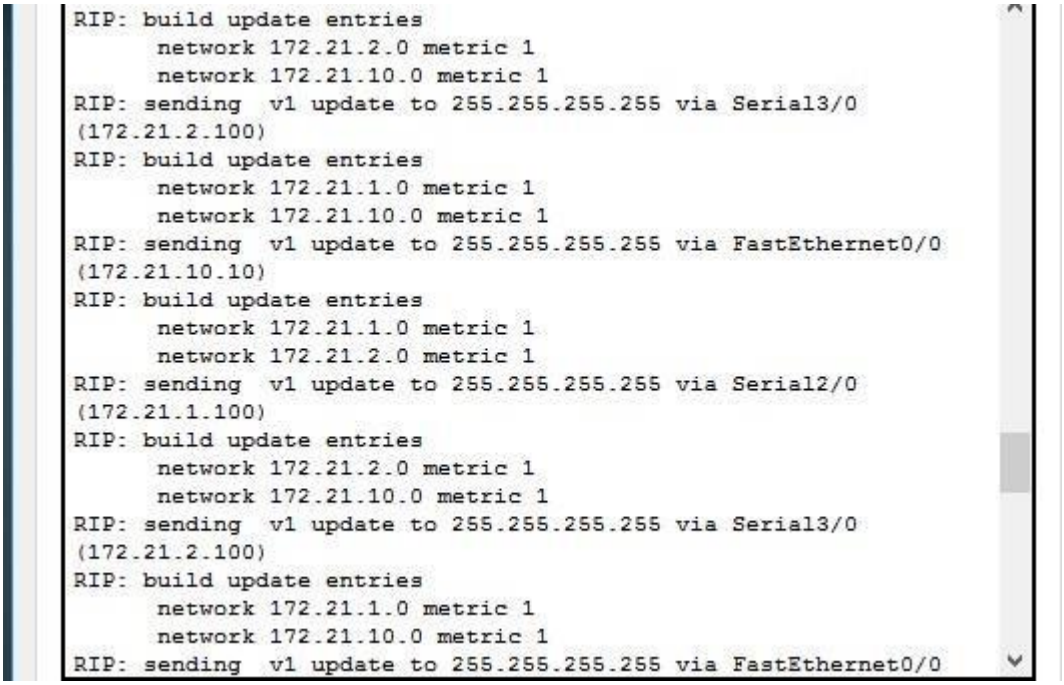
- ***Tugas 4A .*** Nomer alamat jaringan yang terdaftar pada konfigurasi routing RIP

  172.21.0.0

- ***Tugas 4B .*** Mengapa alamat jaringan yang terhubung dengan interface e0, s0, dan s1 tidak didaftarkan ke konfigurasi routing RIP **GATAU**

E. Proses update routing RIP



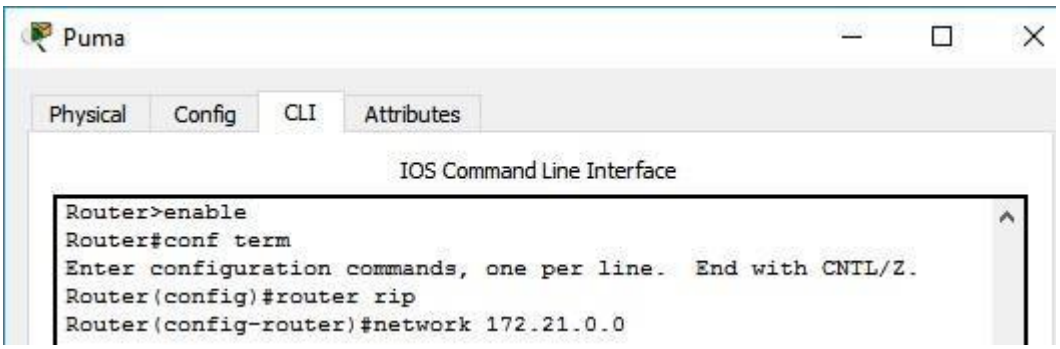


❖ ***Tugas 5A .*** Penjelasan singkat proses update routing RIP

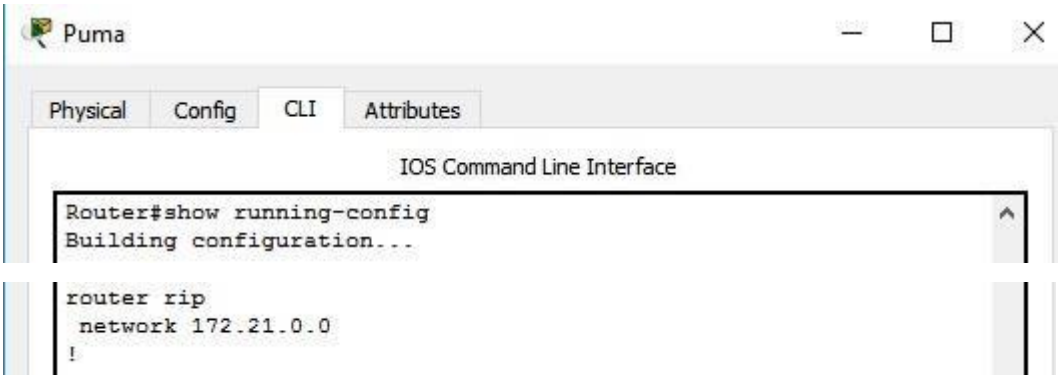
F. Konfigurasi routing RIP pada puma dan tiger

➢ **PUMA**

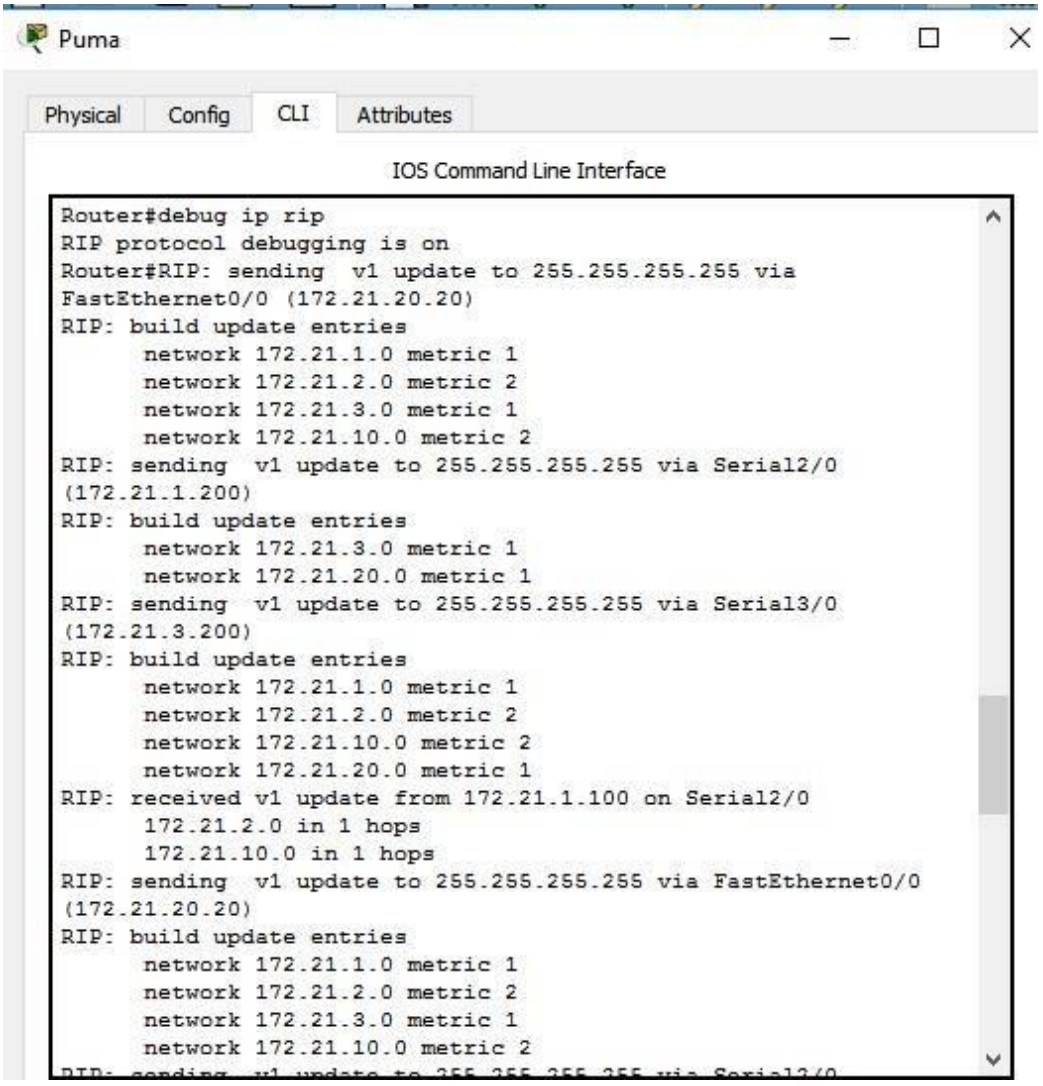
- Konfigurasi routing RIP



- Melihat konfigurasi routing RIP



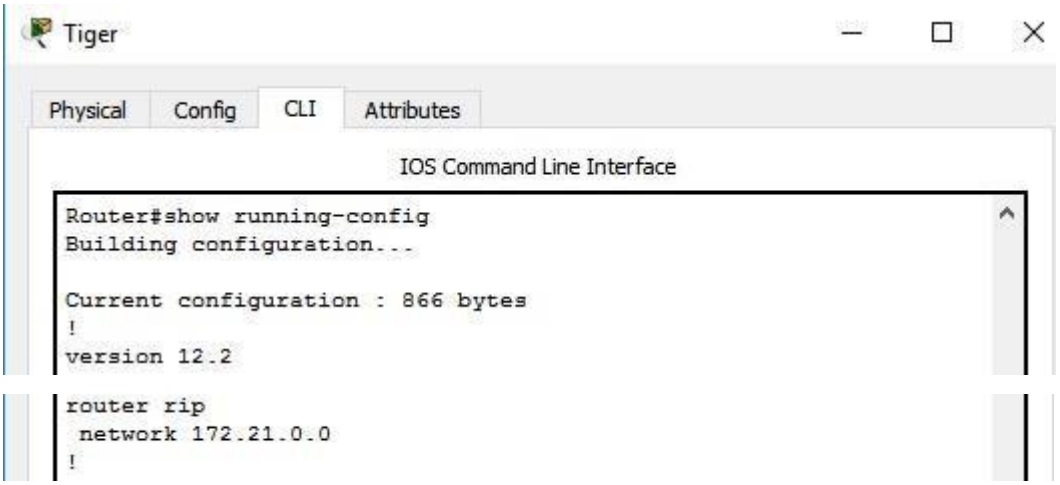
- Update routing RIP



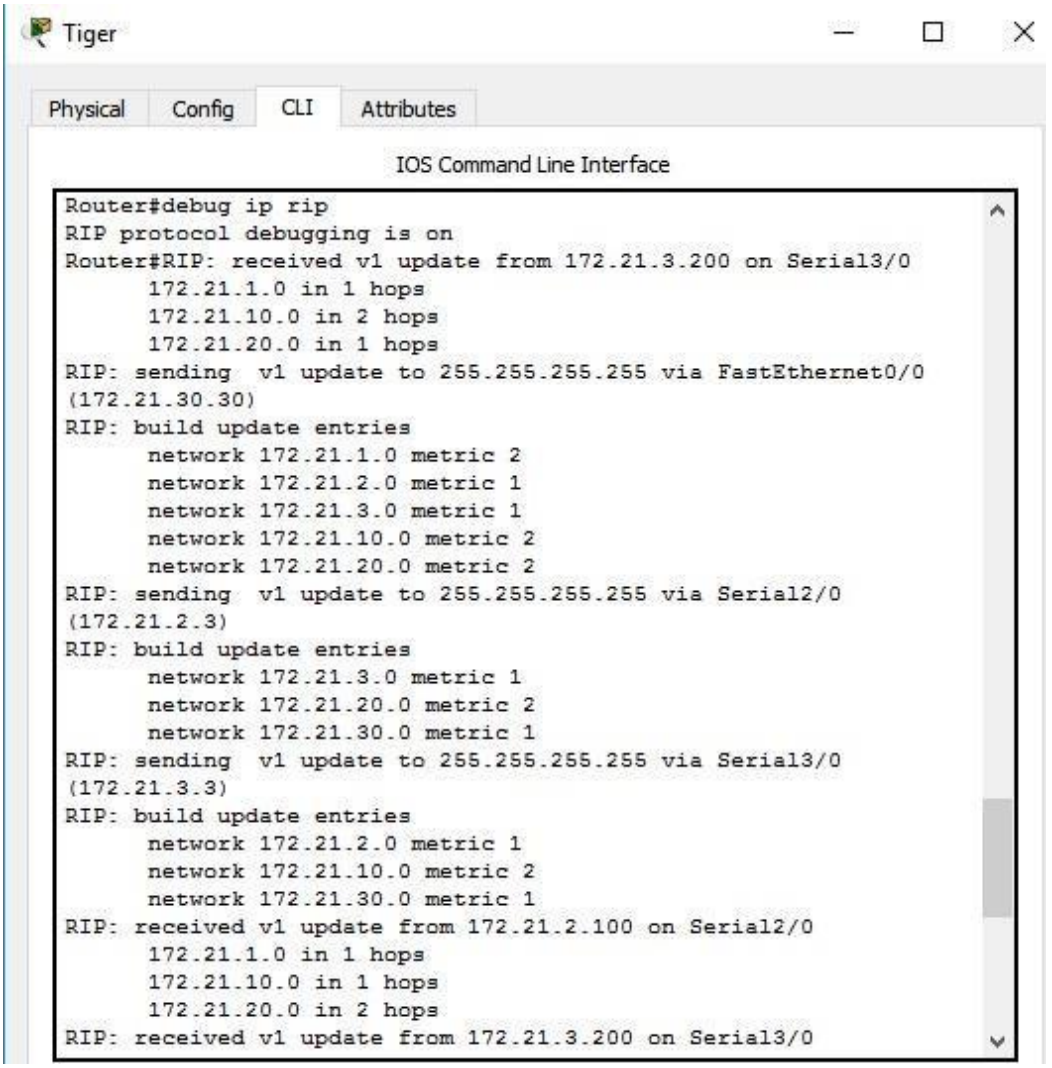
```
RIP: sending  v1 update to 255.255.255.255 via Serial3/0
(172.21.3.200)
RIP: build update entries
      network 172.21.1.0 metric 1
      network 172.21.2.0 metric 2
      network 172.21.10.0 metric 2
      network 172.21.20.0 metric 1
RIP: received v1 update from 172.21.1.100 on Serial2/0
      172.21.2.0 in 1 hops
      172.21.10.0 in 1 hops
RIP: sending  v1 update to 255.255.255.255 via FastEthernet0/0
(172.21.20.20)
RIP: build update entries
      network 172.21.1.0 metric 1
      network 172.21.2.0 metric 2
      network 172.21.3.0 metric 1
      network 172.21.10.0 metric 2
RIP: sending  v1 update to 255.255.255.255 via Serial2/0
(172.21.1.200)
RIP: build update entries
      network 172.21.3.0 metric 1
      network 172.21.20.0 metric 1
RIP: sending  v1 update to 255.255.255.255 via Serial3/0
(172.21.3.200)
RIP: build update entries
      network 172.21.1.0 metric 1
      network 172.21.2.0 metric 2
      network 172.21.10.0 metric 2
      network 172.21.20.0 metric 1
RIP: received v1 update from 172.21.1.100 on Serial2/0
      172.21.2.0 in 1 hops
      172.21.10.0 in 1 hops
```

- **TIGER**
  - Konfigurasi routing RIP

  - Melihat konfigurasi routing RIP

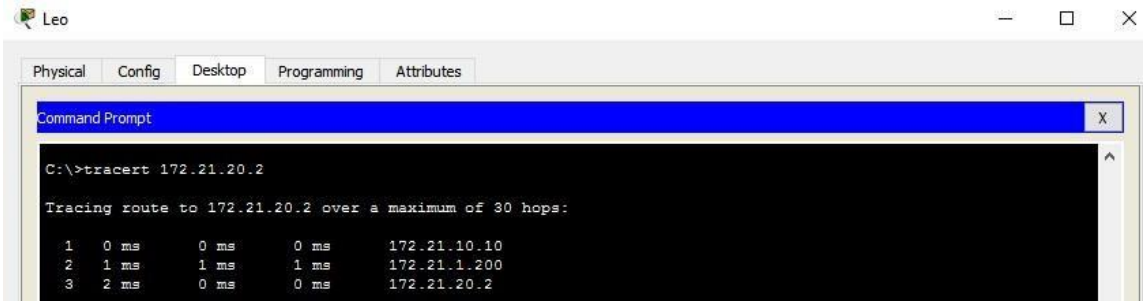


- Update routing RIP

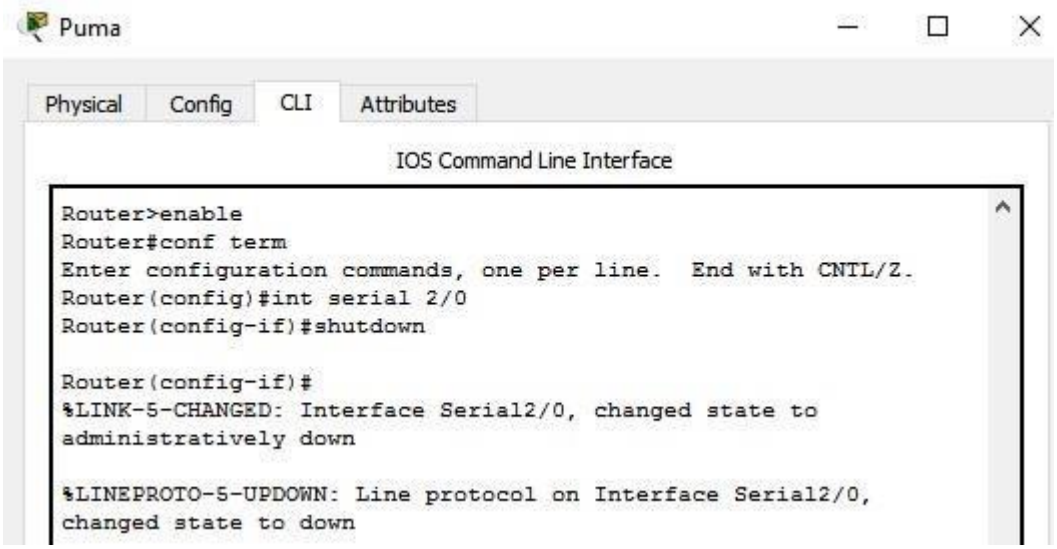


```
RIP: sending  v1 update to 255.255.255.255 via Serial3/0
(172.21.3.3)
RIP: build update entries
      network 172.21.2.0 metric 1
      network 172.21.10.0 metric 2
      network 172.21.30.0 metric 1
RIP: received v1 update from 172.21.2.100 on Serial2/0
      172.21.1.0 in 1 hops
      172.21.10.0 in 1 hops
      172.21.20.0 in 2 hops
RIP: received v1 update from 172.21.3.200 on Serial3/0
      172.21.1.0 in 1 hops
      172.21.10.0 in 2 hops
      172.21.20.0 in 1 hops
RIP: sending  v1 update to 255.255.255.255 via FastEthernet0/0
(172.21.30.30)
RIP: build update entries
      network 172.21.1.0 metric 2
      network 172.21.2.0 metric 1
      network 172.21.3.0 metric 1
      network 172.21.10.0 metric 2
      network 172.21.20.0 metric 2
RIP: sending  v1 update to 255.255.255.255 via Serial2/0
(172.21.2.3)
RIP: build update entries
      network 172.21.3.0 metric 1
      network 172.21.20.0 metric 2
      network 172.21.30.0 metric 1
RIP: sending  v1 update to 255.255.255.255 via Serial3/0
(172.21.3.3)
RIP: build update entries
```

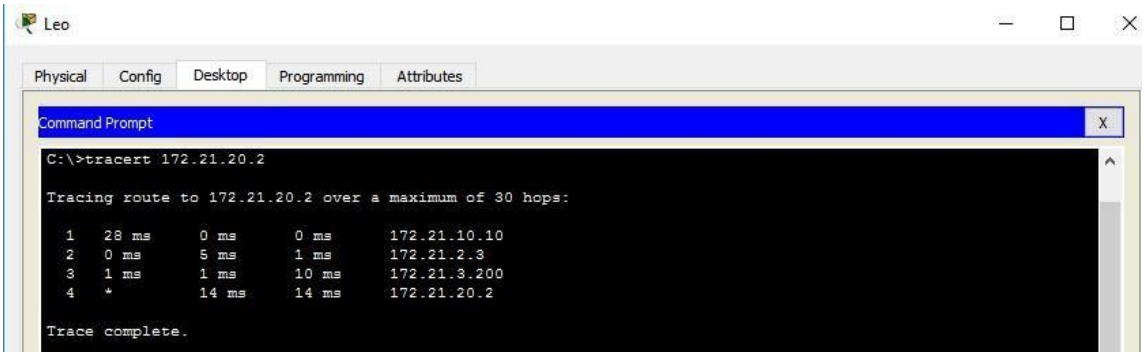
G. Tracert PC Leo ke PC Aries



H. Memutus hubungan antara router Eagle dan Puma



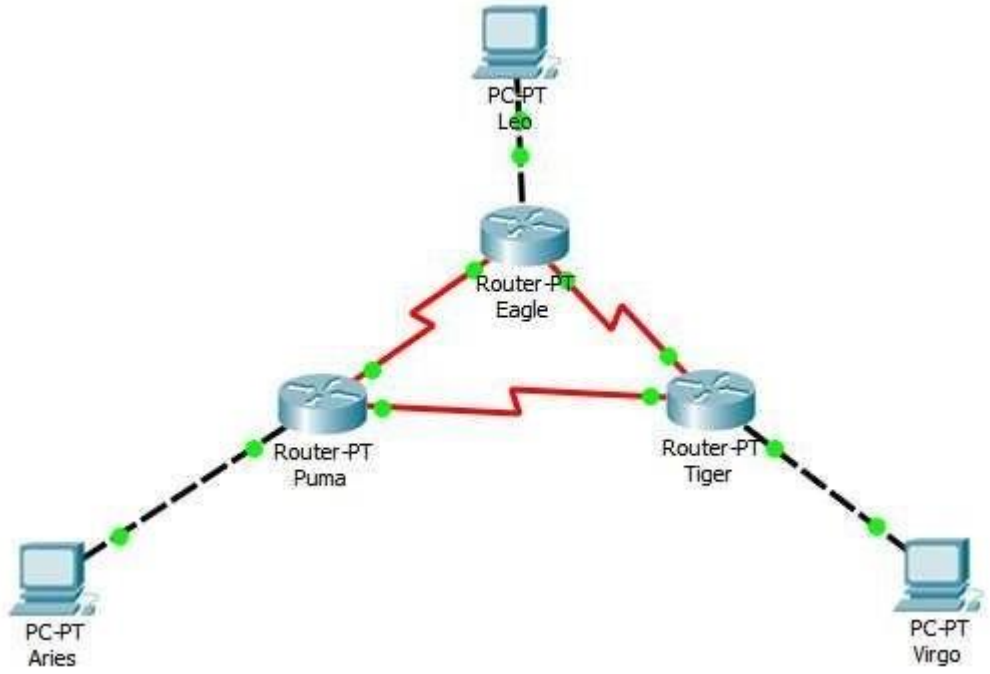
I. Tracert PC Leo ke PC Aries



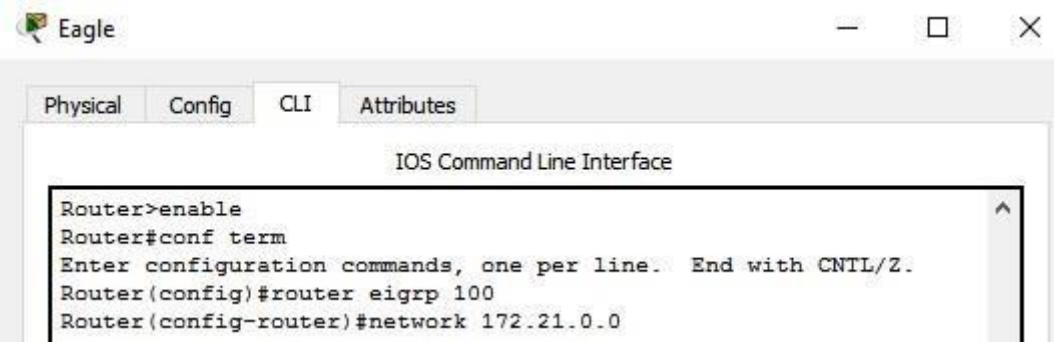
ACTIVITY 3

A. Membuka topologi kegiatan 1

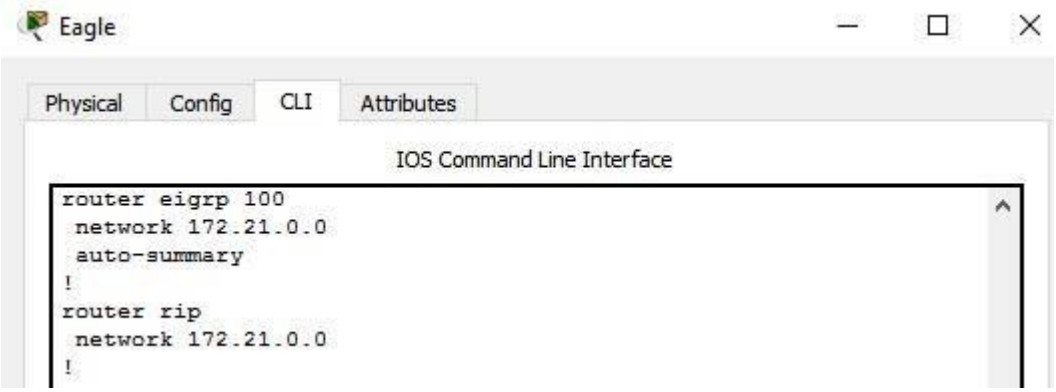
B. Load konfigurasi seluruh device yang disimpan pada langkah 6 kegiatan 1



C. Konfigurasi routing RIP pada router eagle



D. Melihat konfigurasi routing RIP



E. Melihat transaksi routing IGRP

F. Gatau

G. Routing IGRP pada router Puma dan Tiger

- **<u>PUMA</u>**

- **Konfigurasi routing RIP**
- **Melihat konfigurasi routing RIP**
- **Melihat transaksi routing IGRP**

➢ **TIGER**

- **Konfigurasi routing RIP**
- **Melihat konfigurasi routing RIP**
- **Melihat transaksi routing IGRP**

H. Trace PC Leo ke PC Aries

I. Memutus hubungan antara router Eagle dan Puma

J. Trace PC Leo ke PC Aries