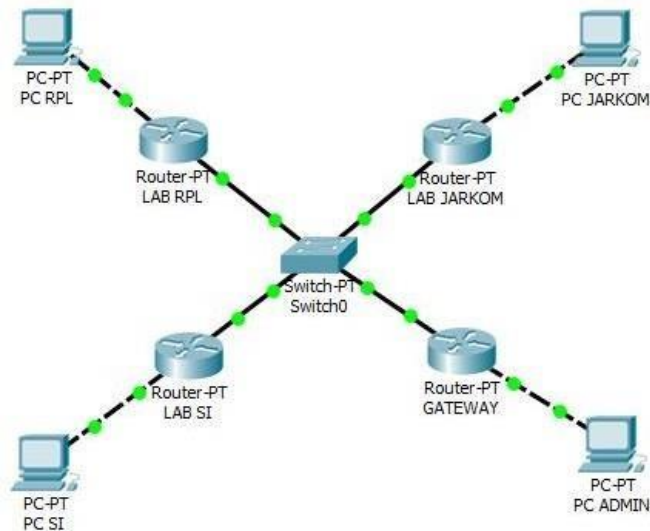


Nama : Yuda Dwi Nurcahyo  
Kelas : C  
NIM : L200170126

## NOMOR 1

### 1. Desain jaringan



### 2. Konfigurasi Router Jarkom

```
LAB JARKOM
Physical Config CLI Attributes
IOS Command Line Interface
Router>enable
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int fa 0/0
Router(config-if)#ip address 172.16.0.1 255.255.255.0
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 172.15.0.1 255.255.255.0
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

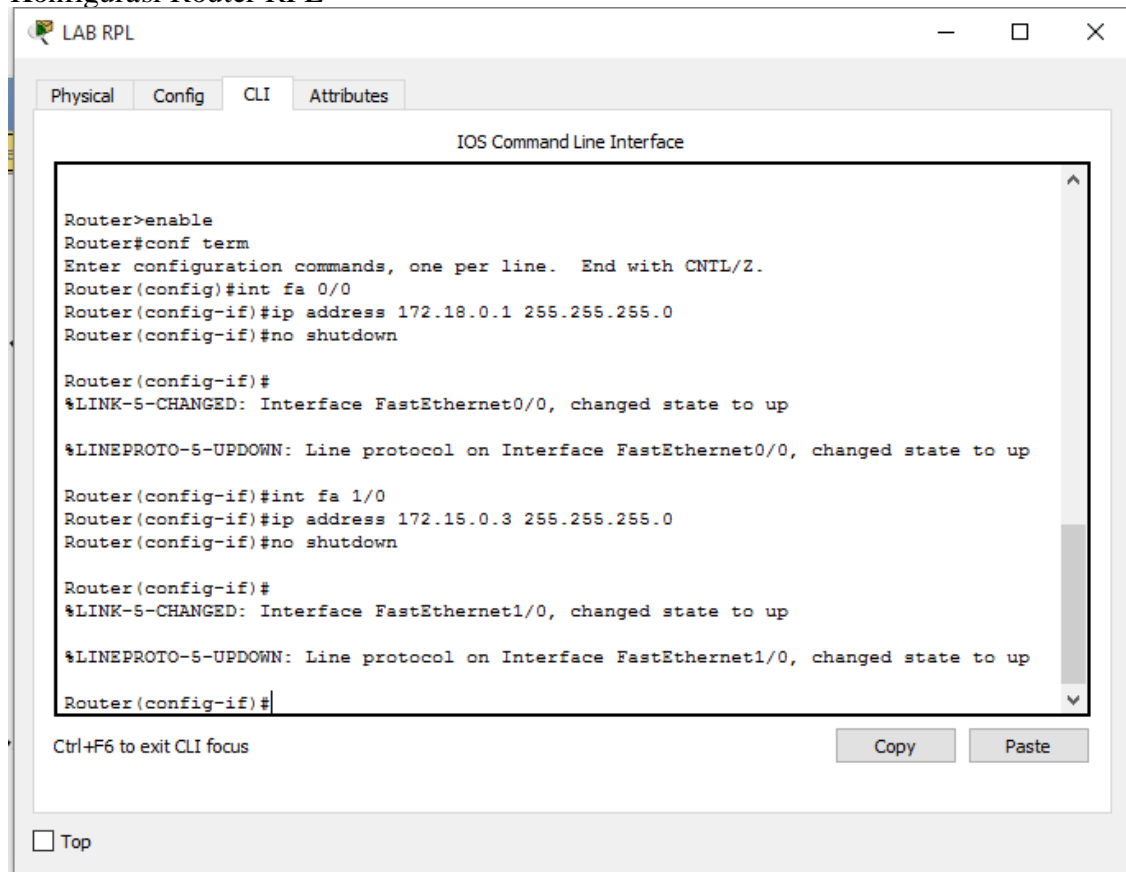
Router(config-if)#exit
Router(config)#hostname jarkom
jarkom(config)#
```

Ctrl+F6 to exit CLI focus

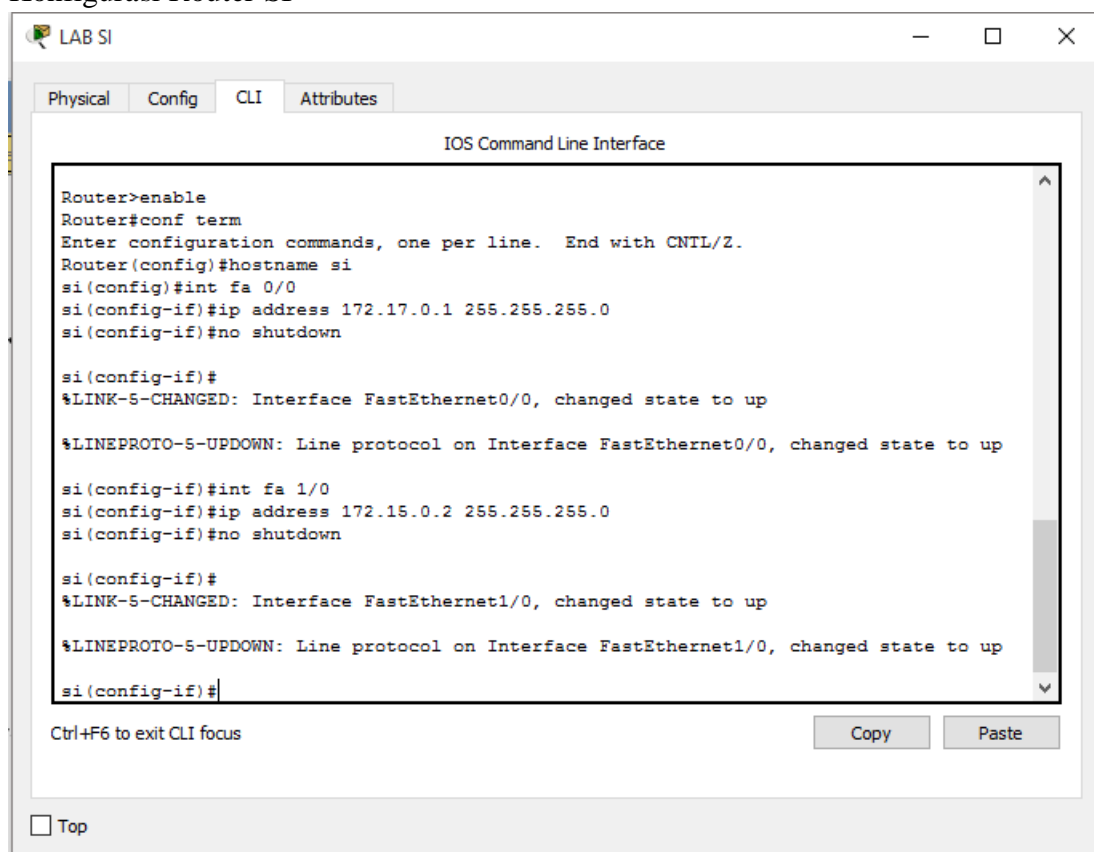
Copy Paste

☐ Top

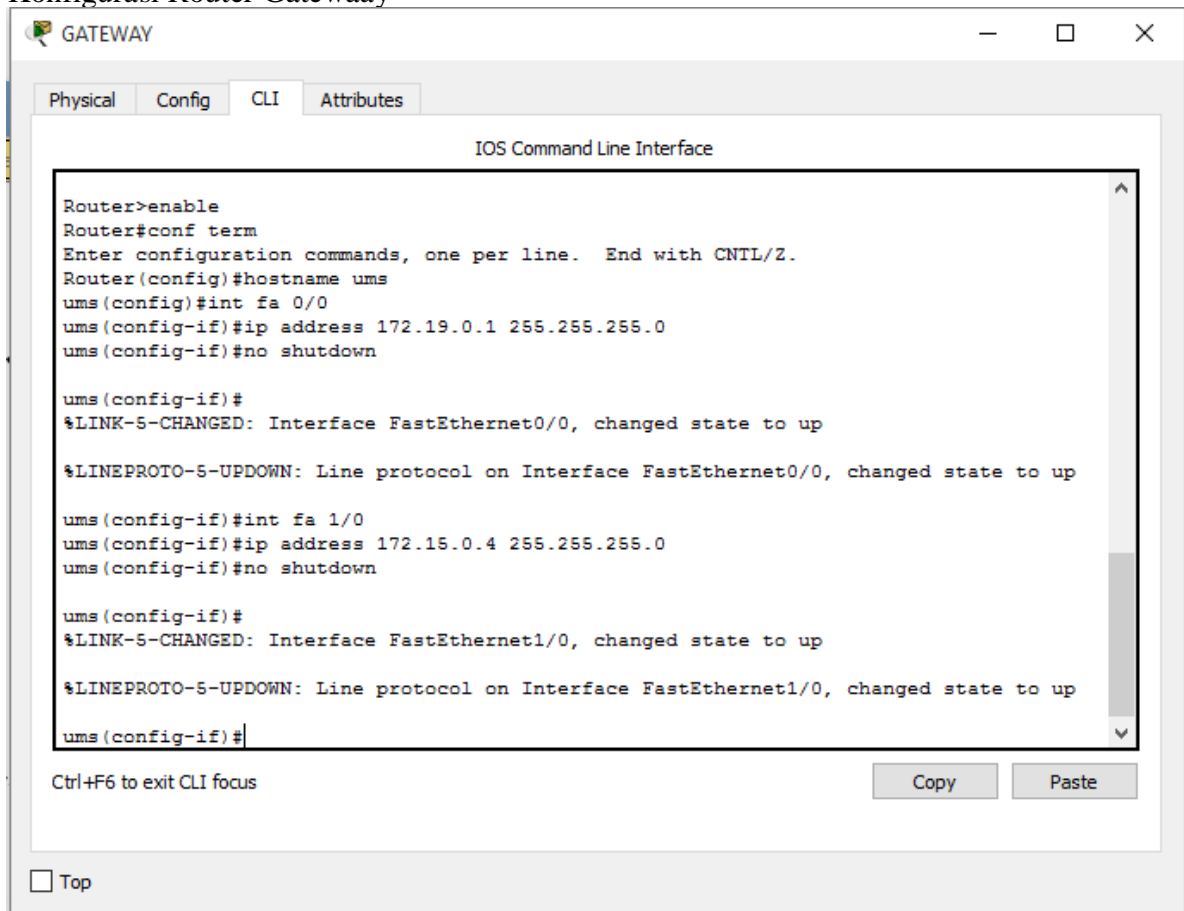
### 3. Konfigurasi Router RPL



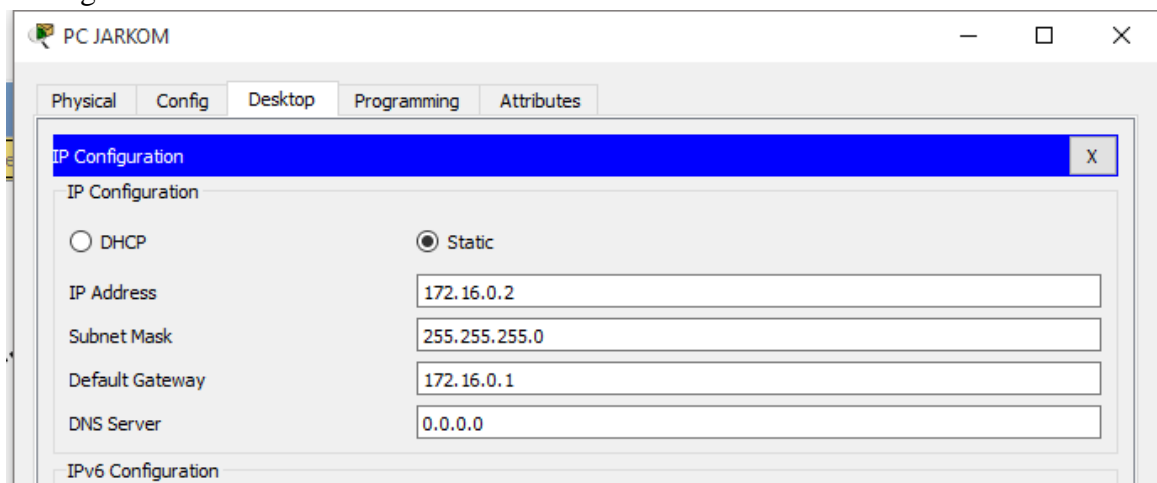
### 4. Konfigurasi Router SI



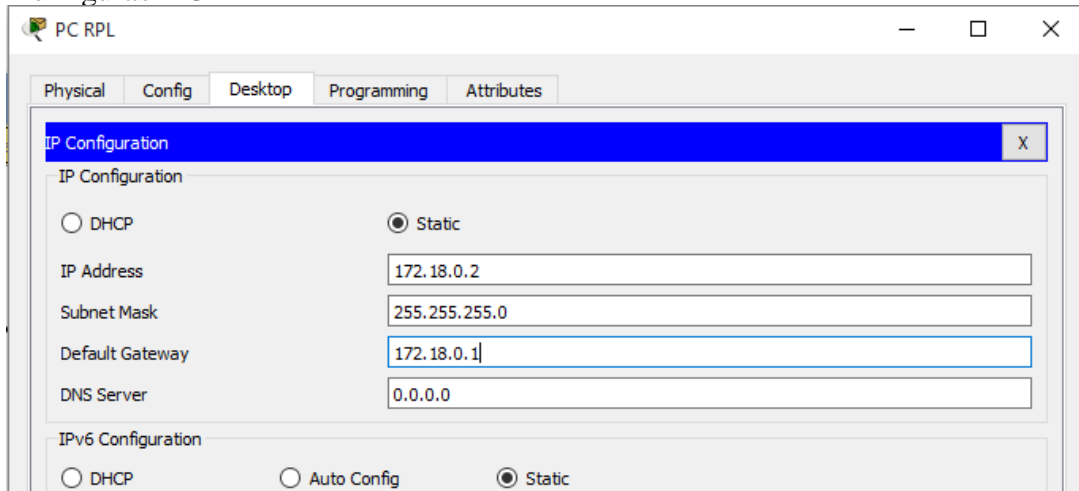
## 5. Konfigurasi Router Gateway



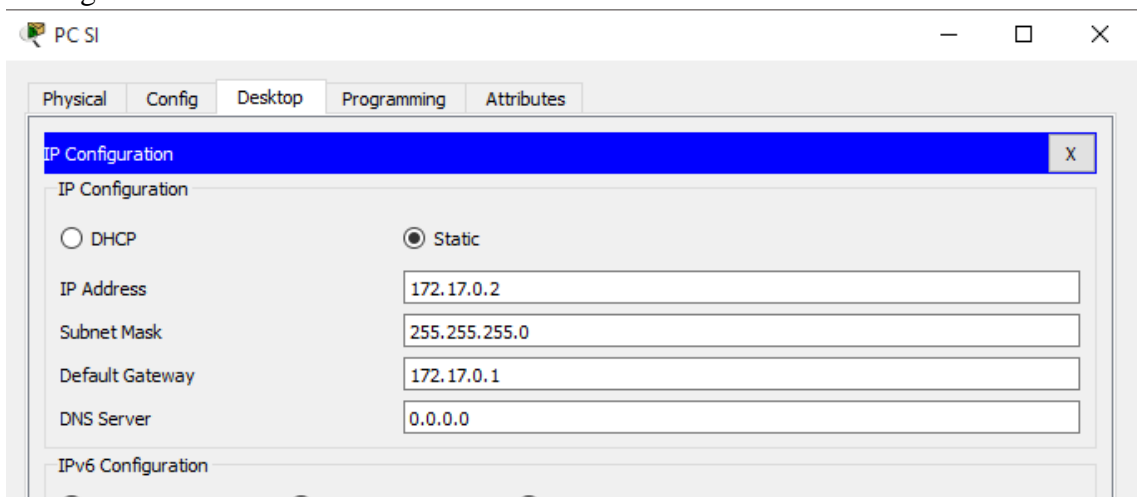
## 6. Konfigurasi PC Jarkom



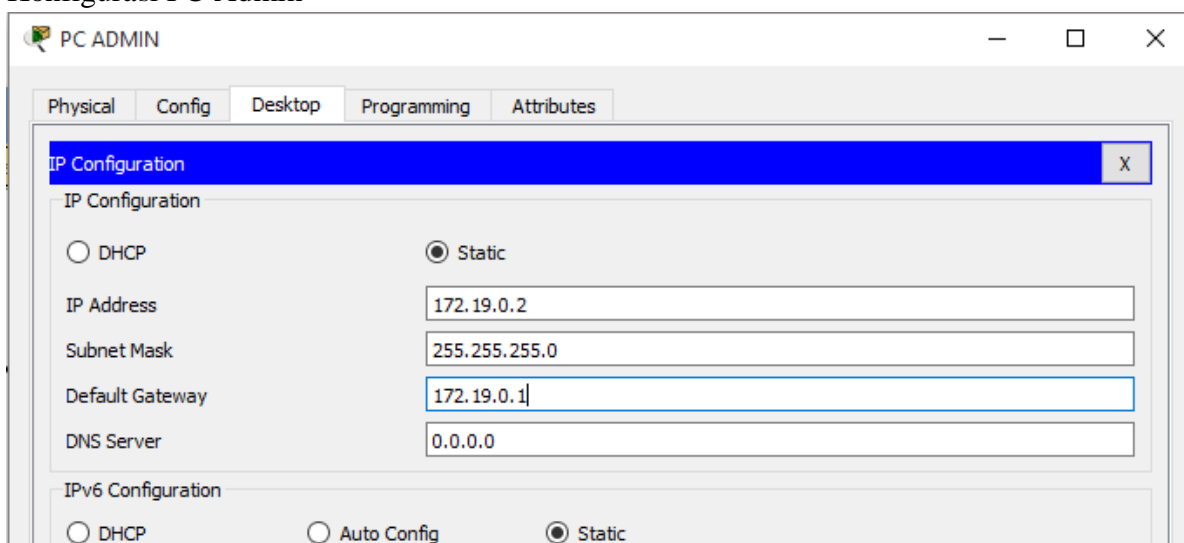
## 7. Konfigurasi PC RPL



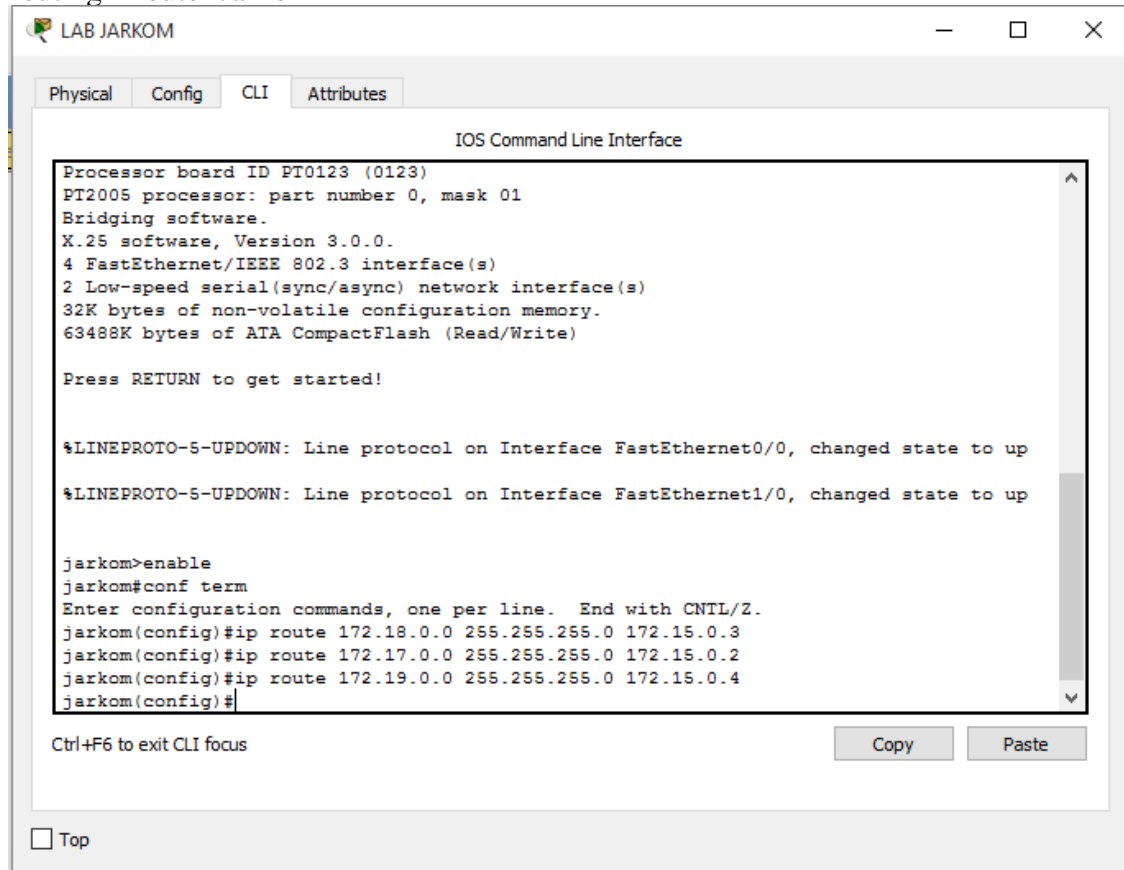
## 8. Konfigurasi PC SI



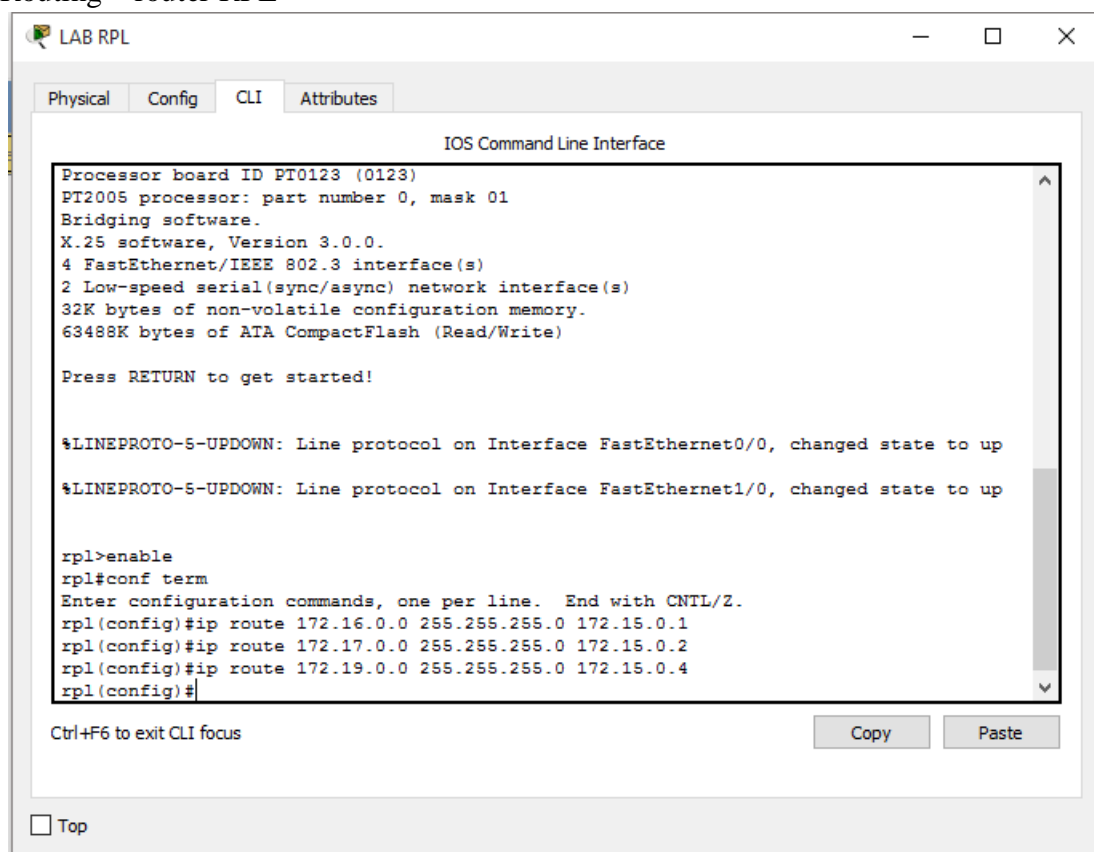
## 9. Konfigurasi PC Admin



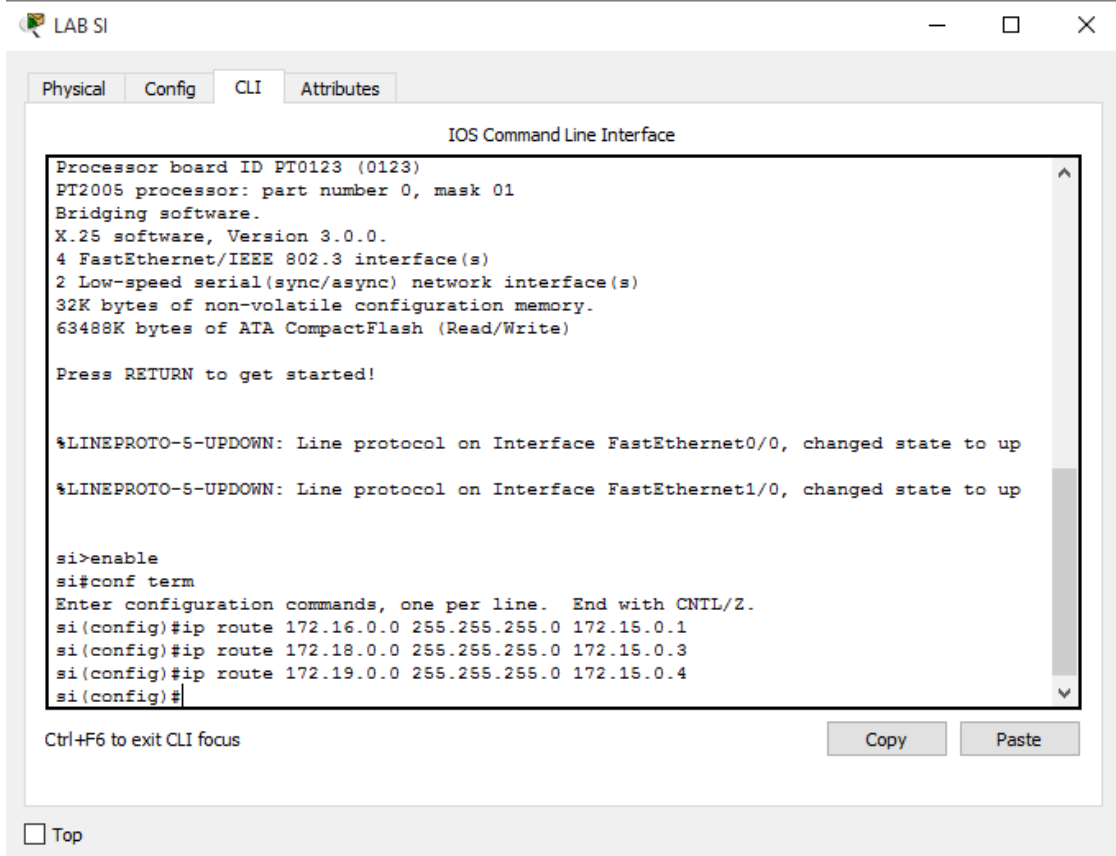
## 10. Routing – router Jarkom



## 11. Routing – router RPL



## 12. Routing – router SI



The screenshot shows a window titled "LAB SI" with tabs for Physical, Config, CLI, and Attributes. The CLI tab is active, displaying the "IOS Command Line Interface". The text in the CLI window is as follows:

```
Processor board ID PT0123 (0123)
PT2005 processor: part number 0, mask 01
Bridging software.
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)

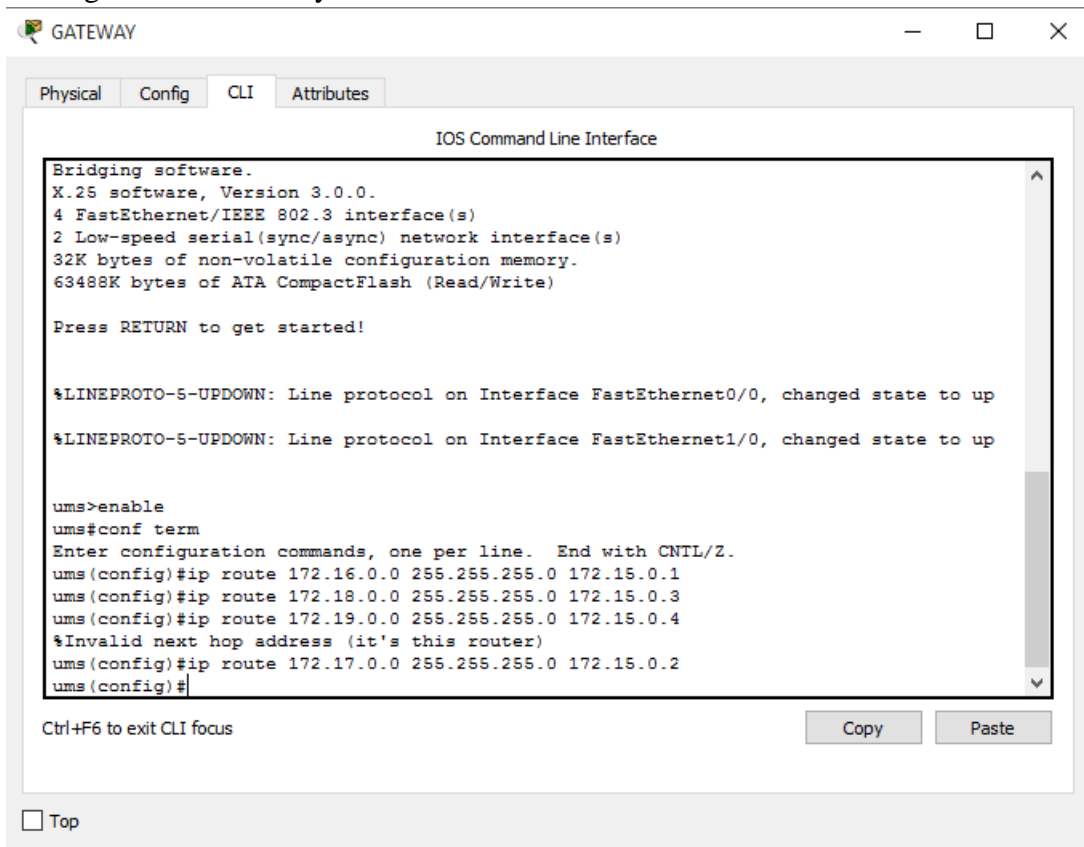
Press RETURN to get started!

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed state to up

si>enable
si#conf term
Enter configuration commands, one per line. End with CNTL/Z.
si(config)#ip route 172.16.0.0 255.255.255.0 172.15.0.1
si(config)#ip route 172.18.0.0 255.255.255.0 172.15.0.3
si(config)#ip route 172.19.0.0 255.255.255.0 172.15.0.4
si(config)#
```

Below the CLI window, there is a "Ctrl+F6 to exit CLI focus" label and "Copy" and "Paste" buttons. At the bottom left, there is a "Top" button.

## 13. Routing – router Gateway



The screenshot shows a window titled "GATEWAY" with tabs for Physical, Config, CLI, and Attributes. The CLI tab is active, displaying the "IOS Command Line Interface". The text in the CLI window is as follows:

```
Bridging software.
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)

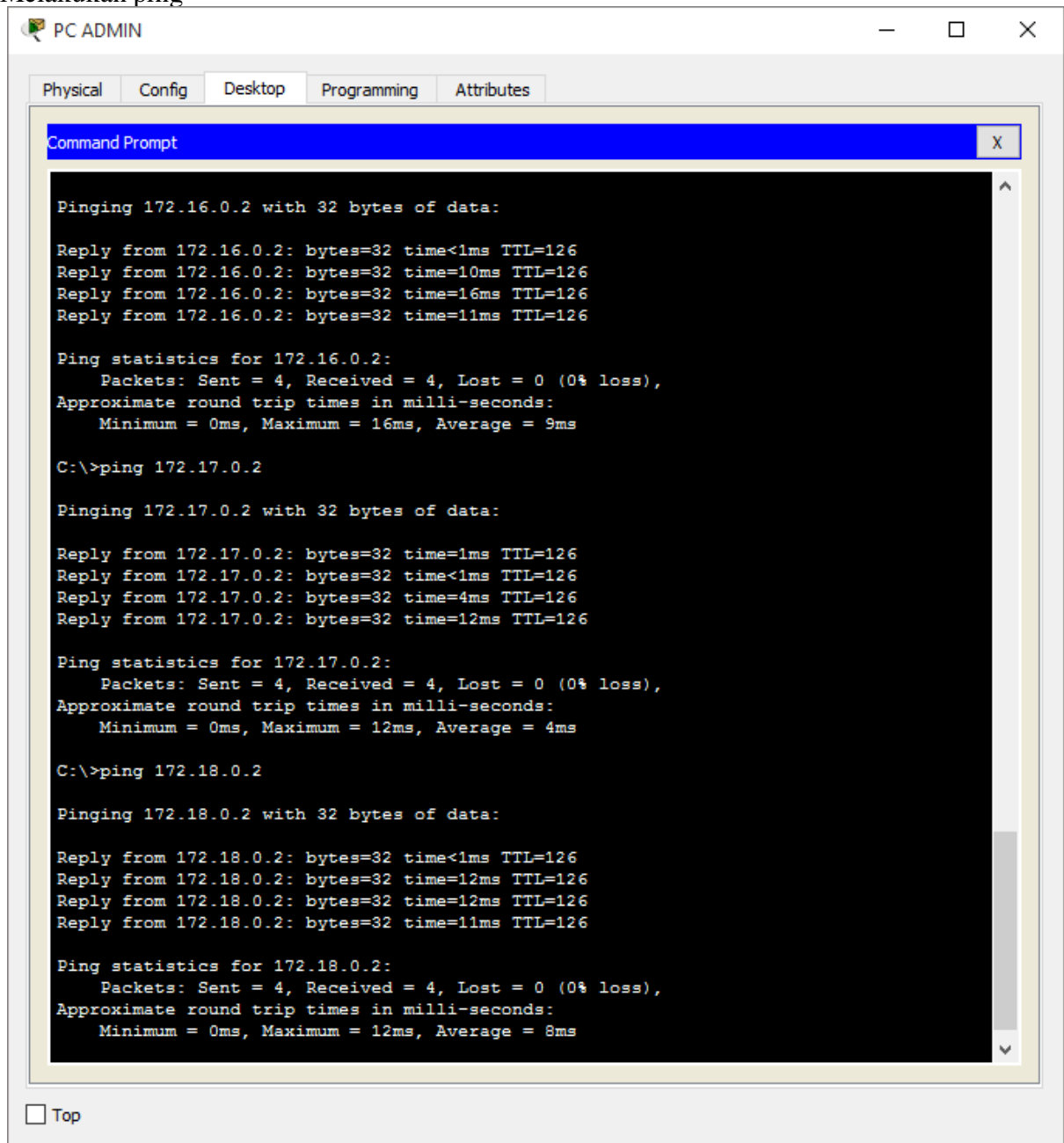
Press RETURN to get started!

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed state to up

ums>enable
ums#conf term
Enter configuration commands, one per line. End with CNTL/Z.
ums(config)#ip route 172.16.0.0 255.255.255.0 172.15.0.1
ums(config)#ip route 172.18.0.0 255.255.255.0 172.15.0.3
ums(config)#ip route 172.19.0.0 255.255.255.0 172.15.0.4
%Invalid next hop address (it's this router)
ums(config)#ip route 172.17.0.0 255.255.255.0 172.15.0.2
ums(config)#
```

Below the CLI window, there is a "Ctrl+F6 to exit CLI focus" label and "Copy" and "Paste" buttons. At the bottom left, there is a "Top" button.

## 14. Melakukan ping

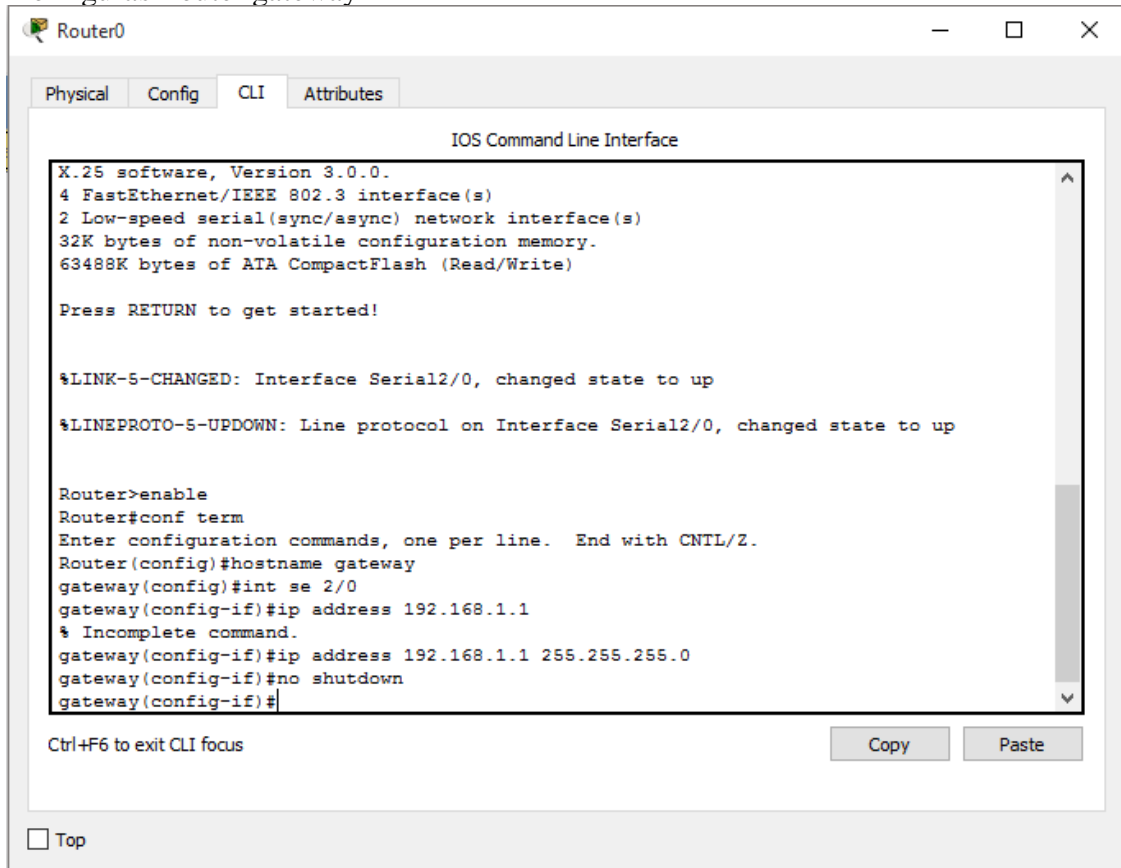


## NOMOR 2 – STATIC

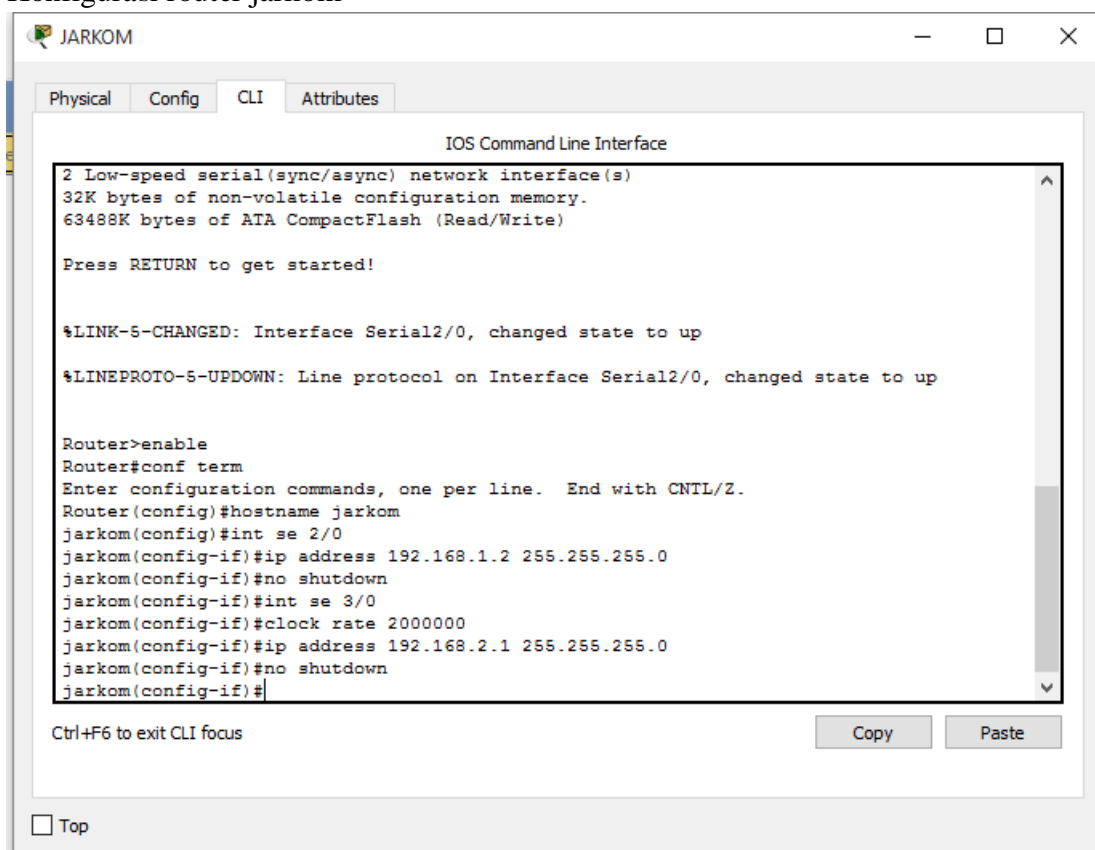
### 1. Desain jaringan



## 2. Konfigurasi router gateway

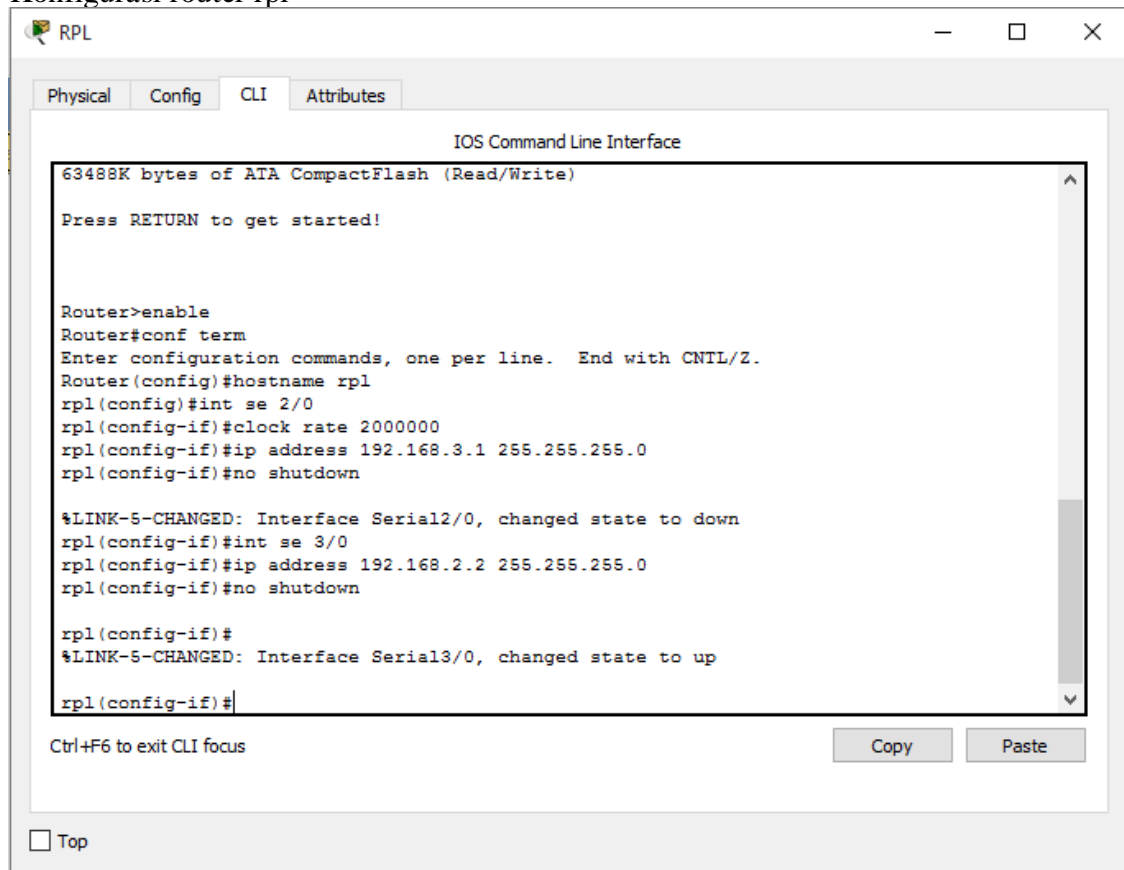


## 3. Konfigurasi router jarkom

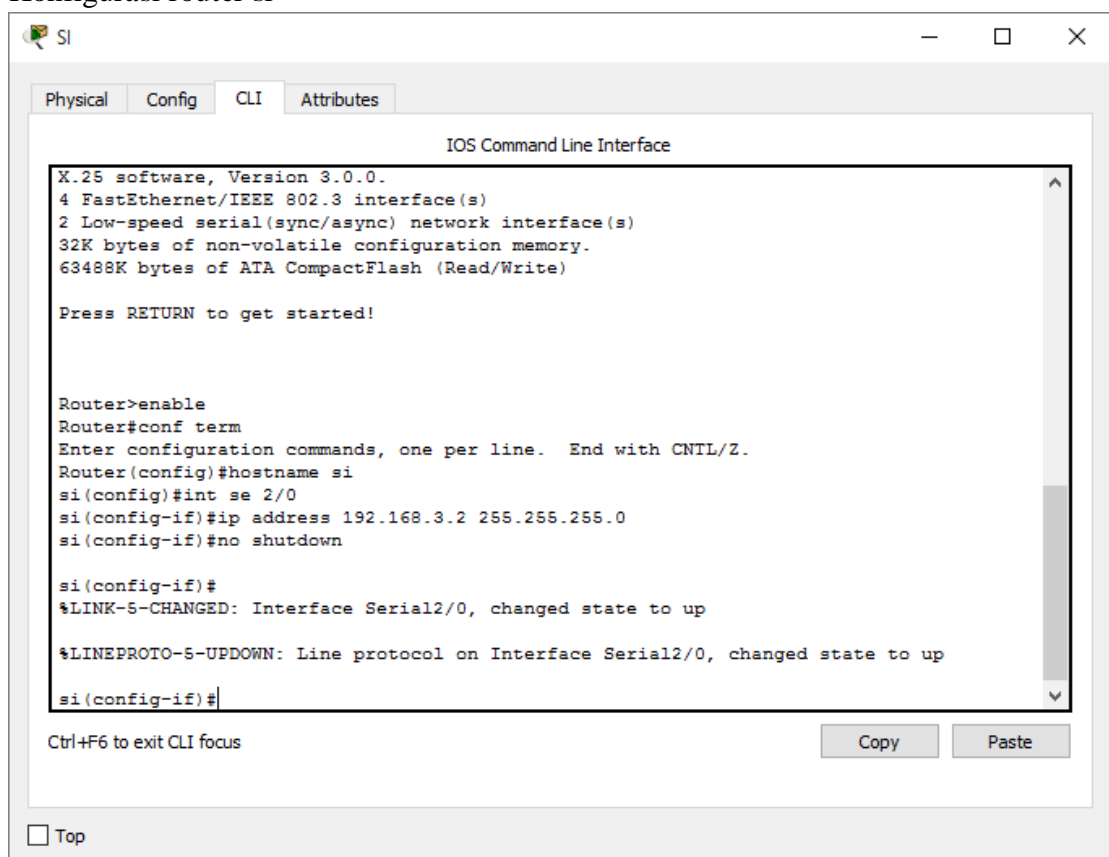




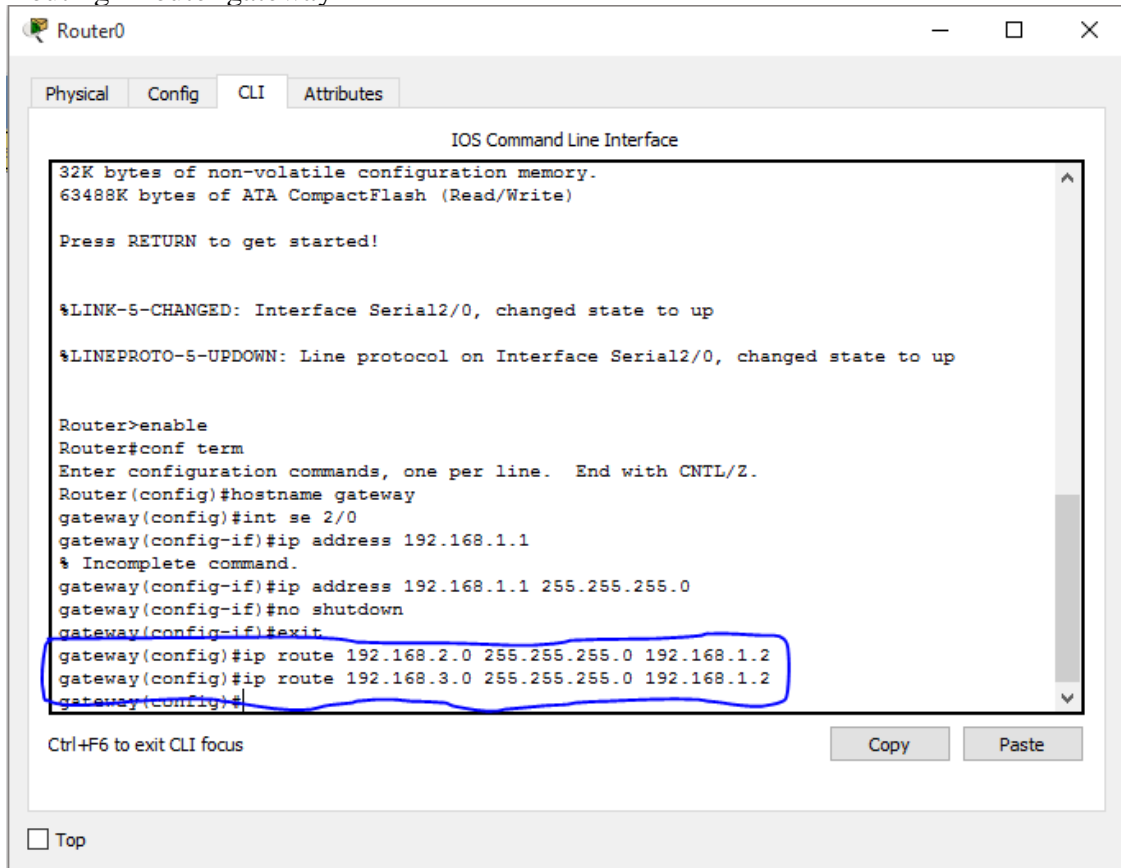
#### 4. Konfigurasi router rpl



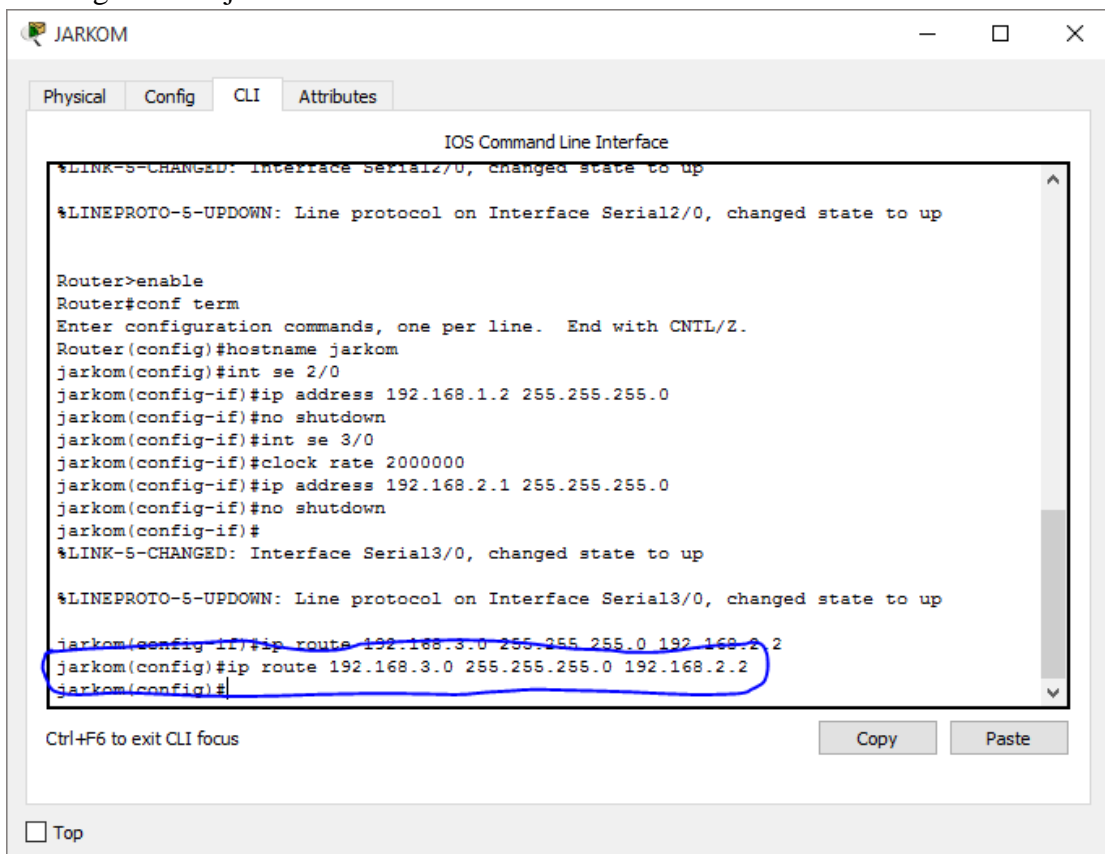
#### 5. Konfigurasi router si



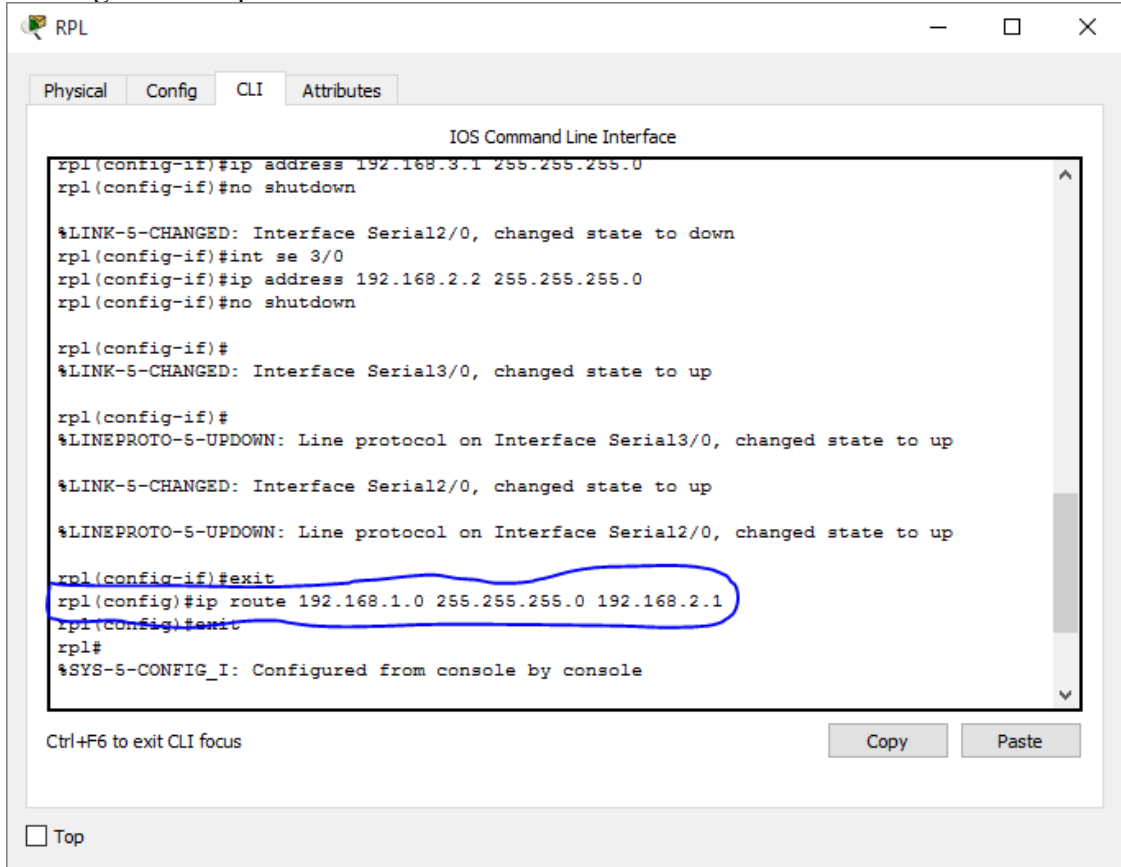
## 6. Routing – router gateway



## 7. Routing – router jarkom



## 8. Routing – router rpl



The screenshot shows the RPL router configuration window with the CLI tab selected. The terminal displays the following commands and output:

```
rpl(config-if)#ip address 192.168.3.1 255.255.255.0
rpl(config-if)#no shutdown

%LINK-5-CHANGED: Interface Serial2/0, changed state to down
rpl(config-if)#int se 3/0
rpl(config-if)#ip address 192.168.2.2 255.255.255.0
rpl(config-if)#no shutdown

rpl(config-if)#
%LINK-5-CHANGED: Interface Serial3/0, changed state to up

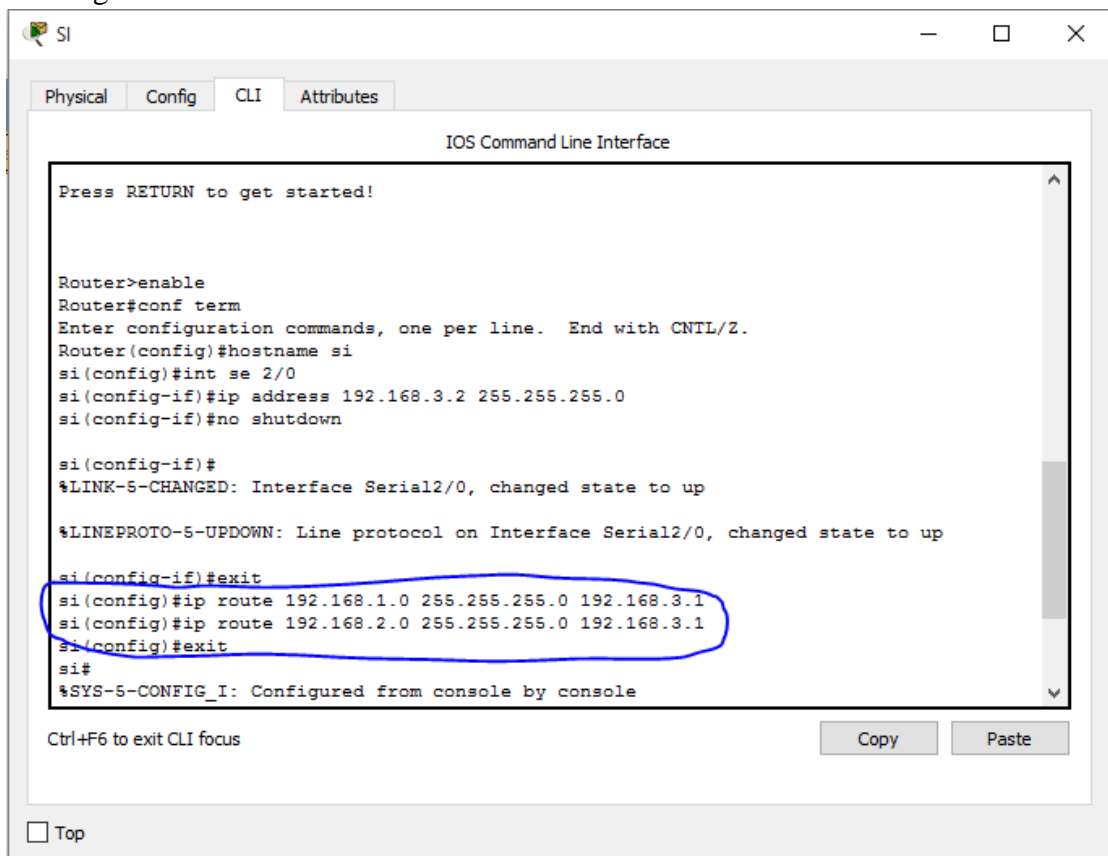
rpl(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state to up

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

rpl(config-if)#exit
rpl(config)#ip route 192.168.1.0 255.255.255.0 192.168.2.1
rpl(config)#exit
rpl#
%SYS-5-CONFIG_I: Configured from console by console
```

Below the terminal window, there is a "Ctrl+F6 to exit CLI focus" message and "Copy" and "Paste" buttons. At the bottom left, there is a "Top" button.

## 9. Routing – router si



The screenshot shows the SI router configuration window with the CLI tab selected. The terminal displays the following commands and output:

```
Press RETURN to get started!

Router>enable
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname si
si(config)#int se 2/0
si(config-if)#ip address 192.168.3.2 255.255.255.0
si(config-if)#no shutdown

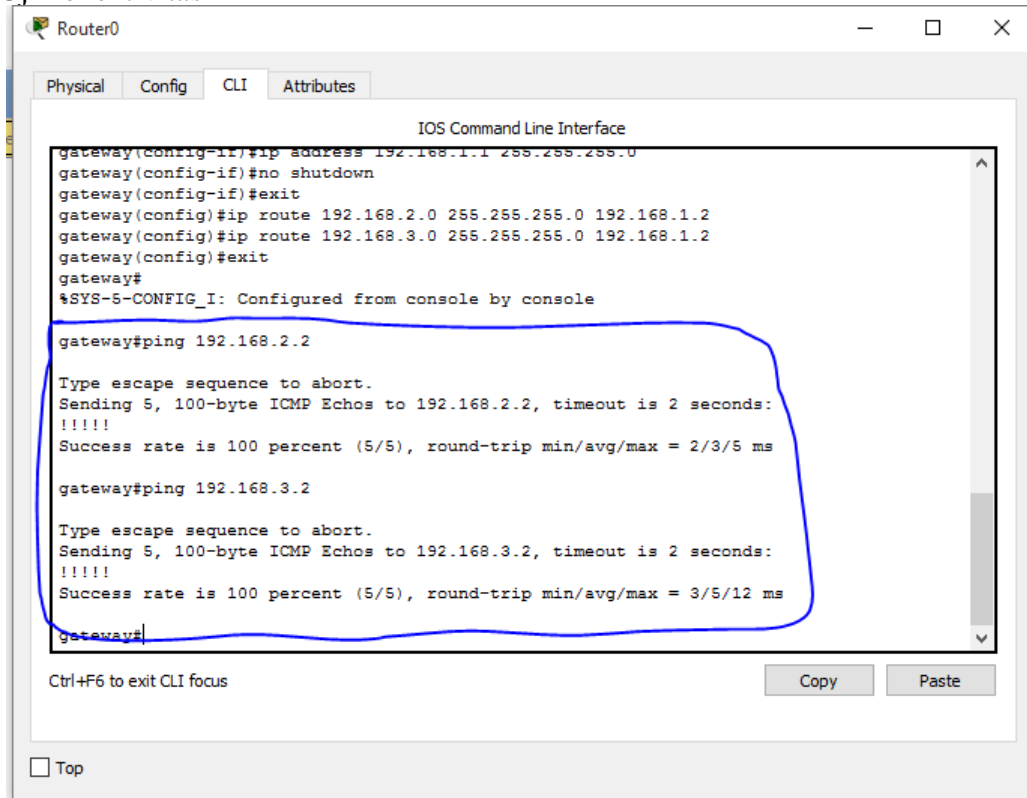
si(config-if)#
%LINK-5-CHANGED: Interface Serial2/0, changed state to up

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

si(config-if)#exit
si(config)#ip route 192.168.1.0 255.255.255.0 192.168.3.1
si(config)#ip route 192.168.2.0 255.255.255.0 192.168.3.1
si(config)#exit
si#
%SYS-5-CONFIG_I: Configured from console by console
```

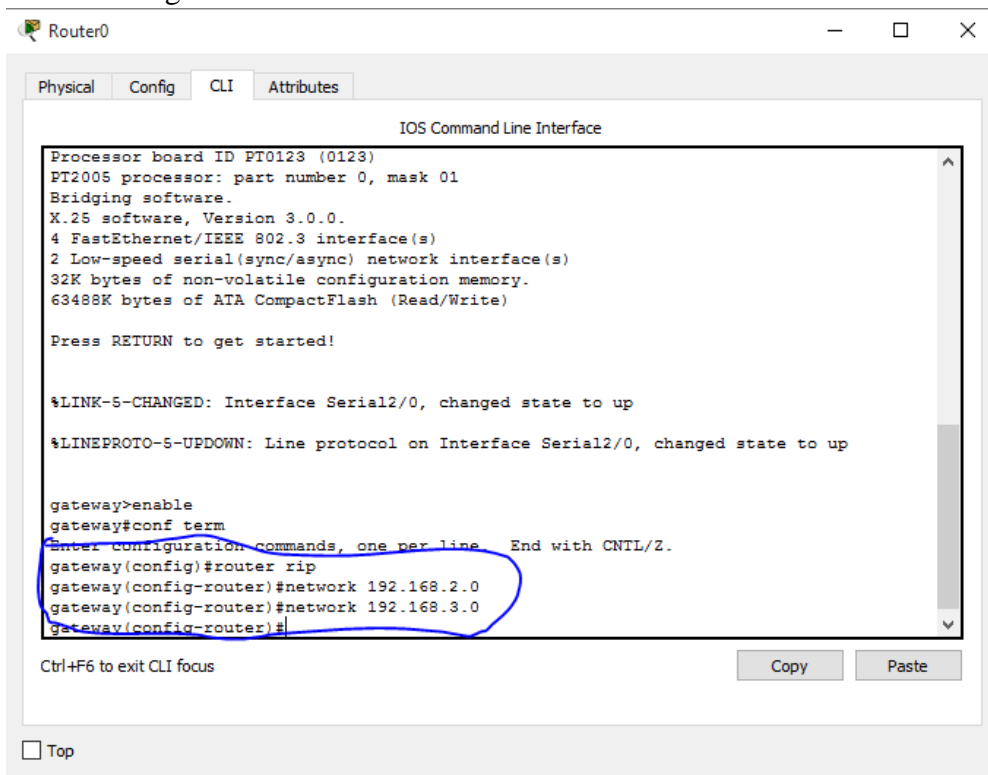
Below the terminal window, there is a "Ctrl+F6 to exit CLI focus" message and "Copy" and "Paste" buttons. At the bottom left, there is a "Top" button.

## 10. Uji konektivitas

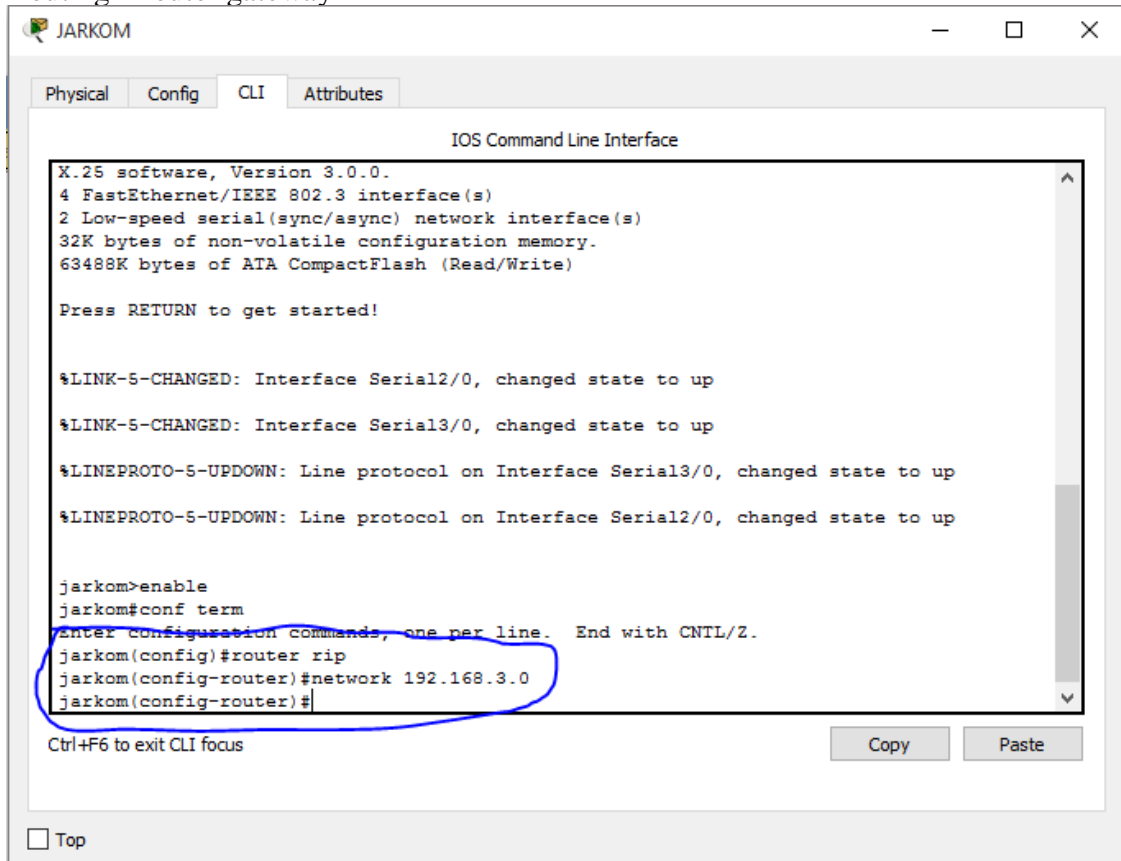


## NOMOR 2 – DINAMIS (RIP)

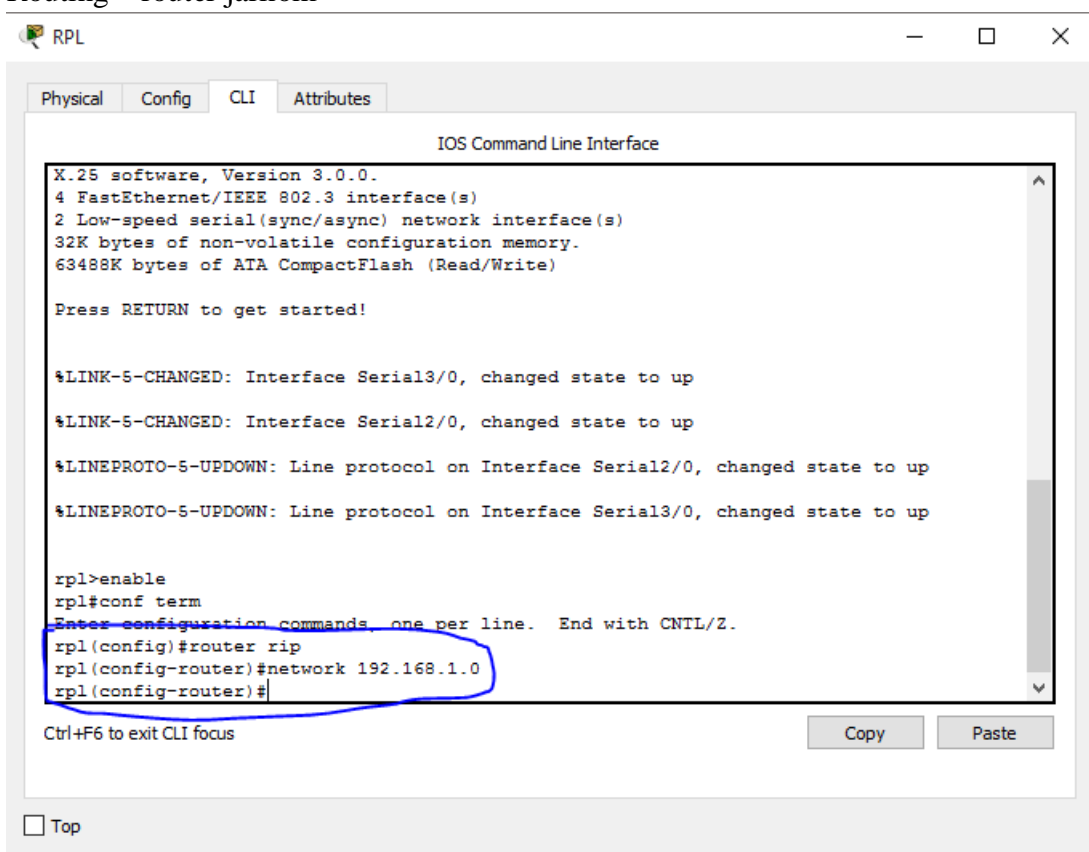
### 1. Desain Jaringan



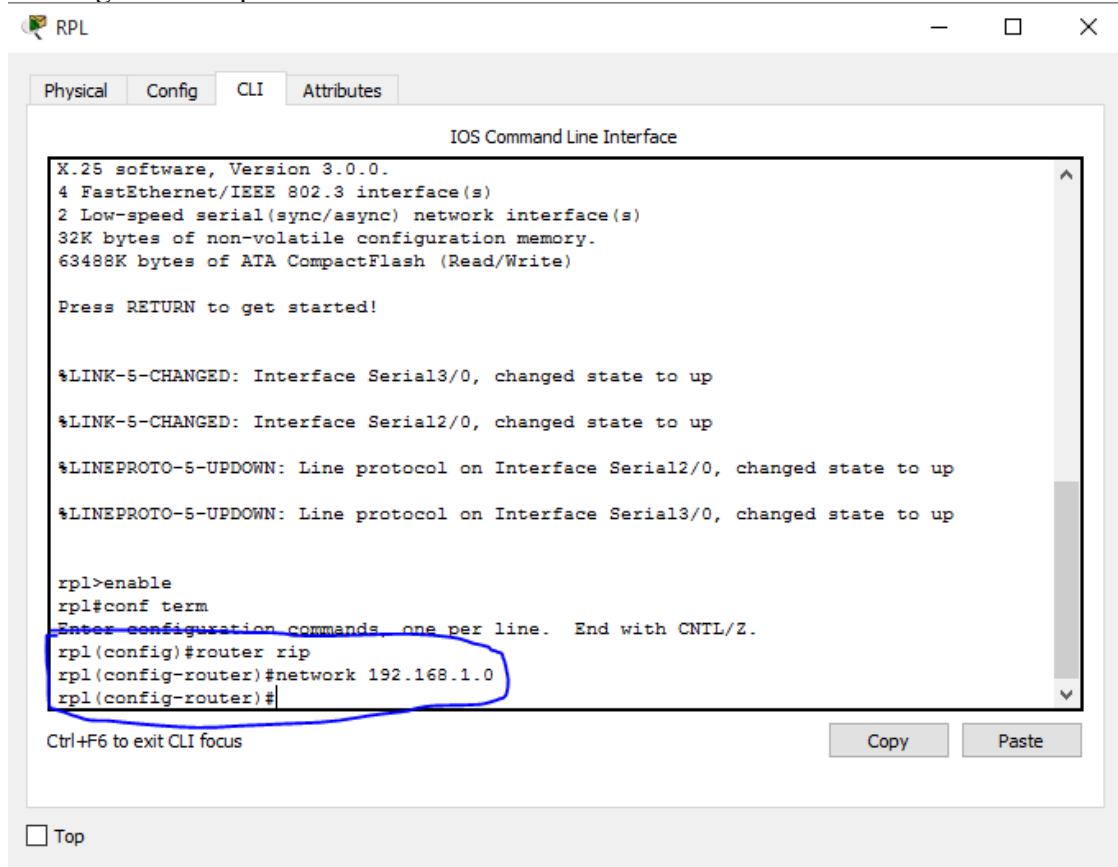
## 2. Routing – router gateway



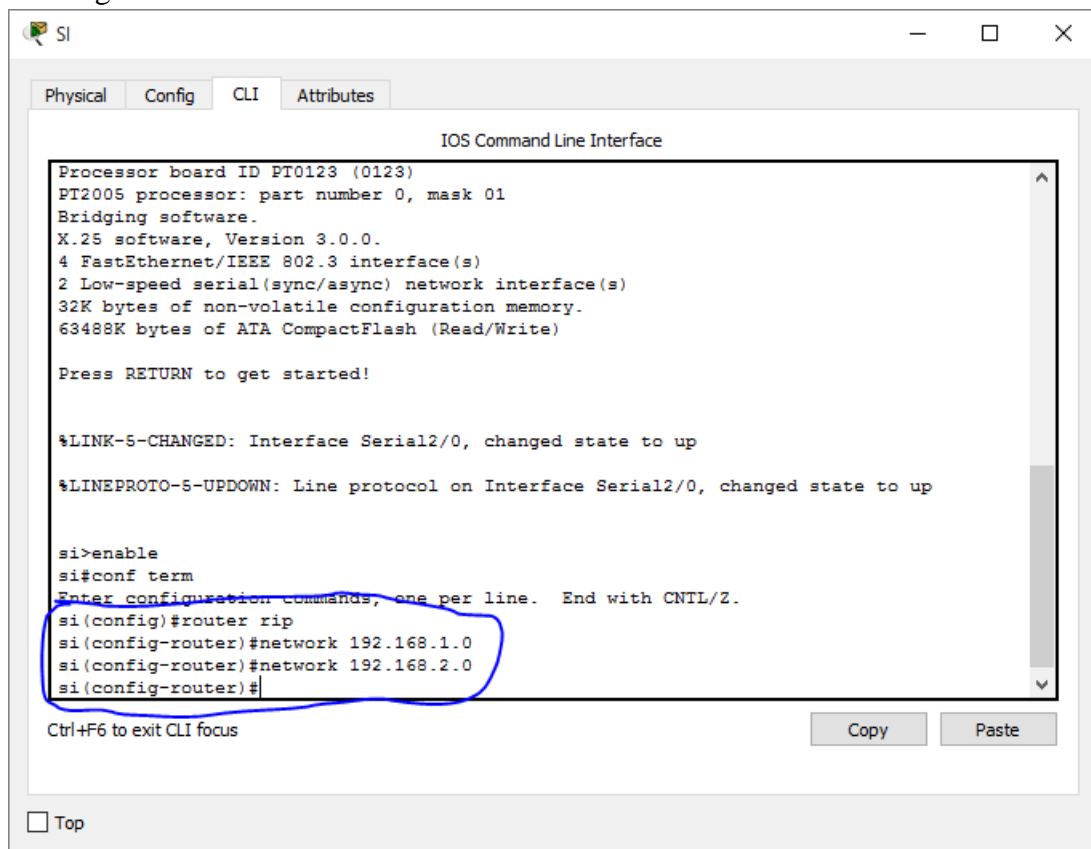
## 3. Routing – router jarkom



#### 4. Routing – router rpl



#### 5. Routing – router si



## 6. Uji konektivitas

