

Nama : Muhammad Khoiruddin

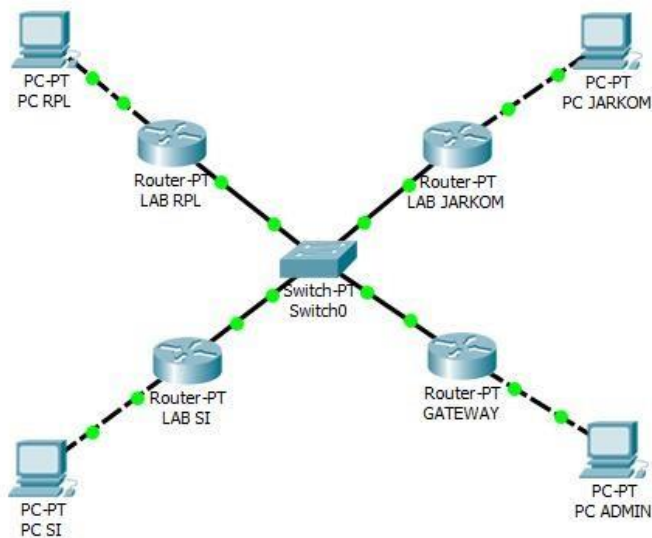
Kelas : C

NIM : L200170104

Modul : 11

## 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

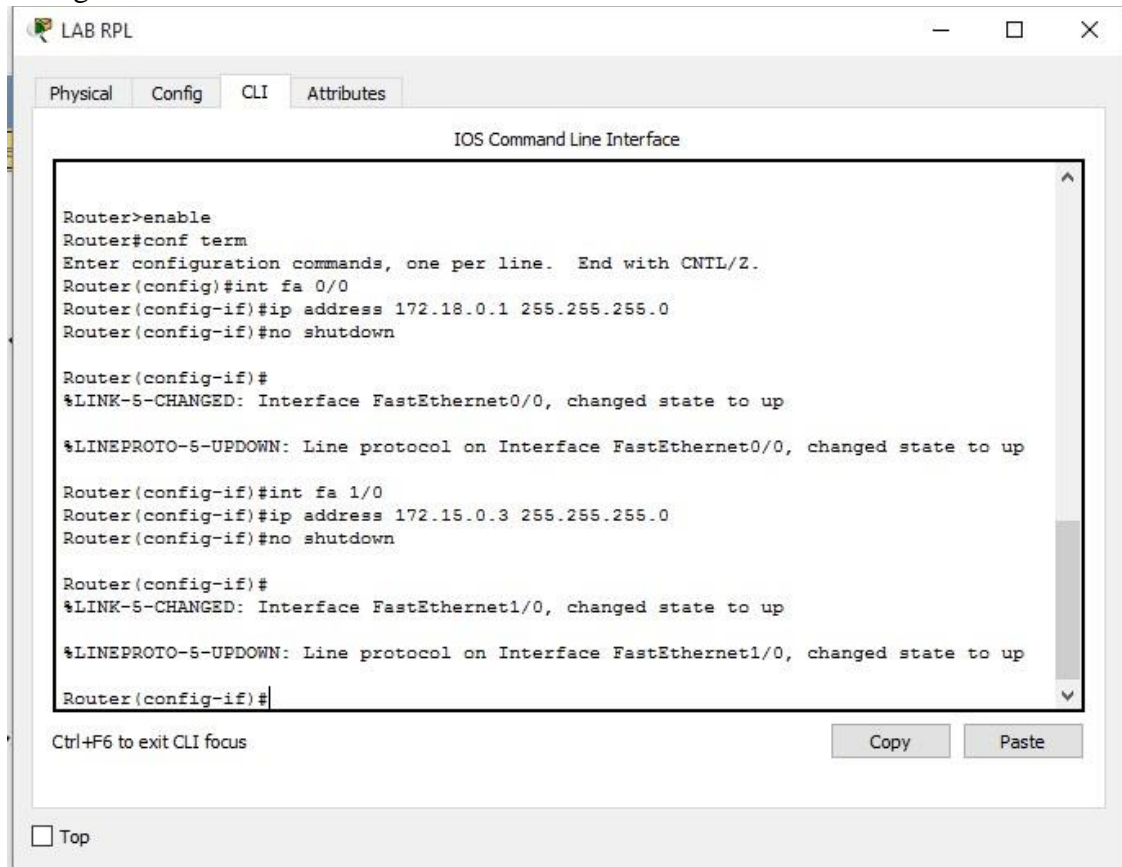
Router(config-if)#exit
Router(config)#hostname jarkom
jarkom(config)#
```

Ctrl+F6 to exit CLI focus

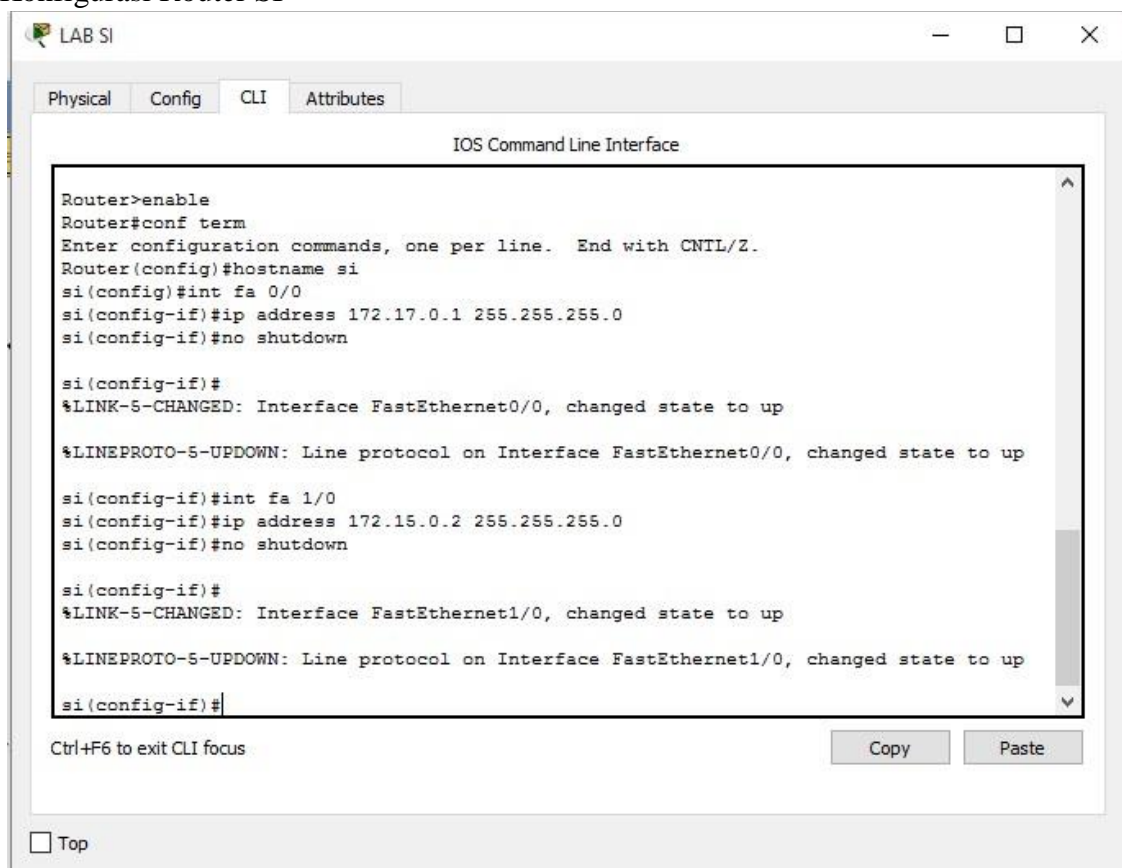
Copy Paste

☐ Top

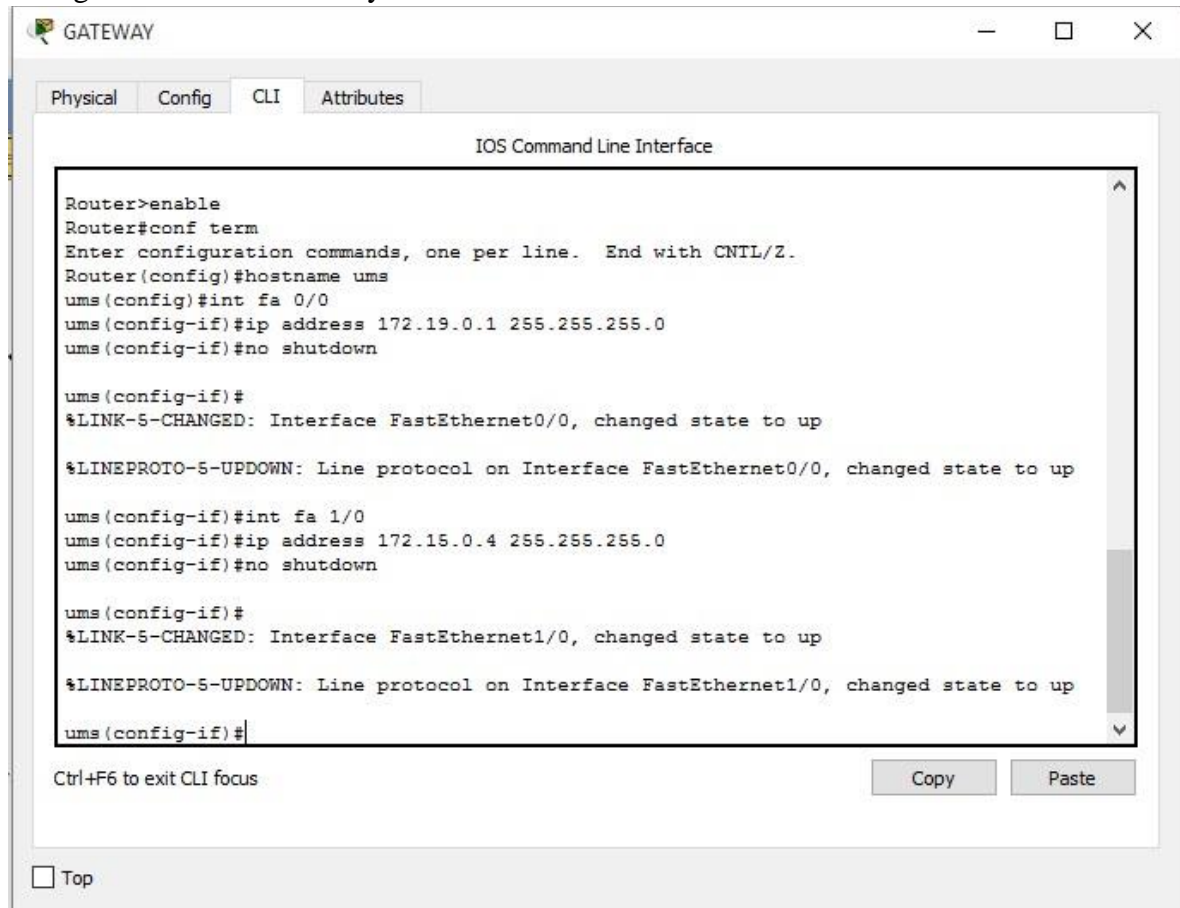
### 3. Konfigurasi Router RPL



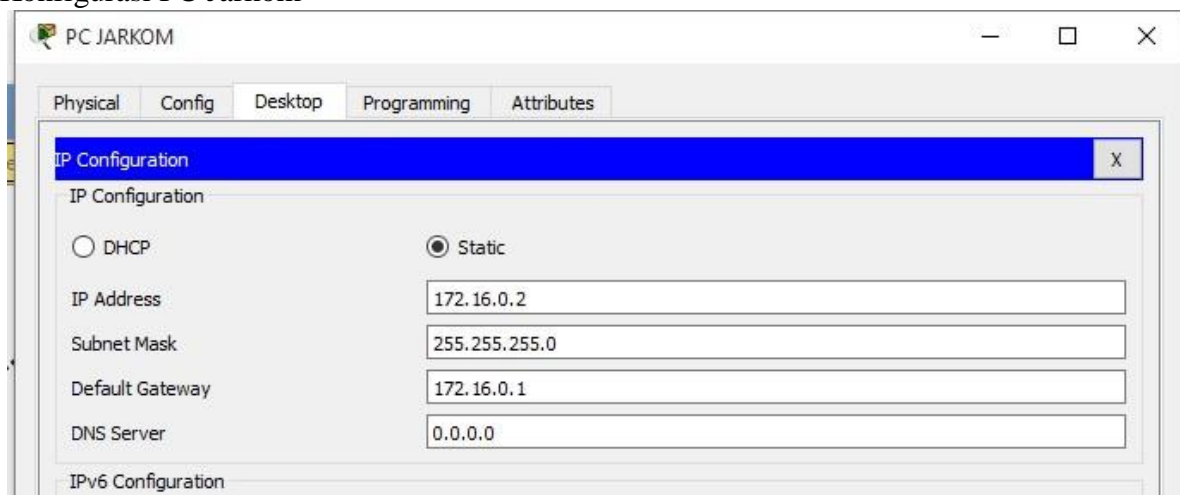
### 4. Konfigurasi Router SI



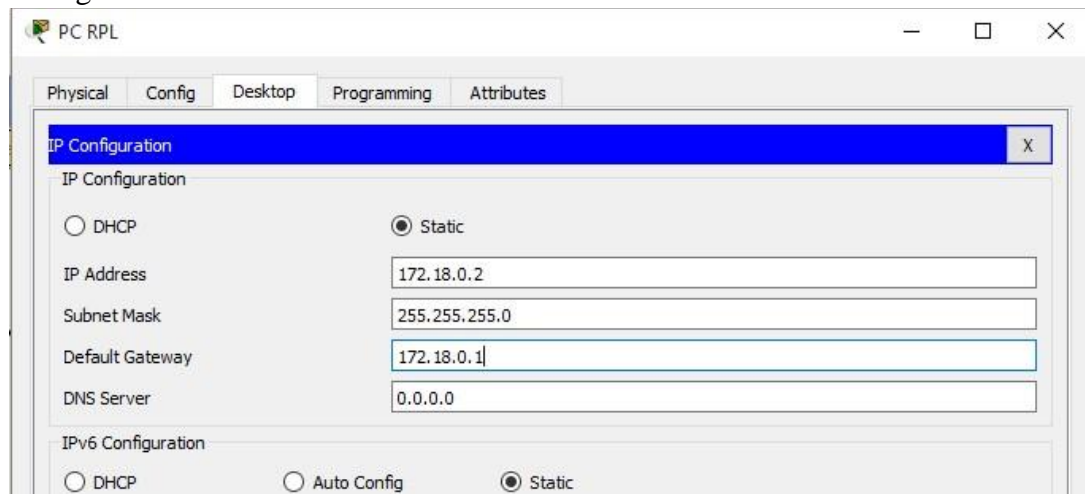
## 5. Konfigurasi Router Gateway



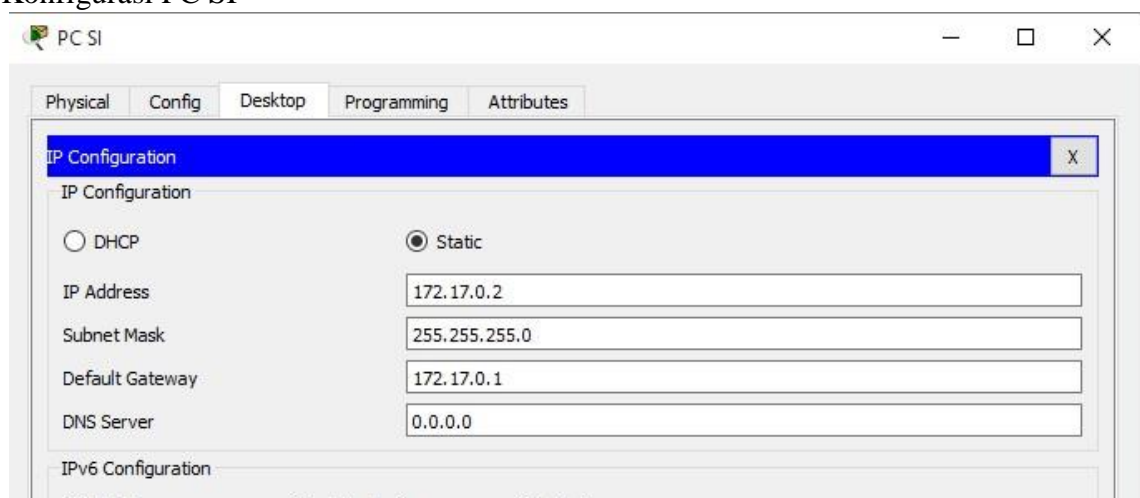
## 6. Konfigurasi PC Jarkom



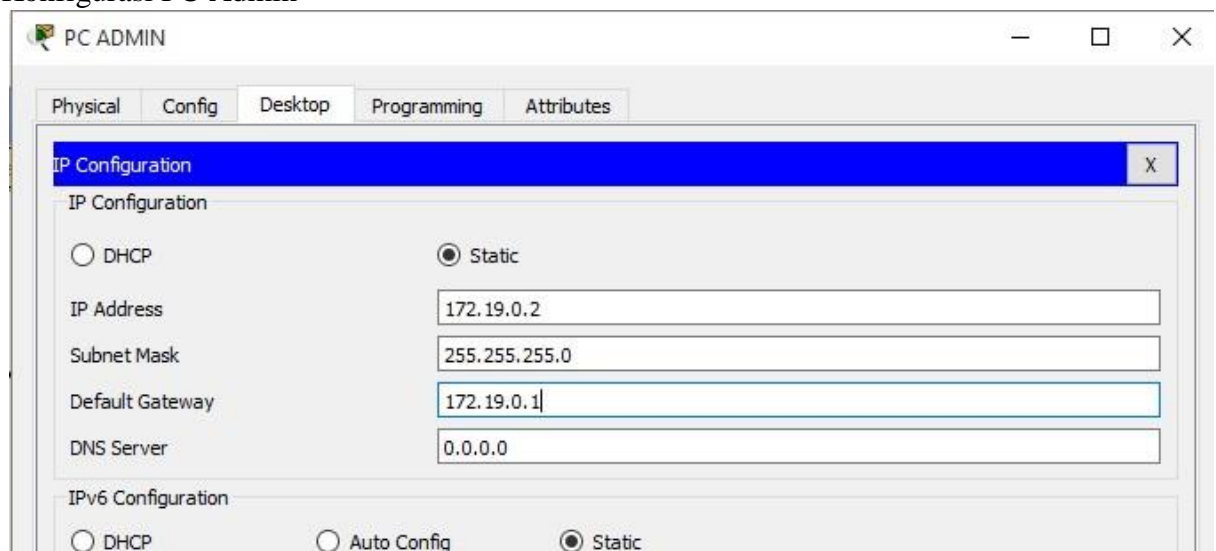
## 7. Konfigurasi PC RPL



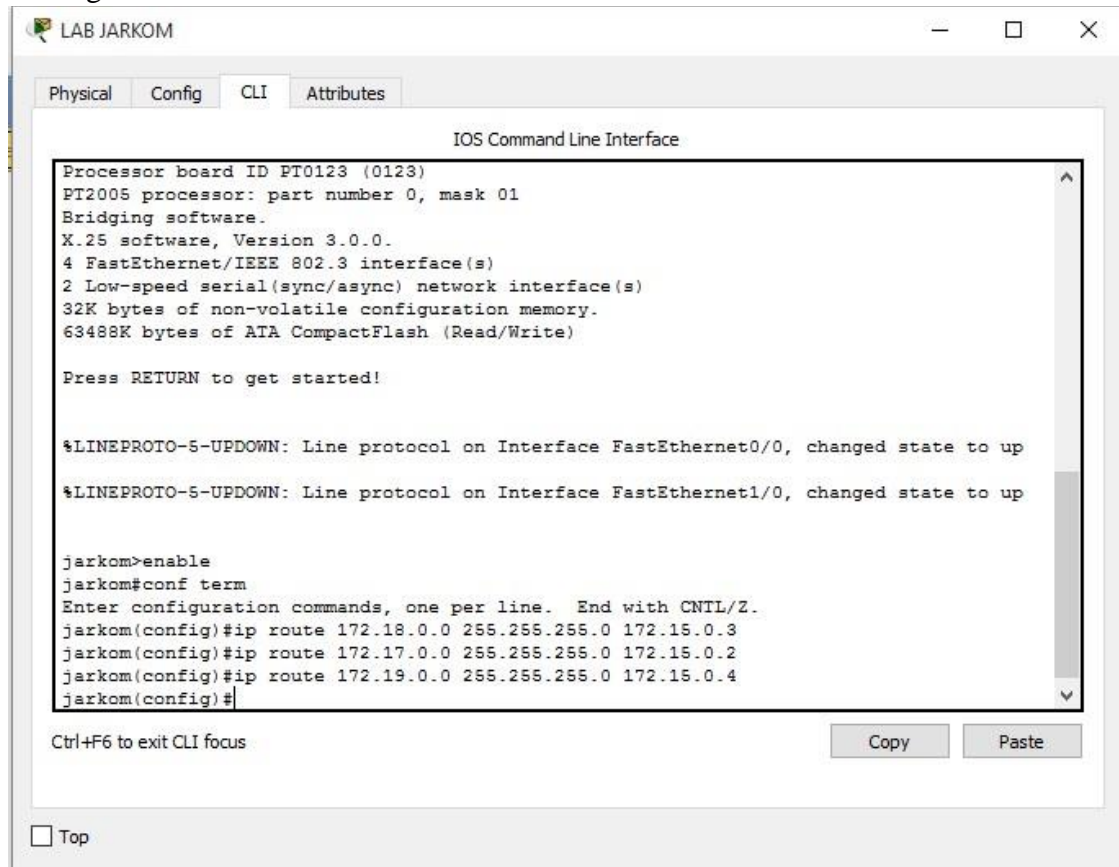
## 8. Konfigurasi PC SI



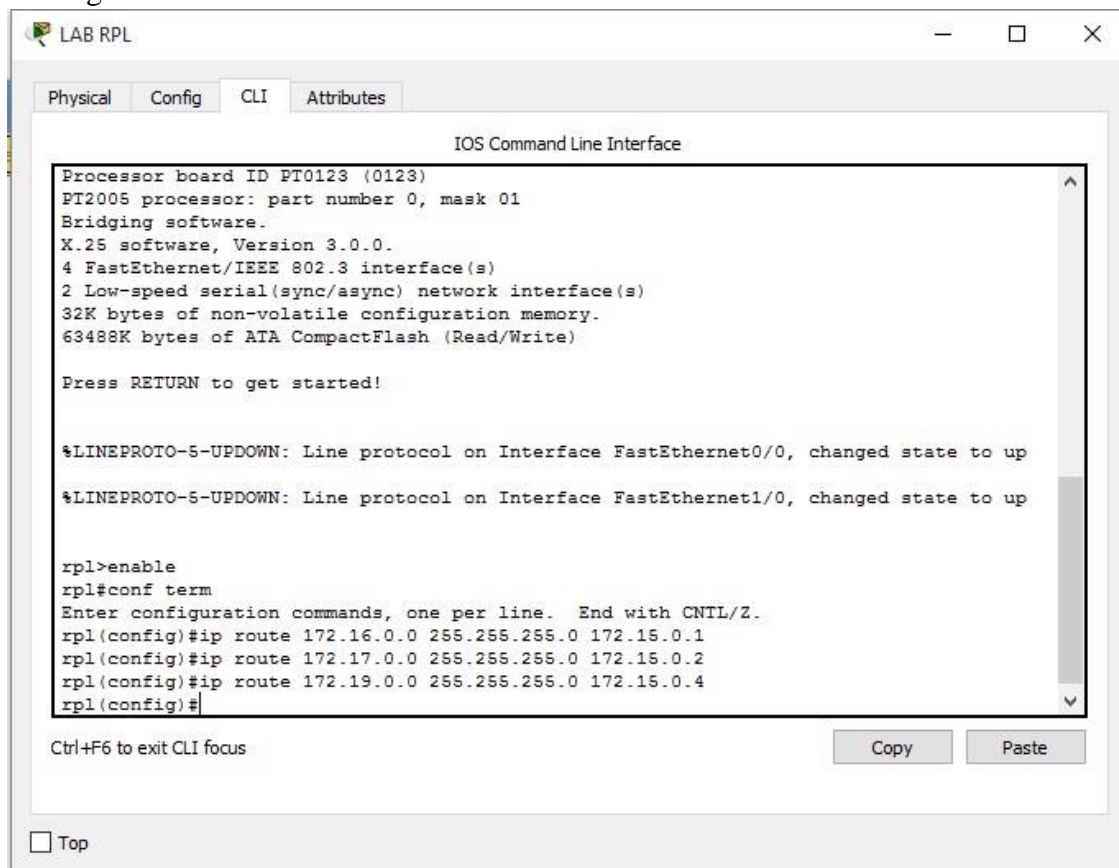
## 9. Konfigurasi PC Admin



## 10. Routing – router Jarkom

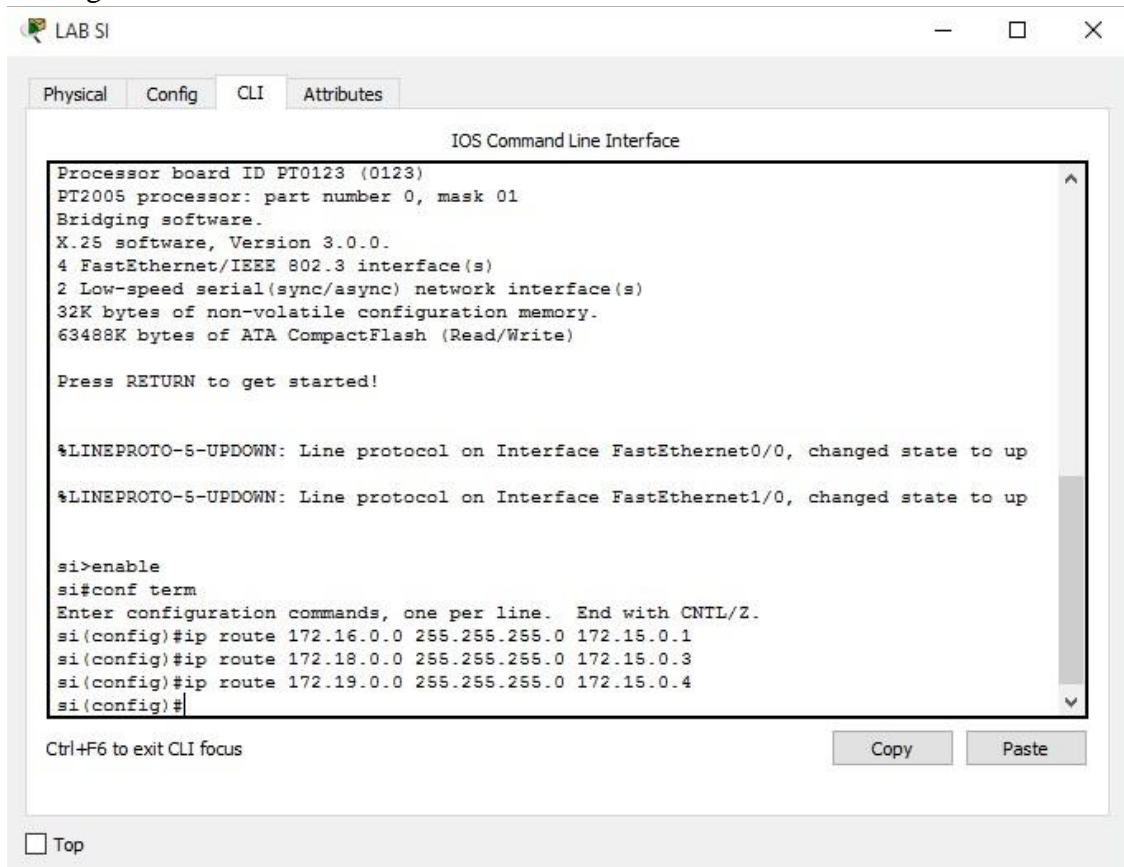


## 11. Routing – router RPL

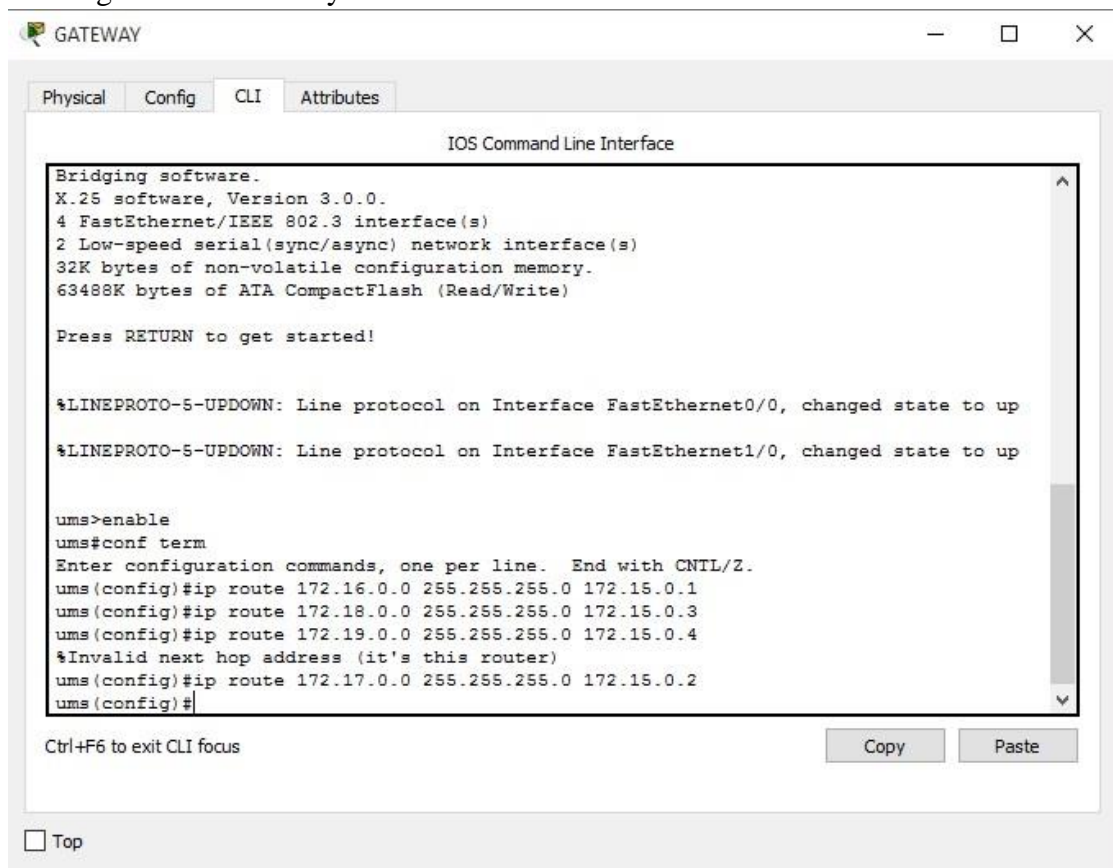




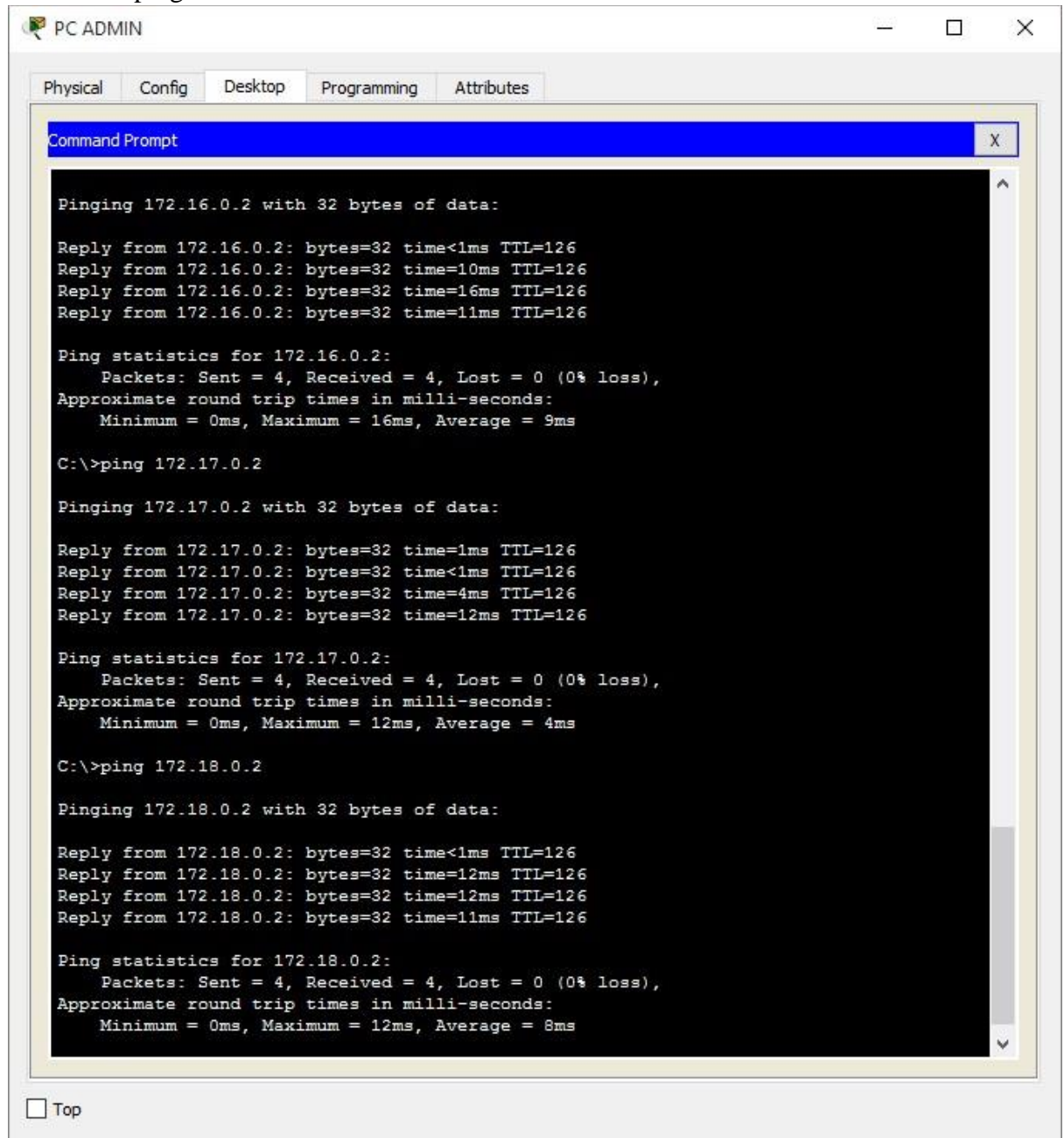
## 12. Routing – router SI



## 13. Routing – router Gateway

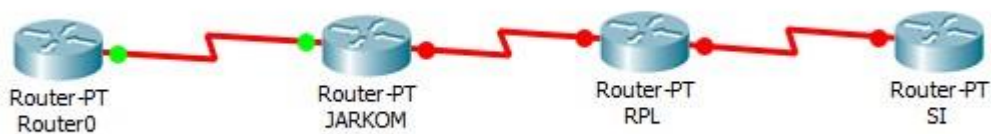


#### 14. Melakukan ping

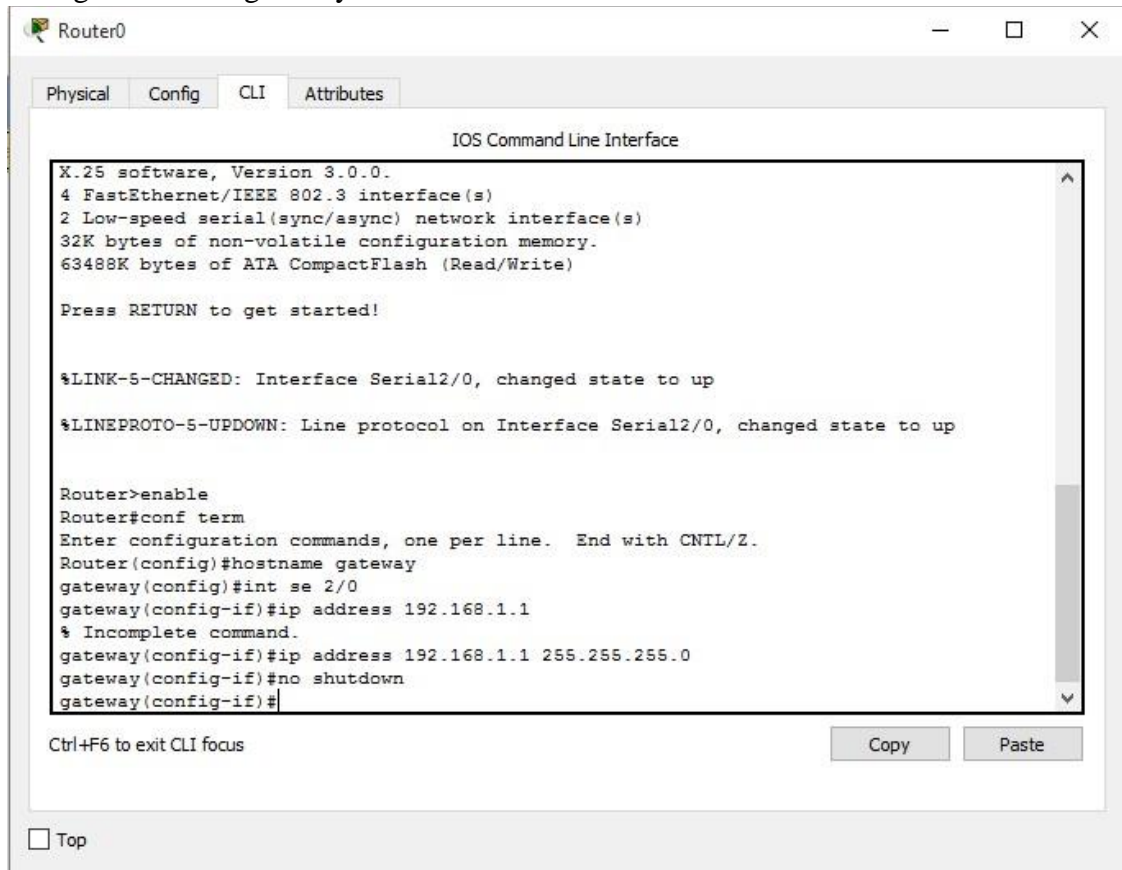


### NOMOR 2 – STATIC

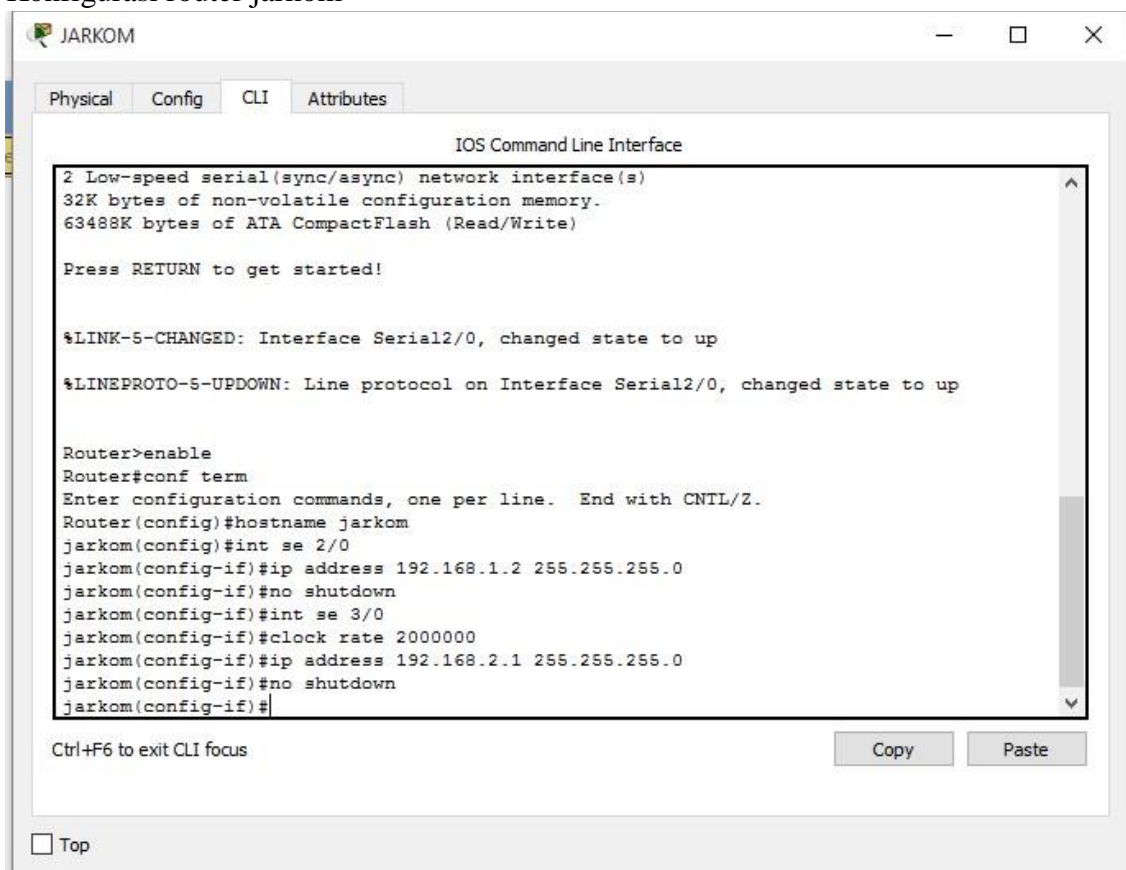
#### 1. Desain jaringan



## 2. Konfigurasi router gateway

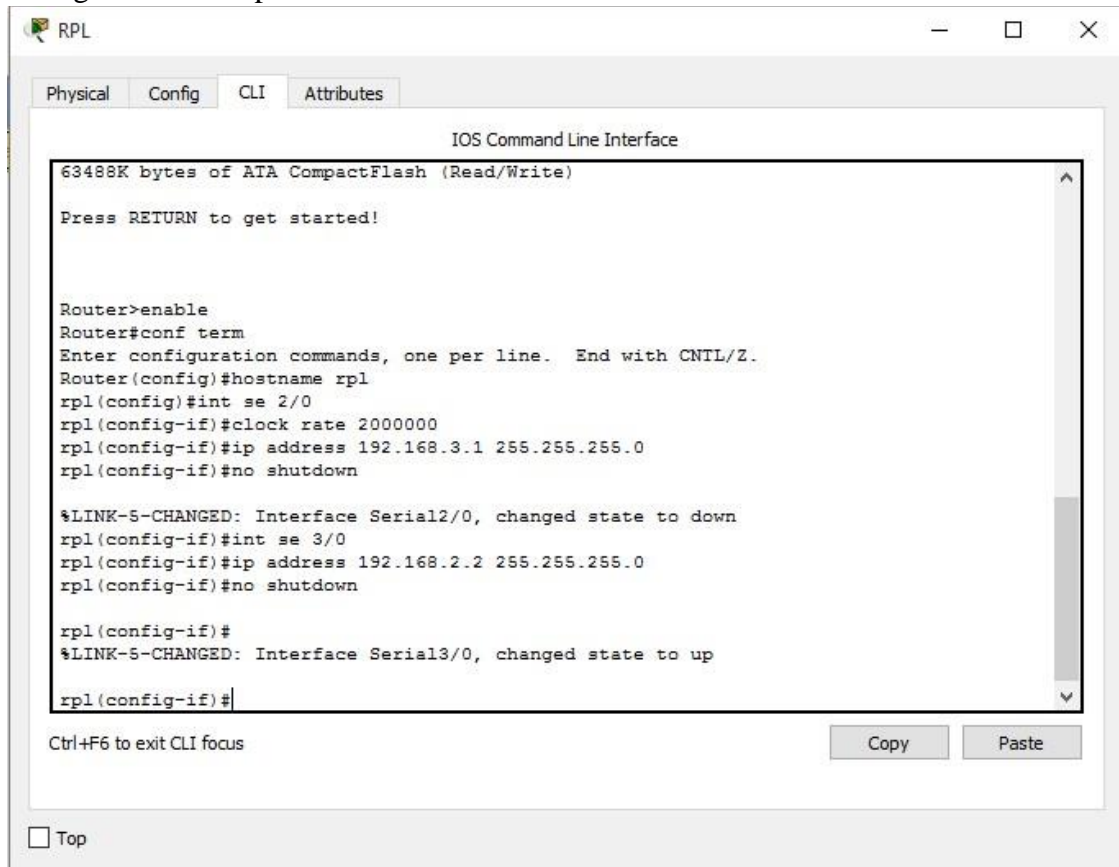


## 3. Konfigurasi router jarkom

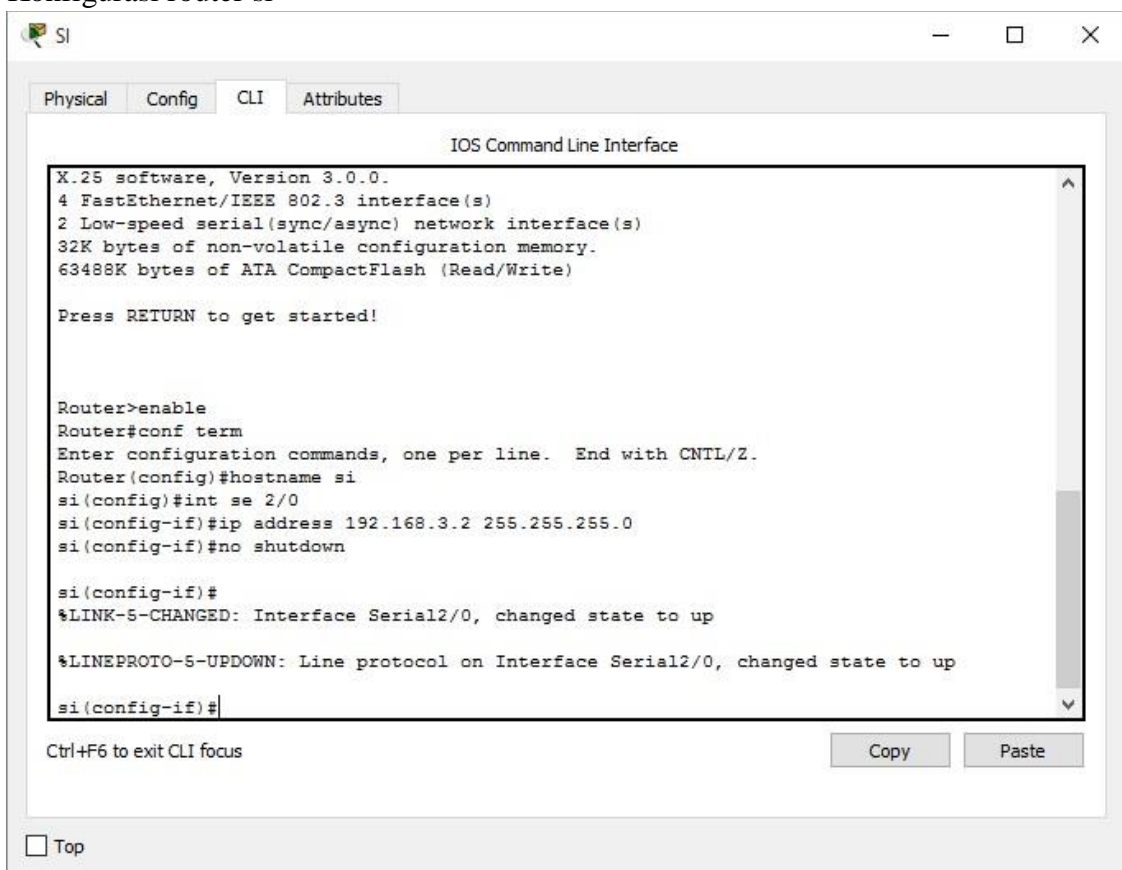




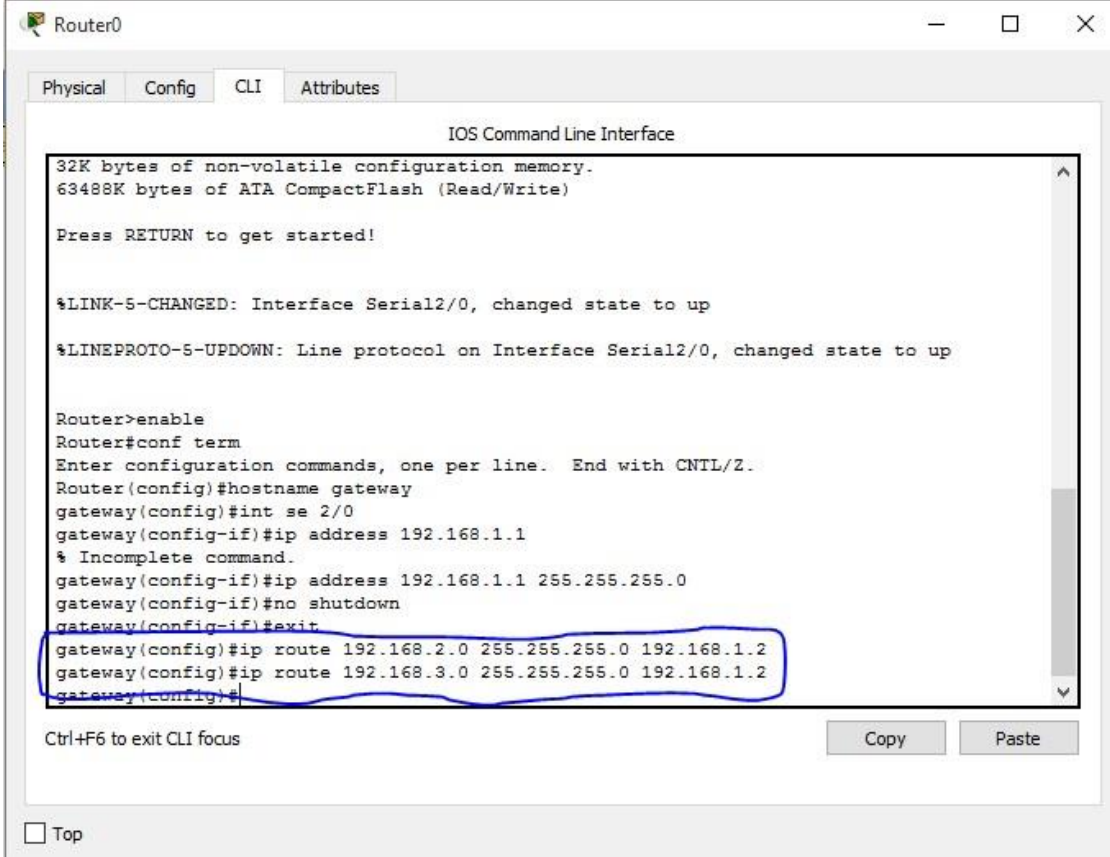
#### 4. Konfigurasi router rpl



#### 5. Konfigurasi router si



## 6. Routing – router gateway



The screenshot shows the CLI of Router0. The interface has tabs for Physical, Config, CLI, and Attributes. The CLI tab is active, displaying the IOS Command Line Interface. The output shows the router's memory status and interface status changes. The configuration commands entered are: `Router>enable`, `Router#conf term`, `Router(config)#hostname gateway`, `gateway(config)#int se 2/0`, `gateway(config-if)#ip address 192.168.1.1`, `% Incomplete command.`, `gateway(config-if)#ip address 192.168.1.1 255.255.255.0`, `gateway(config-if)#no shutdown`, `gateway(config-if)#exit`, `gateway(config)#ip route 192.168.2.0 255.255.255.0 192.168.1.2`, `gateway(config)#ip route 192.168.3.0 255.255.255.0 192.168.1.2`, and `gateway(config)#`. The last two lines are circled in blue. The interface also shows a 'Copy' and 'Paste' button at the bottom right.

```
Router0
Physical Config CLI Attributes
IOS Command Line Interface
32K bytes of non-volatile configuration memory.
63488K bytes of ATA CompactFlash (Read/Write)

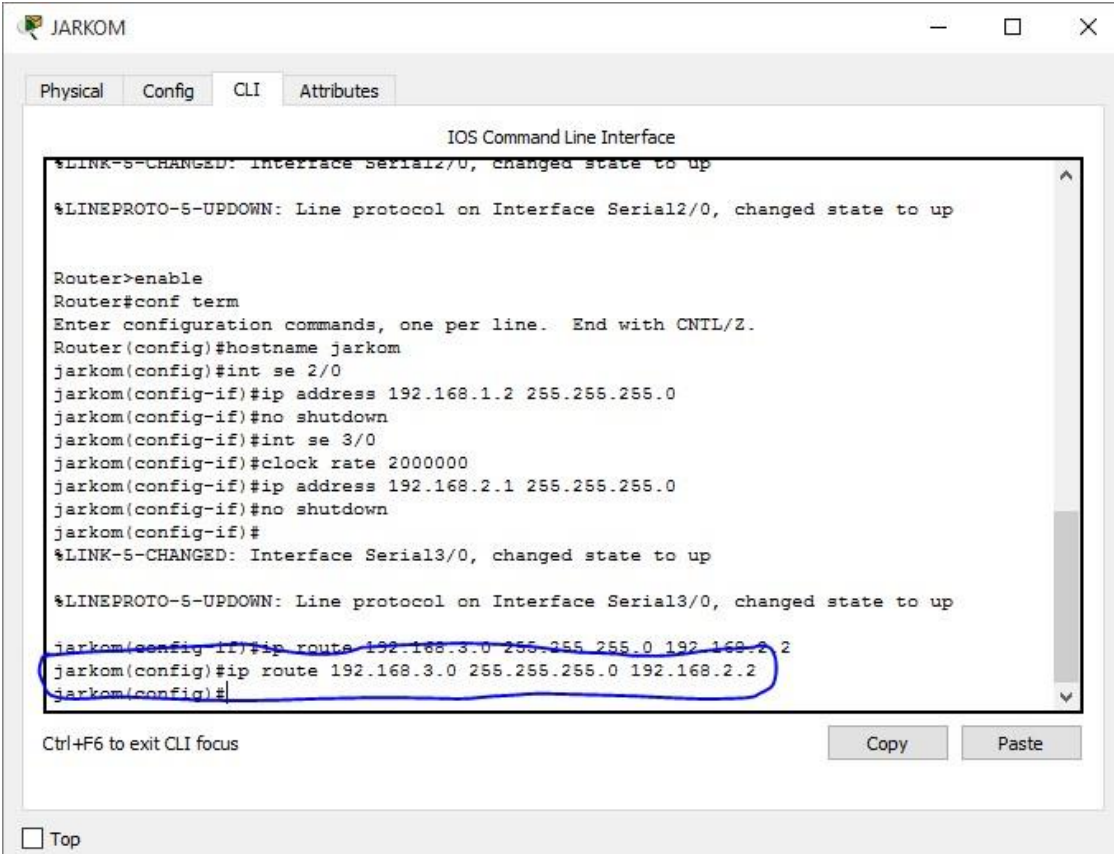
Press RETURN to get started!

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

Router>enable
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname gateway
gateway(config)#int se 2/0
gateway(config-if)#ip address 192.168.1.1
% Incomplete command.
gateway(config-if)#ip address 192.168.1.1 255.255.255.0
gateway(config-if)#no shutdown
gateway(config-if)#exit
gateway(config)#ip route 192.168.2.0 255.255.255.0 192.168.1.2
gateway(config)#ip route 192.168.3.0 255.255.255.0 192.168.1.2
gateway(config)#

Ctrl+F6 to exit CLI focus
```

## 7. Routing – router jarkom



The screenshot shows the CLI of JARKOM. The interface has tabs for Physical, Config, CLI, and Attributes. The CLI tab is active, displaying the IOS Command Line Interface. The output shows the router's memory status and interface status changes. The configuration commands entered are: `Router>enable`, `Router#conf term`, `Router(config)#hostname jarkom`, `jarkom(config)#int se 2/0`, `jarkom(config-if)#ip address 192.168.1.2 255.255.255.0`, `jarkom(config-if)#no shutdown`, `jarkom(config-if)#int se 3/0`, `jarkom(config-if)#clock rate 2000000`, `jarkom(config-if)#ip address 192.168.2.1 255.255.255.0`, `jarkom(config-if)#no shutdown`, `jarkom(config-if)#`, `%LINK-5-CHANGED: Interface Serial3/0, changed state to up`, `%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state to up`, `jarkom(config-if)#ip route 192.168.3.0 255.255.255.0 192.168.2.2`, `jarkom(config)#ip route 192.168.3.0 255.255.255.0 192.168.2.2`, and `jarkom(config)#`. The last two lines are circled in blue. The interface also shows a 'Copy' and 'Paste' button at the bottom right.

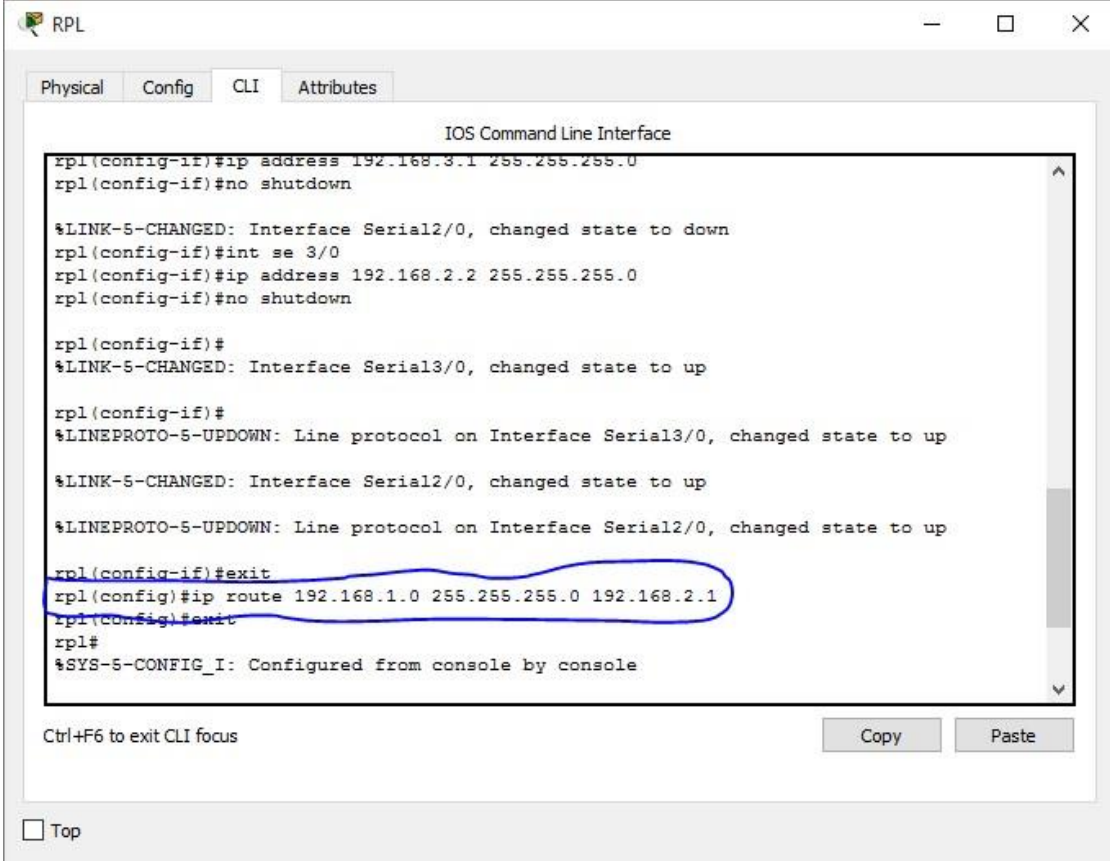
```
JARKOM
Physical Config CLI Attributes
IOS Command Line Interface
%LINK-5-CHANGED: Interface Serial2/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up

Router>enable
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname jarkom
jarkom(config)#int se 2/0
jarkom(config-if)#ip address 192.168.1.2 255.255.255.0
jarkom(config-if)#no shutdown
jarkom(config-if)#int se 3/0
jarkom(config-if)#clock rate 2000000
jarkom(config-if)#ip address 192.168.2.1 255.255.255.0
jarkom(config-if)#no shutdown
jarkom(config-if)#
%LINK-5-CHANGED: Interface Serial3/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state to up

jarkom(config-if)#ip route 192.168.3.0 255.255.255.0 192.168.2.2
jarkom(config)#ip route 192.168.3.0 255.255.255.0 192.168.2.2
jarkom(config)#

Ctrl+F6 to exit CLI focus
```

## 8. Routing – router rpl



The screenshot shows the RPL router's CLI interface. The 'CLI' tab is selected. The terminal displays the following commands and system messages:

```
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

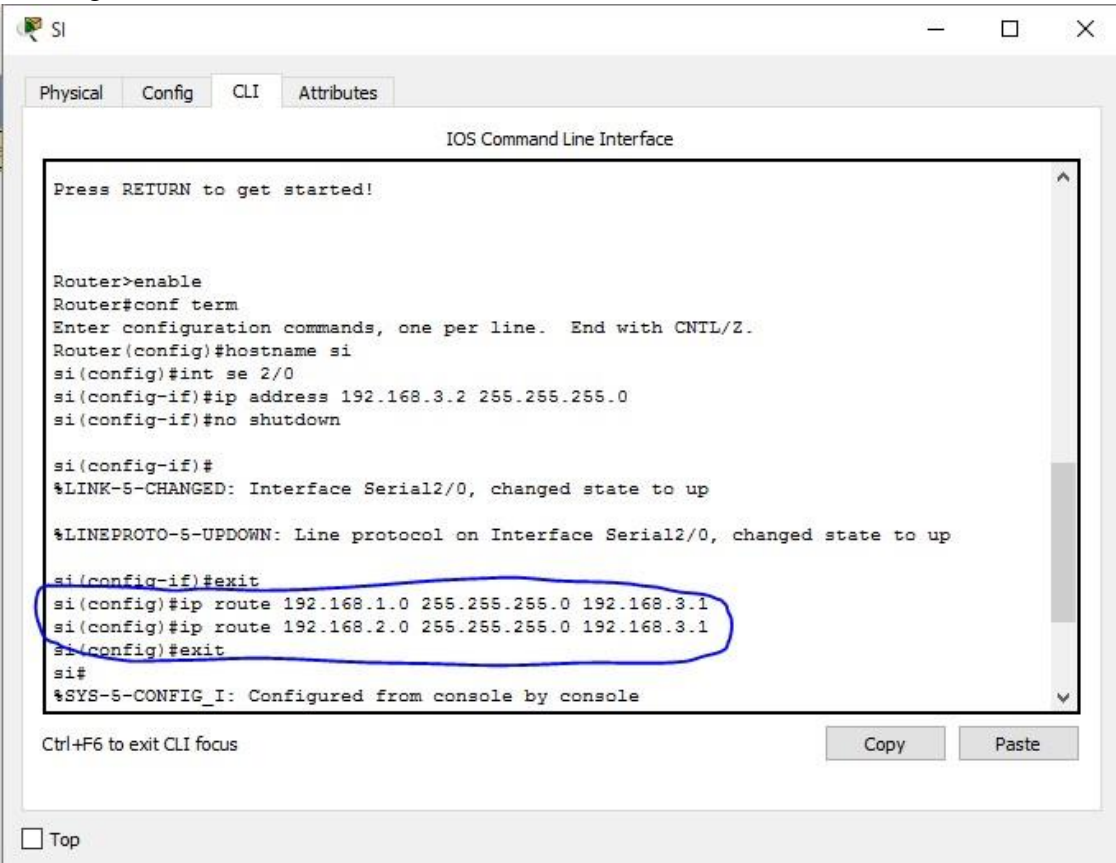
%LINK-5-CHANGED: Interface Serial2/0, changed state to up

%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. A 'Top' button is located at the bottom left of the window.

## 9. Routing – router si



The screenshot shows the SI router's CLI interface. The 'CLI' tab is selected. The terminal displays the following commands and system messages:

```
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

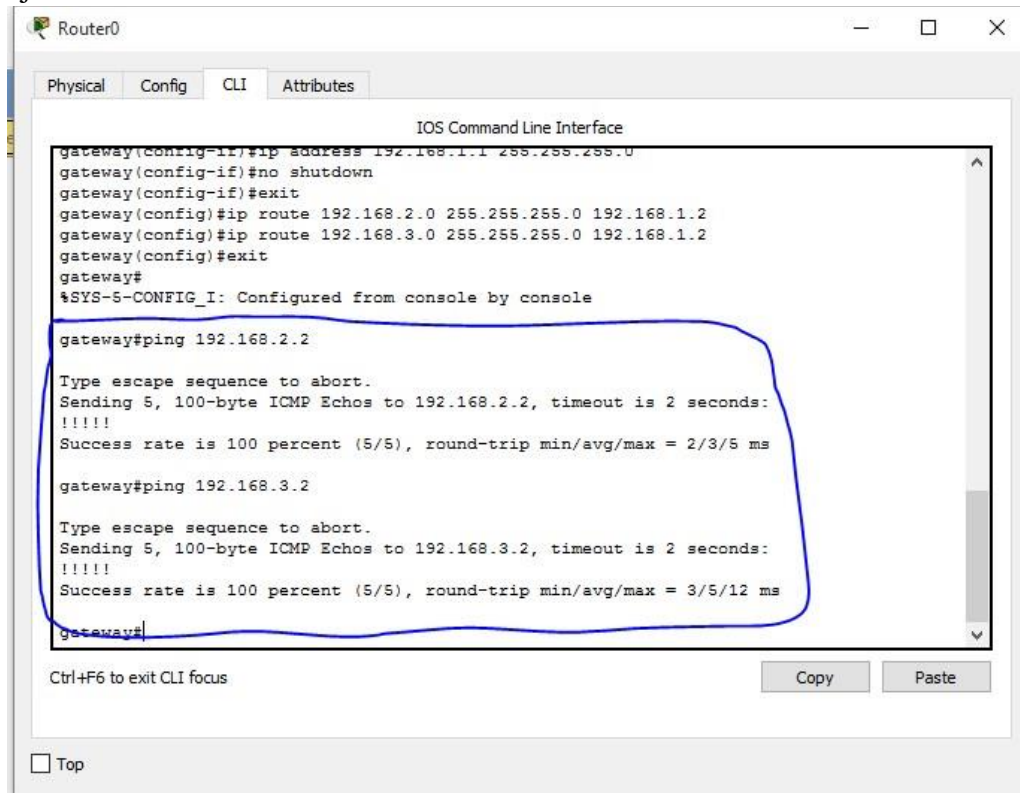
si(config-if)#
%LINK-5-CHANGED: Interface Serial2/0, changed state to up

%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
```

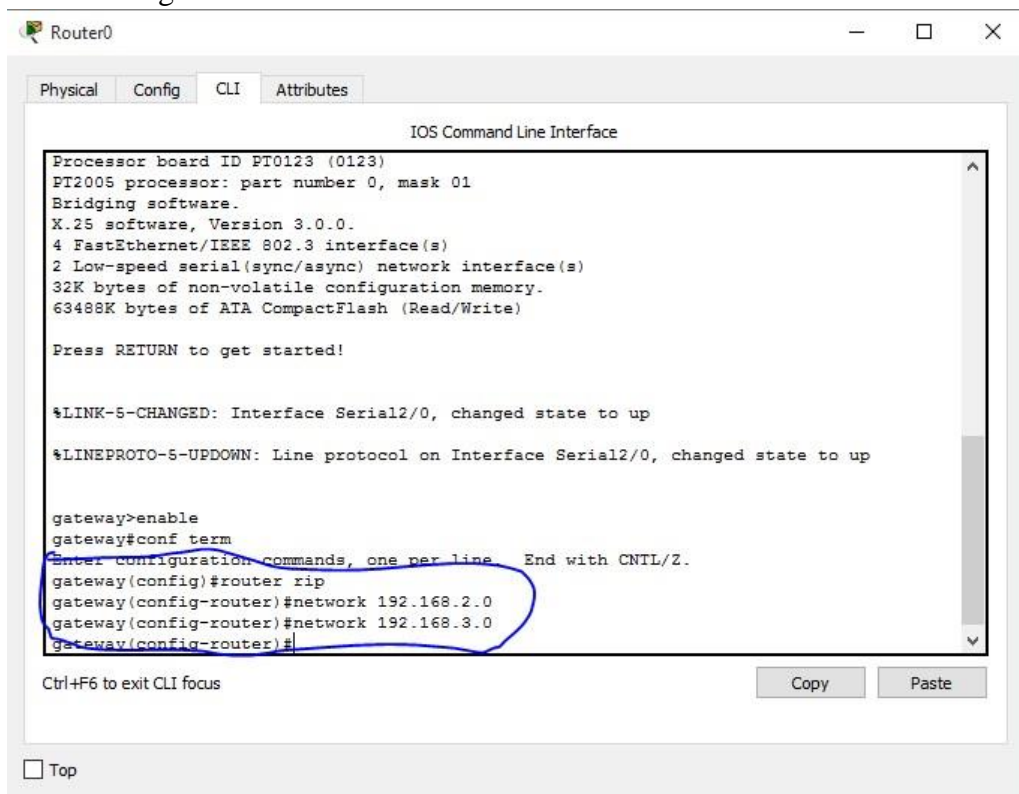
Below the terminal window, there is a 'Ctrl+F6 to exit CLI focus' message and 'Copy' and 'Paste' buttons. A 'Top' button is located at the bottom left of the window.

## 10. Uji konektivitas



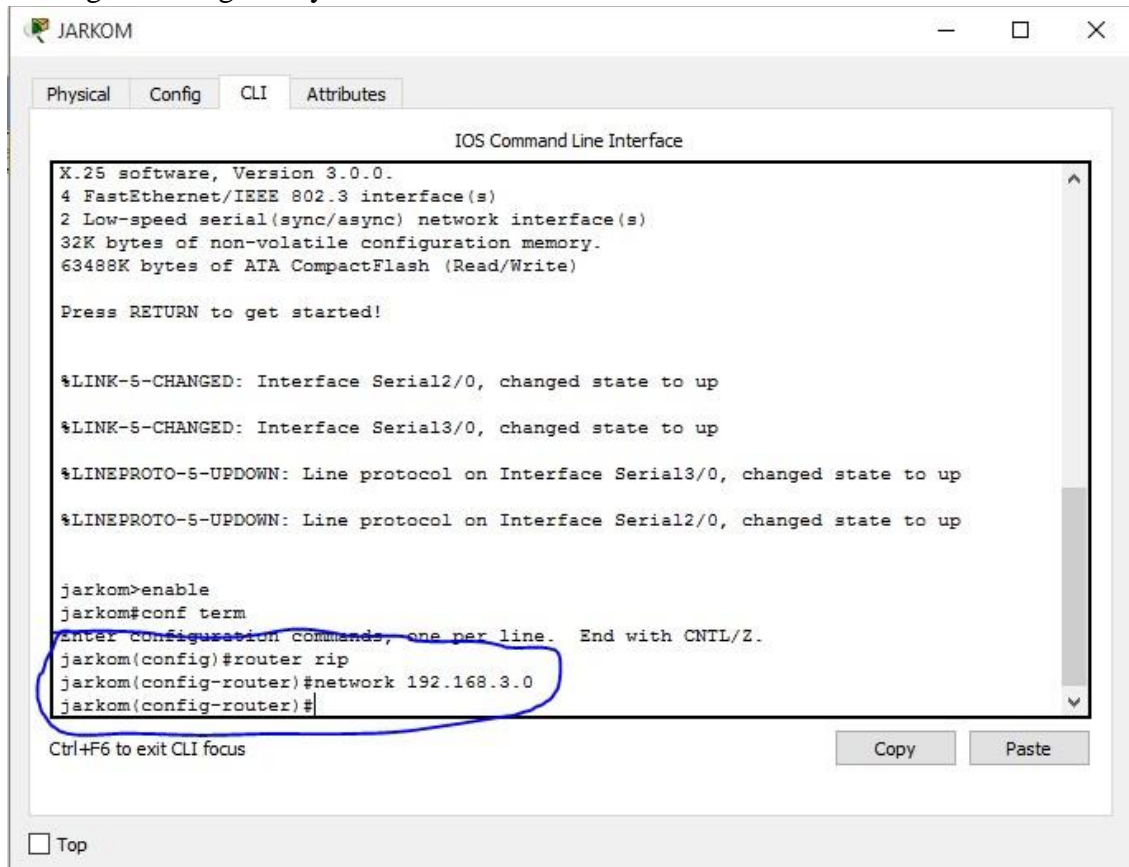
## NOMOR 2 – DINAMIS (RIP)

### 1. Desain Jaringan

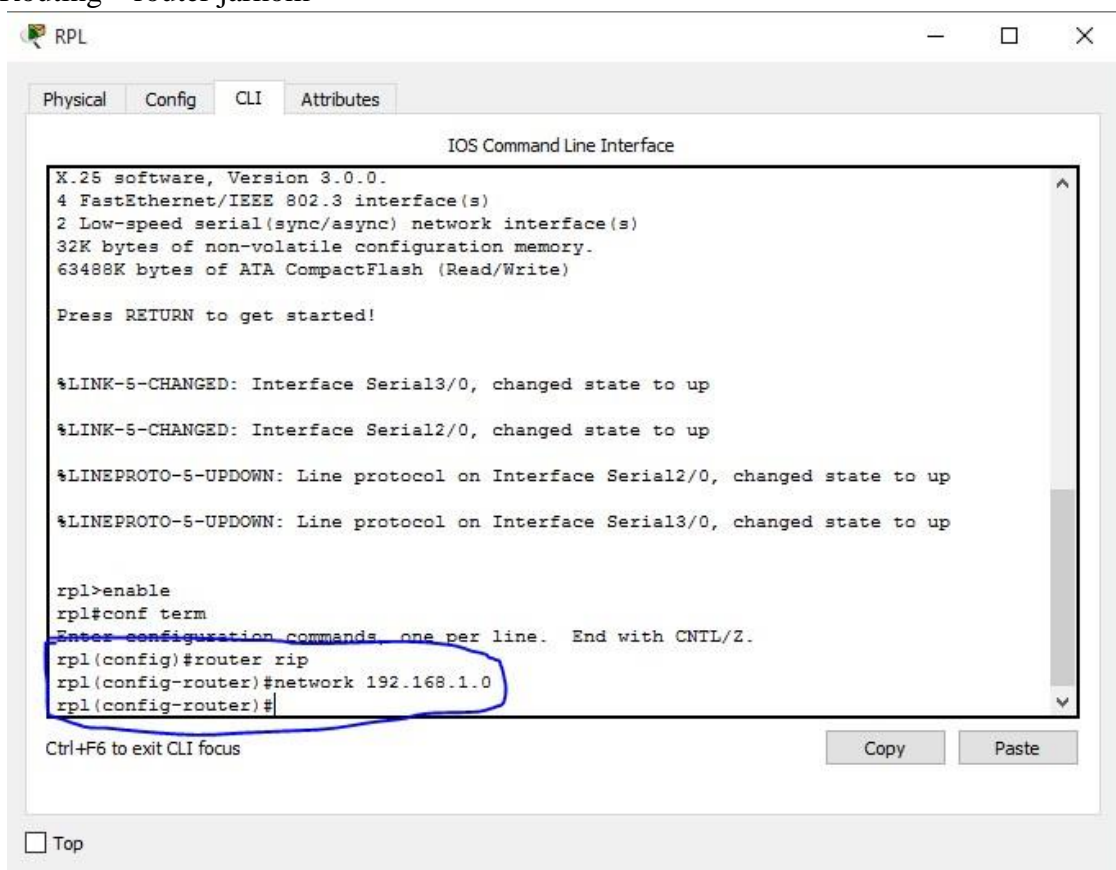




## 2. Routing – router gateway

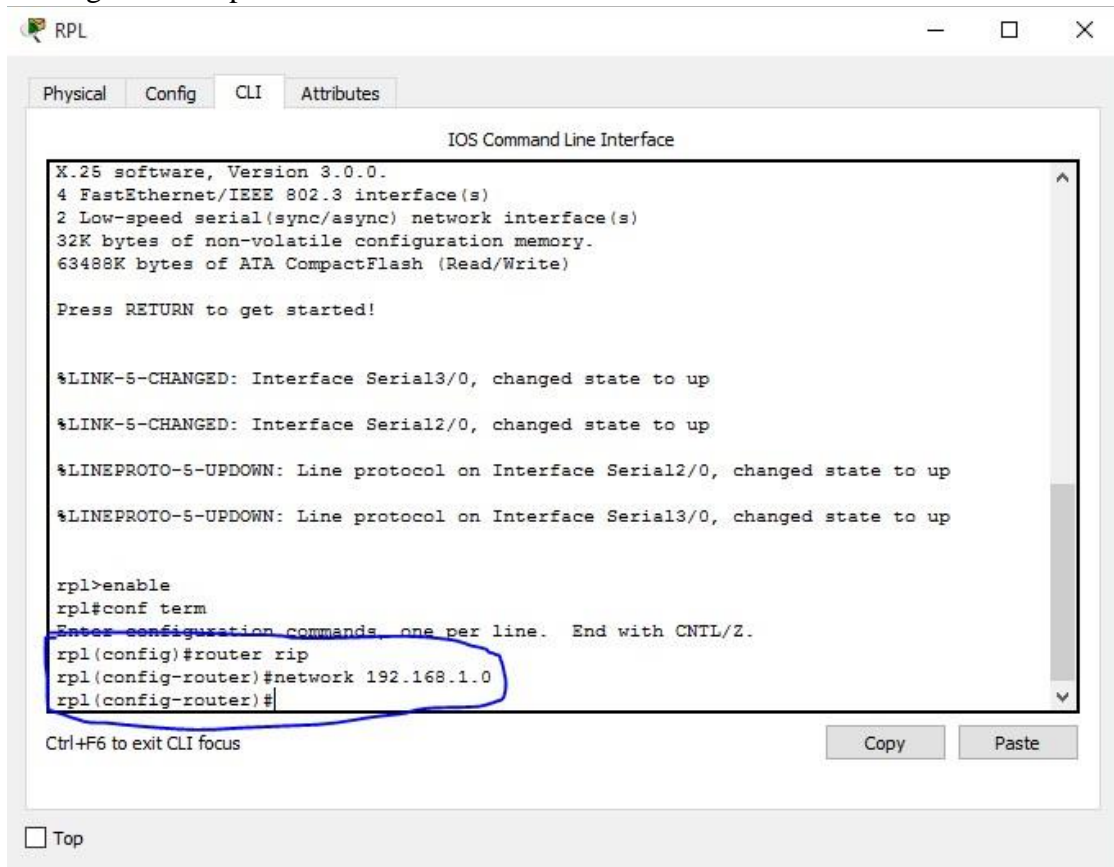


## 3. Routing – router jarkom

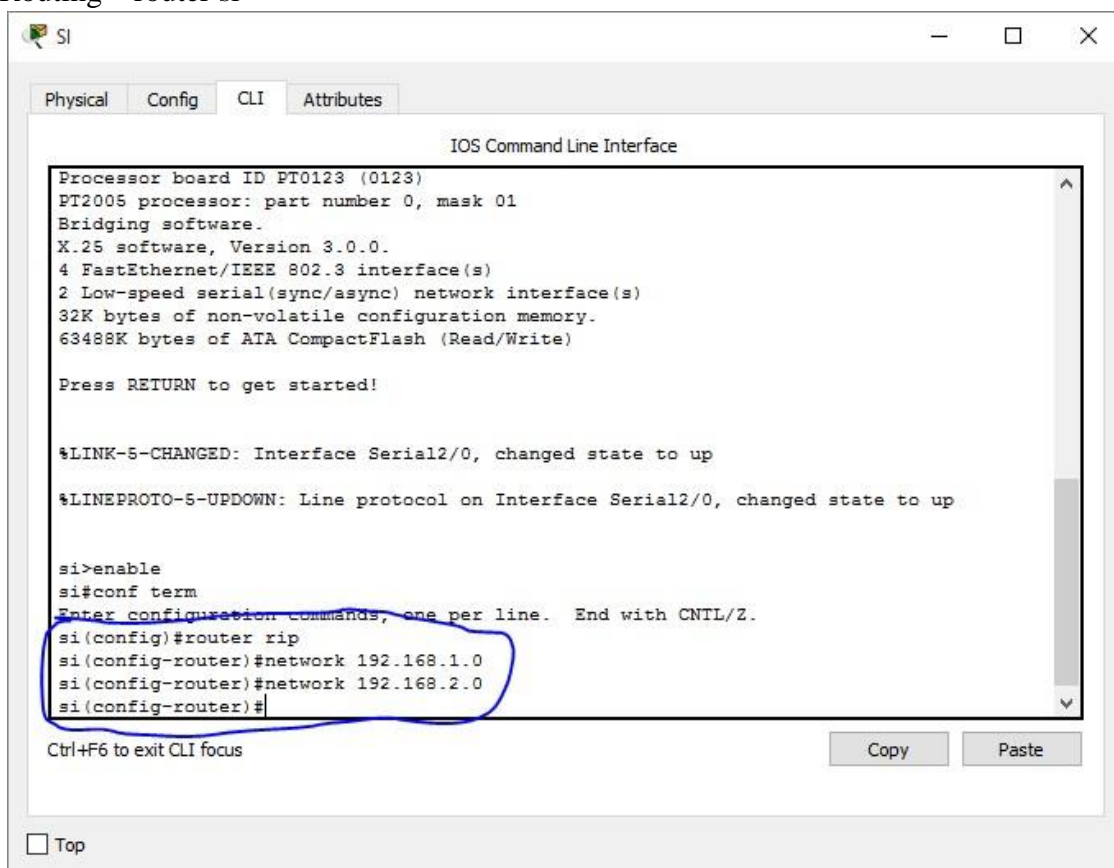




#### 4. Routing – router rpl



#### 5. Routing – router si



## 6. Uji konektivitas

