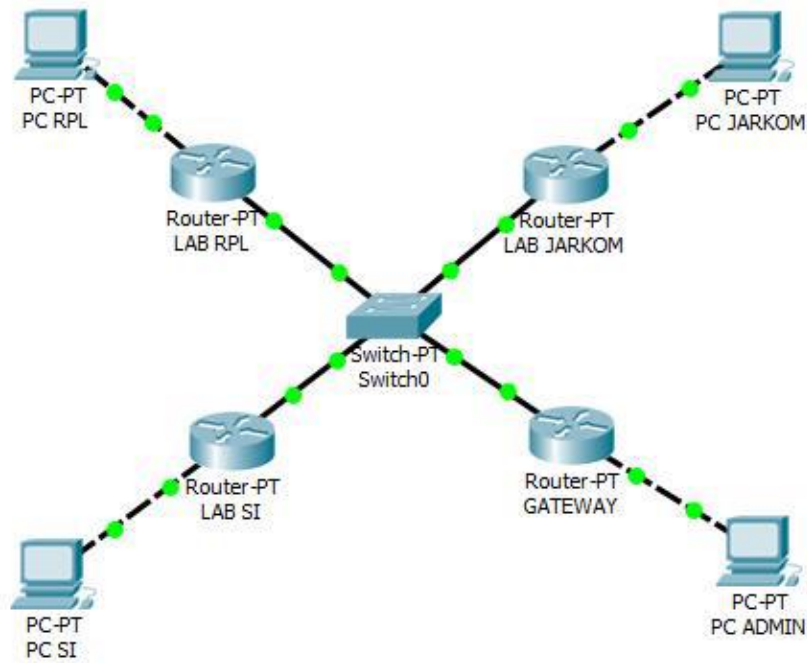


NAMA : PUJI NUGROHO
NIM : L200170123
KELAS : C
MODUL : 11

TUGAS

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

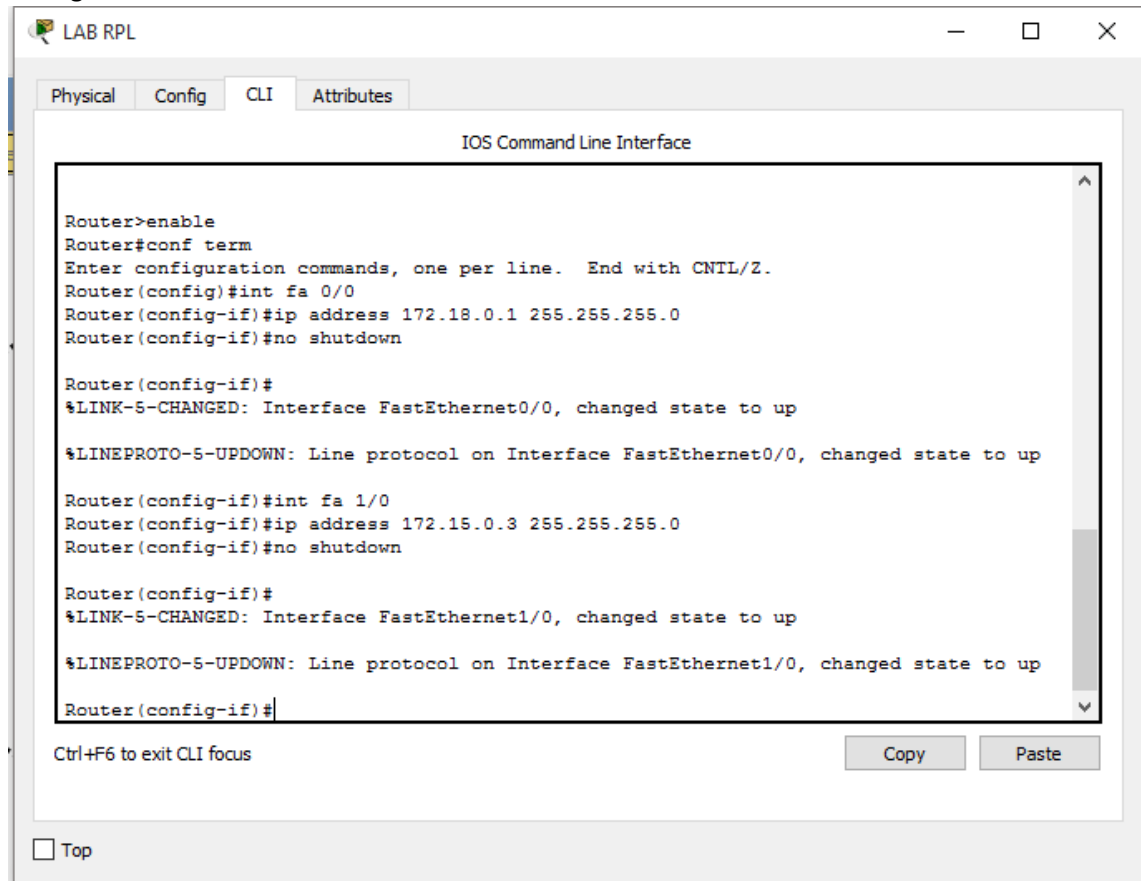
Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up

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

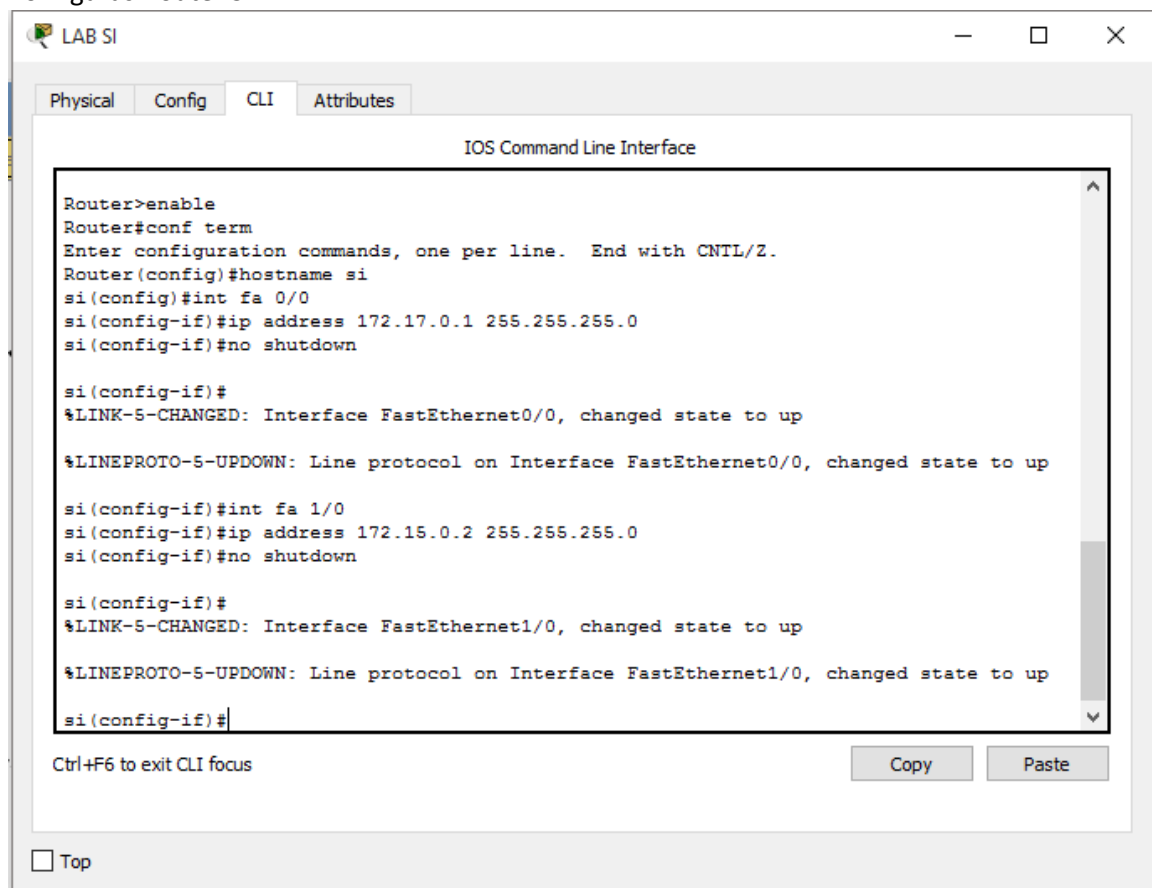
Router(config-if)#exit
Router(config)#hostname jarkom
jarkom(config)#

Ctrl+F6 to exit CLI focus
Copy Paste
Top
```

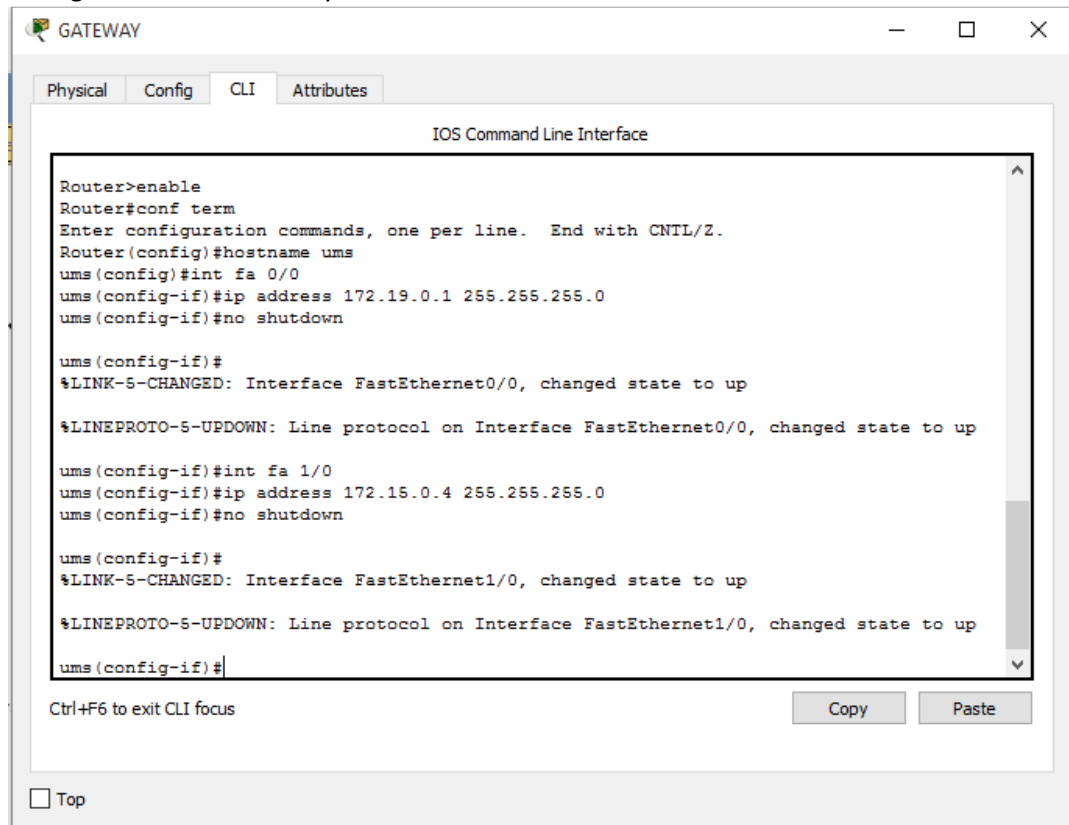
3. Konfigurasi router RPL



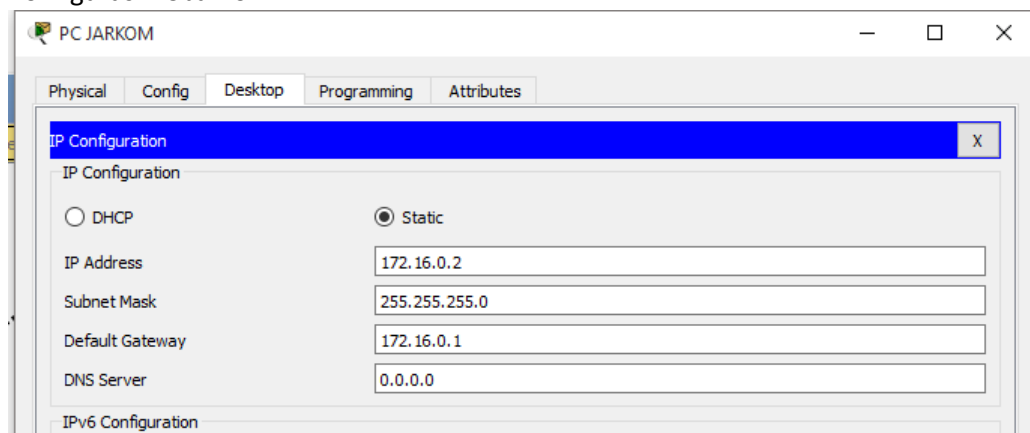
4. Konfigurasi router SI



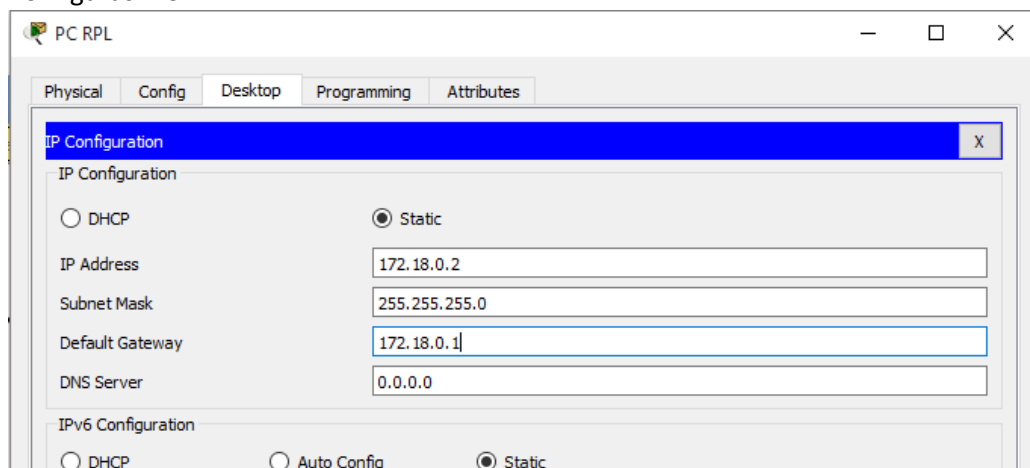
5. Konfigurasi router Gateway



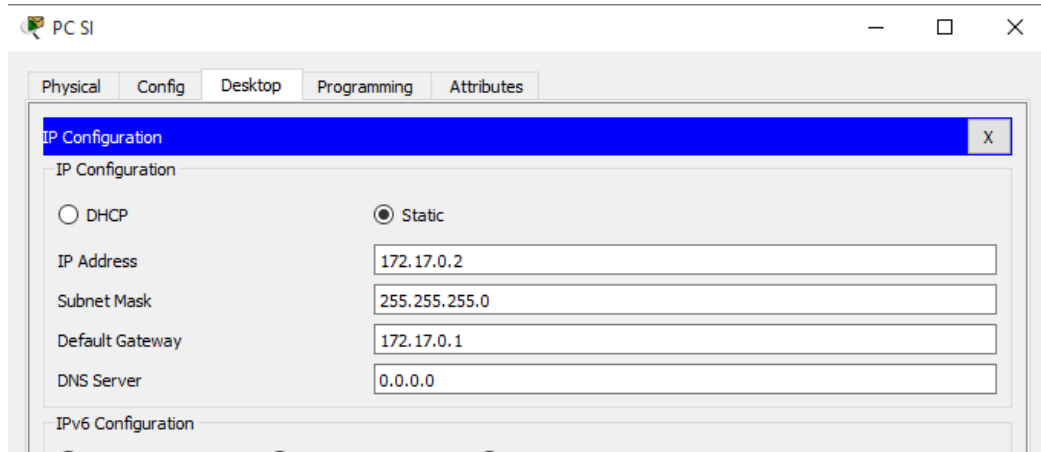
6. Konfigurasi PC Jarkom



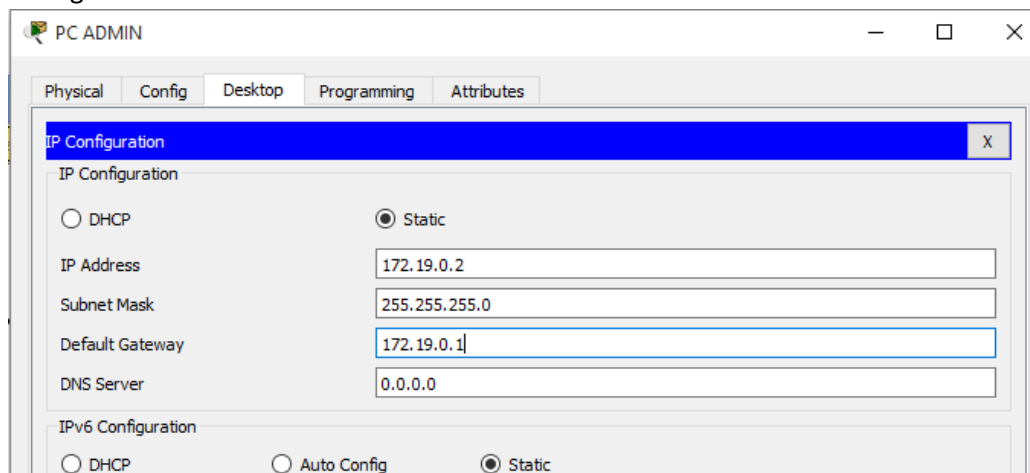
7. Konfigurasi PC RPL



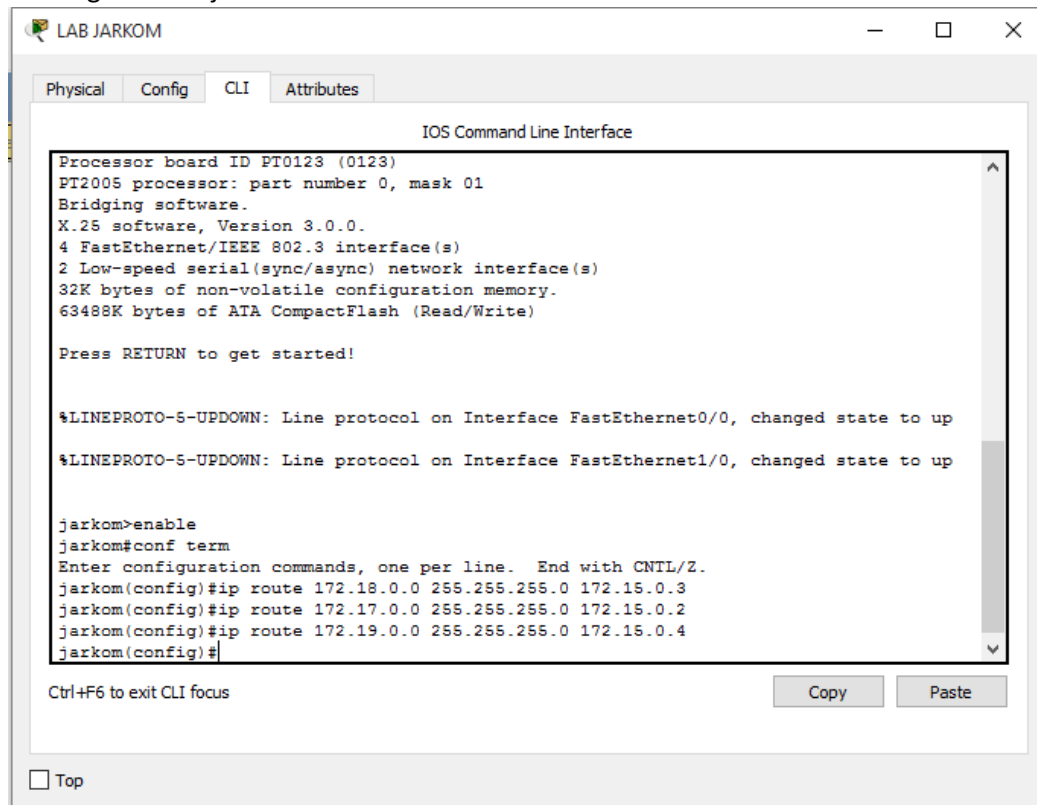
8. Konfigurasi PC SI



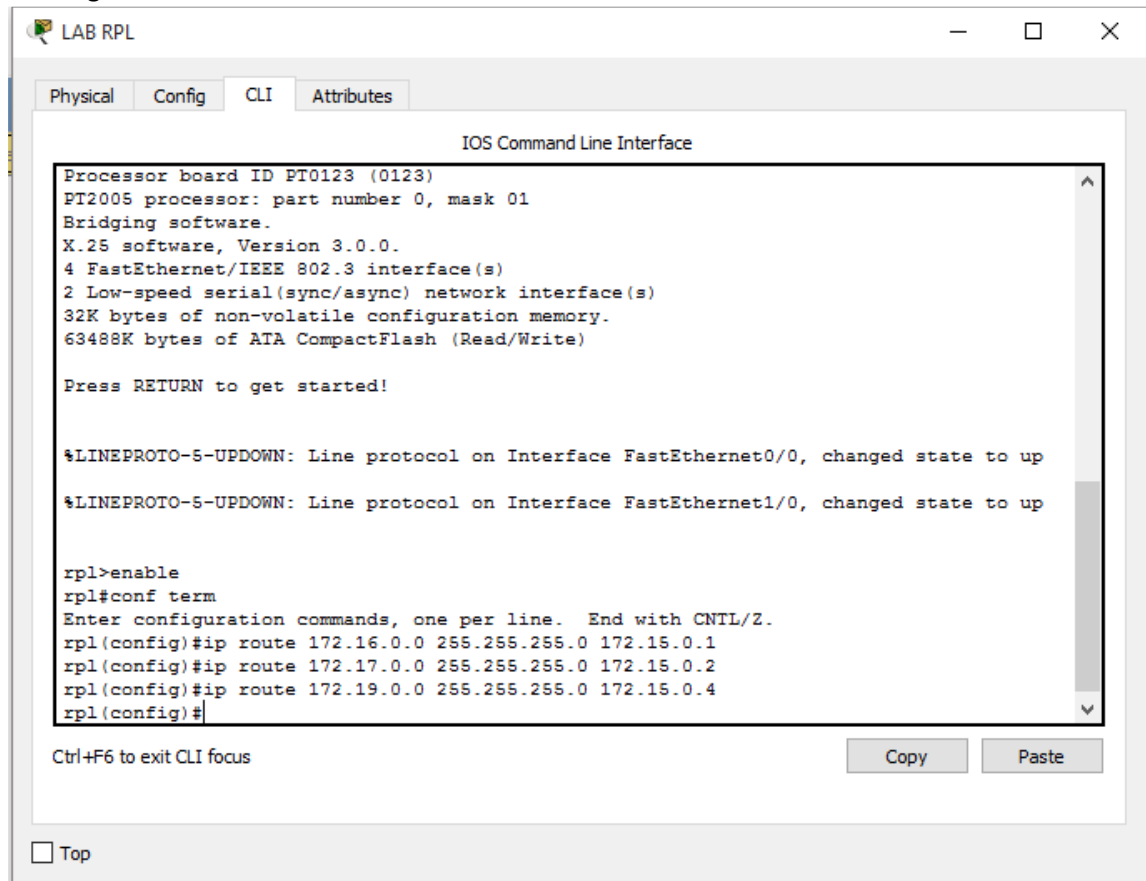
9. Konfigurasi PC Admin



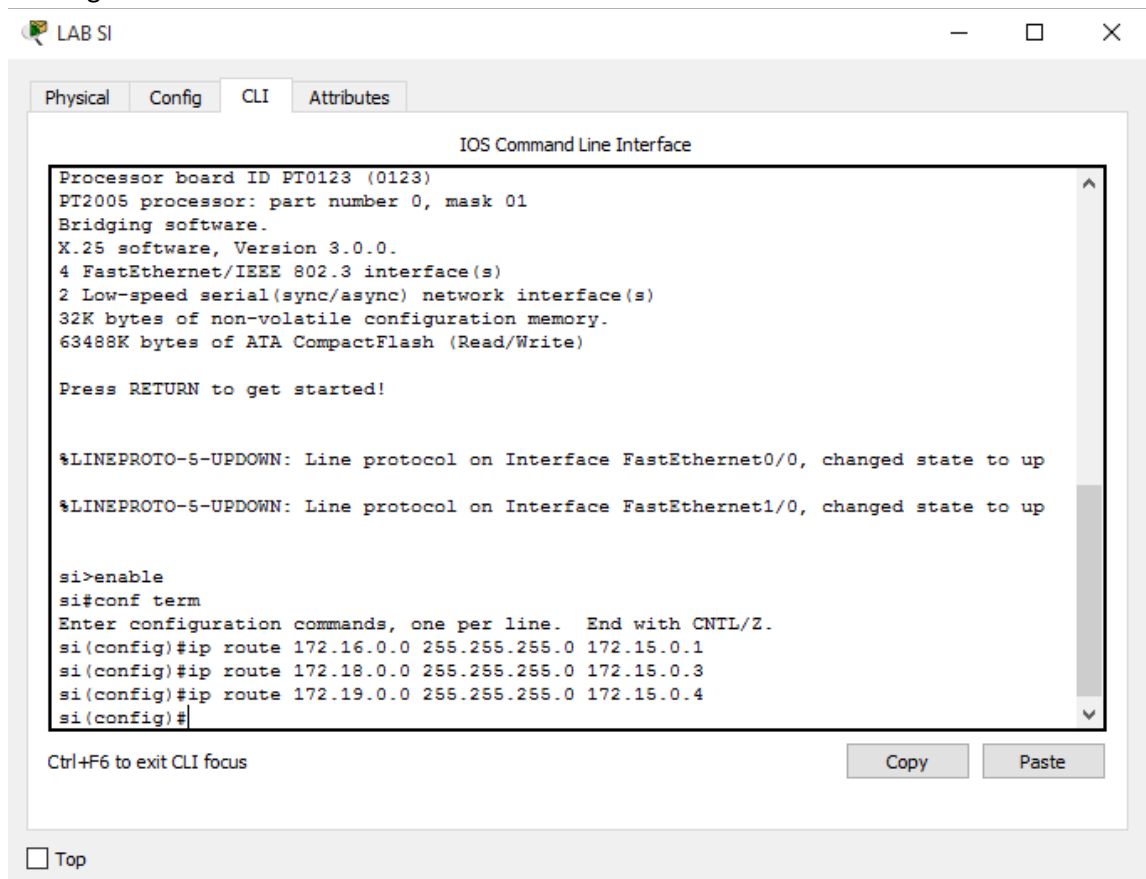
10. Routing – router jarkom



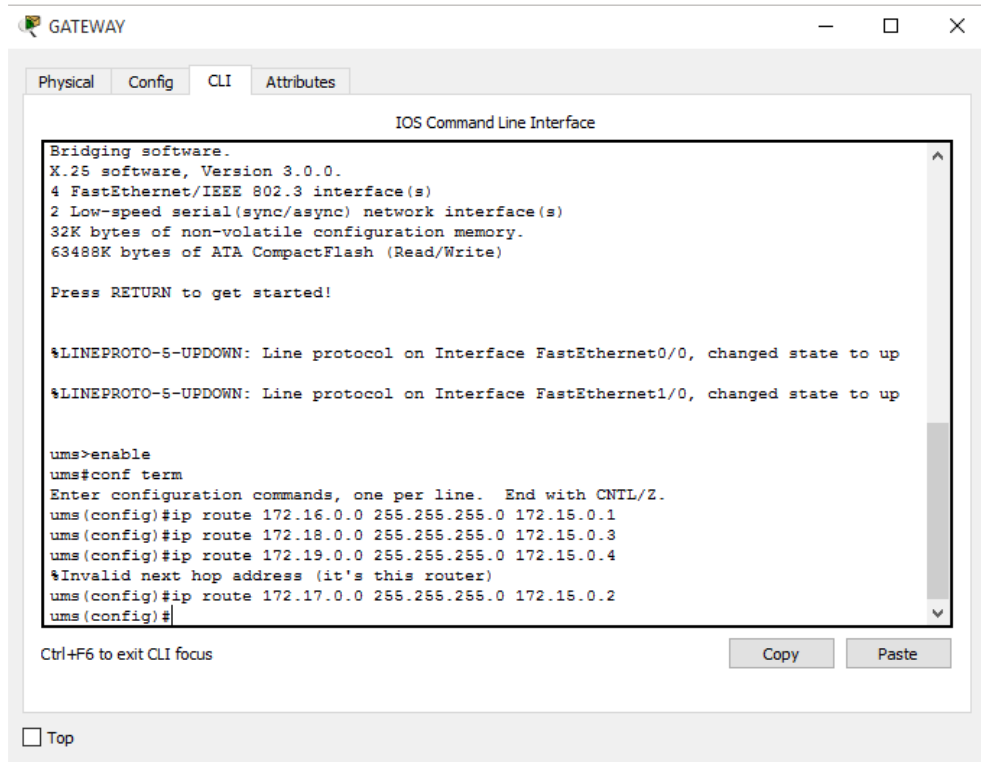
11. Routing – router RPL



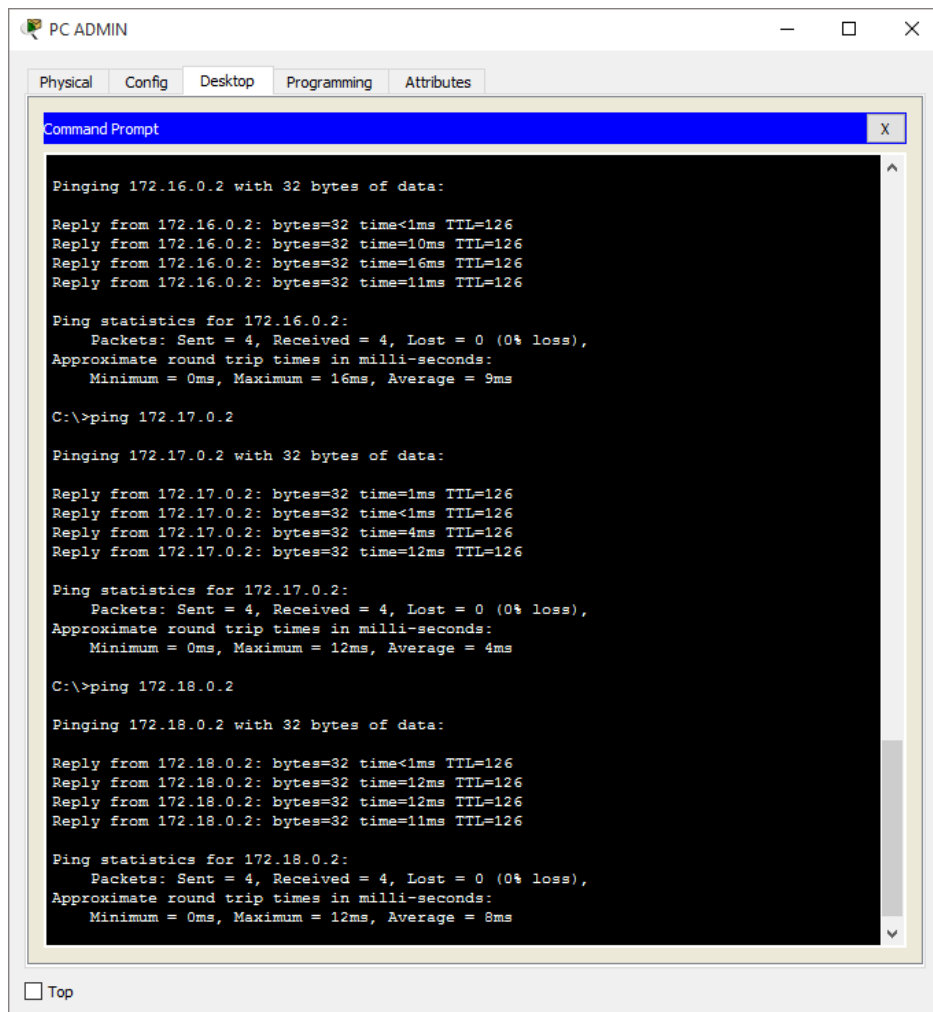
12. Routing – router SI



13. Routing – router Gateway



14. Melakukan PING



NOMOR 2

A-STATIS

1. Desain jaringan



2. Konfigurasi router Gateway

```
Router0
Physical Config CLI Attributes
IOS Command Line Interface
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 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)#
```

3. Konfigurasi router jarkom

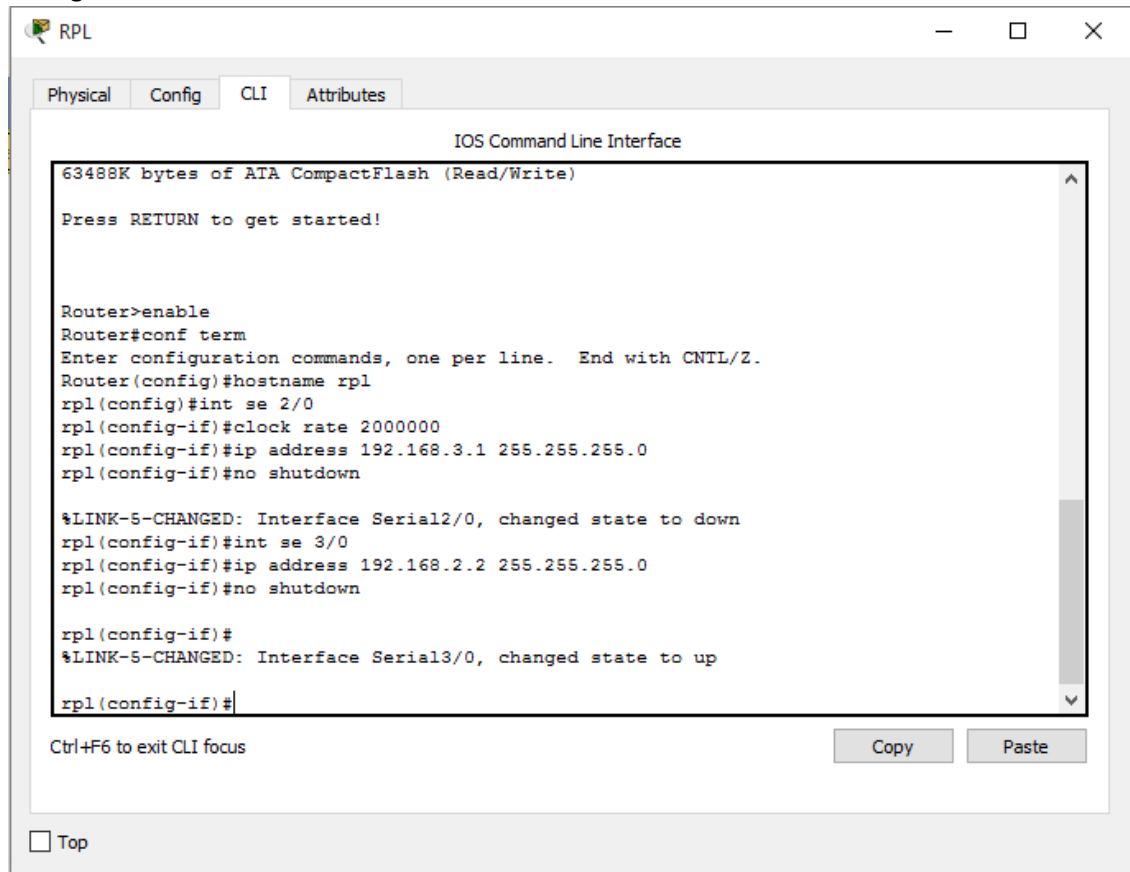
```
JARKOM
Physical Config CLI Attributes
IOS Command Line Interface
2 Low-speed serial(sync/async) network interface(s)
32K bytes of non-volatile configuration memory.
63488K bytes of ATA CompactFlash (Read/Write)

Press RETURN to get started!

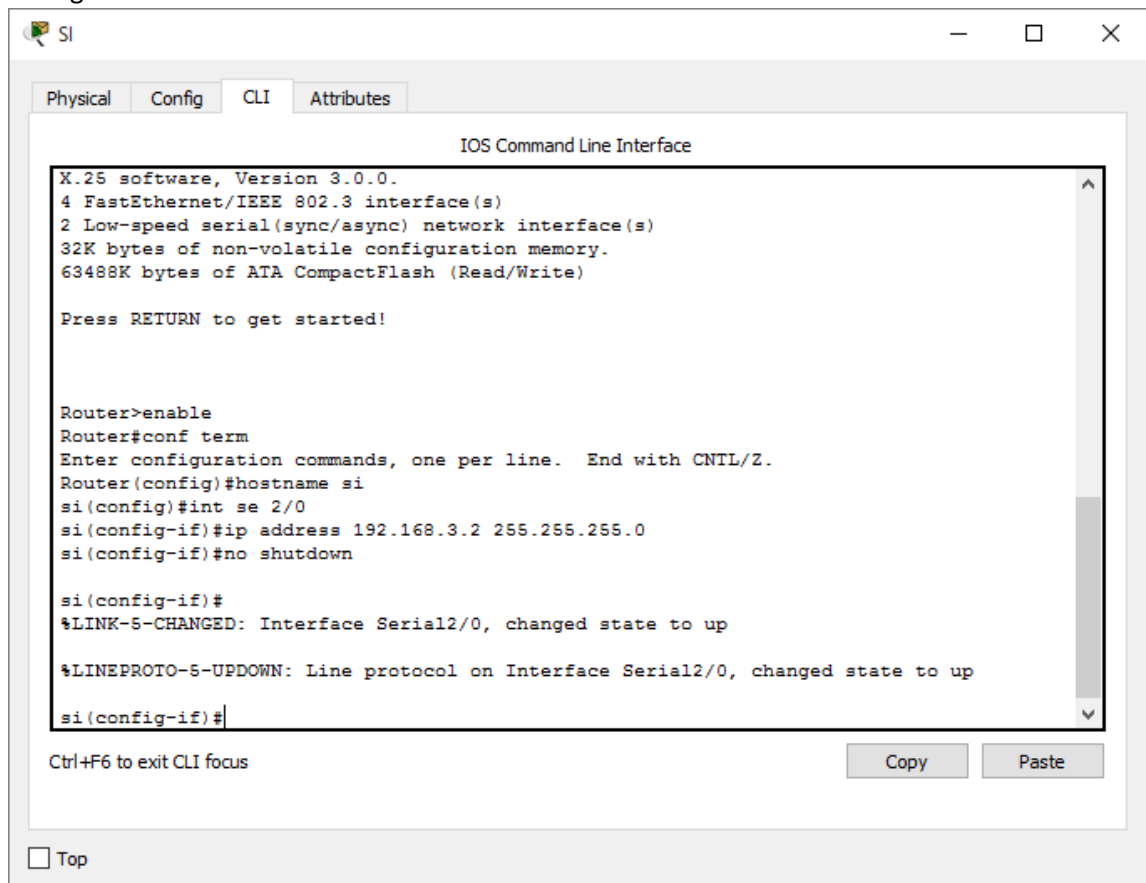
%LINK-5-CHANGED: Interface Serial2/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up

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)#
```

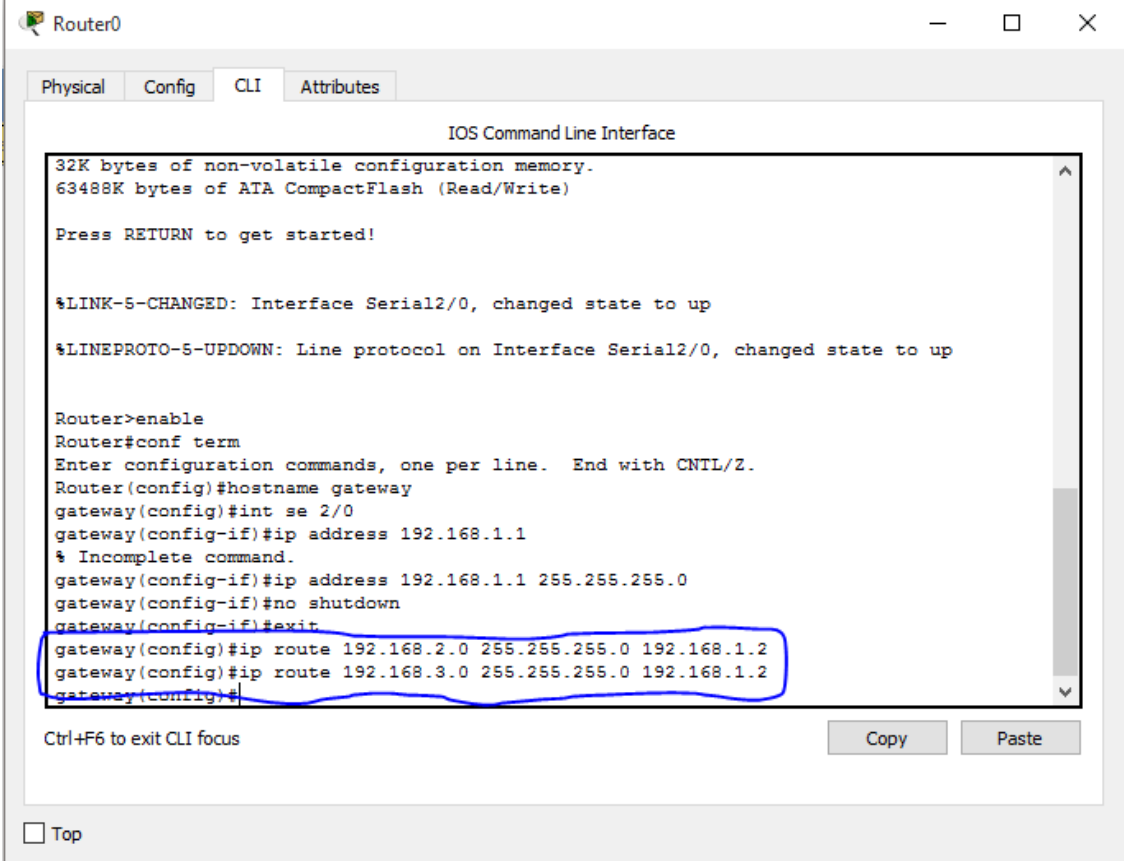
4. Konfigurasi router RPL



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 text in the CLI window includes system memory information, status messages for Serial2/0, and a series of configuration commands. The commands for setting up static routes are highlighted with a blue oval. At the bottom, there are buttons for Copy and Paste, and a checkbox for Top.

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

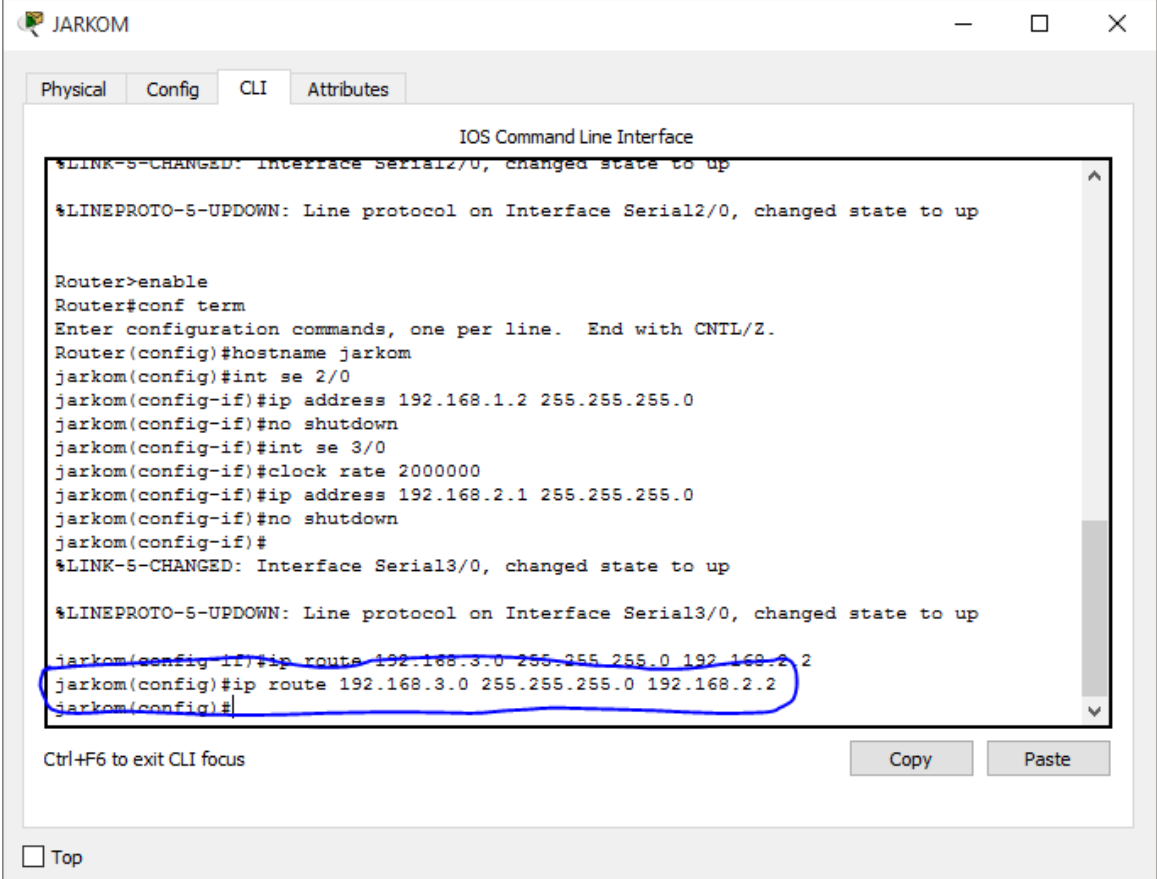
Press RETURN to get started!

%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
Copy Paste
Top
```

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 text in the CLI window includes status messages for Serial2/0 and Serial3/0, and a series of configuration commands. The commands for setting up static routes are highlighted with a blue oval. At the bottom, there are buttons for Copy and Paste, and a checkbox for Top.

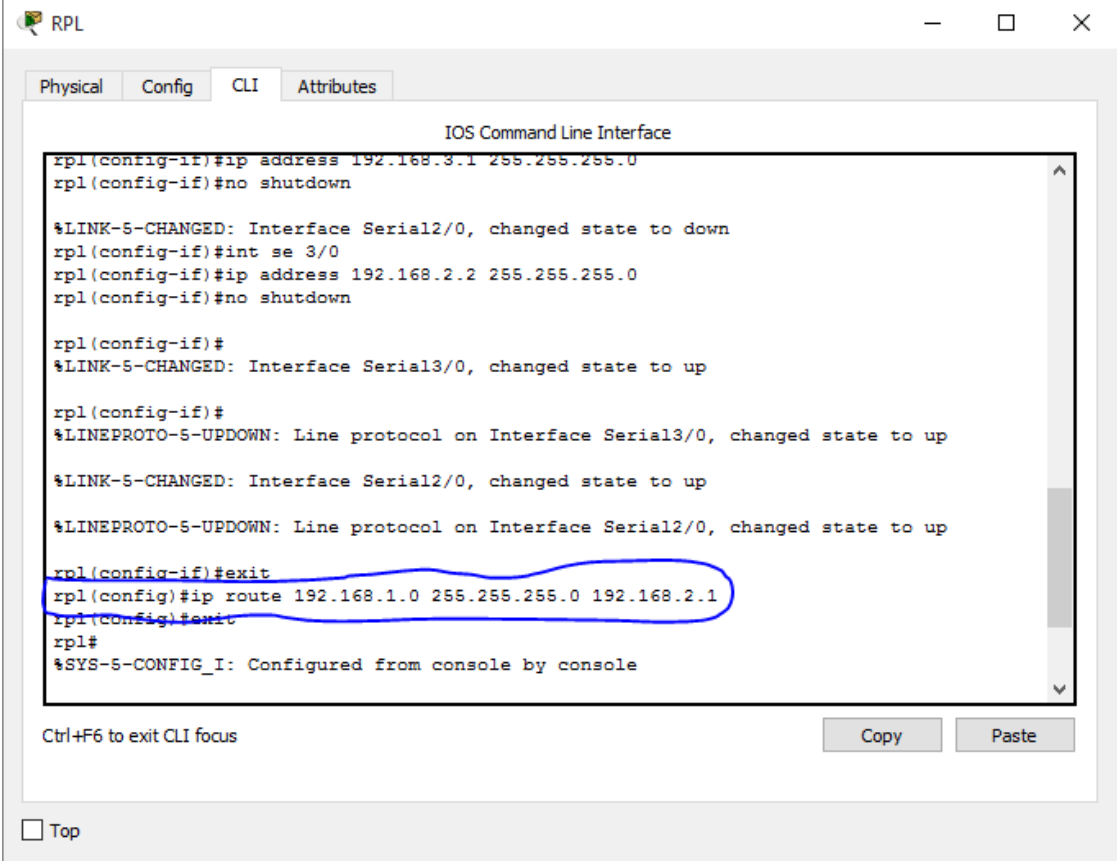
```
JARKOM
Physical Config CLI Attributes
IOS Command Line Interface
%LINK-5-CHANGED: Interface Serial2/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up

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
Copy Paste
Top
```

8. Routing – router RPL



The screenshot shows the RPL router CLI interface with 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

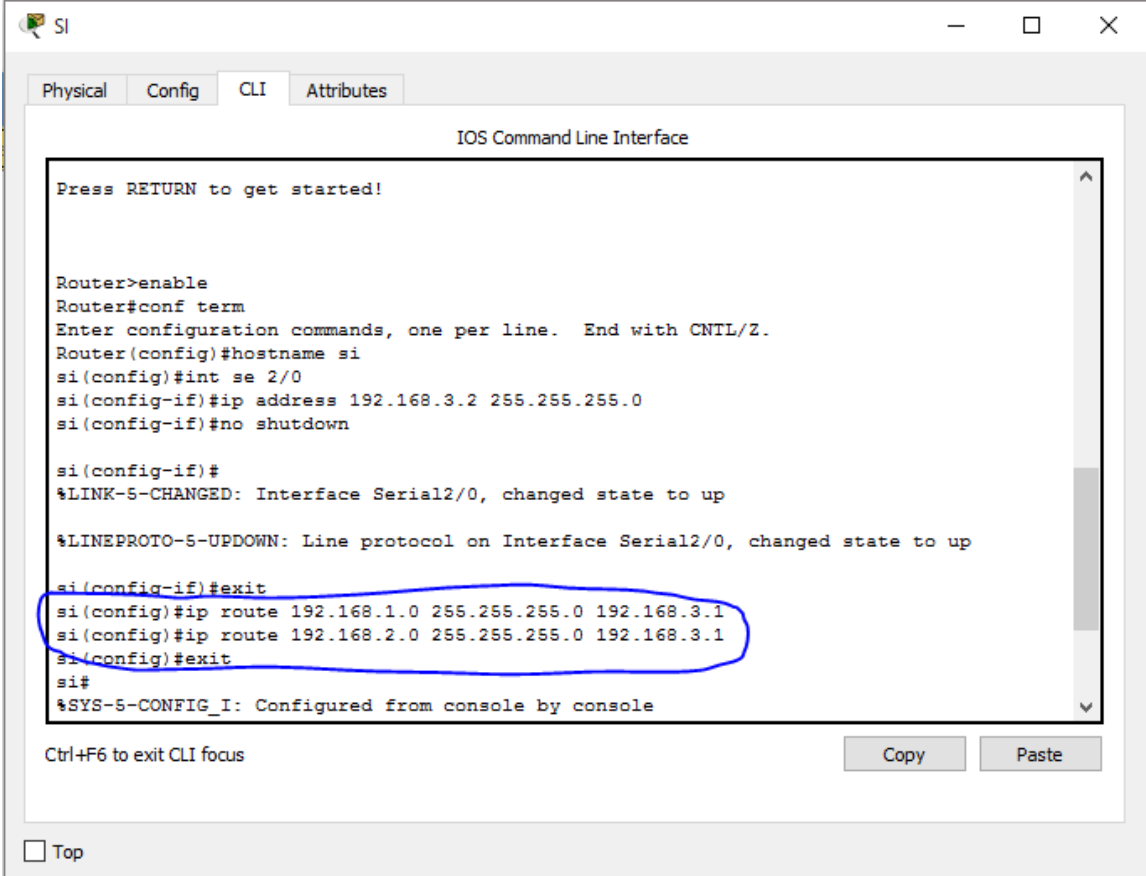
%LINK-5-CHANGED: Interface Serial2/0, changed state to up

%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 CLI window, there is a "Ctrl+F6 to exit CLI focus" message and "Copy" and "Paste" buttons. A "Top" button is also visible at the bottom left.

9. Routing – router SI



The screenshot shows the SI router CLI interface with 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

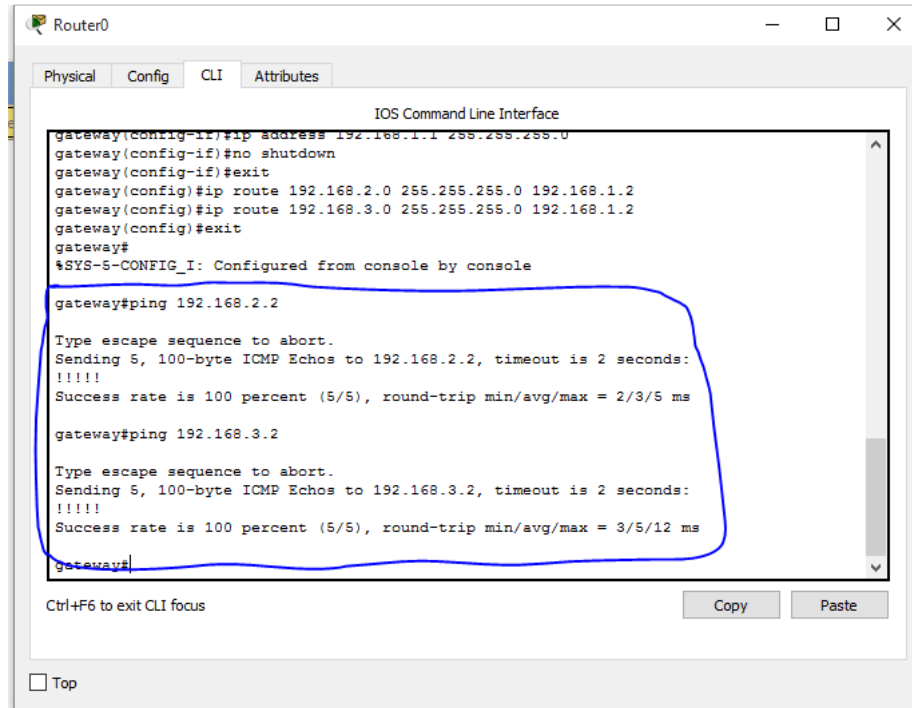
si(config-if)#
%LINK-5-CHANGED: Interface Serial2/0, changed state to up

%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 CLI window, there is a "Ctrl+F6 to exit CLI focus" message and "Copy" and "Paste" buttons. A "Top" button is also visible at the bottom left.

10. Uji Konektivitas



The screenshot shows the Router0 CLI interface with the following commands and output:

```
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)#exit
gateway#
%SYS-5-CONFIG_I: Configured from console by console

gateway#ping 192.168.2.2

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.2.2, timeout is 2 seconds:
!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 2/3/5 ms

gateway#ping 192.168.3.2

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.3.2, timeout is 2 seconds:
!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 3/5/12 ms

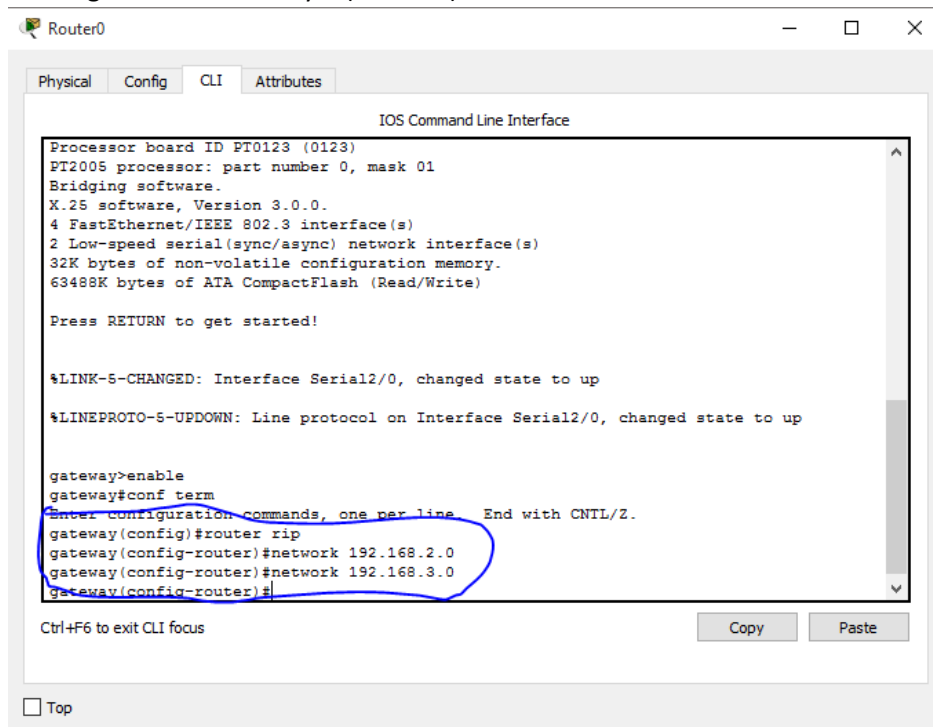
gateway#
```

B-DINAMIS

1. Jaringan



2. Routing - Router Gateway > (Router0)



The screenshot shows the Router0 CLI interface with the following commands and output:

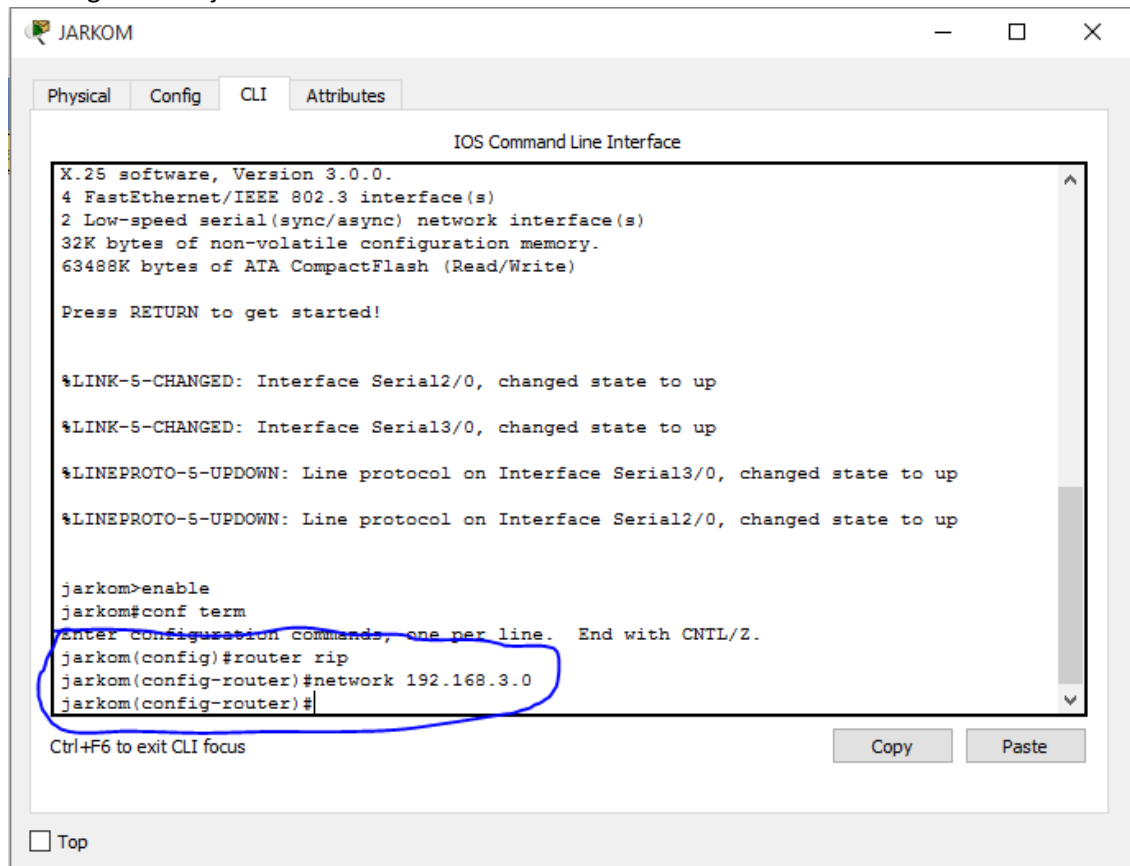
```
Processor board ID PT0123 (0123)
PT2005 processor: part number 0, mask 01
Bridging software.
X.25 software, Version 3.0.0.
4 FastEthernet/IEEE 802.3 interface(s)
2 Low-speed serial(sync/async) network interface(s)
32K bytes of non-volatile configuration memory.
63488K bytes of ATA CompactFlash (Read/Write)

Press RETURN to get started!

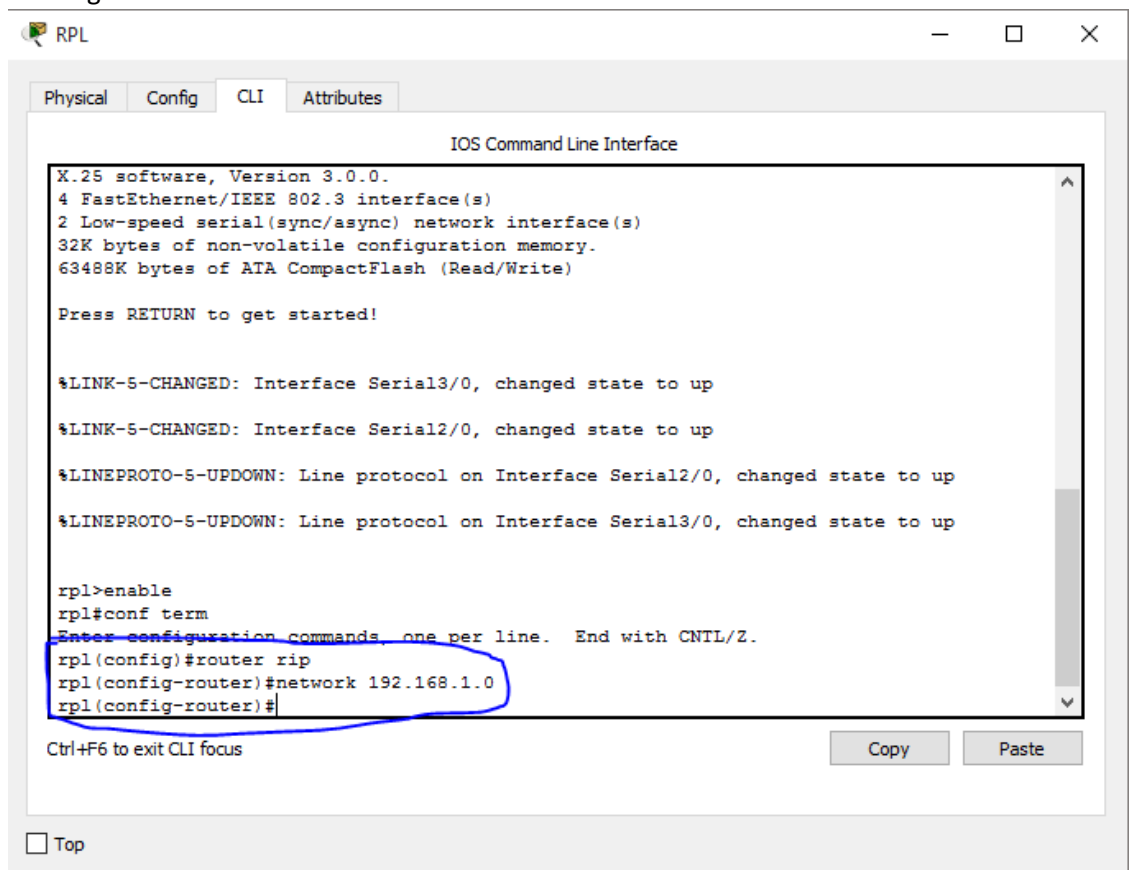
%LINK-5-CHANGED: Interface Serial2/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up

gateway>enable
gateway#conf term
Enter configuration commands, one per line. End with CNTL/Z.
gateway(config)#router rip
gateway(config-router)#network 192.168.2.0
gateway(config-router)#network 192.168.3.0
gateway(config-router)#
```

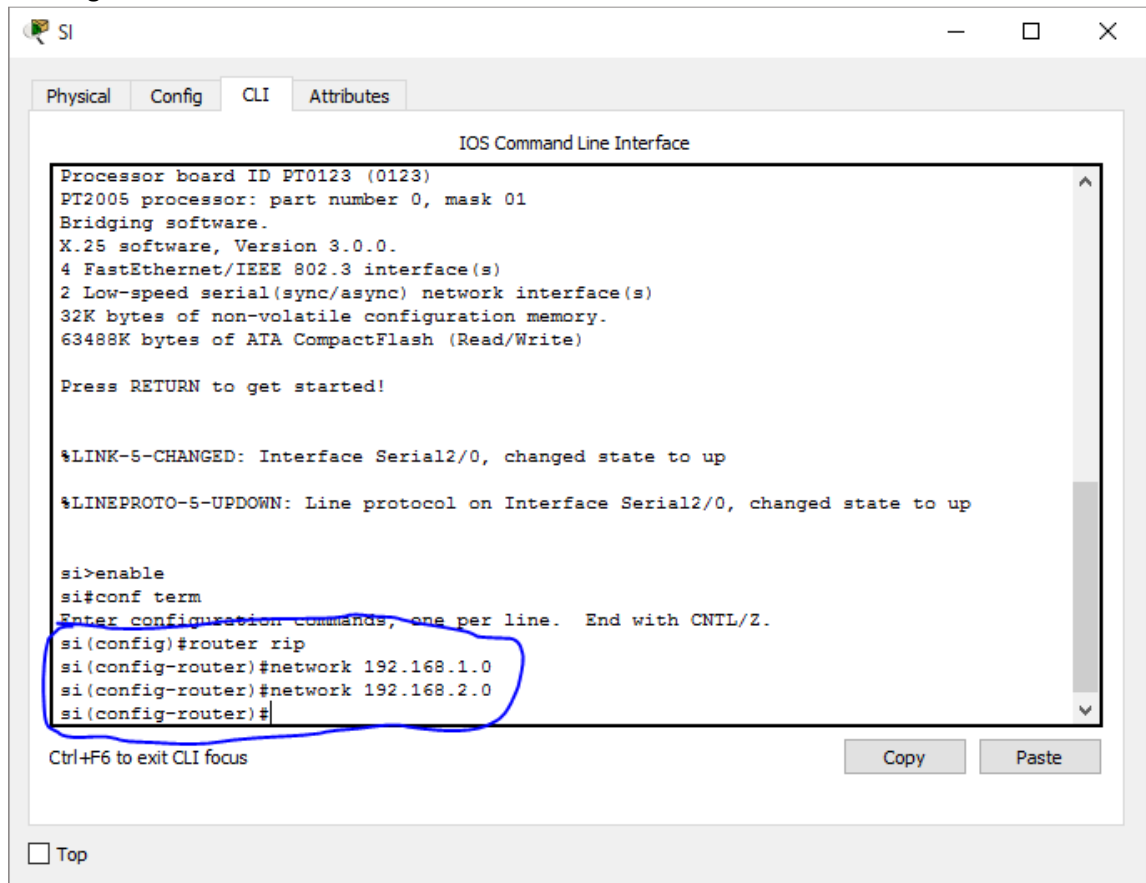
3. Routing – router jarkom



4. Routing – router RPL



5. Routing – router SI



6. Uji Konektivitas

