Nama : Riska Meilina Puspa

NIM : L200180192
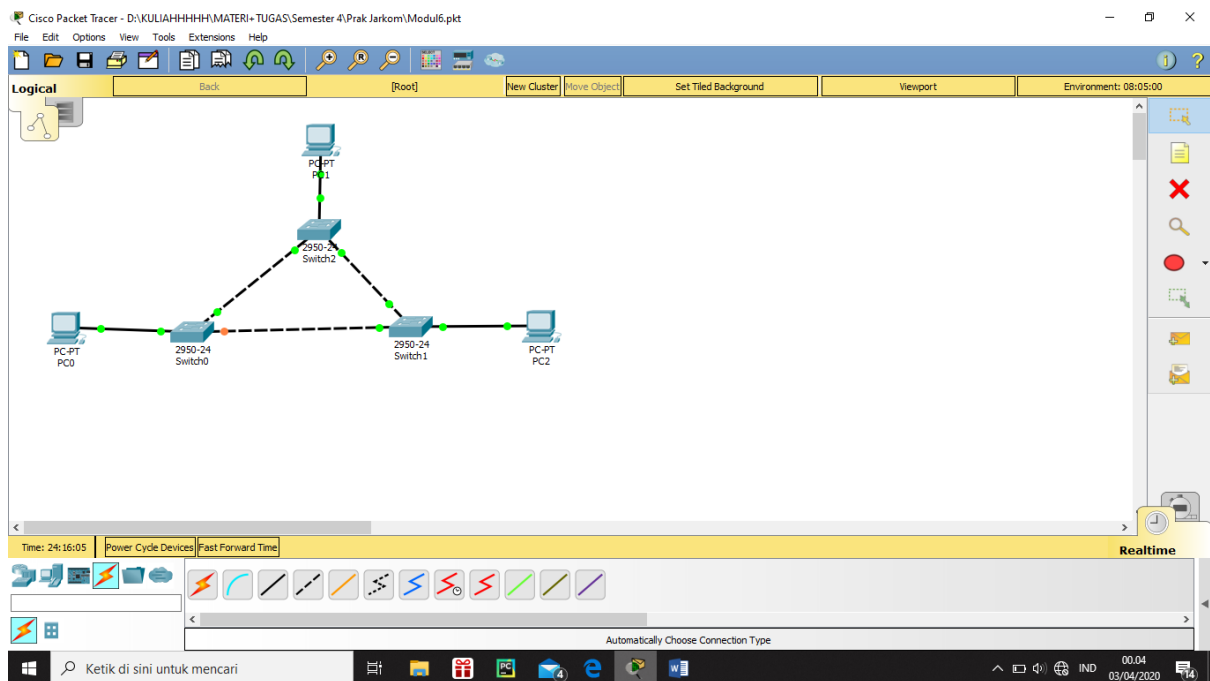
Kelas : E

Modul 6

Praktikum Jaringan dan Komputer

Kegiatan 1

Membuat topologi dengan smengunakan switch Catalyst 2950

Tugas 1A

Switch2 — □ ×

Physical | **Config** | CLI | Attributes

GLOBAL
Settings
Algorithm Settings
SWITCHING
VLAN Database
INTERFACE
FastEthernet0/1
FastEthernet0/2
FastEthernet0/3
FastEthernet0/4
FastEthernet0/5
FastEthernet0/6
FastEthernet0/7
FastEthernet0/8
FastEthernet0/9

Global Settings

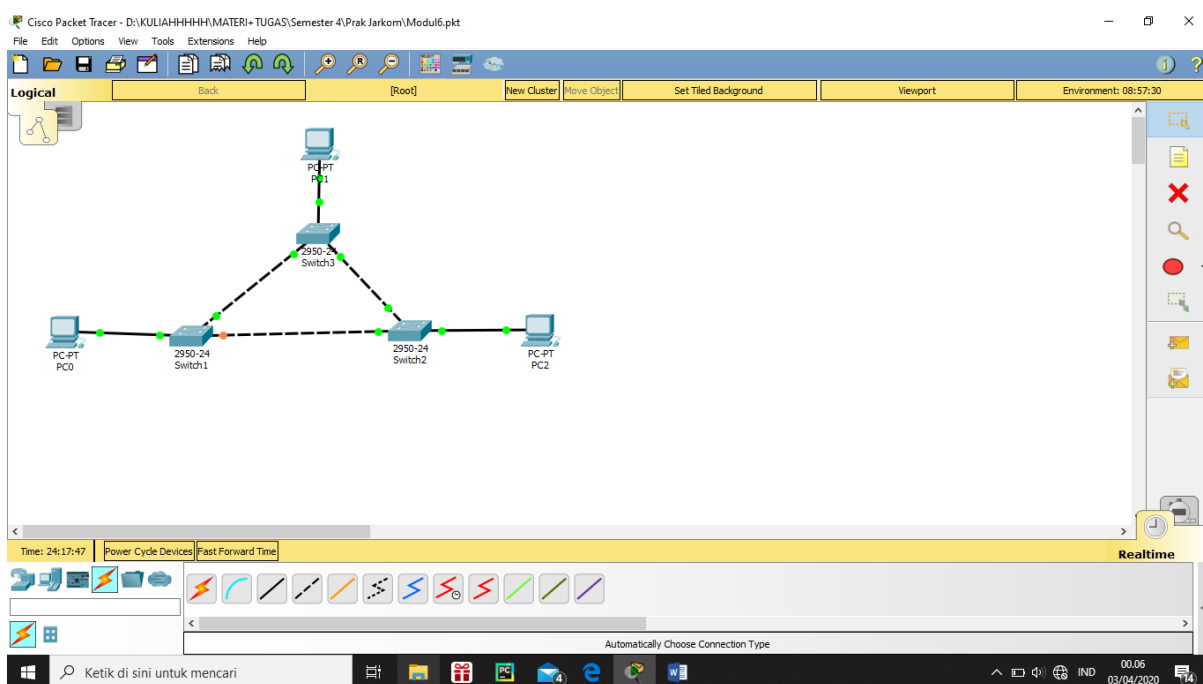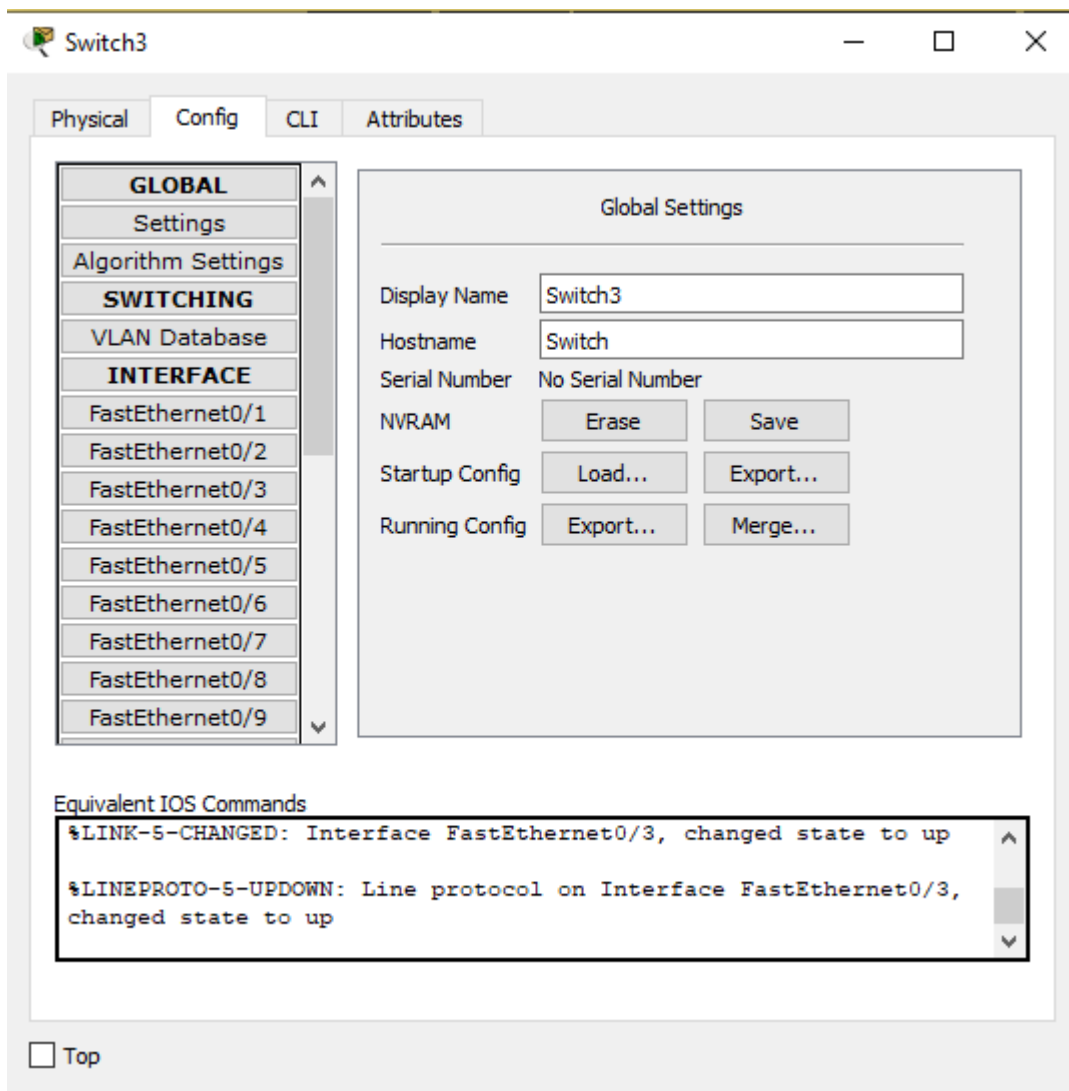|	
Display Name	Switch2
Hostname	Switch
Serial Number	No Serial Number
NVRAM	Erase Save
Startup Config	Load... Export...
Running Config	Export... Merge...

Equivalent IOS Commands

```
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1,
changed state to up
```

☐ Top

Switch3

| Physical | Config | CLI | Attributes |

Global Settings

GLOBAL	
Settings	
Algorithm Settings	
SWITCHING	
VLAN Database	
INTERFACE	
FastEthernet0/1	
FastEthernet0/2	
FastEthernet0/3	
FastEthernet0/4	
FastEthernet0/5	
FastEthernet0/6	
FastEthernet0/7	
FastEthernet0/8	
FastEthernet0/9	

Display Name   Switch3

Hostname   Switch

Serial Number   No Serial Number

NVRAM   Erase   Save

Startup Config   Load...   Export...
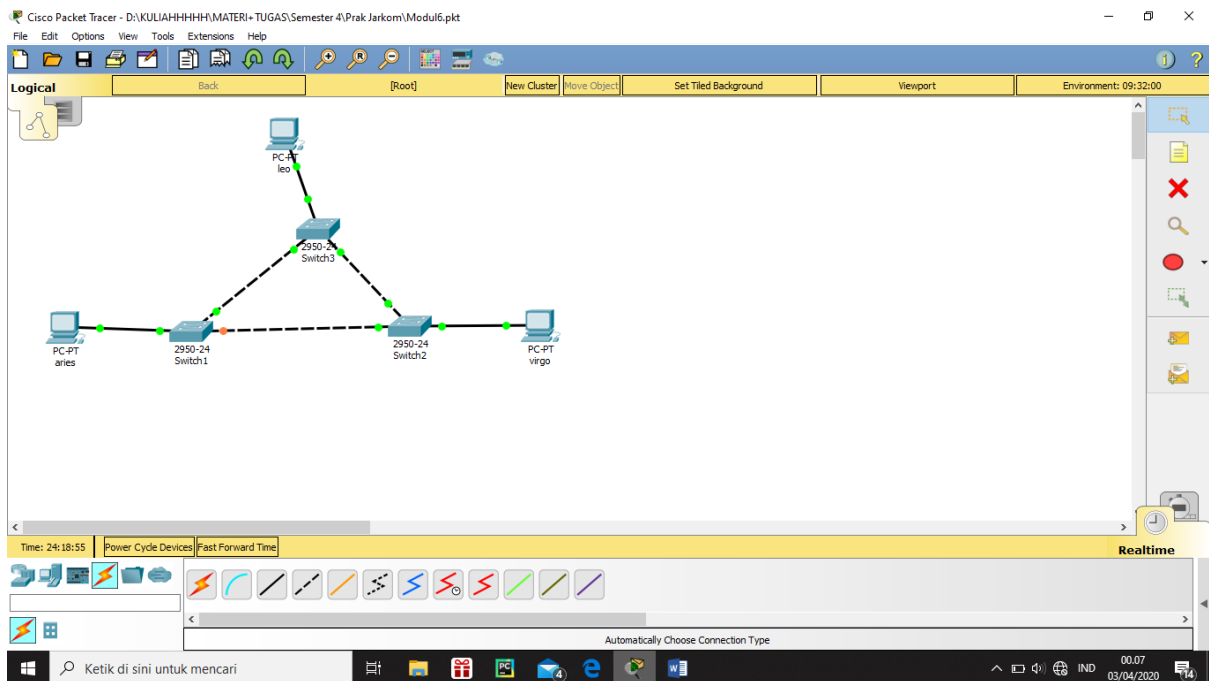
Running Config   Export...   Merge...

Equivalent IOS Commands

```
%LINK-5-CHANGED: Interface FastEthernet0/3, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3,
changed state to up
```

☐ Top

Cisco Packet Tracer - D:\KULIAHHHHH\MATERI+TUGAS\Semester 4\Prak Jarkom\Modul6.pkt

File   Edit   Options   View   Tools   Extensions   Help

Logical

Back   [Root]   New Cluster   Move Object   Set Tiled Background   Viewport   Environment: 08:57:30

PC-PT
PC1

2950-24
Switch3

PC-PT   2950-24   2950-24   PC-PT
PC0   Switch1   Switch2   PC2

Time: 24:17:47   Power Cycle Devices   Fast Forward Time

Realtime

Automatically Choose Connection Type

Ketik di sini untuk mencari

00.06
03/04/2020

Tugas 2A

Konfigurasi masing-masing PC

aries

Physical | Config | Desktop | Programming | Attributes

IP Configuration

X

IP Configuration

( ) DHCP   (●) Static

IP Address   172.21.1.2

Subnet Mask   255.255.255.0

Default Gateway   0.0.0.0

DNS Server   0.0.0.0

IPv6 Configuration

( ) DHCP   ( ) Auto Config   (●) Static

IPv6 Address   /

Link Local Address   FE80::203:E4FF:FEB8:6407

IPv6 Gateway

IPv6 DNS Server

☐ Top

virgo

Physical | Config | Desktop | Programming | Attributes

IP Configuration

X

IP Configuration

( ) DHCP   (●) Static

IP Address   172.21.1.3

Subnet Mask   255.255.255.0

Default Gateway   0.0.0.0

DNS Server   0.0.0.0

IPv6 Configuration

( ) DHCP   ( ) Auto Config   (●) Static

IPv6 Address   /

Link Local Address   FE80::2D0:BAFF:FE11:DB

IPv6 Gateway

IPv6 DNS Server

☐ Top

Tugas 4A

Switch2 — □ ×

Physical   Config   CLI   Attributes

IOS Command Line Interface

```
Switch>enable
Switch#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0005.5EE4.287D
             Cost        19
             Port        2(FastEthernet0/2)
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15
sec

  Bridge ID  Priority    32769  (priority 32768 sys-id-ext 1)
             Address     0060.2FE7.0E51
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15
sec
             Aging Time  20

Interface        Role Sts Cost       Prio.Nbr Type
---------------- ---- --- ---------- --------
--------------------------------
Fa0/1            Desg FWD 19         128.1    P2p
Fa0/3            Desg FWD 19         128.3    P2p
Fa0/2            Root FWD 19         128.2    P2p

Switch#
```

Ctrl+F6 to exit CLI focus   Copy   Paste

☐ Top
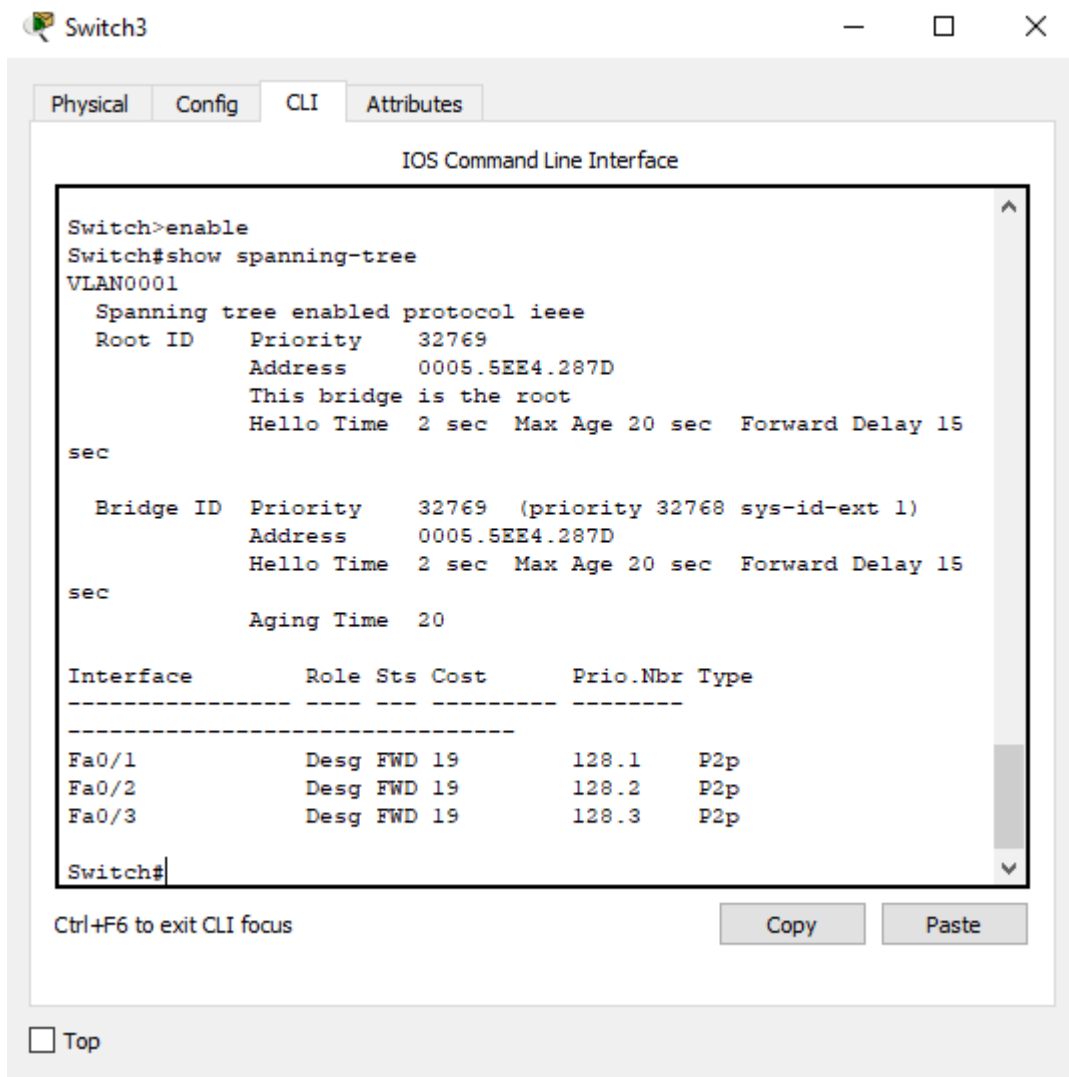
Tugas 4B

Switch1

No.	Variabel	Nilai
1.	Root ID	32769
2.	Priority	32768
3.	MAC Address	0005.5EE4.287D
4.	Bridge ID	32769
5.	Cost(0/1;0/2;0/3)	19;19;19
6.	Hello Time	2 sec
7.	MaxAge	20 sec
8.	Forward Delay	15 sec

Switch2

No.	Variabel	Nilai
1.	Root ID	32769
2.	Priority	32768
3.	MAC Address	0005.5EE4.287D
4.	Bridge ID	32769
5.	Cost(0/1;0/2;0/3)	19;19;19
6.	Hello Time	2 sec
7.	MaxAge	20 sec
8.	Forward Delay	15 sec

Switch3

No.	Variabel	Nilai
1.	Root ID	32769
2.	Priority	32768
3.	MAC Address	0005.5EE4.287D
4.	Bridge ID	32769
5.	Cost(0/1;0/2;0/3)	19;19;19
6.	Hello Time	2 sec
7.	MaxAge	20 sec
8.	Forward Delay	15 sec

Tugas 4C

- Root bridge = Switch3 (Fa0/1, Fa0/2, Fa0/3)
- Designated bridge = Switch3(Fa0/1, Fa0/2, Fa0/3)
- Root port = Switch1(Fa0/1), Switch2(Fa0/2)
- Designated port = Switch1(Fa0/2, Fa0/3), Switch2(Fa0/1,Fa0/2,Fa0/3)
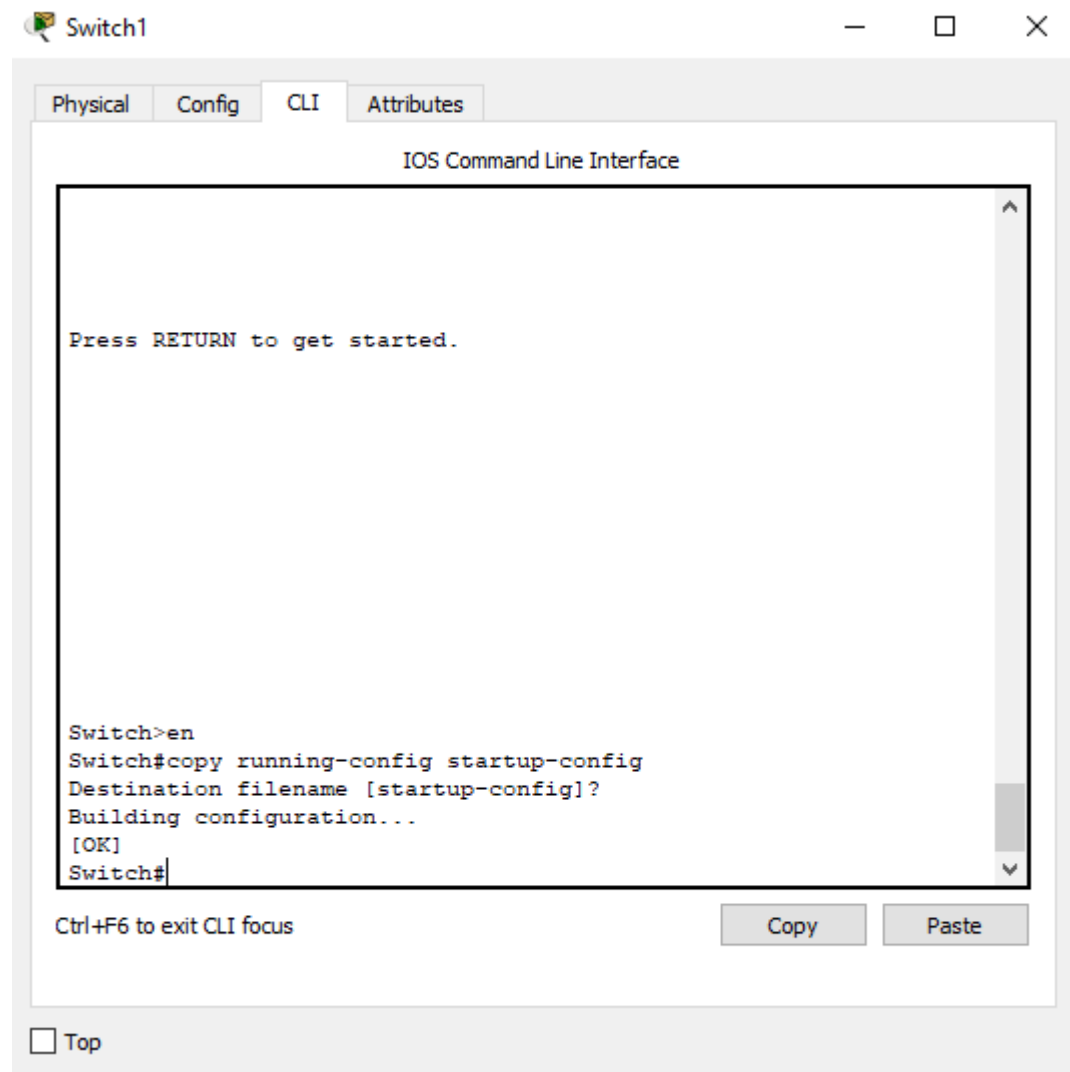 Switch3(Fa0/1, Fa0/2, Fa0/3)
-

Tugas 4D

- Forwarding = Switch1(Fa0/2, Fa0/3), Switch2(Fa0/1,Fa0/2,Fa0/3)
  Switch3(Fa0/1, Fa0/2, Fa0/3)
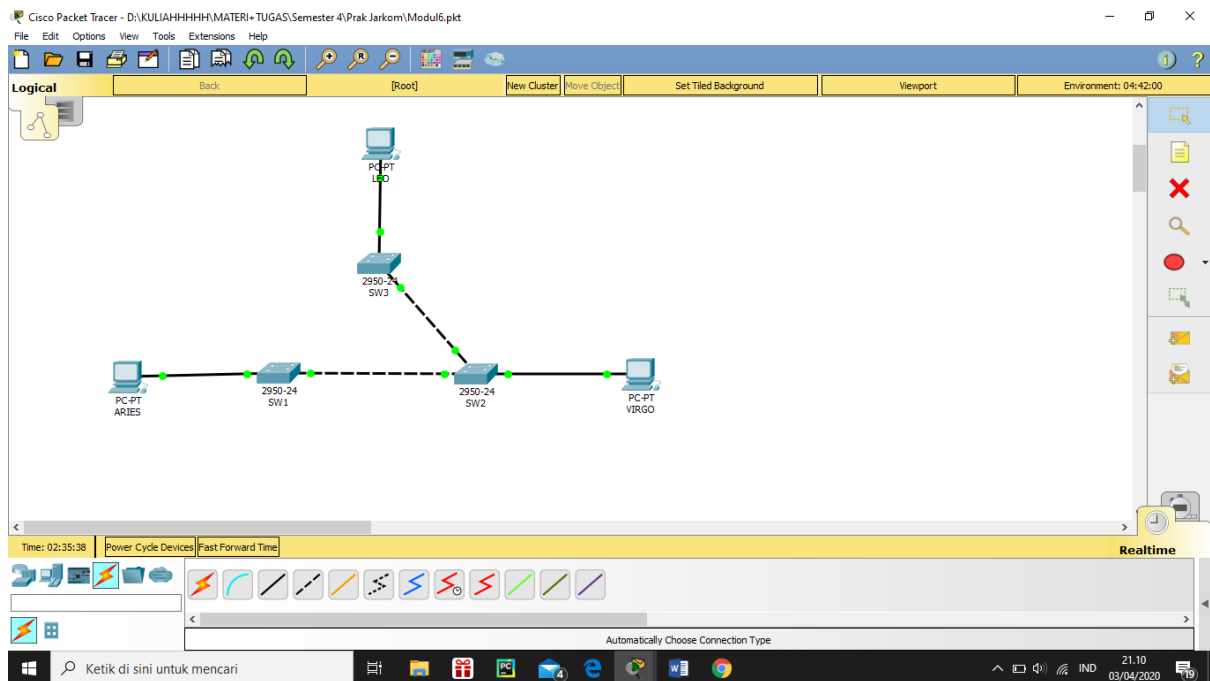- Blocking = Switch1(Fa0/1)

Tugas 5A :

→ Klik PC Leo
→ Klik tab dekstop
→ Pilih command prompt
→ Ketikkan ping 172.21.1.2

leo   —   □   ✕

| Physical | Config | Desktop | Programming | Attributes |

Command Prompt   X

```
Packet Tracer PC Command Line 1.0
C:\>ping 172.21.1.3

Pinging 172.21.1.3 with 32 bytes of data:

Reply from 172.21.1.3: bytes=32 time=1ms TTL=128
Reply from 172.21.1.3: bytes=32 time=12ms TTL=128
Reply from 172.21.1.3: bytes=32 time=15ms TTL=128
Reply from 172.21.1.3: bytes=32 time=14ms TTL=128

Ping statistics for 172.21.1.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 15ms, Average = 10ms

C:\>
```

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Tugas 6A

Switch1 — IOS Command Line Interface

```
Press RETURN to get started.




Switch>en
Switch#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
Switch#
```

Ctrl+F6 to exit CLI focus   Copy   Paste

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Kegiatan 2

SW1

No.	Variabel	Nilai
1.	Root ID	32769
2.	Priority	32768
3.	MAC Address	0001.9616.AE0E
4.	Bridge ID	32769
5.	Cost(0/1;0/2;0/3)	19;19
6.	Hello Time	2 sec
7.	MaxAge	20 sec
8.	Forward Delay	15 sec

SW2

No.	Variabel	Nilai
1.	Root ID	32769
2.	Priority	32768
3.	MAC Address	0001.9616.AE0E
4.	Bridge ID	32769
5.	Cost(0/1;0/2;0/3)	19;19;19
6.	Hello Time	2 sec
7.	MaxAge	20 sec
8.	Forward Delay	15 sec

SW3

```
Switch>en
Switch#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0001.9616.AE0E
             This bridge is the root
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15
sec

  Bridge ID  Priority    32769  (priority 32768 sys-id-ext 1)
             Address     0001.9616.AE0E
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15
sec
             Aging Time  20


Interface         Role Sts Cost      Prio.Nbr Type
---------------- ---- --- --------- --------
--------------------------------
Fa0/1             Desg FWD 19        128.1    P2p
Fa0/2             Desg FWD 19        128.2    P2p

Switch#
```

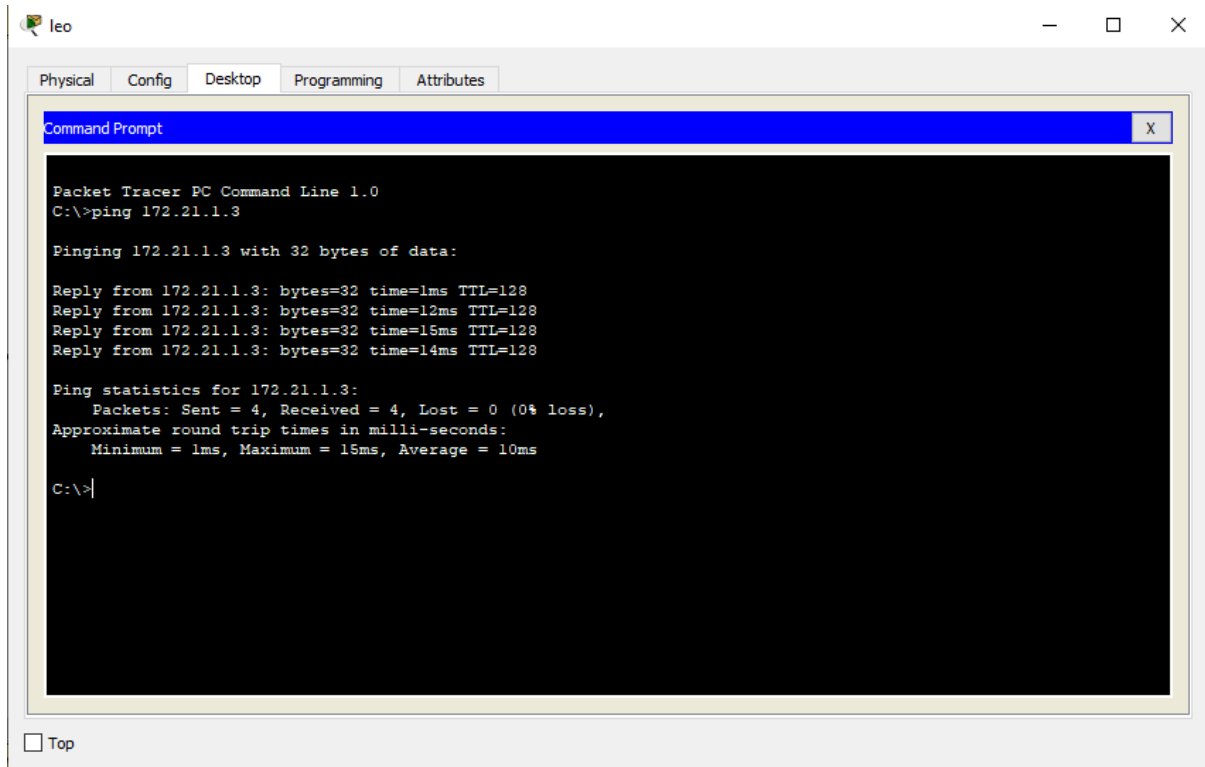| No.	Variabel	Nilai
1.	Root ID	32769
2.	Priority	32768
3.	MAC Address	0001.9616.AE0E
4.	Bridge ID	32769
5.	Cost(0/1;0/2;0/3)	19;19
6.	Hello Time	2 sec
7.	MaxAge	20 sec
8.	Forward Delay	15 sec

Menentukan :

- Root bridge   = SW3(Fa0/1, Fa0/2)
- Designated bridge   = SW3(Fa0/1, Fa0/2)
- Root port   = SW2(Fa0/3)
- Designated port   = SW1(Fa0/1, Fa0/2), SW2(Fa0/1,Fa0/2,Fa0/3),
                         SW3(Fa0/1, Fa0/2)

Menentukan :

- Forwarding = SW1(Fa0/1, Fa0/2), SW2(Fa0/1,Fa0/2,Fa0/3), SW3(Fa0/1, Fa0/2)
- Blocking = Tidak ada

Ping PC Leo ke PC Virgo