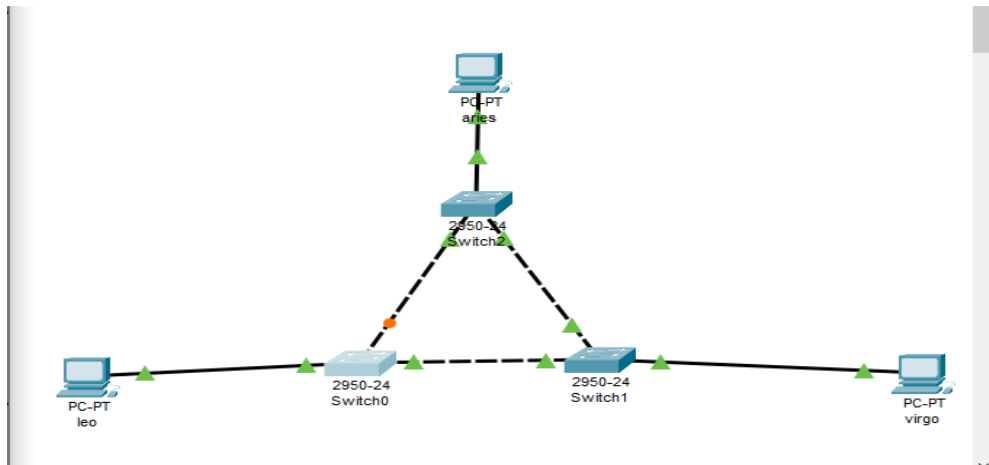**NAMA : NIMAS WORO PANGESTI**

NIM   : L200180160

KELAS   : D

PRAKTIKUM MODUL 6

KEGIATAN 1. TOPOLOGI 1

Tugas 1A: Pertama kita beri 3 Switch 2950-24 lalu kita beri masing-masing PC per Switch dan sambungkan antar peripheral dengan media transmisi kabel

Tugas 2A:

SW1

```
Switch>en
Switch#conf term
Enter configuration commands, one per line.  End with CNTL/Z.
Switch(config)#hostname SW1
SW1(config)#exit
SW1#
```
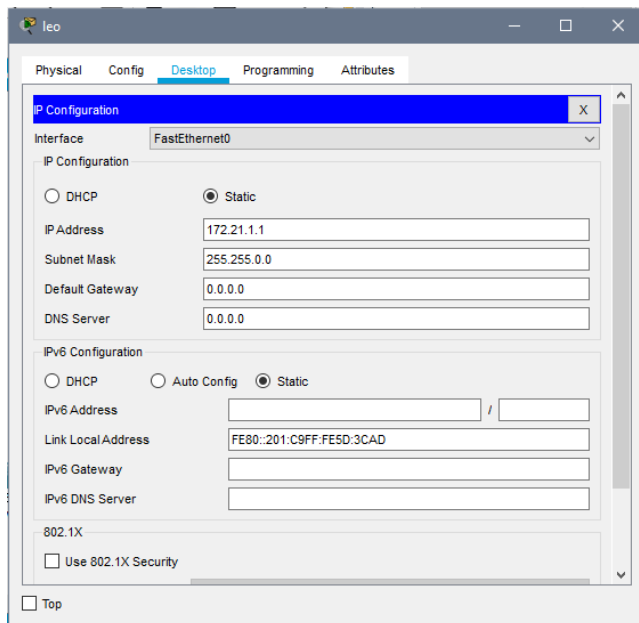
SW2

```
Switch>EN
Switch#conf term
Enter configuration commands, one per line.  End with CNTL/Z.
Switch(config)#hostname SW2
SW2(config)#exit
SW2#
```
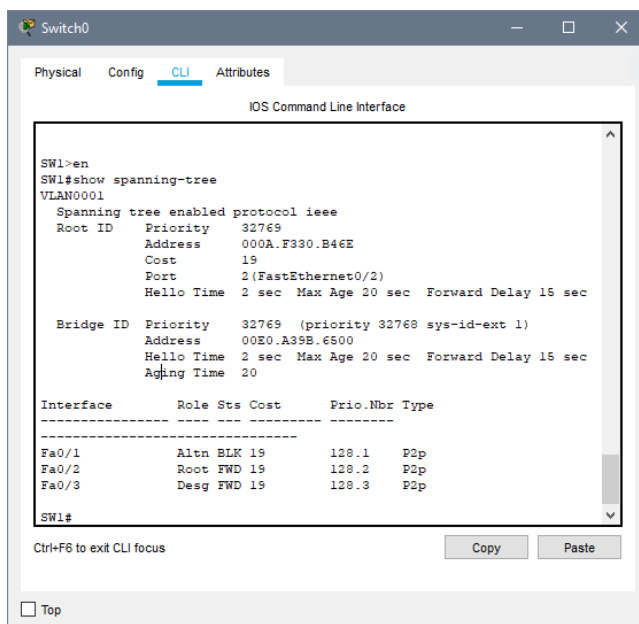
SW3

```
Switch>en
Switch#conf term
Enter configuration commands, one per line.  End with CNTL/Z.
Switch(config)#hostname SW3
SW3(config)#exit
SW3#
```

Tugas 4A:

SW1

SW2

```
Switch2                                          —   □   ×

Physical   Config   CLI   Attributes

                    IOS Command Line Interface

SW2>en
SW2#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     000A.F330.B46E
             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     000C.CF48.93BE
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec
             Aging Time  20

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

SW2#

Ctrl+F6 to exit CLI focus                    Copy      Paste

□ Top
```

SW3

```
Switch1                                          —   □   ×

Physical   Config   CLI   Attributes

                    IOS Command Line Interface

SW3>en
SW3#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     000A.F330.B46E
             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     000A.F330.B46E
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec
             Aging Time  20

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

SW3#

Ctrl+F6 to exit CLI focus                    Copy      Paste

□ Top
```

Tugas 4B:

SW1

No	Variabel	Nilai
1	Root ID	000A.F330.B46E
2	Priority	32769
3	Mac Address	00E0.A39B.6500
4	Bridge ID	00E0.A39B.6500
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

SW2

No	Variabel	Nilai
1	Root ID	000A.F330.B46E
2	Priority	32769
3	Mac Address	000C.CF49.93BE
4	Bridge ID	000C.CF49.93BE
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

No	Variabel	Nilai
1	Root ID	000A.F330.B46E
2	Priority	32769
3	Mac Address	000A.F330.B46E
4	Bridge ID	000A.F330.B46E
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 : Switch2/SW2

Designated bridge : Switch0/SW1

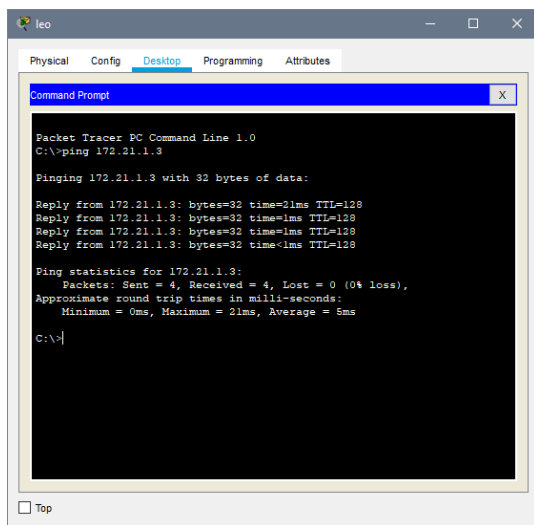**Root port :** Switch0/SW1 (Fa0/2), Switch2/SW2(Fa0/2)

Designated port : Switch0/SW1(Fa0/3), Switch2/W2(Fa0/1,Fa0/3), Switch1/SW3(Fa0/1,Fa0/2,Fa0/3)

Tugas 4D:

Forwarding : Switch0/SW1(Fa0/2;Fa0/3), Switch2/SW2(Fa0/1;Fa0/2;Fa0/3), Switch1/SW3(Fa0/1;Fa0/2;Fa0/3)
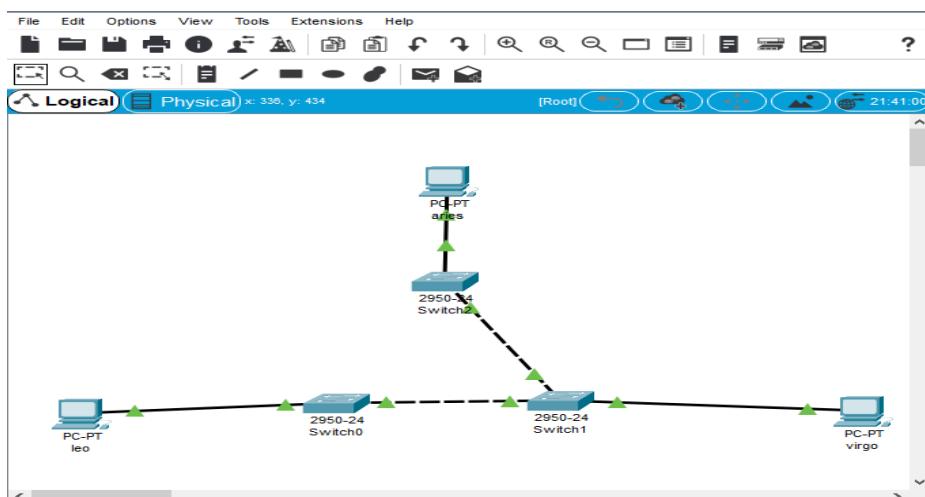
Blocking : Switch0/SW1(Fa0/1)

Tugas 5A:

Masuk ke PC >> Desktop >> Command Prompt>>Lalu ketik "ping 172.21.1.3"

Tugas 6A:

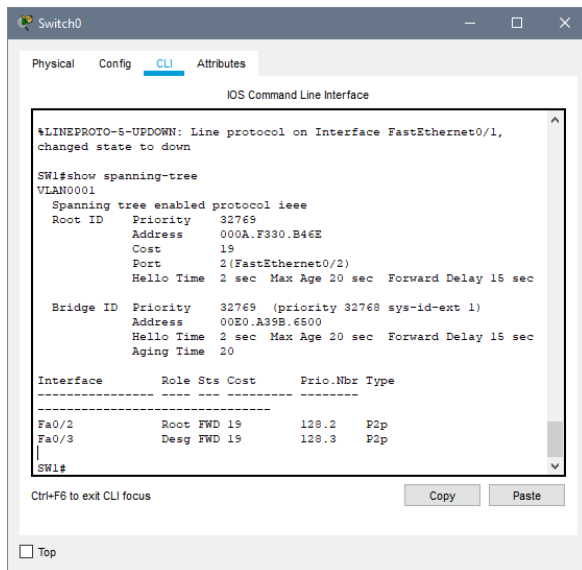**Lakukan perintah dibawah untuk setiap switch :**

```
SW1>en
SW1#write
Building configuration...
[OK]
SW1#
```

KEGIATAN 2. TOPOLOGI 2

Tugas 9A:

SW1


```
Switch0                                           —    □    ×

Physical   Config   CLI   Attributes

                    IOS Command Line Interface

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

  SW1#show spanning-tree
  VLAN0001
    Spanning tree enabled protocol ieee
    Root ID    Priority    32769
               Address     000A.F330.B46E
               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     00E0.A39B.6500
               Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec
               Aging Time  20

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

  SW1#

Ctrl+F6 to exit CLI focus                          Copy       Paste

□ Top
```
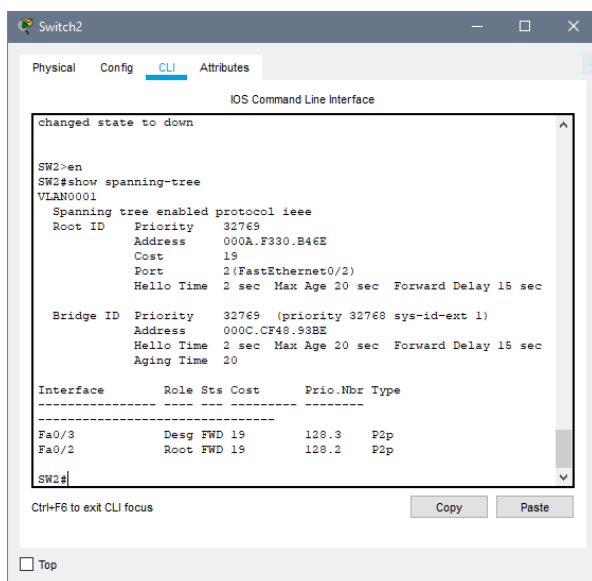
SW2


```
Switch2                                           —    □    ×

Physical   Config   CLI   Attributes

                    IOS Command Line Interface

  changed state to down


  SW2>en
  SW2#show spanning-tree
  VLAN0001
    Spanning tree enabled protocol ieee
    Root ID    Priority    32769
               Address     000A.F330.B46E
               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     000C.CF48.93BE
               Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec
               Aging Time  20

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

  SW2#

Ctrl+F6 to exit CLI focus                          Copy       Paste

□ Top
```

SW3


```
SW3>en
SW3#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     000A.F330.B46E
             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     000A.F330.B46E
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec
             Aging Time  20

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

SW3#
```

SW1

No	Variabel	Nilai
1	Root ID	000A.F330.B46E
2	Priority	32769
3	Mac Address	00E0.A39B.6500
4	Bridge ID	00E0.A39B.6500
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	000A.F330.B46E
2	Priority	32769
3	Mac Address	000C.CF49.93BE
4	Bridge ID	000C.CF49.93BE
5	Cost(0/1;0/2;0/3)	19/19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

SW3

No	Variabel	Nilai
1	Root ID	000A.F330.B46E
2	Priority	32769
3	Mac Address	000A.F330.B46E
4	Bridge ID	000A.F330.B46E
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

Root bridge : SW2

Designated bridge : SW3

Root port : : Switch0/SW1 (Fa0/2), Switch2/SW2(Fa0/2)

Designated port : Switch0/SW1(Fa0/3), Switch2/SW2(Fa0/3), Switch1/SW3(Fa0/1; Fa0/2; Fa0/3)

Forwarding : Switch0/SW1(Fa0/2;Fa0/3), Switch2/SW2(Fa0/2;Fa0/3), Switch1/SW3(Fa0/1;Fa0/2; Fa0/3)

Blocking : none