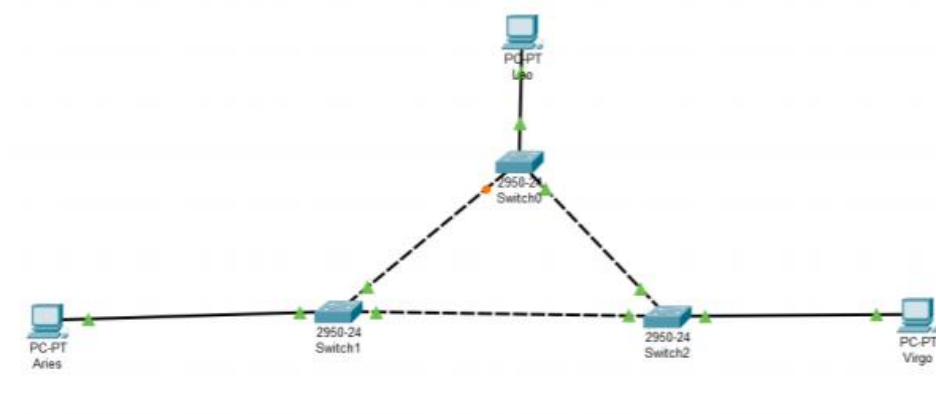Nama : Naura Salsabila
Nim: L200183159

1. **Activity 1**

Picture 1.1 Set of computer network

a. **Assignment 1A**

Write the step of making topology!

Answer

1) Put 3 PC-PT and 3 Switch type 2950-24
2) Connect PC-PT and Switch with straight cable. and connect the switch with other switch using cross cables

b. **Assignment 2A**
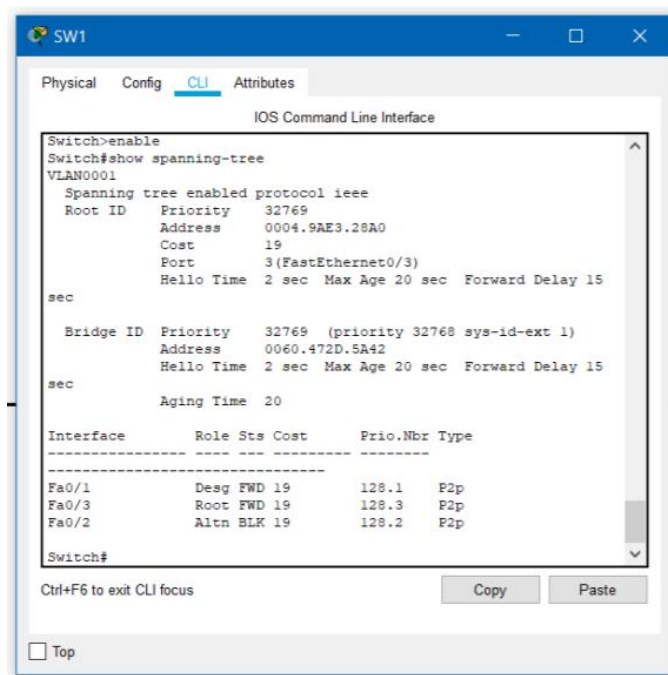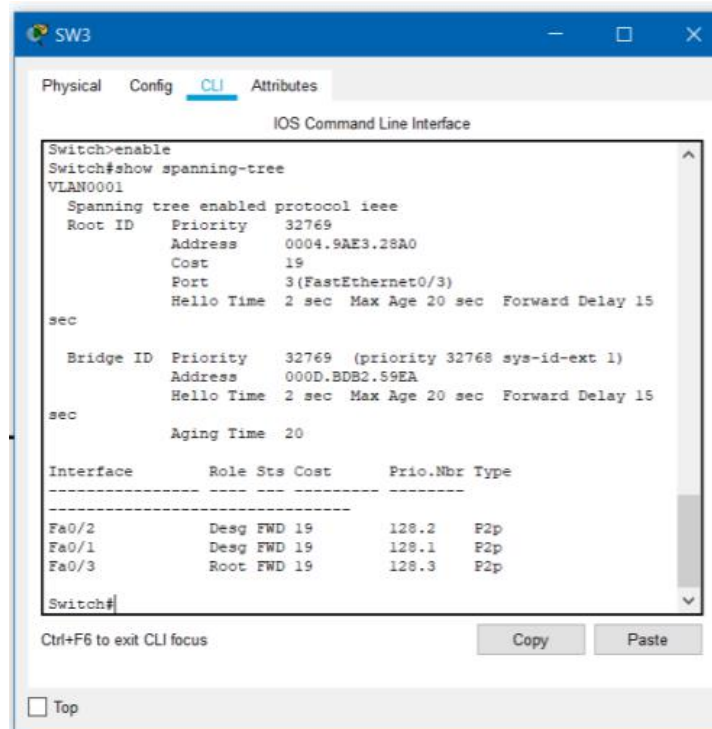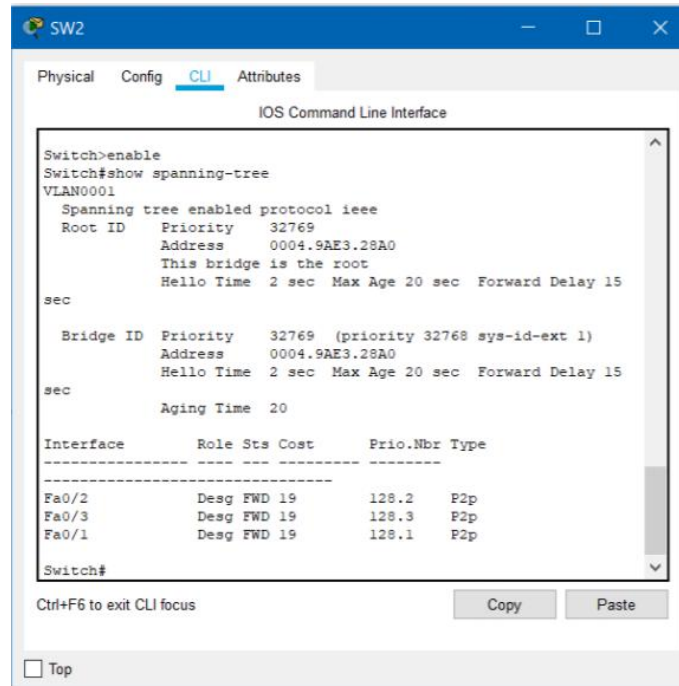
Write the step of giving switch name!

Answer

1) Click on the switch
2) Go to the config menu
3) Give a name in Display Name textfield

c. **Assignment 3A**

By default, capture each STP switch status display (SW1, SW2, and SW3)!

Answer

SW2 — IOS Command Line Interface

```
Switch>enable
Switch#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0004.9AE3.28A0
             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     0004.9AE3.28A0
             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

Switch#
```


SW3 — IOS Command Line Interface

```
Switch>enable
Switch#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0004.9AE3.28A0
             Cost        19
             Port        3(FastEthernet0/3)
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15
sec

  Bridge ID  Priority    32769  (priority 32768 sys-id-ext 1)
             Address     000D.BDB2.59EA
             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
Fa0/1            Desg FWD 19        128.1    P2p
Fa0/3            Root FWD 19        128.3    P2p

Switch#
```

d. **Assignment 3A**

For each switch, fill in the table!

Answer

SW1

No	Variable	Value
1	Priority	32769
2	MAC Address	0004.9AE3.28A0
3	Cost (0/1, 0/2, 0/3)	19, 19, 19
4	Hello Time	2
5	Max Age	20
6	Forward Delay	15

SW2

No	Variable	Value
1	Priority	32769
2	MAC Address	0004.9AE3.28A0
3	Cost (0/1, 0/2, 0/3)	19, 19, 19
4	Hello Time	2
5	Max Age	20
6	Forward Delay	15

SW3

No	Variable	Value
1	Priority	32769
2	MAC Address	0004.9AE3.28A0
3	Cost (0/1, 0/2, 0/3)	19, 19, 19
4	Hello Time	2
5	Max Age	20
6	Forward Delay	15

e. **Assignment 3B**

Under these defaults, which switches and ports are:

1) Become the root bridge
2) Become a designated bridge
3) Become the root port
4) Become a designated port

Answer

1) SW2
2) SW1 & SW3
3) Fa0/3
4) Fa0/1

f. **Assignment 3C**

Under these default conditions, and which ports are:

1) Is in a forwarding state
2) Is in a blocking state
3) From PC Leo ping to PC Virgo

Answer

1) Fa0/1 and Fa0/3
2) Fa0/2
3)

g. **Assignment 3D**

Write the steps to do the ping command!

Answer

1) Click PC Leo
2) Go to desktop menu
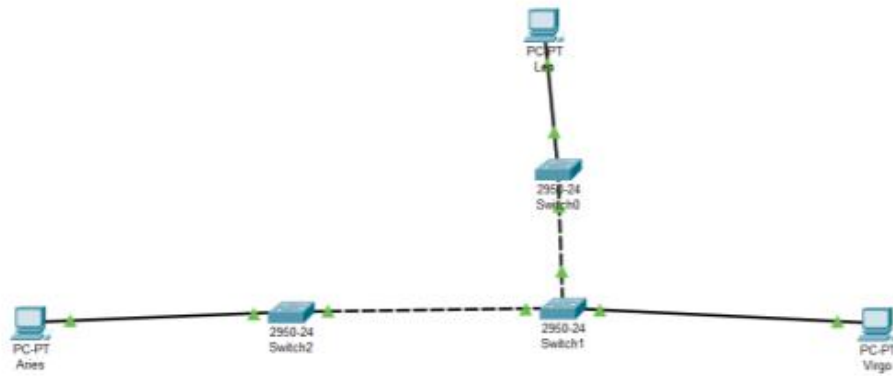3) Click Command Prompt
4) Type "ping 172.21.1.3"

h. **Assignment 3E**

Write steps to save network configuration!

Answer

1) Click save button
2) Name it with "lab2"
3) Click save button

2. Activity 2

Picture 2.1. Set of computer network

a. Assignment 3A

By default, capture each STP switch status display (SW1, SW2, and SW3)!

Answer

b. **Assignment 3B**

For each switch, fill in the table!

Answer

SW1

No	Variable	Value
1	Priority	32769
2	MAC Address	0009.7CB9.8DBA
3	Cost (0/1, 0/2)	19, 19
4	Hello Time	2
5	Max Age	20
6	Forward Delay	15

SW2

No	Variable	Value
1	Priority	32769
2	MAC Address	0009.7CB9.8DBA
3	Cost (0/1, 0/2, 0/3)	19, 19, 19
4	Hello Time	2
5	Max Age	20
6	Forward Delay	15

SW3

No	Variable	Value
1	Priority	32769
2	MAC Address	0009.7CB9.8DBA
3	Cost (0/1, 0/2)	19, 19
4	Hello Time	2
5	Max Age	20
6	Forward Delay	15

c. **Assignment 3C**

Under these defaults, which switches and ports are:

1) Become the root bridge
2) Become a designated bridge
3) Become the root port
4) Become a designated port
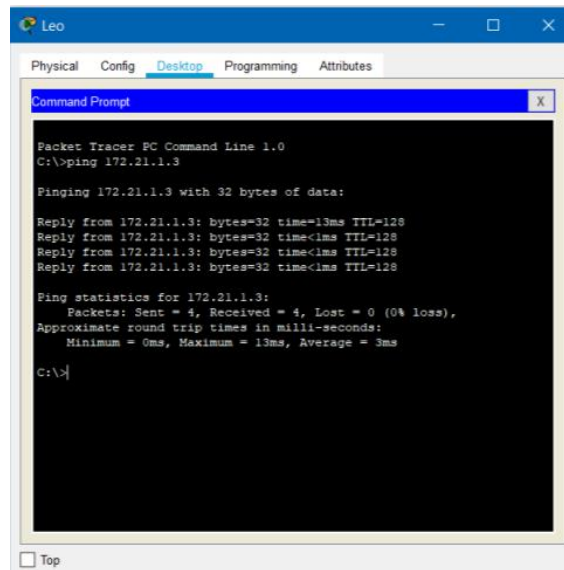
Answer

1) SW2
2) SW1 & SW3
3) Fa0/2
4) Fa0/1

d. **Assignment 3D**

Under these default conditions, and which ports are:

1) Is in a forwarding state
2) Is in a blocking state
3) From PC Leo ping to PC Virgo

Answer

1) Fa0/1
2) None
3)

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=13ms TTL=128
Reply from 172.21.1.3: bytes=32 time<1ms TTL=128
Reply from 172.21.1.3: bytes=32 time<1ms TTL=128
Reply from 172.21.1.3: bytes=32 time<1ms 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 = 0ms, Maximum = 13ms, Average = 3ms

C:\>

e. **Assignment 3D**

Write the steps to do the ping command!

Answer

1) Click PC Leo
2) Go to desktop menu
3) Click Command Prompt
4) Type "ping 172.21.1.3"