

PRACTICUM 6



By:

ALIF FAUZIA RAMA WAHYU K.

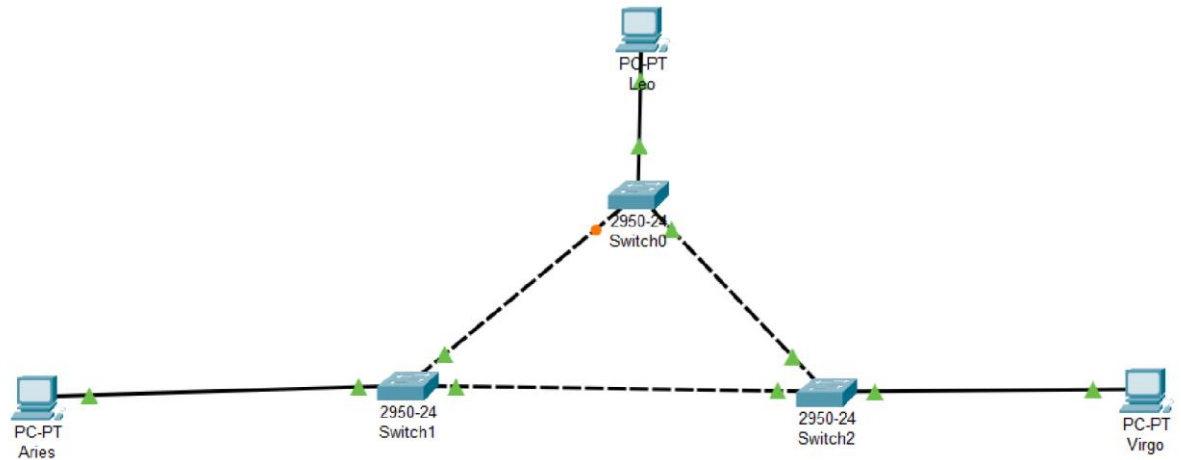
NIM: L200183177

INFORMATION TECHNOLOGY

FACULTY OF COMMUNICATION AND INFORMATICS

UNIVERSITY OF MUHAMMADIYAH SURAKARTA

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!

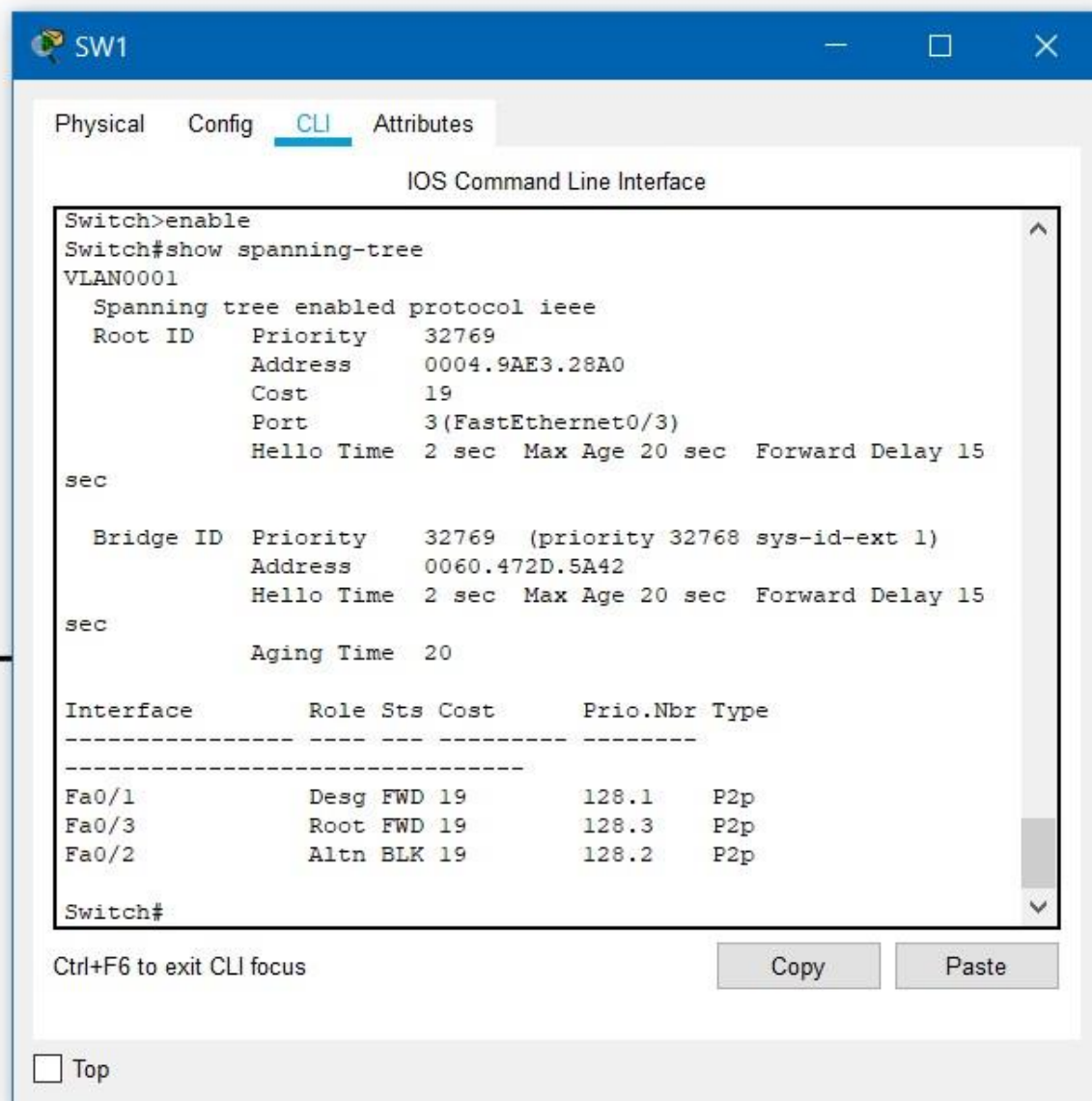
Answer

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

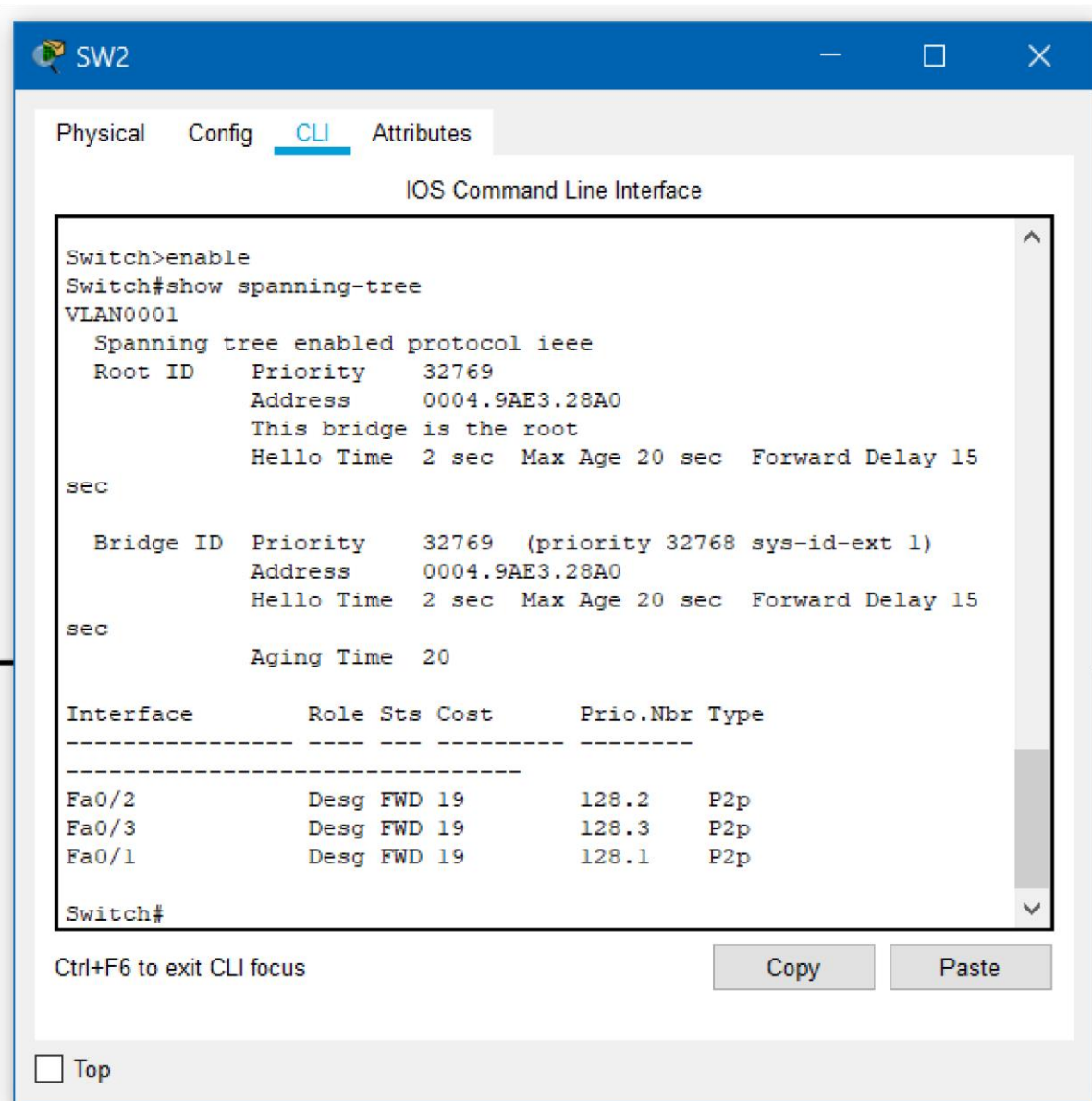
c. Assignment 3A

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

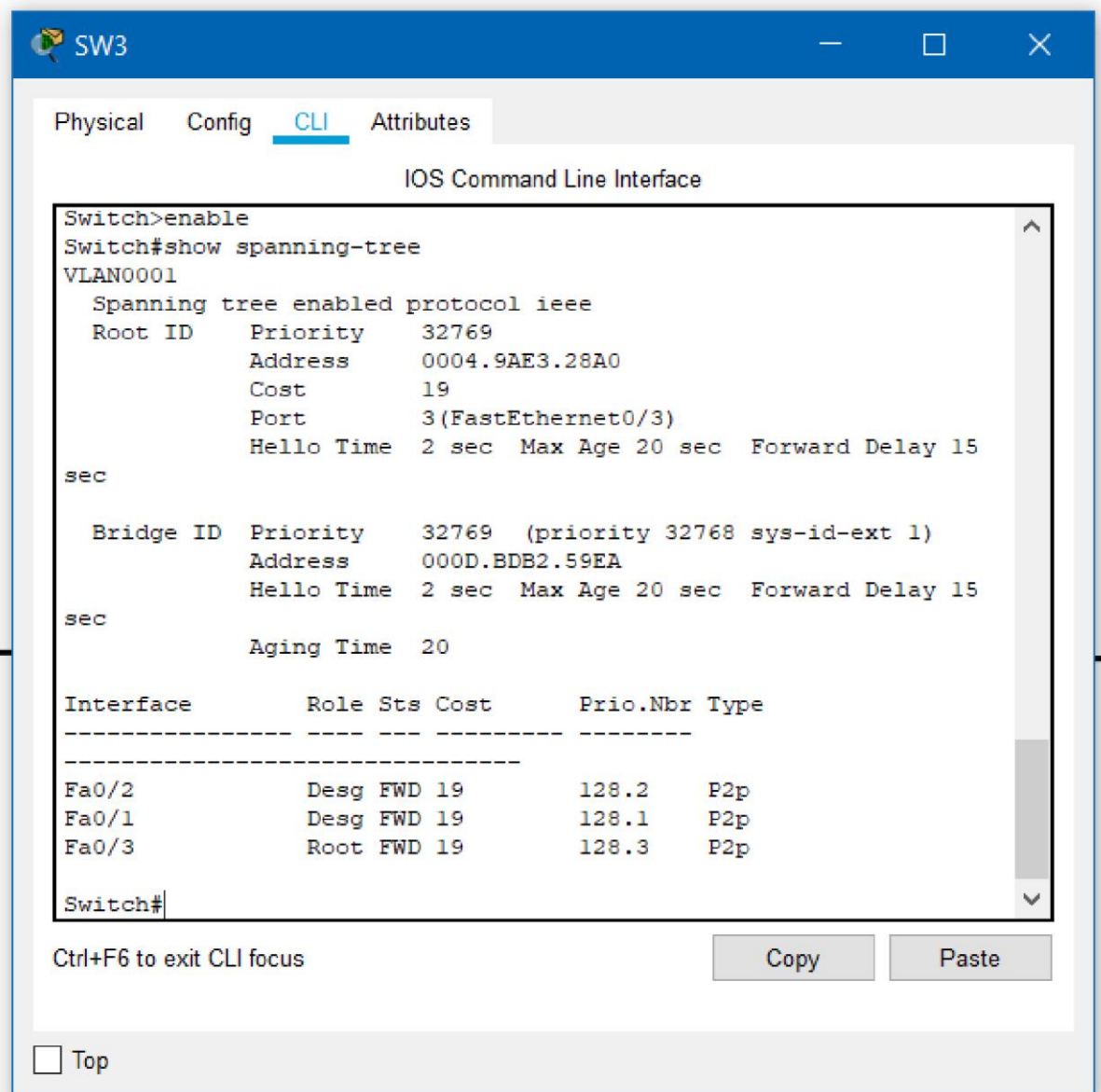
Answer



Picture 1.2. Result from SW1



Picture 1.3. Result from SW2



Picture 1.4. Result from SW3

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

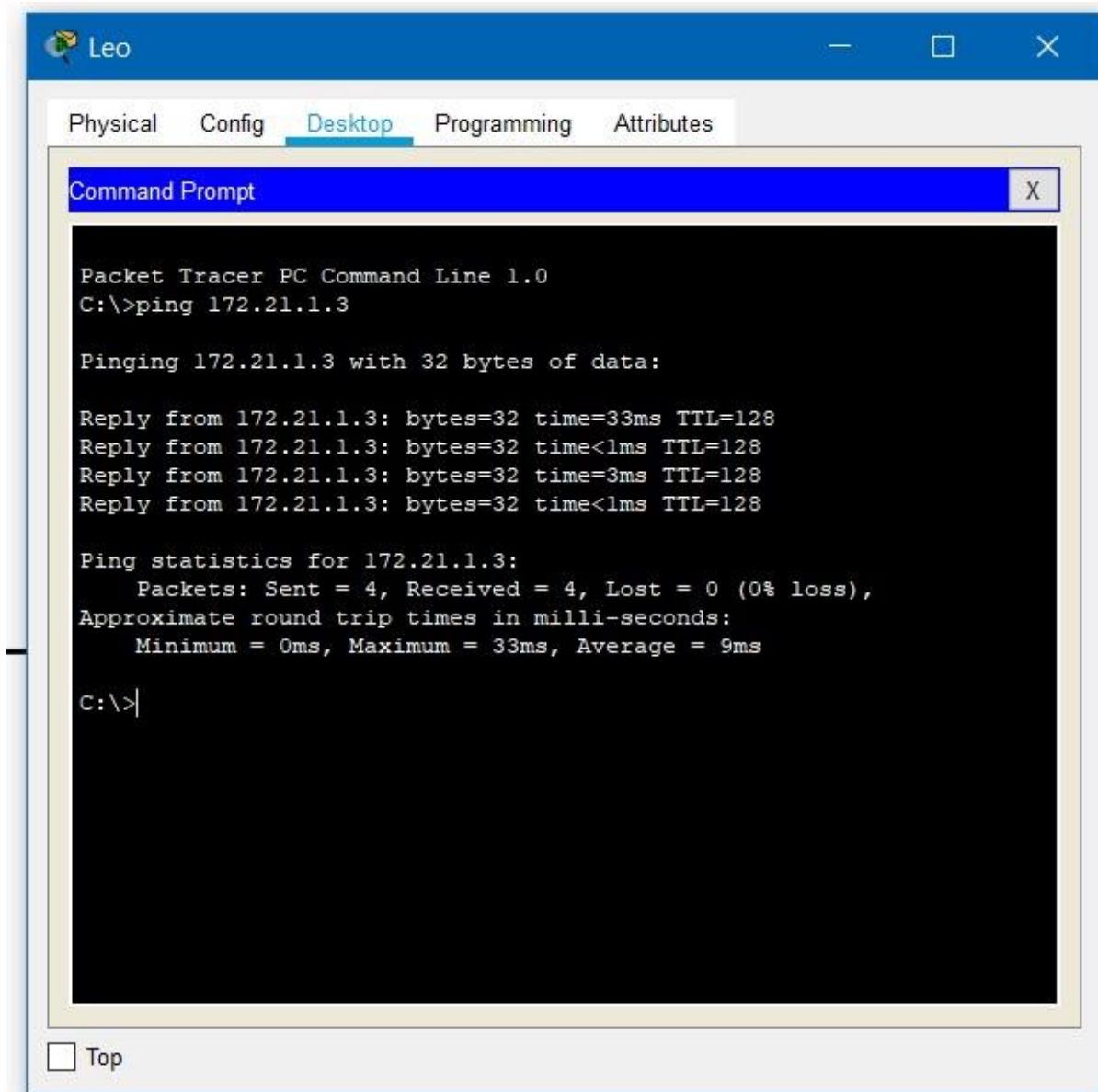
f. Assignment 3C

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)



Picture 1.5. Pinging from PC Leo to PC Virgo

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

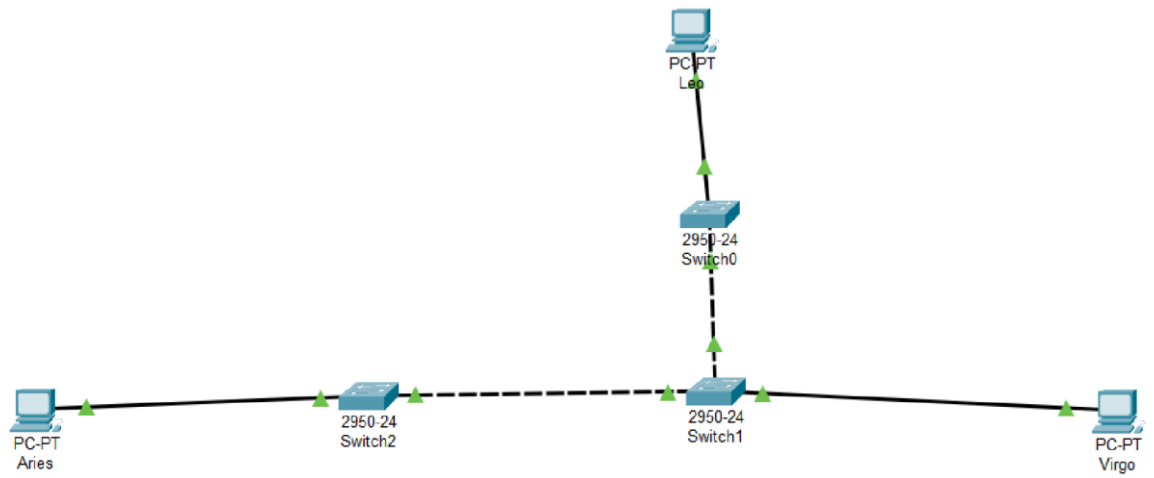
Write steps to save network configuration!

Answer

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

3) Click save button

2. Activity 2

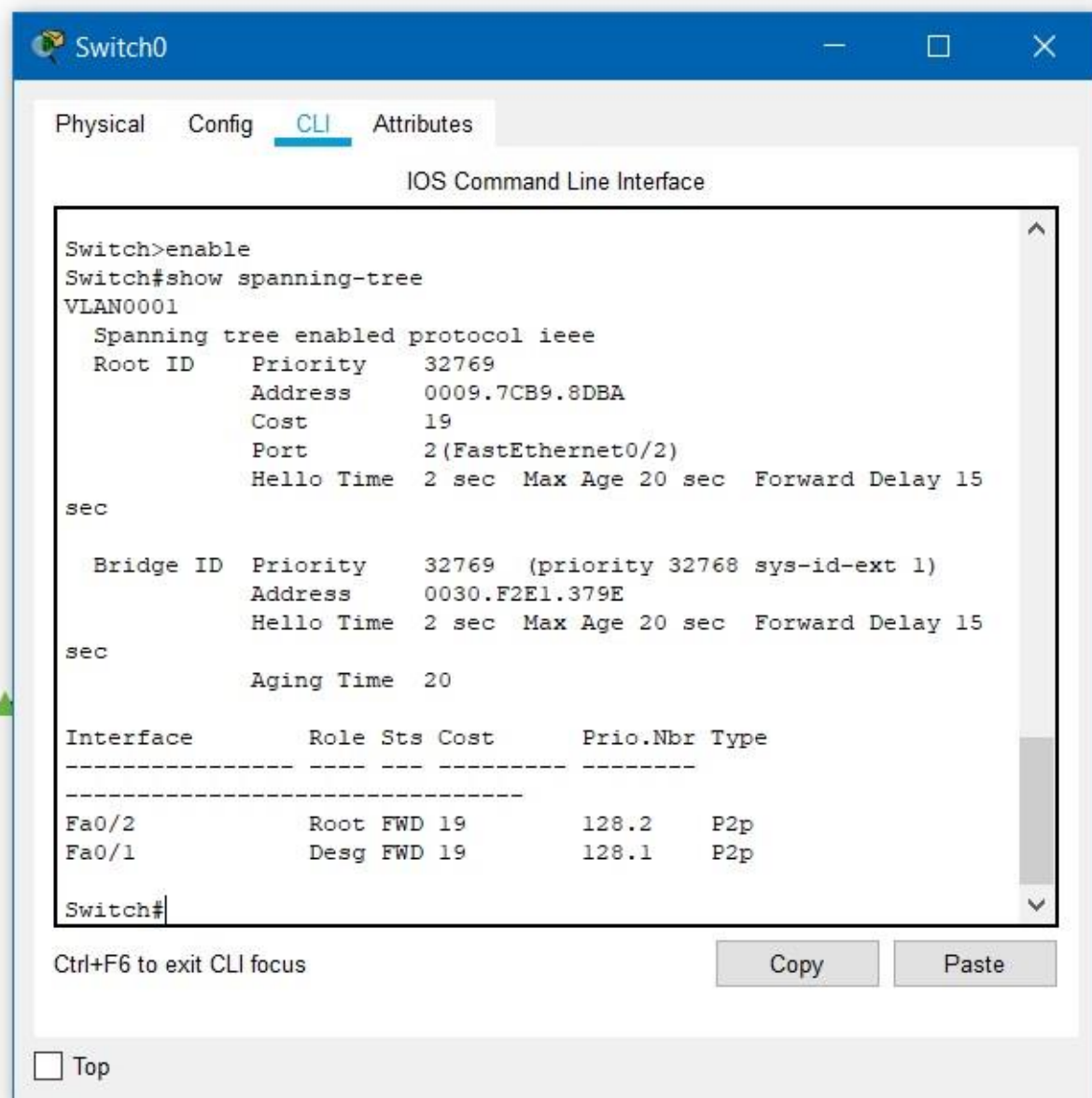


Picture 2.1. Set of computer network

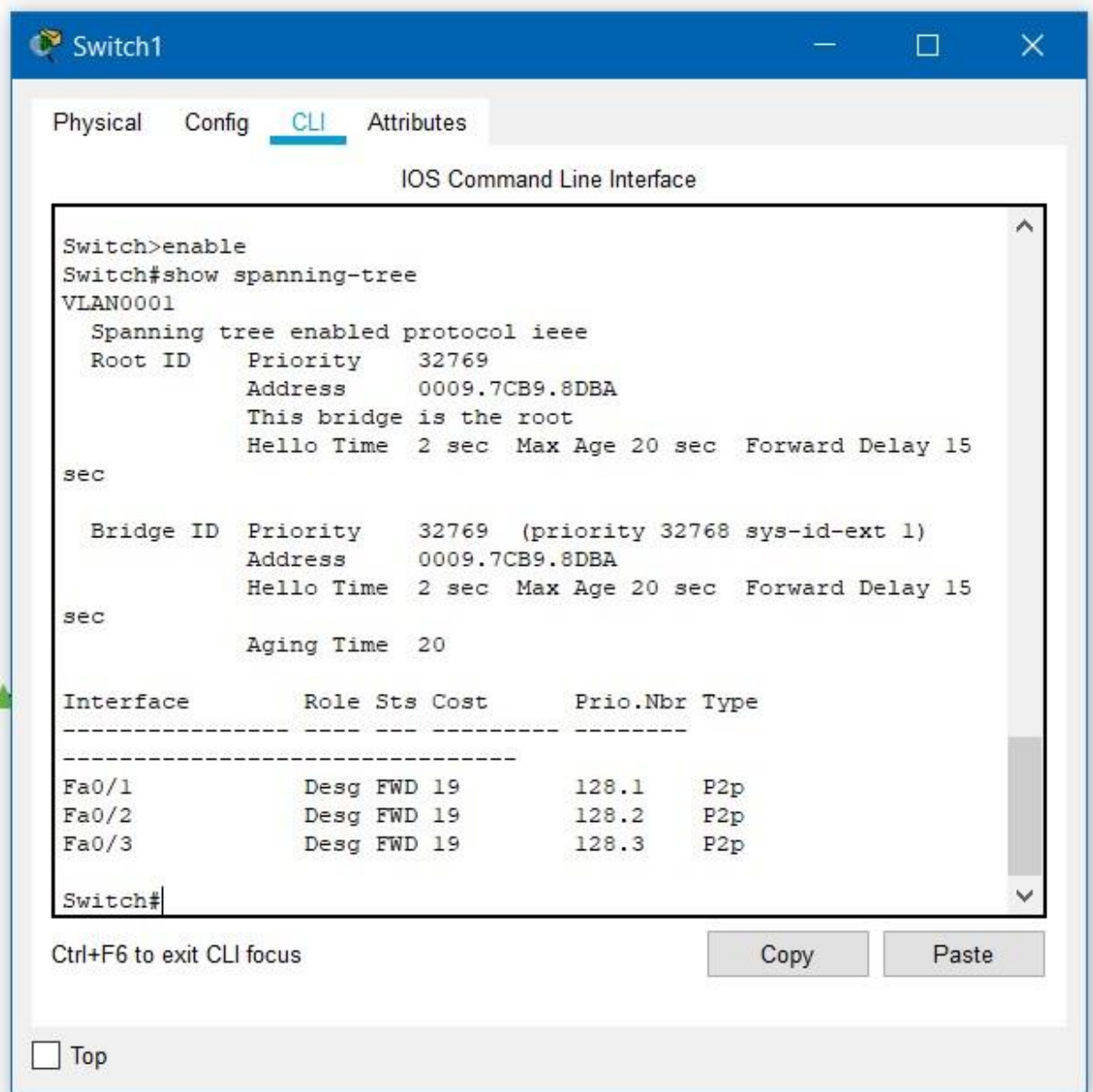
a. Assignment 3A

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

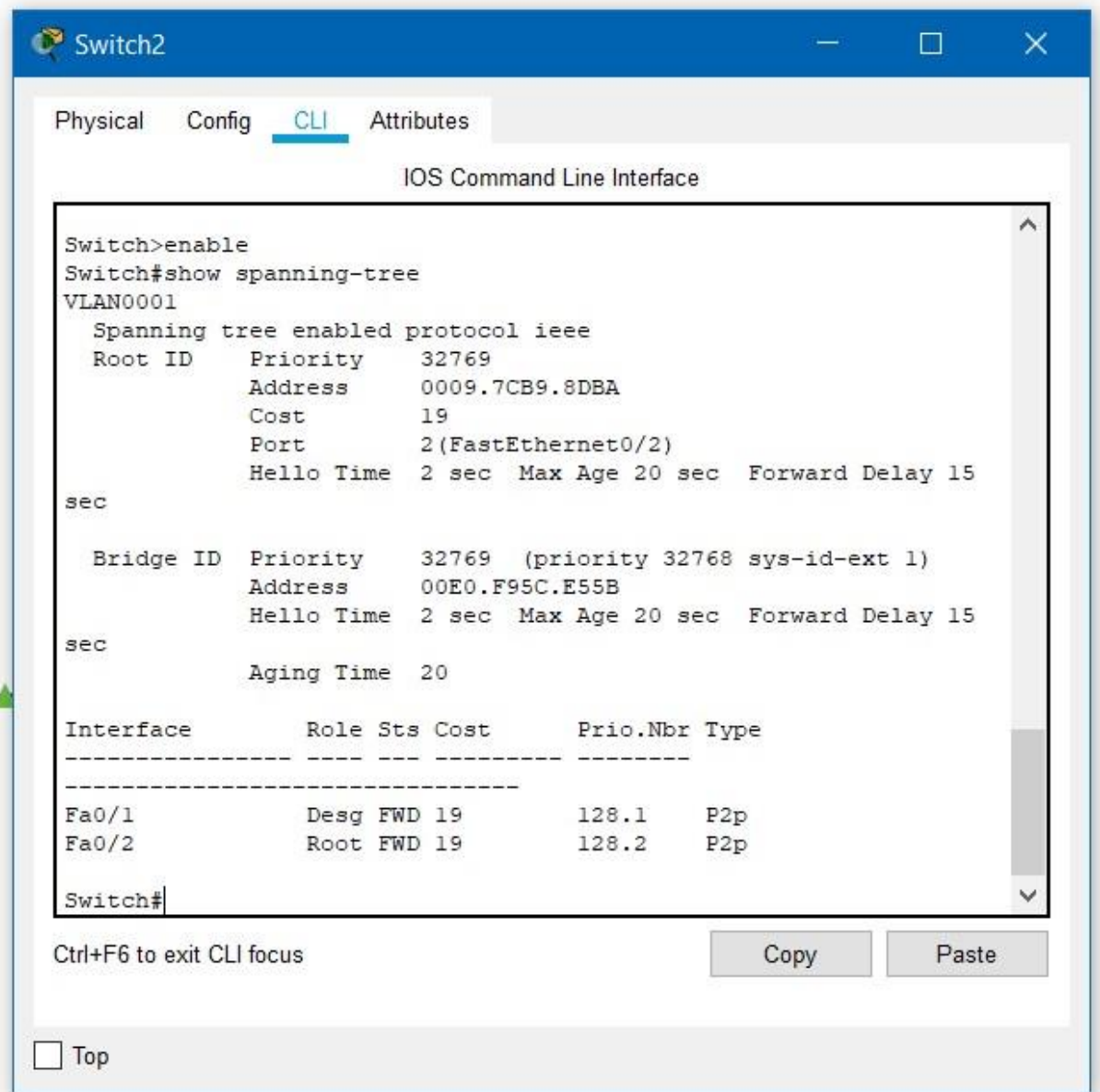
Answer



Picture 2.2. Result from SW1



Picture 2.3. Result from SW2



Picture 2.4. Result from SW3

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

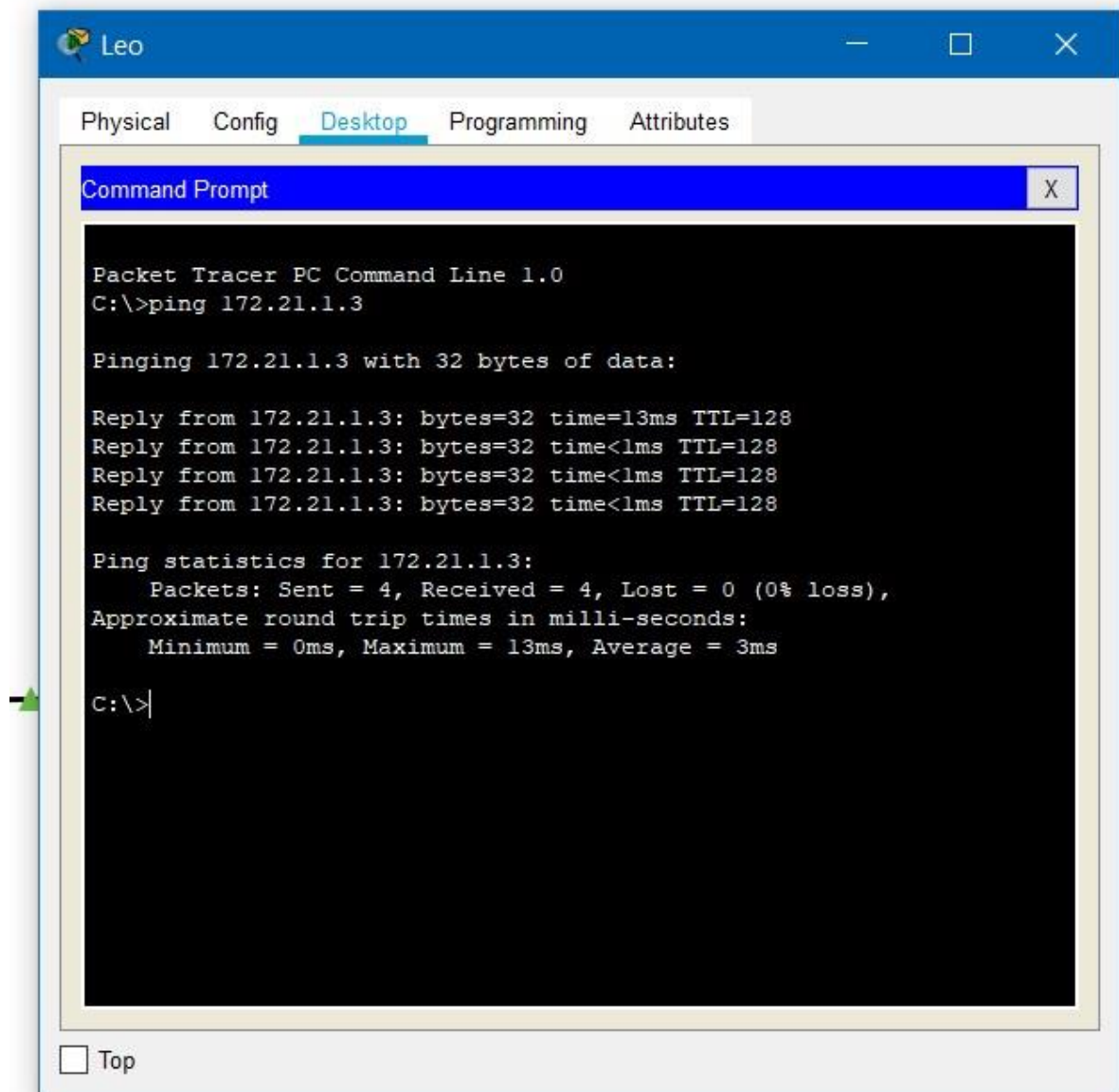
d. Assignment 3D

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)



Picture 2.5. Pinging from PC Leo to PC Virgo

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"