COMPUTER NETWORKS

PRACTICUM 4
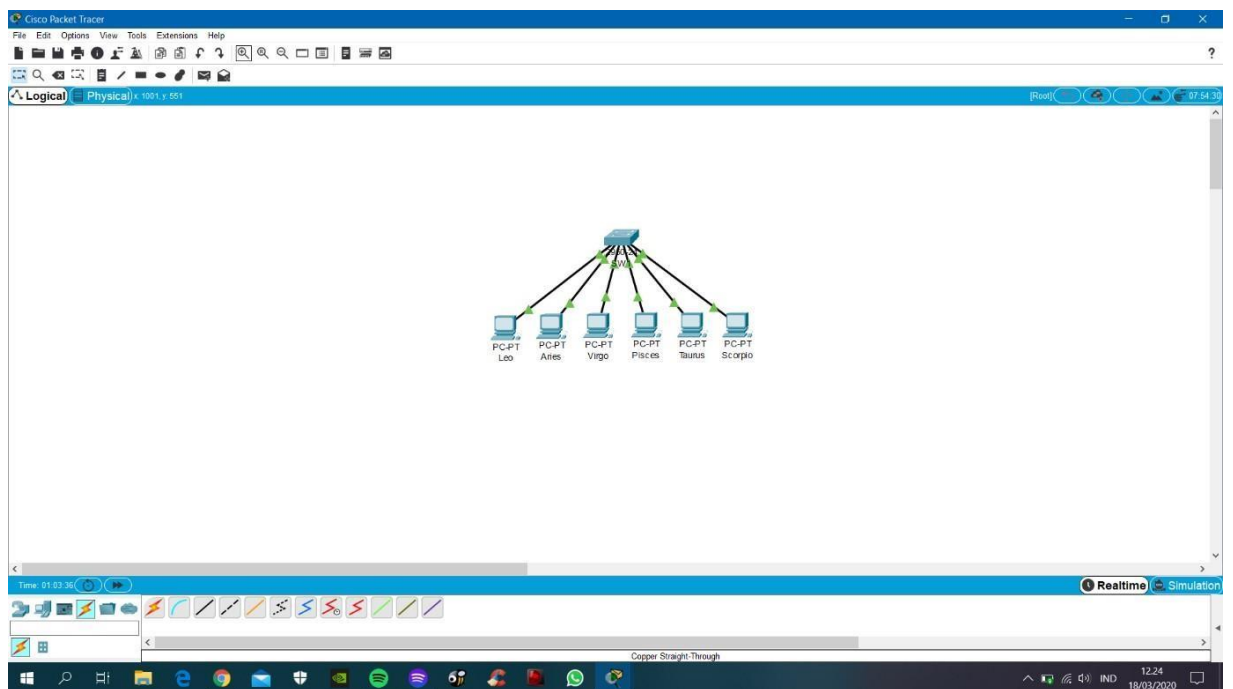

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INFORMATION TECHNOLOGY

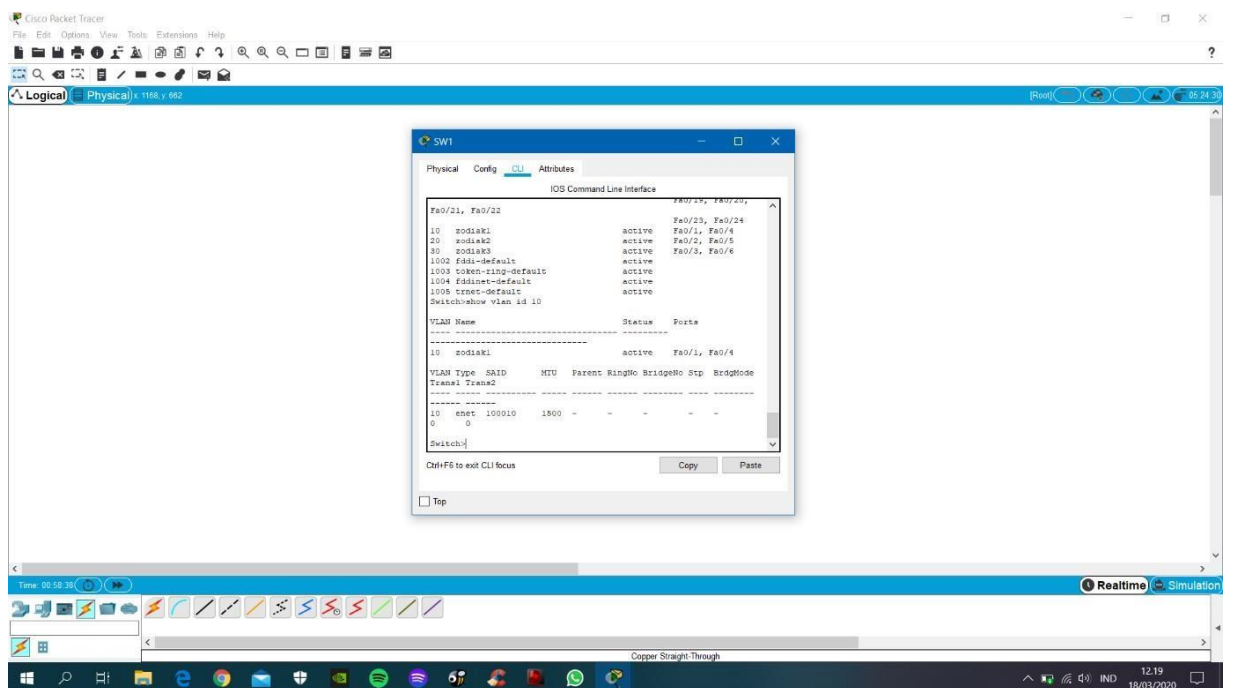**FACULTY OF COMMUNICATION AND INFORMATICS**

UNIVERSITY OF MUHAMMADIYAH SURAKARTA
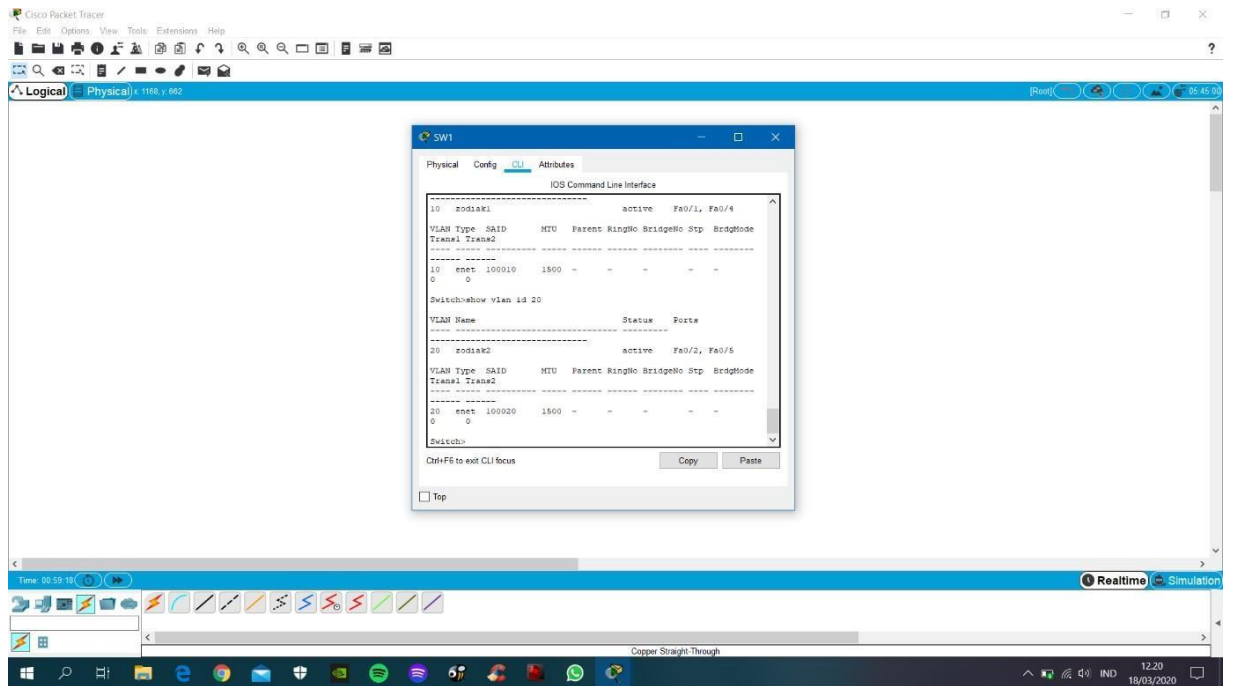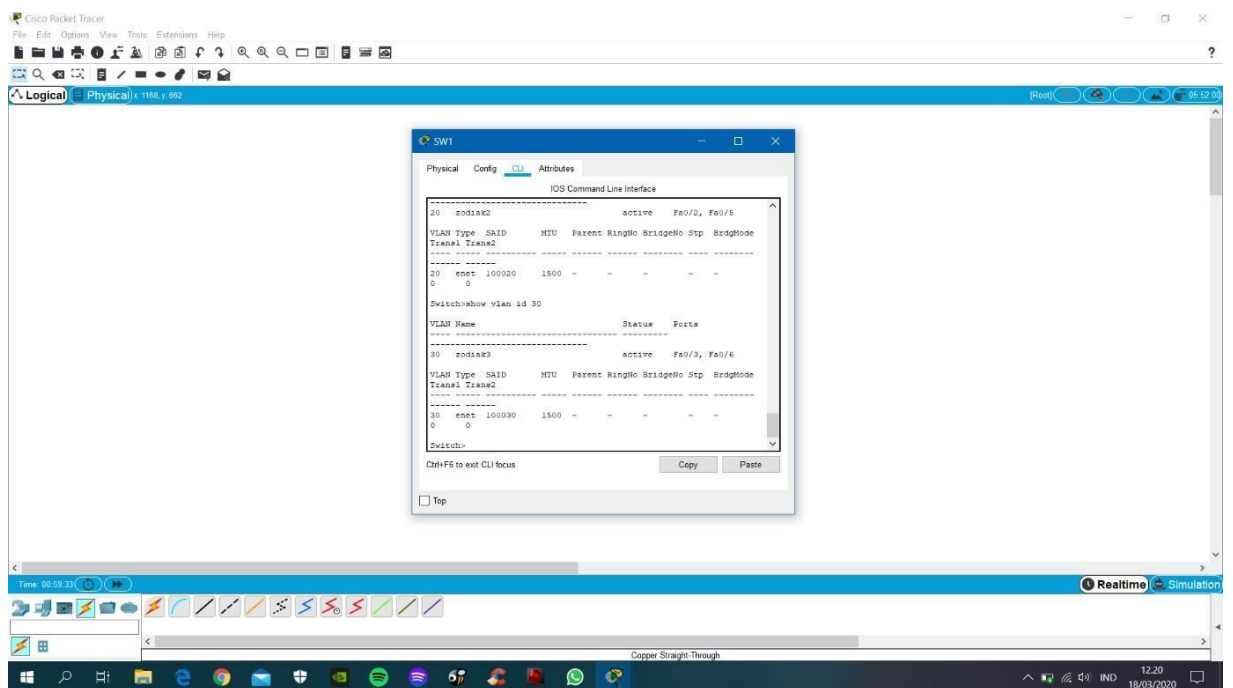
2020

1. Activity 1

Picture 1.1. Set of computer network

Picture 1.2. Configuration information of VLAN 10

Picture 1.3. Configuration information of VLAN 20

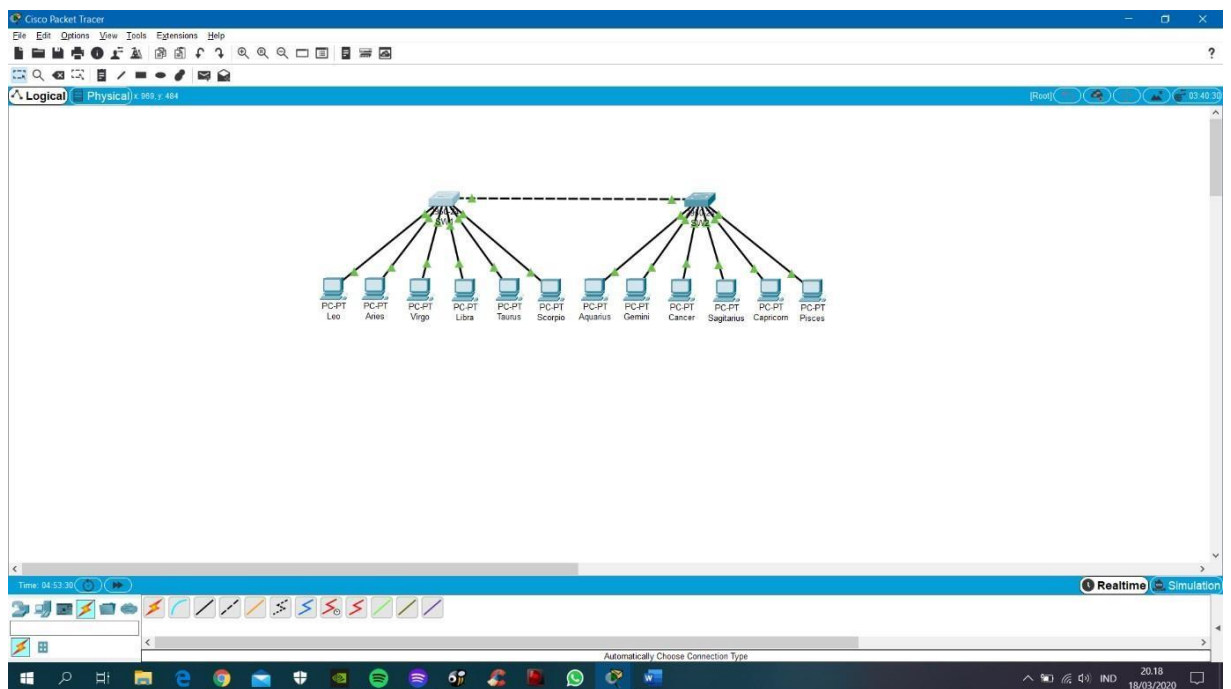Picture 1.4. Configuration information of VLAN 30
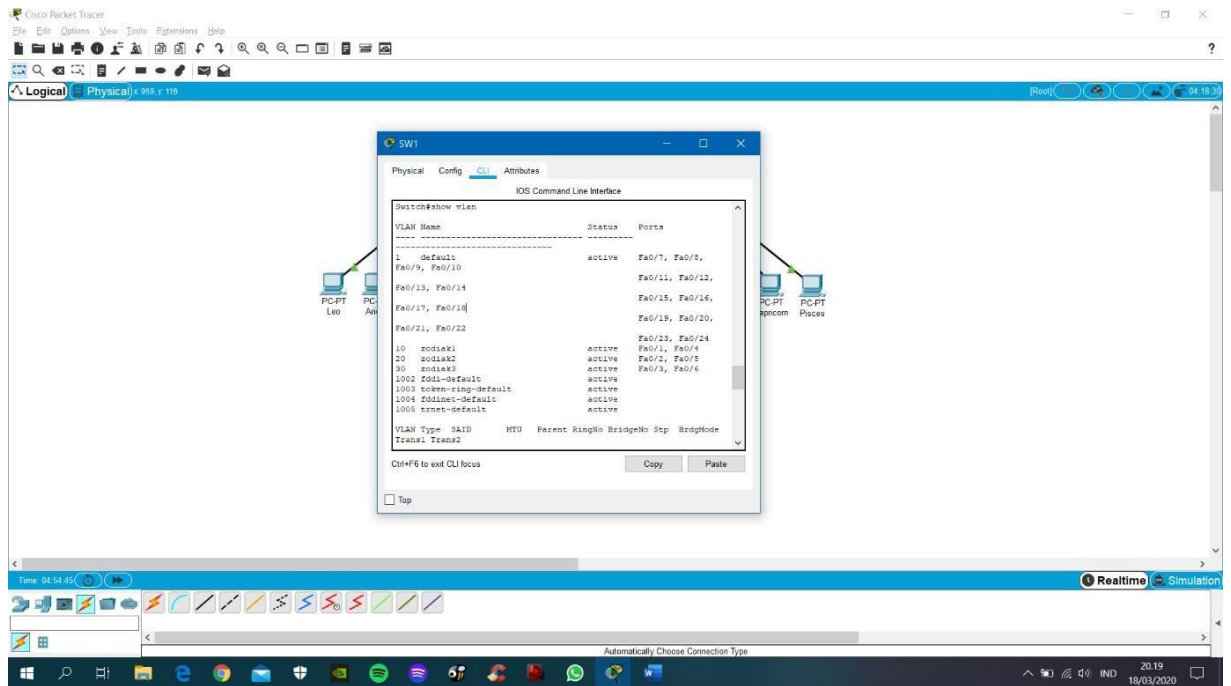
Question:

Briefly explain the results obtained!

Answer:

a. In VLAN number 10 (zodiak1) there are 2 ports that have been configured, namely Fa0/1 and Fa0/4

b. In VLAN number 20 (zodiak2) there are 2 ports that have been configured, namely Fa0/2 and Fa0/5

c. In VLAN number 30 (zodiak3) there are 2 ports that have been configured, namely Fa0/3 and Fa0/6

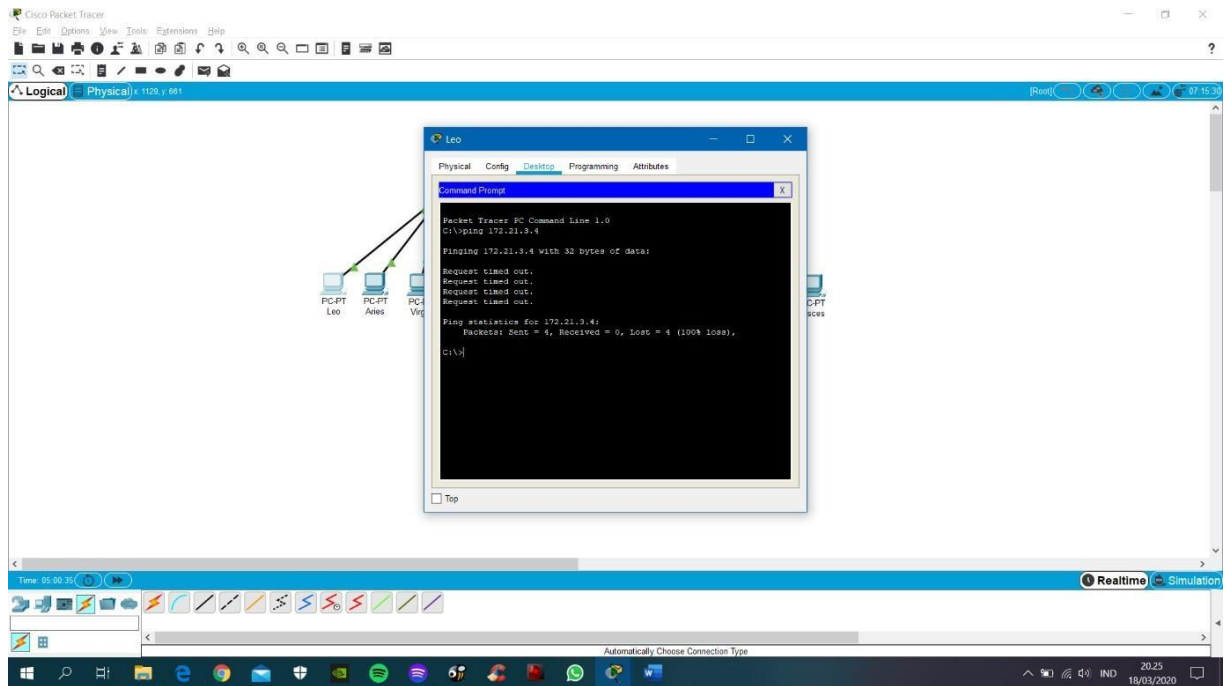2. **Activity 2**

Picture 2.1. Set of computer network

Picture 2.2. Result of show vlan command

a. **Question 1:**

Briefly explain the results obtained!

Answer 1:

1) In VLAN number 10 (zodiak1) there are 2 ports that have been configured, namely Fa0/1 and Fa0/4

2) In VLAN number 20 (zodiak2) there are 2 ports that have been configured, namely Fa0/2 and Fa0/5

3) In VLAN number 30 (zodiak3) there are 2 ports that have been configured, namely Fa0/3 and Fa0/6
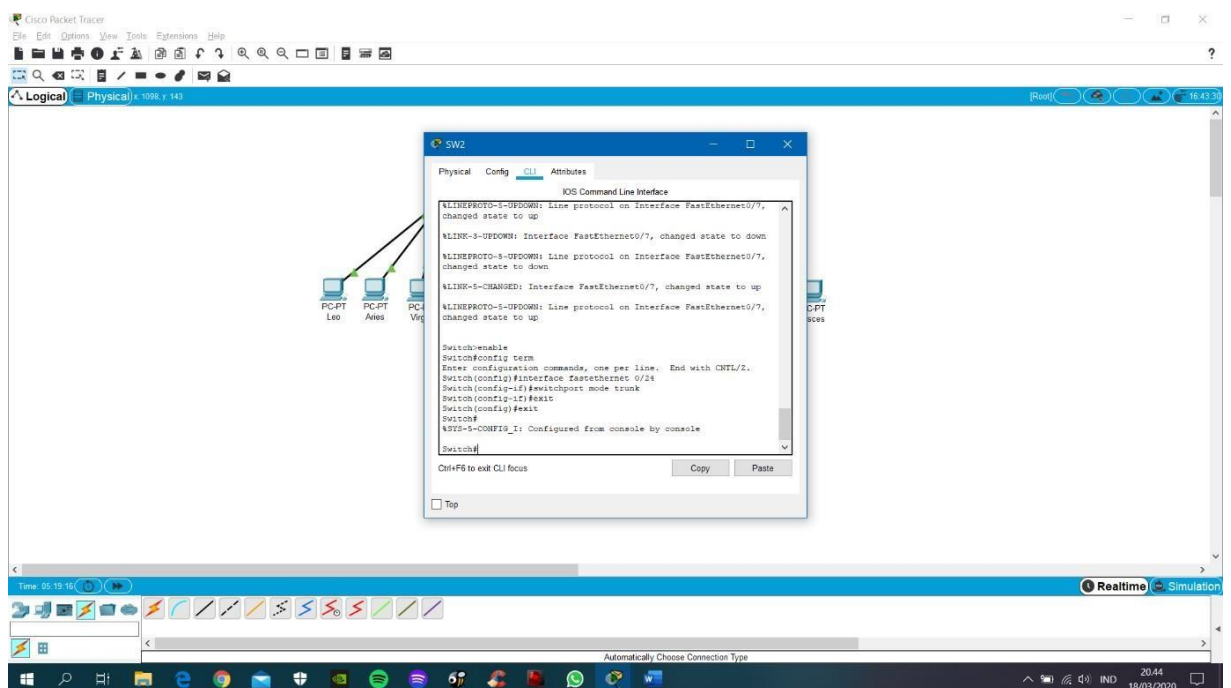
4) Fa0/24 is configured in VLAN Trunking

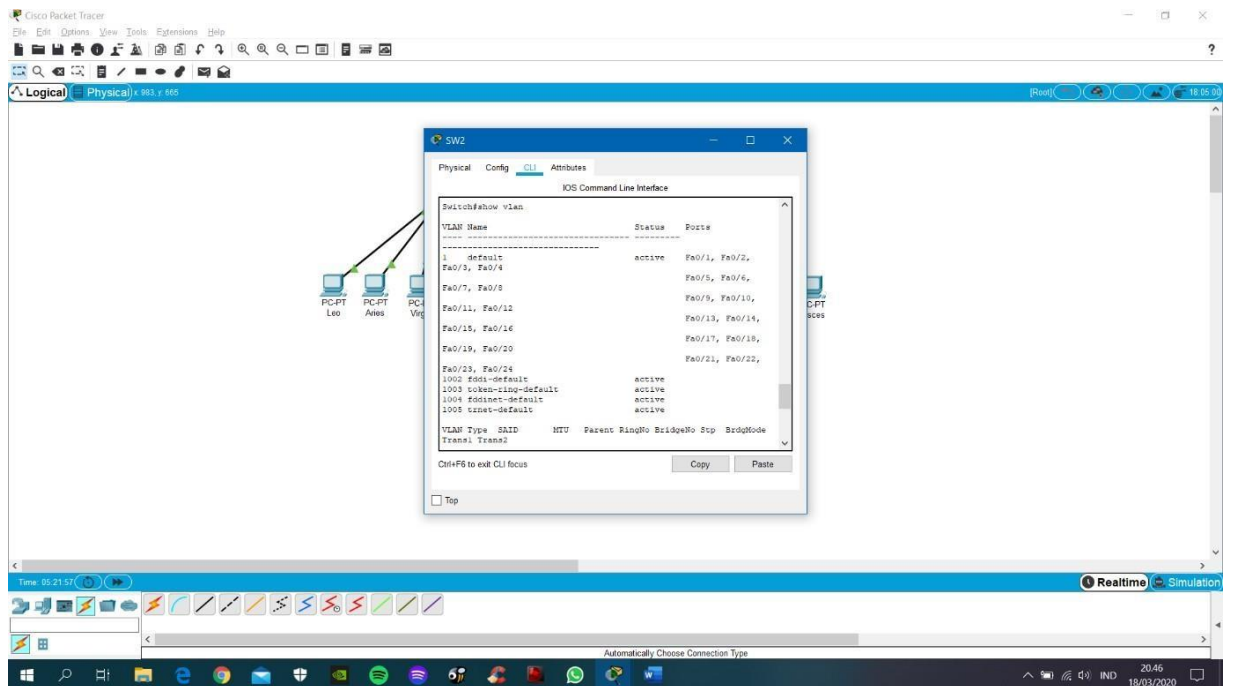Picture 2.3. Pingin from PC Leo to PC Pisces

b. **Question 2:**

Explain briefly why do you get results like that?

Answer 2:

Because the configuration of the IP address on PC Leo and PC Pisces is different

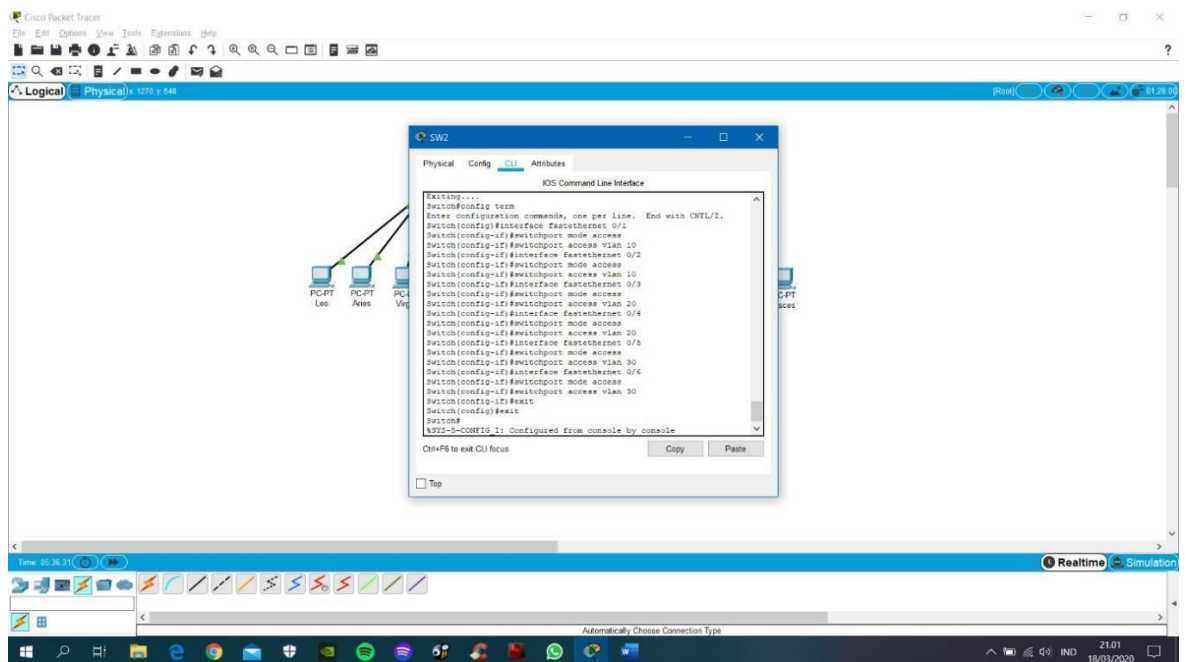Picture 2.4. VLAN Trunking configuration for Switch 2

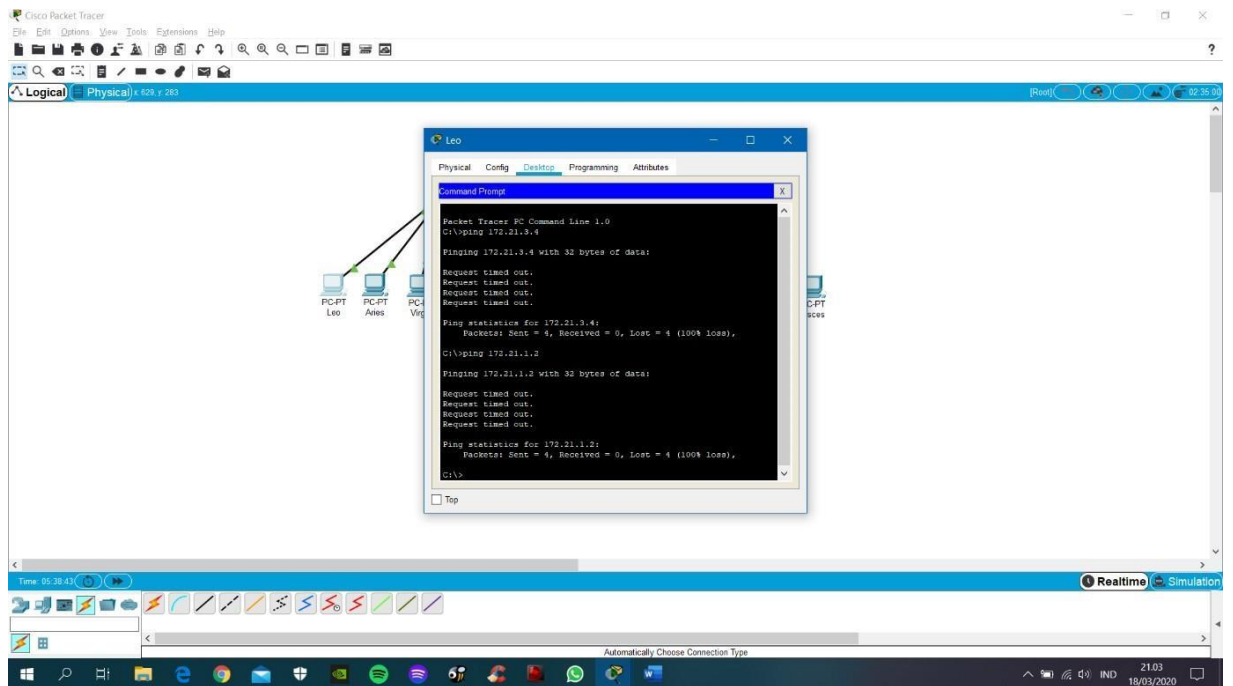Picture 2.5. Result of Show vlan command

c. **Question 3:**

Briefly explain the results obtained!
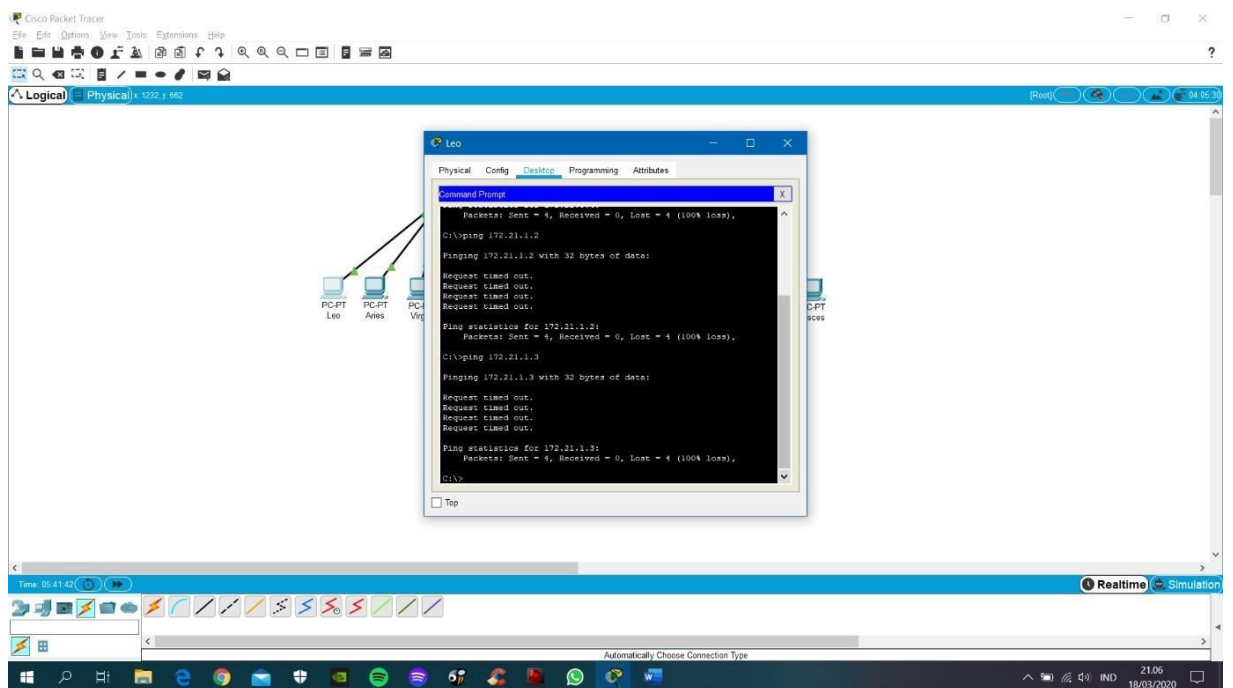
Answer 3:

Fa0/24 is configured in VLAN Trunking
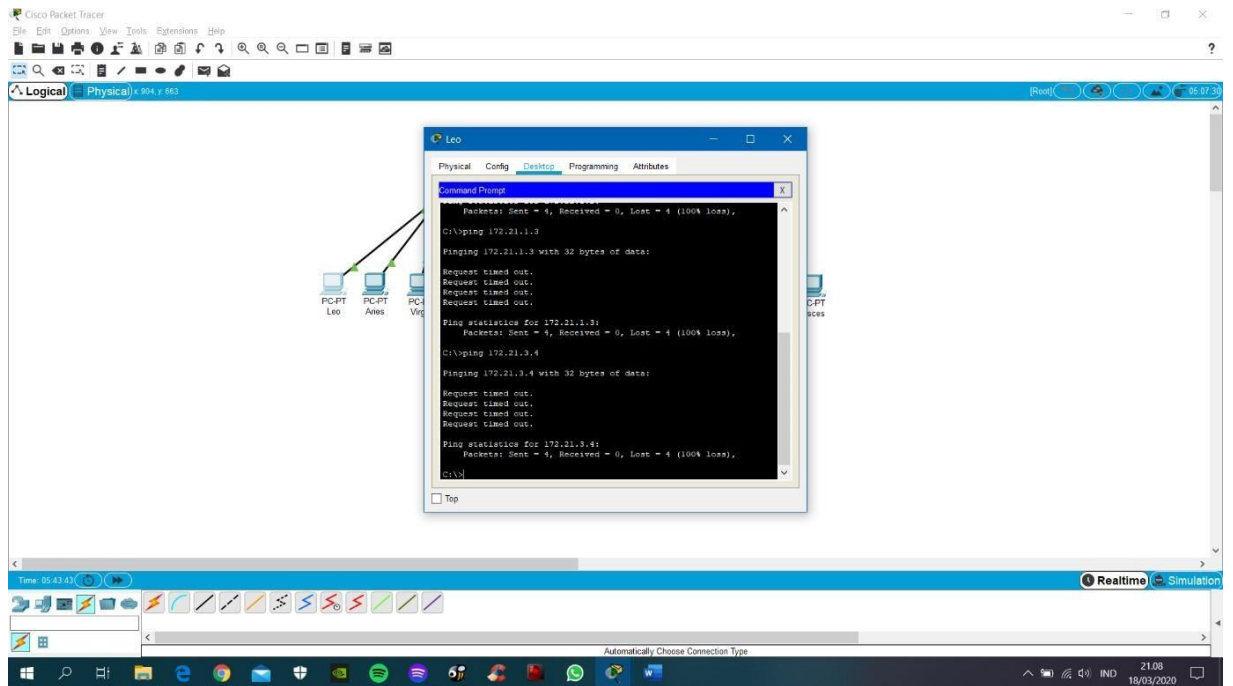
Picture 2.6. Port switch configuration into the VLAN

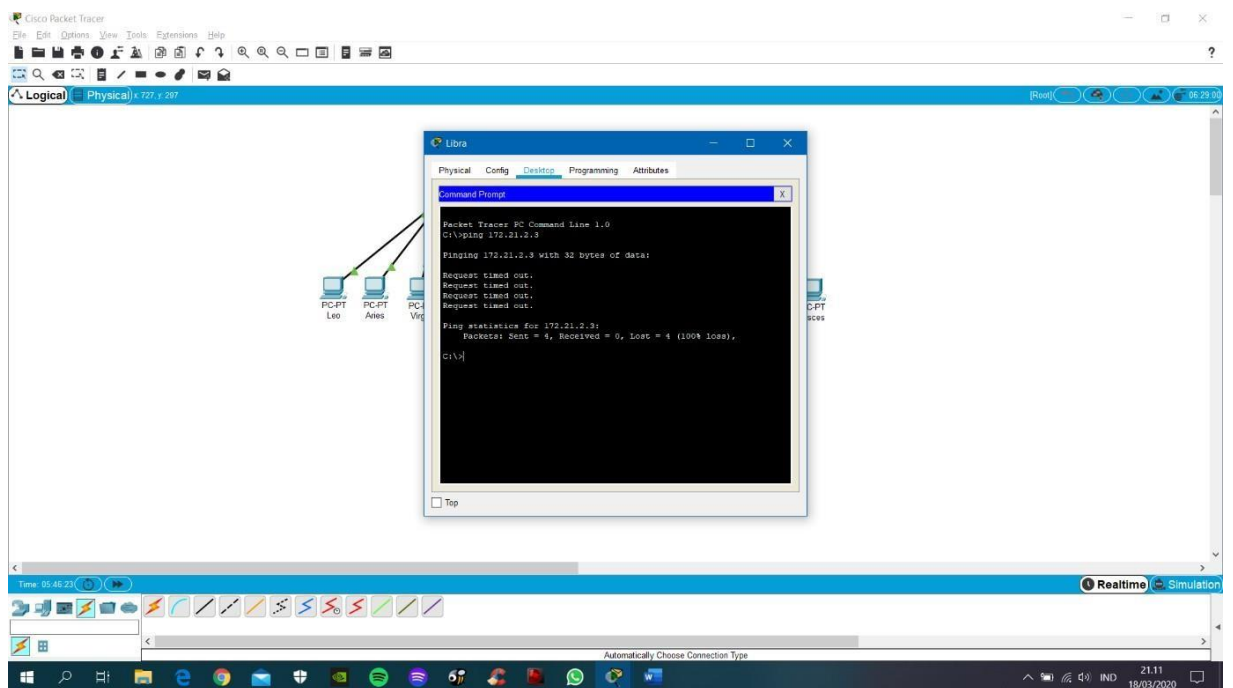

Picture 2.7. Pinging from PC Leo to PC Aries
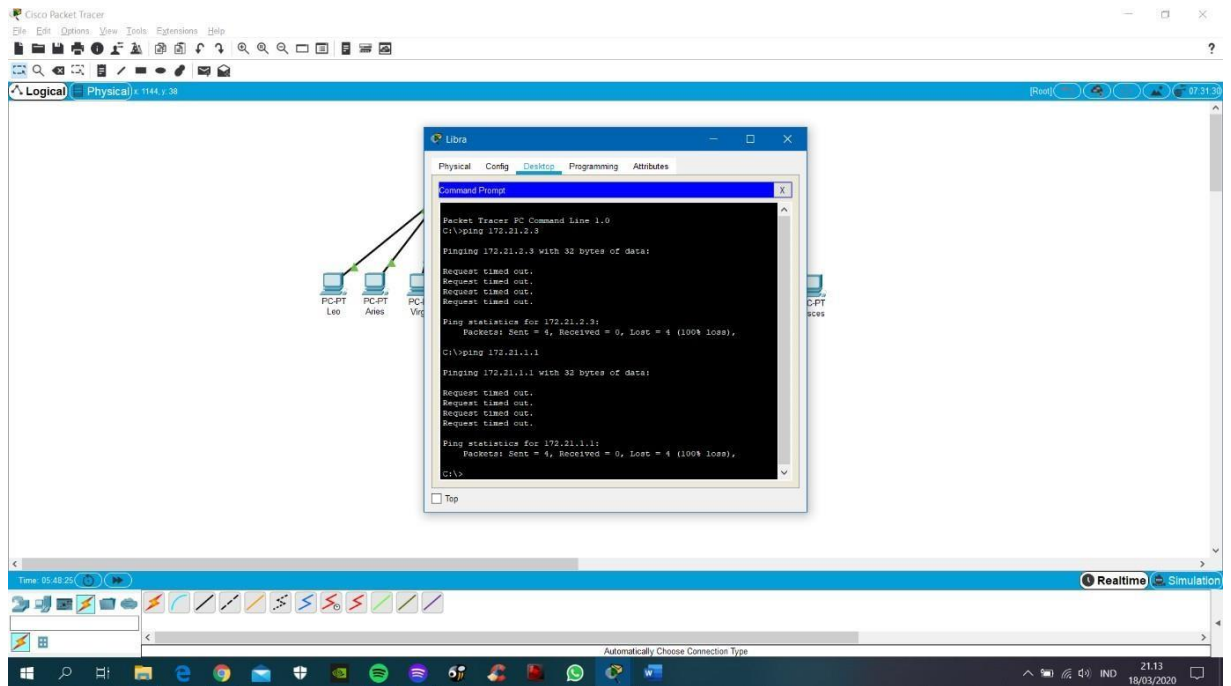

Picture 2.8. Pinging from PC Leo to PC Aquarius

Picture 2.9. Pinging from PC Leo to PC Pisces

Picture 2.10. Pinging from PC Libra to PC Cancer

Picture 2.11. Pingin from PC Libra to PC Leo

d. **Question 4:**

Briefly explain the results obtained!

Answer 4:

All results pinged to several PCs generate status request time out due to
differences in IP address and switch differences