

# **COMPUTER NETWORKS**

## **PRACTICUM 4**



**By:**

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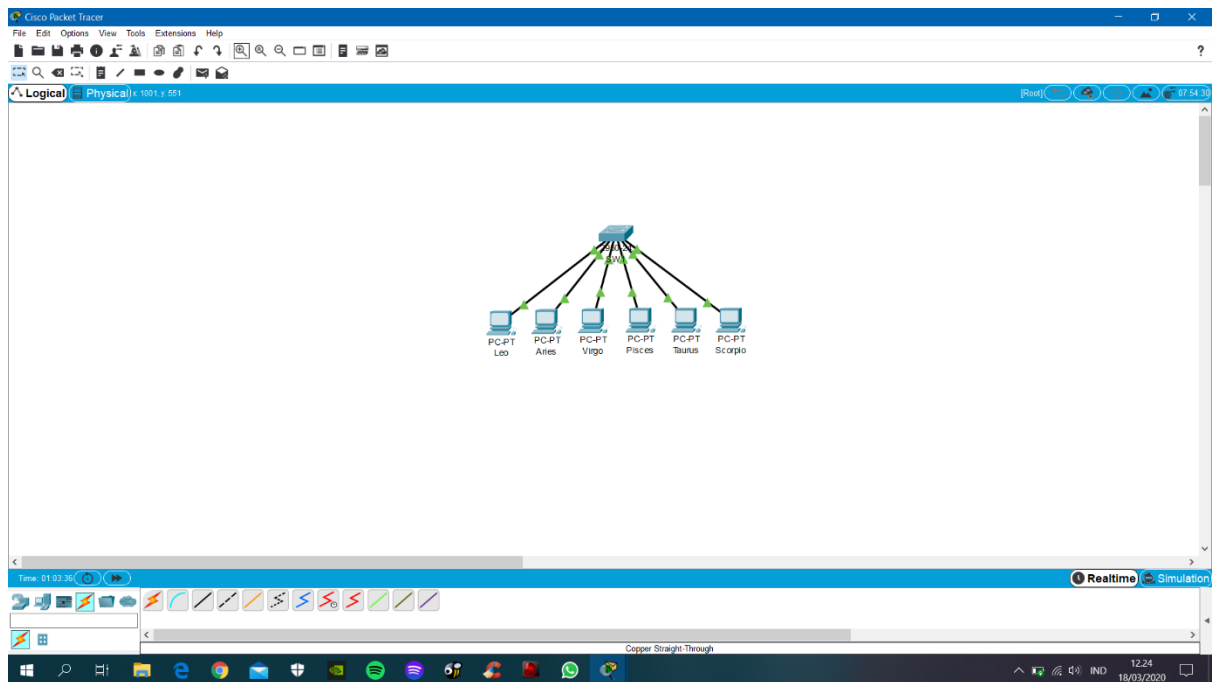
**INFORMATION TECHNOLOGY**

**FACULTY OF COMMUNICATION AND INFORMATICS**

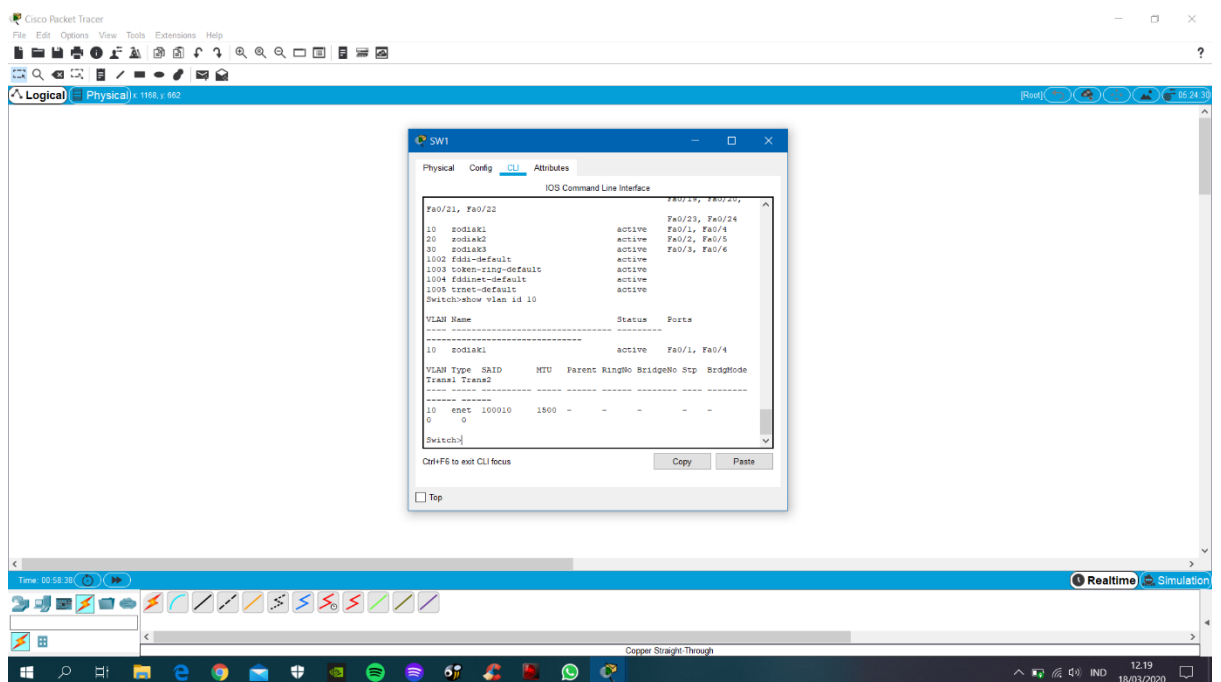
**UNIVERSITY OF MUHAMMADIYAH SURAKARTA**

**2020**

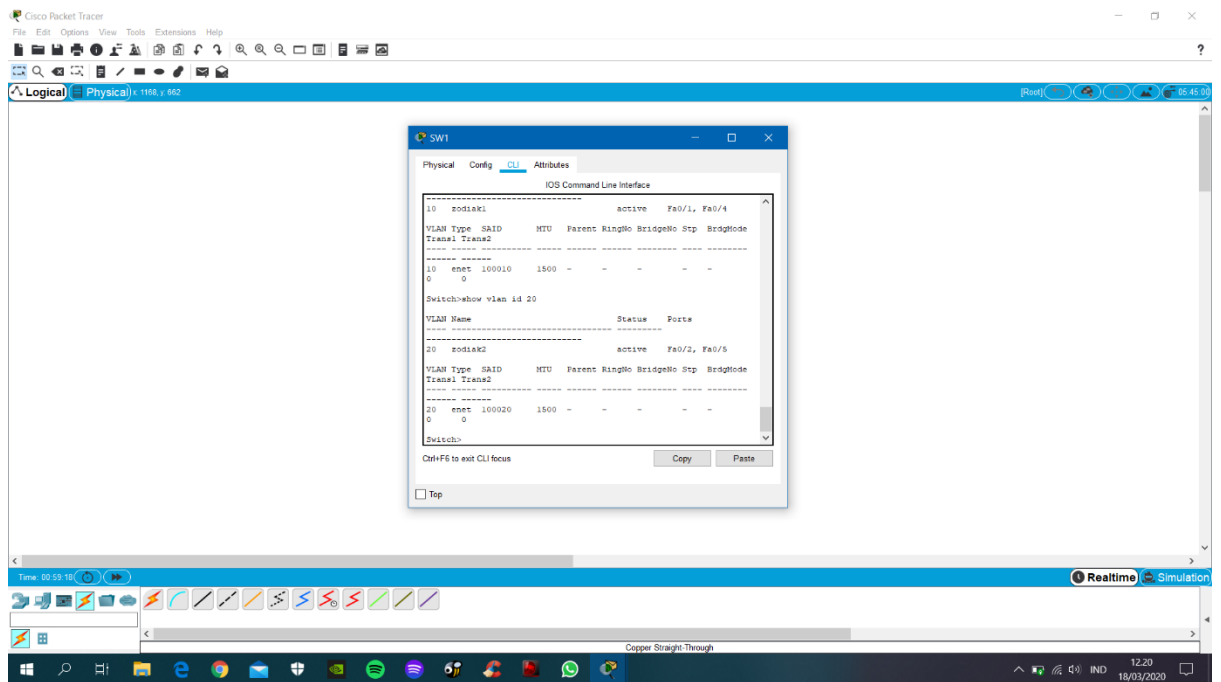
## 1. Activity 1



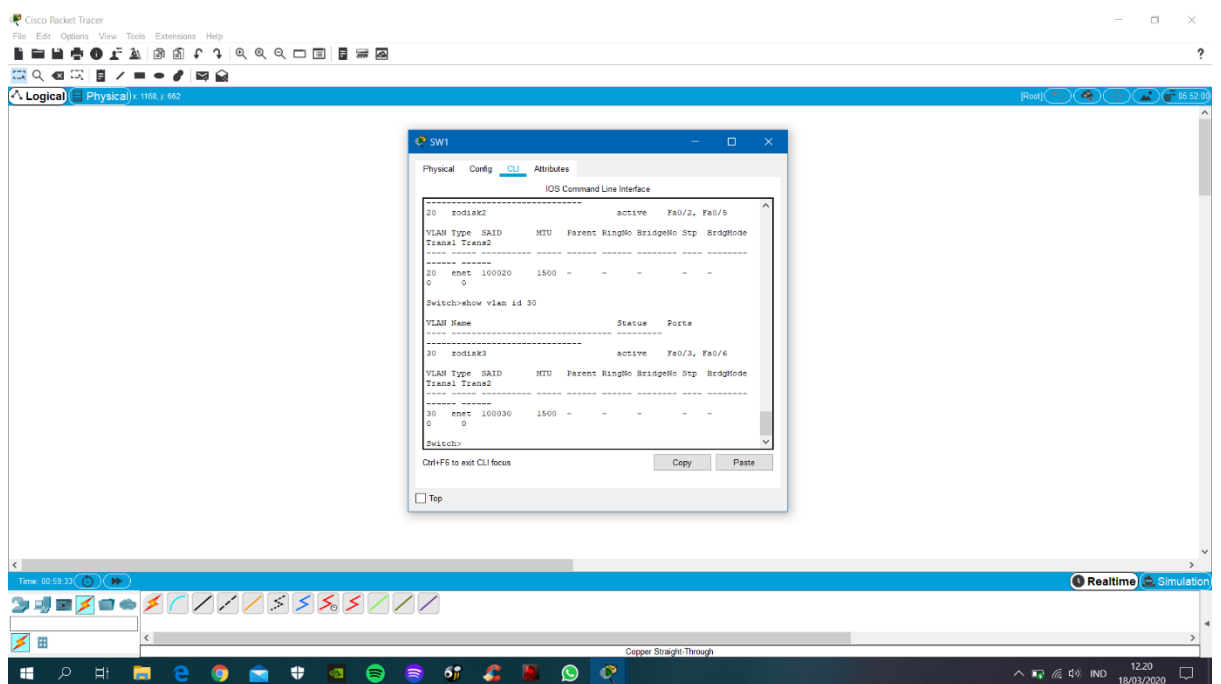
Picture 1.1. Set of computer network



Picture 1.2. Configuration information of VLAN 10



Picture 1.3. Configuration information of VLAN 20



Picture 1.4. Configuration information of VLAN 30

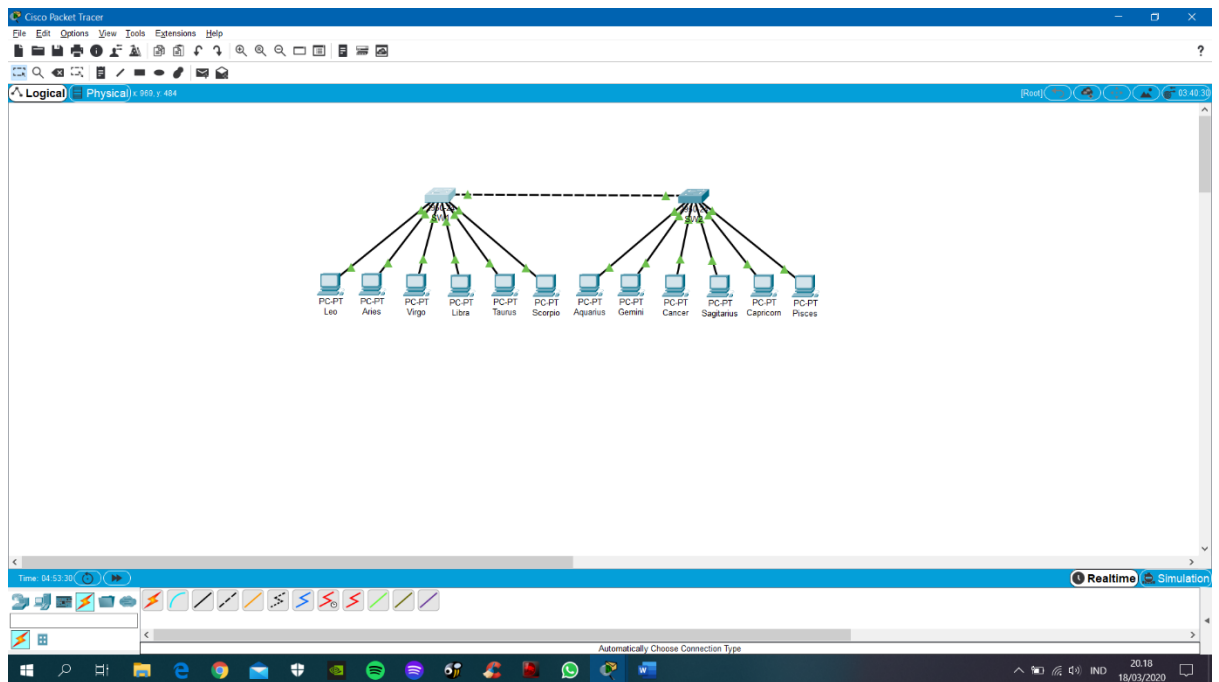
### Question:

Briefly explain the results obtained!

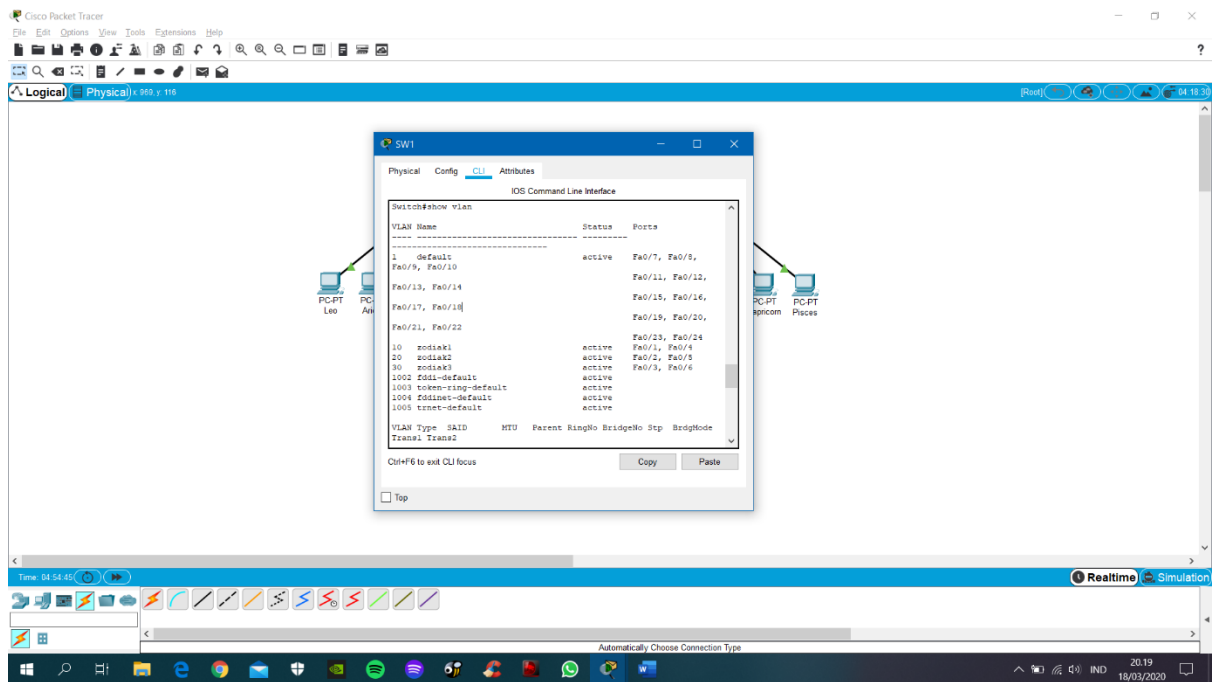
Answer:

- 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



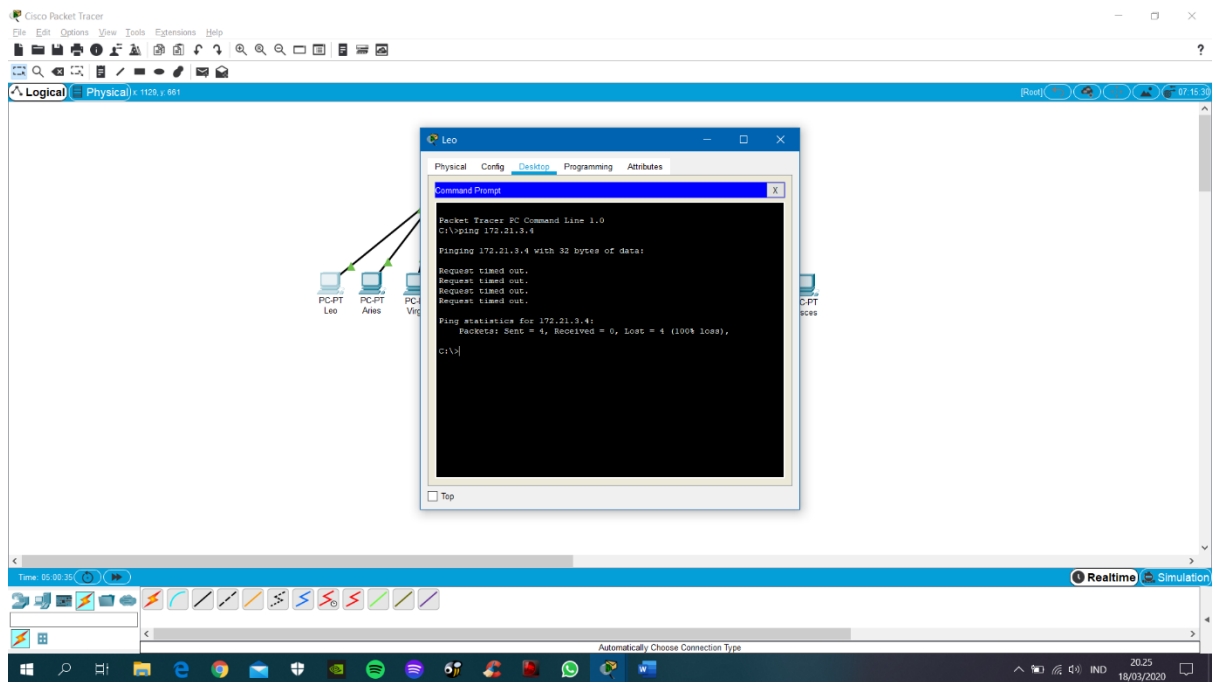
Picture 2.2. Result of show vlan command

#### 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



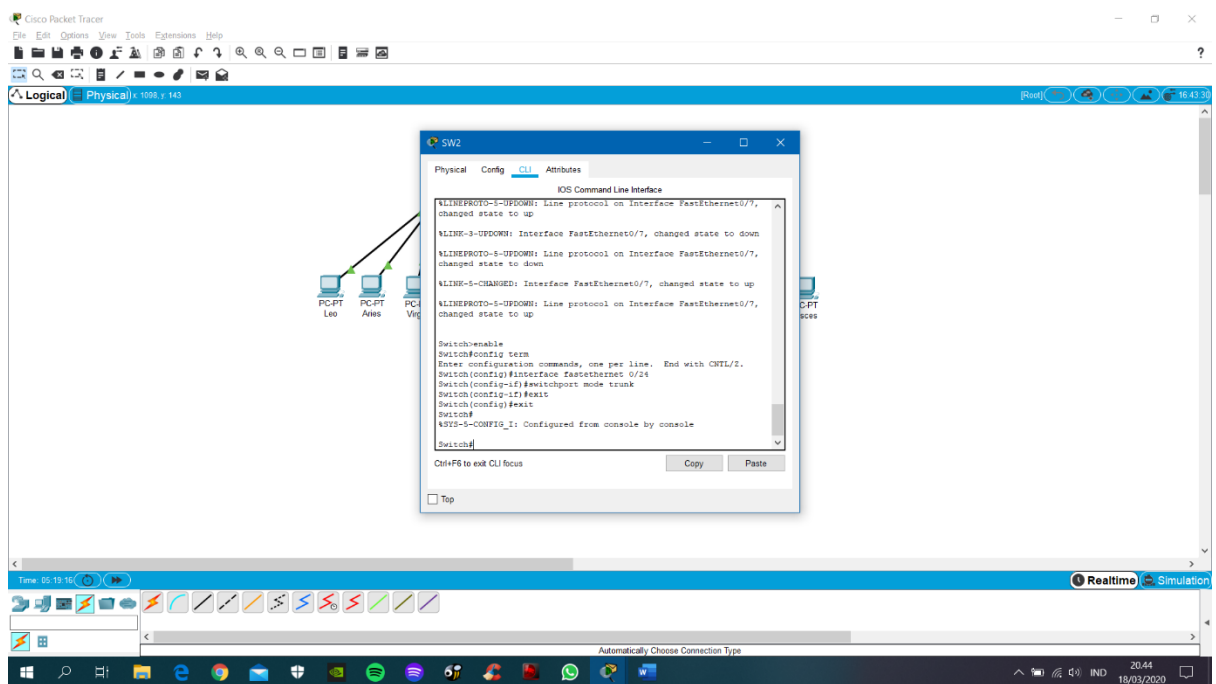
Picture 2.3. Pingin from PC Leo to PC Pisces

## b. Question 2:

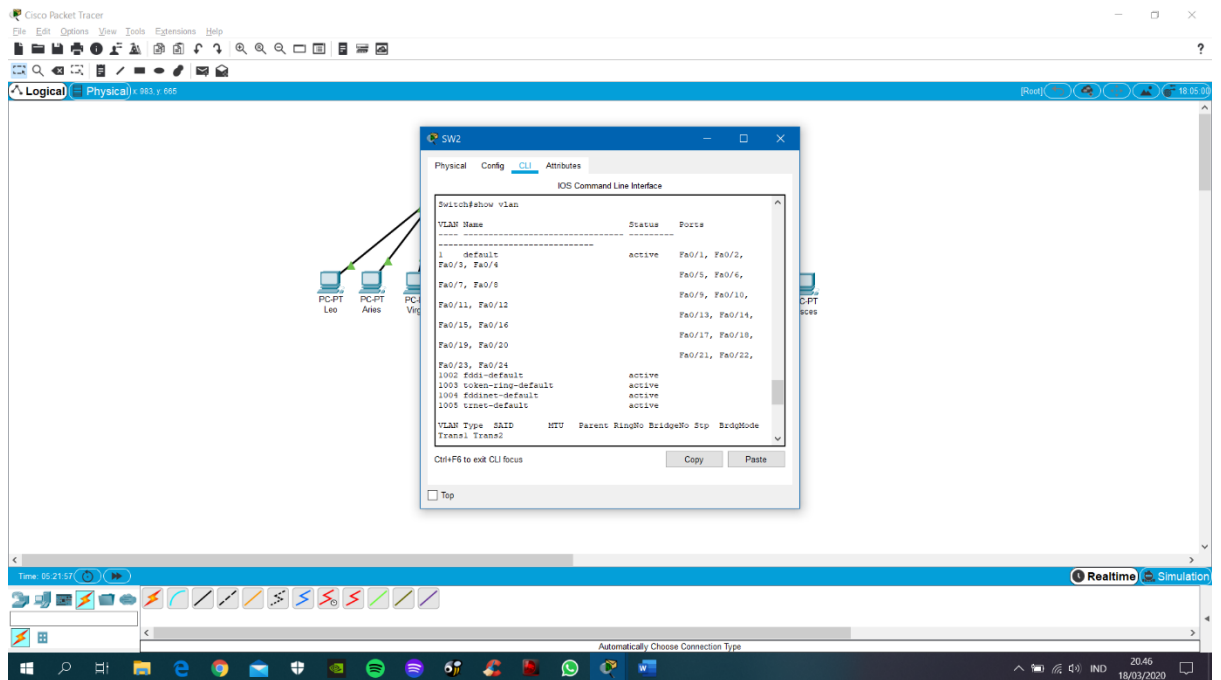
Explain briefly why do you get results like that?

### 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



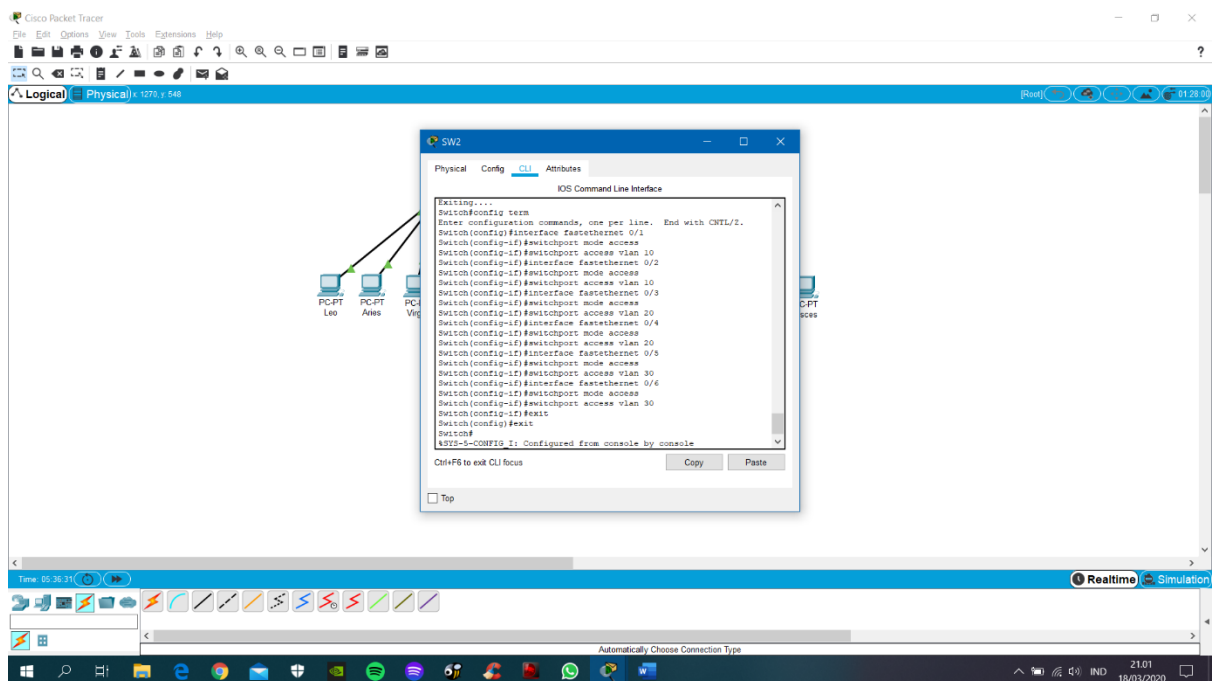
Picture 2.5. Result of Show vlan command

### c. Question 3:

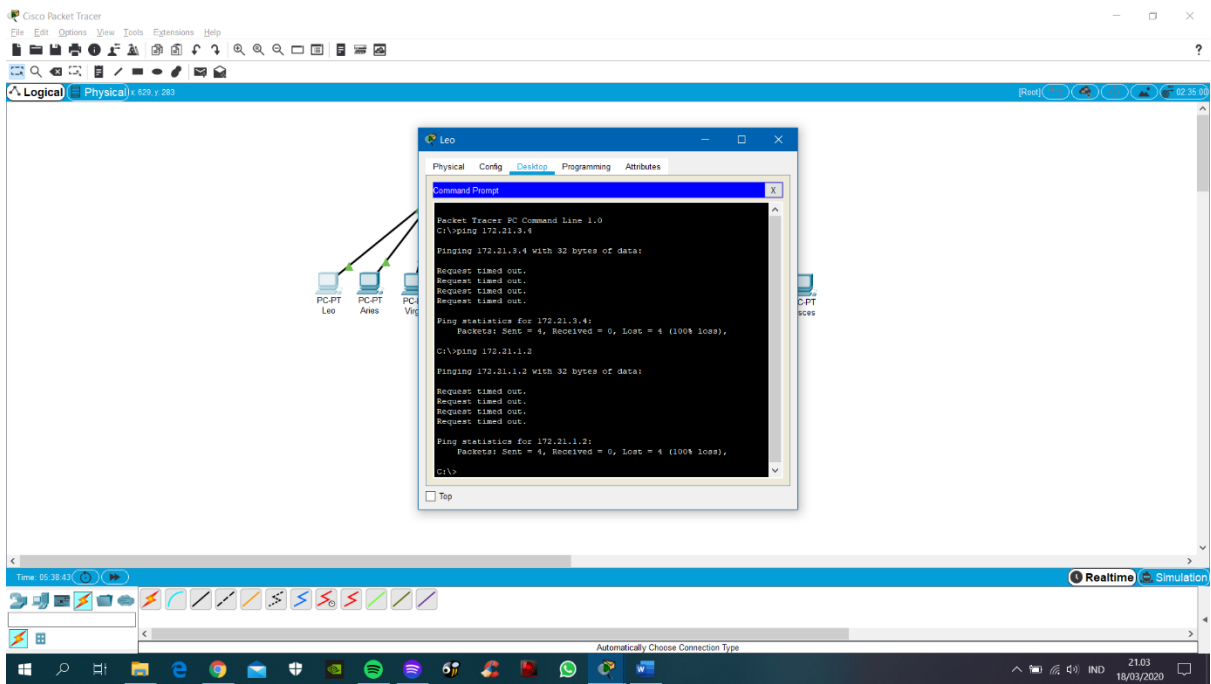
Briefly explain the results obtained!

**Answer 3:**

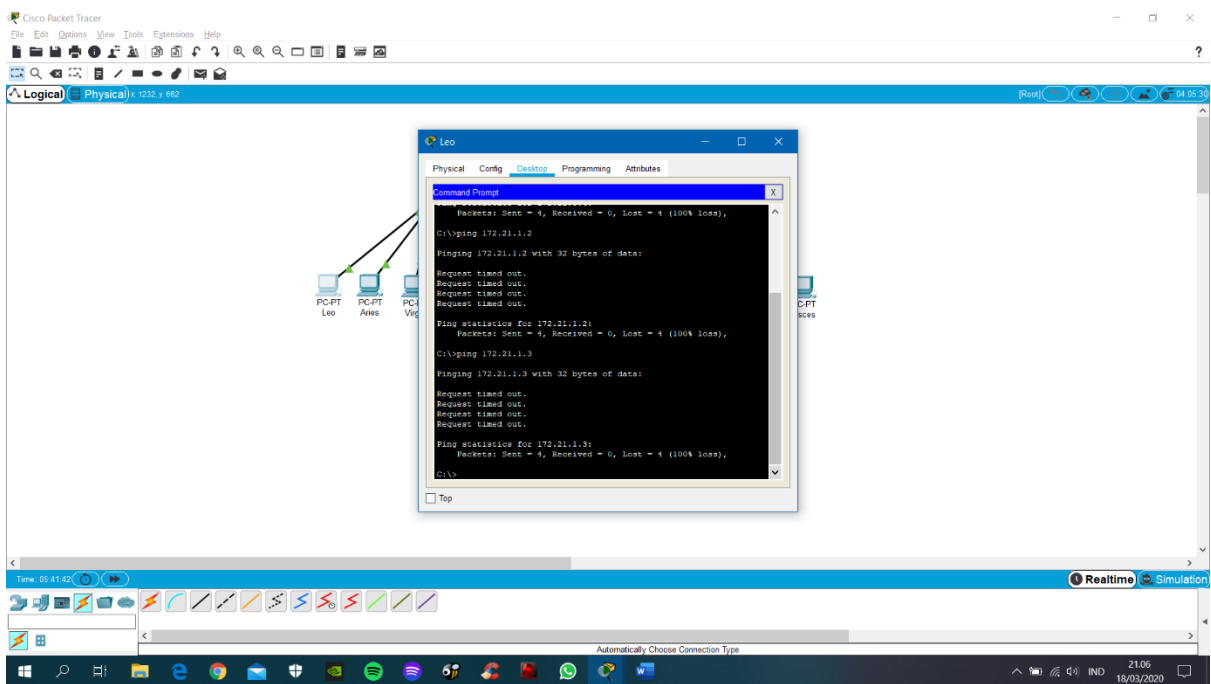
Fa0/24 is configured in VLAN Trunking



Picture 2.6. Port switch configuration into the VLAN

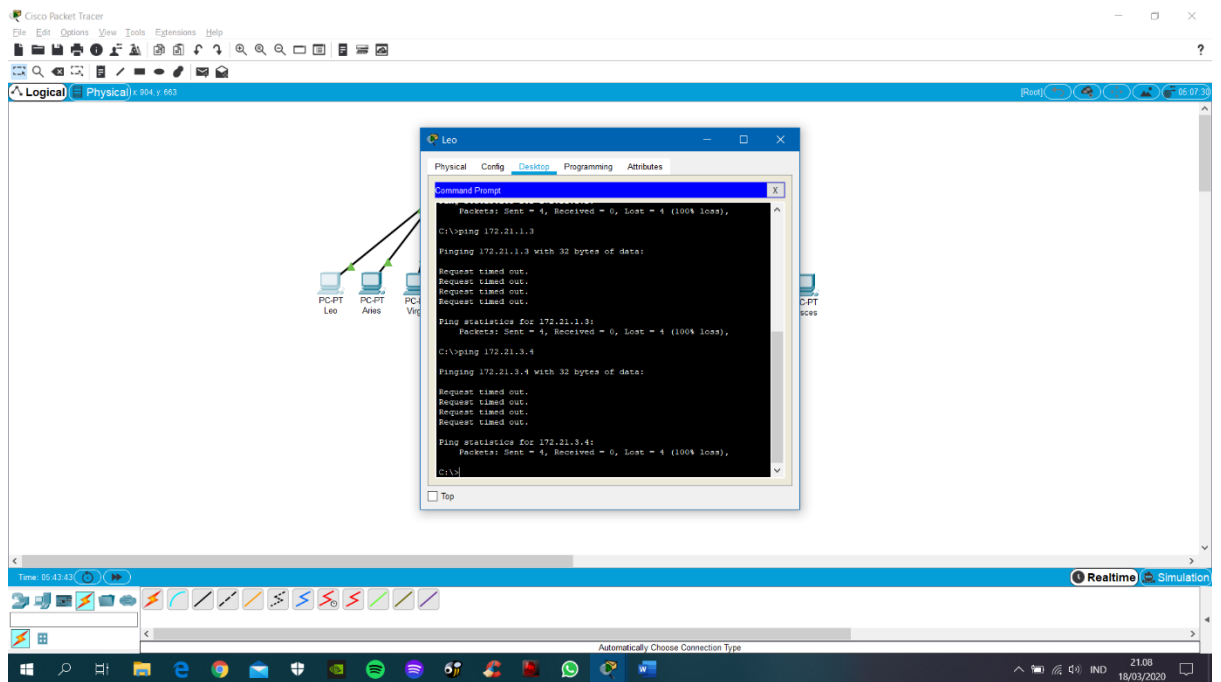


Picture 2.7. Pinging from PC Leo to PC Aries

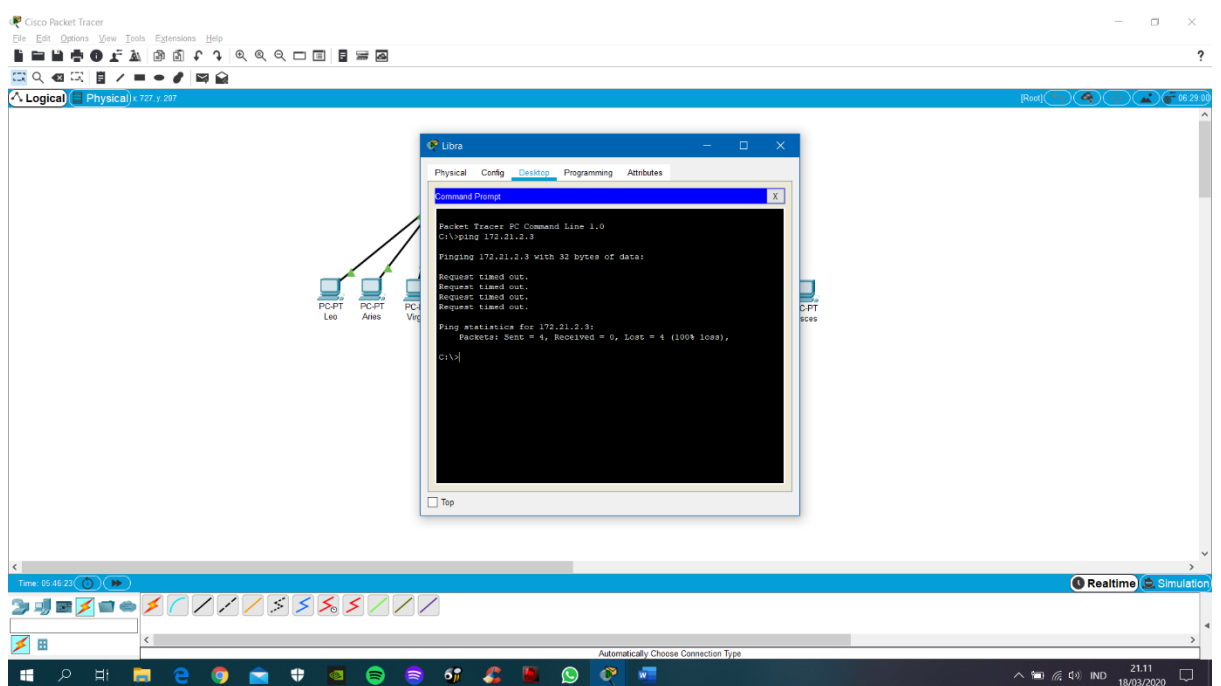


Picture 2.8. Pinging from PC Leo to PC Aquarius

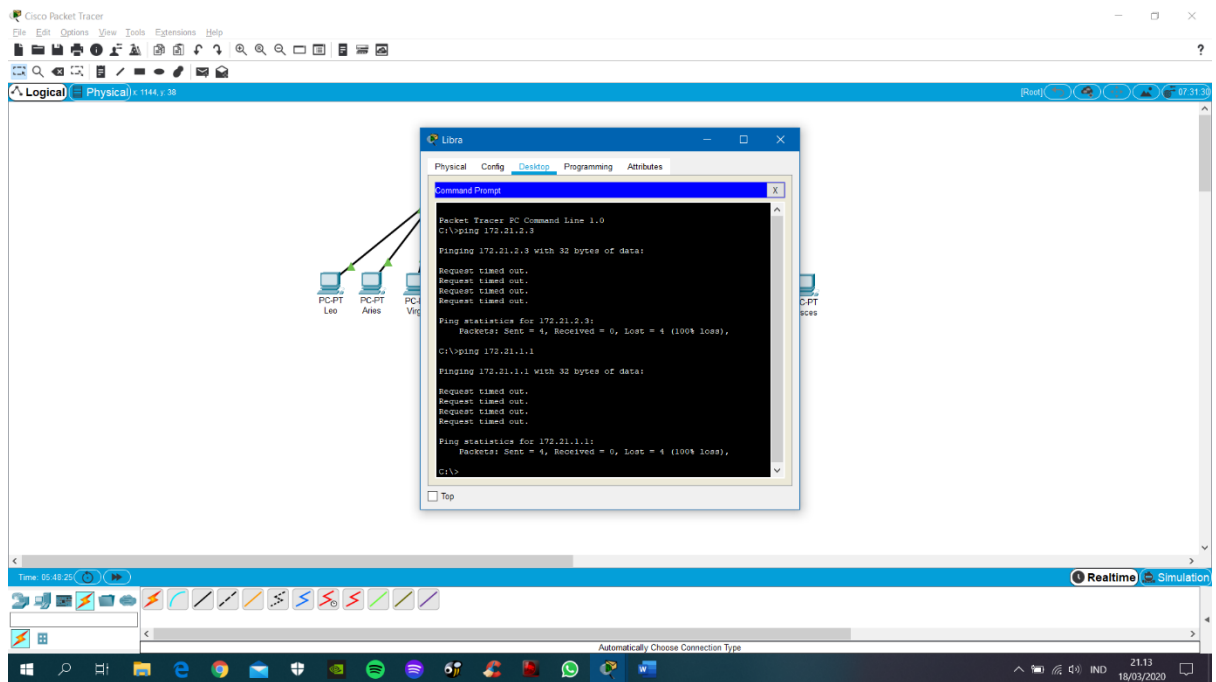




Picture 2.9. Ping from PC Leo to PC Pisces



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