# Institute of Computer Technology
B. Tech Computer Science and Engineering
Subject: Basics of Communication Systems (2CSE202)
## **PRACTICAL-EXAM**

AIM: -

Create a wireless LAN as shown in following figure. Create wireless Access point with WEP key as your 11 digit enrollment number. Send ICMP packet from Laptop0 to PC0. Also create a MAC filter at wireless router in such a way that only laptop0 is able to connect with wireless router.
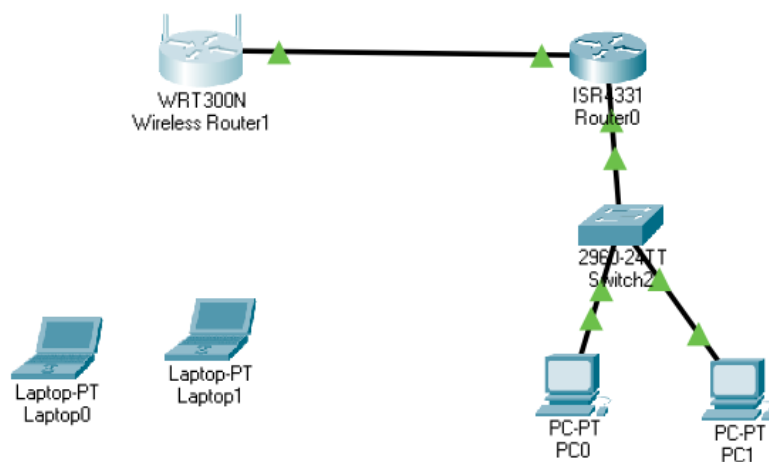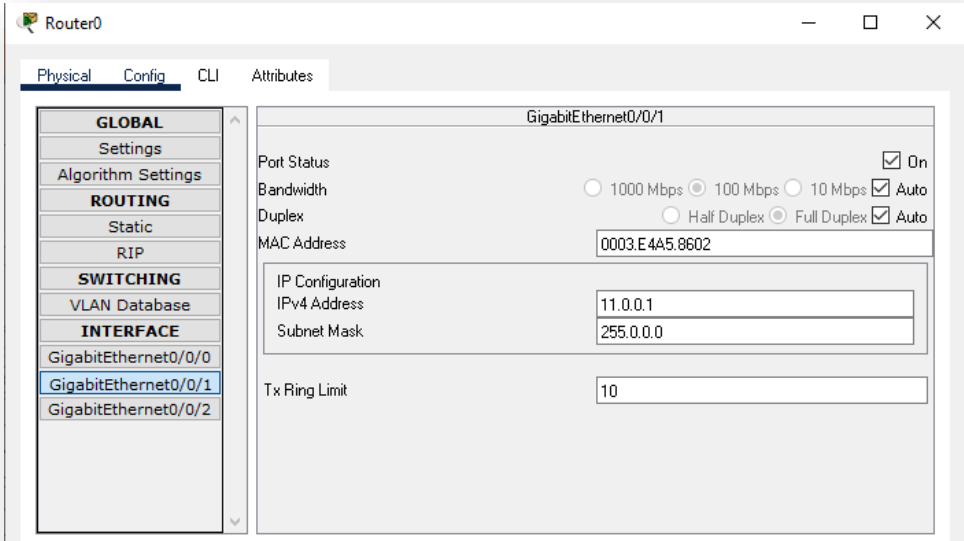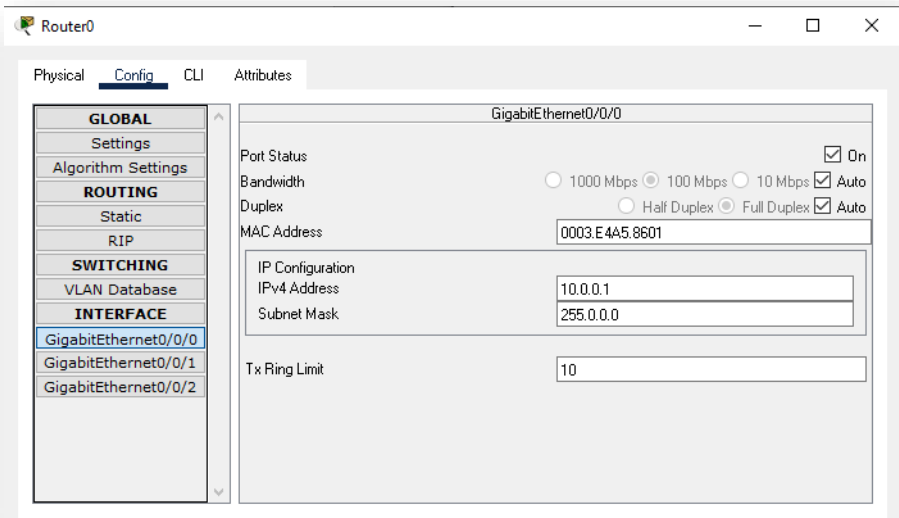

SOLUTION

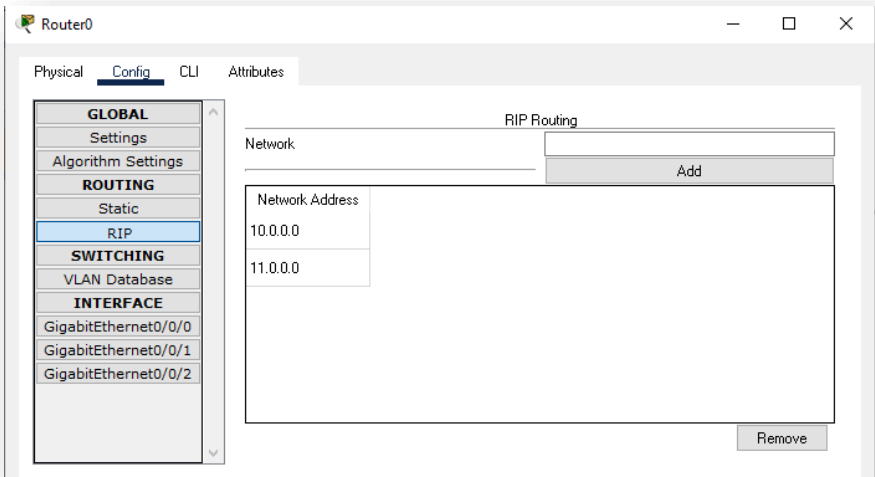Configure the following devices as shown below: -

List of devices: -

- Router0
- Switch0
- PC0, PC1
- Wireless Router0
- Laptop0, Laptop1
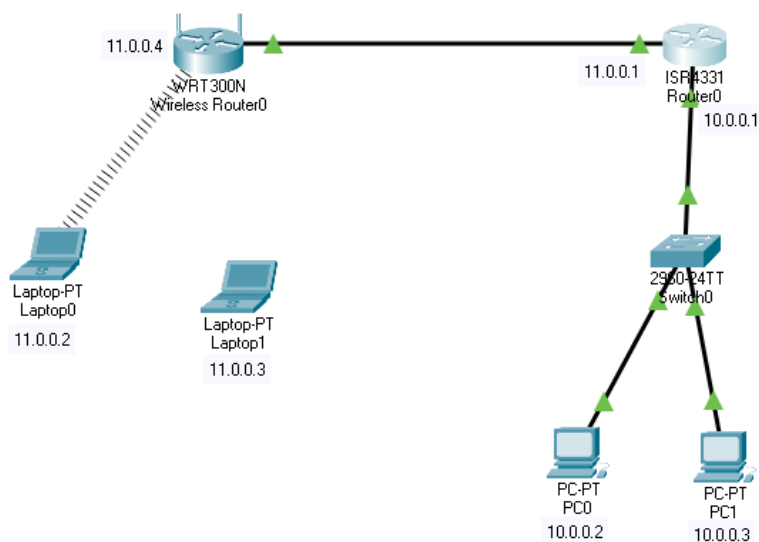
(1) Router0: -

Give IP address accordingly

Add RIP routing in router for convinence,

(2) PCs: -
PC0

PC1

(3) Wireless Router0: -
Configure the Wireless Router0 as follows: -
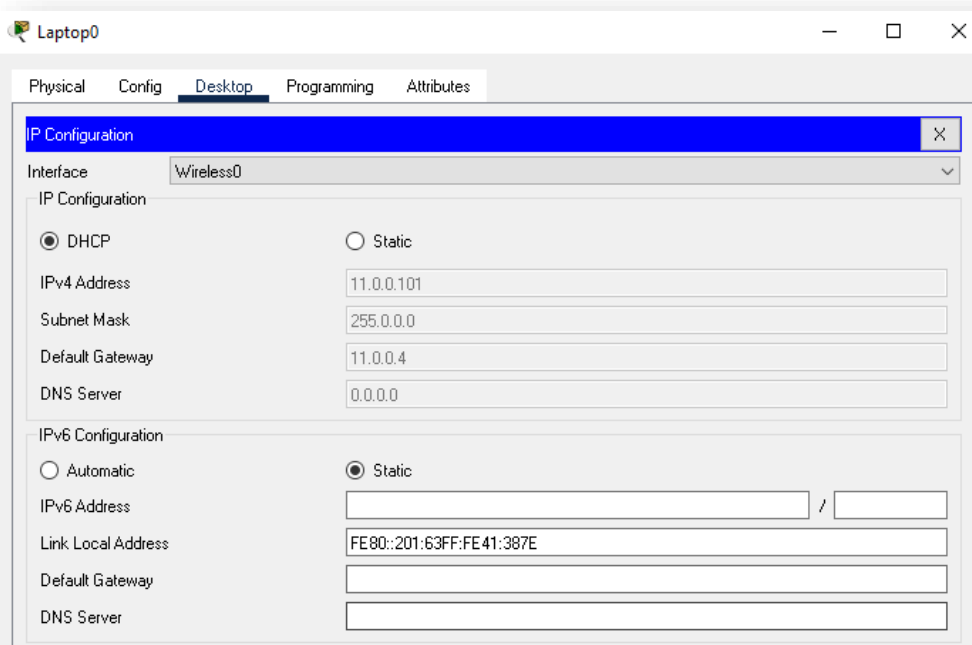
(4) Laptops: -

- First of all, we have to add wireless module (WPC300N) in laptops.
- For that we have to turn off laptop remove the existing hardware and add wireless module (WPC300N).
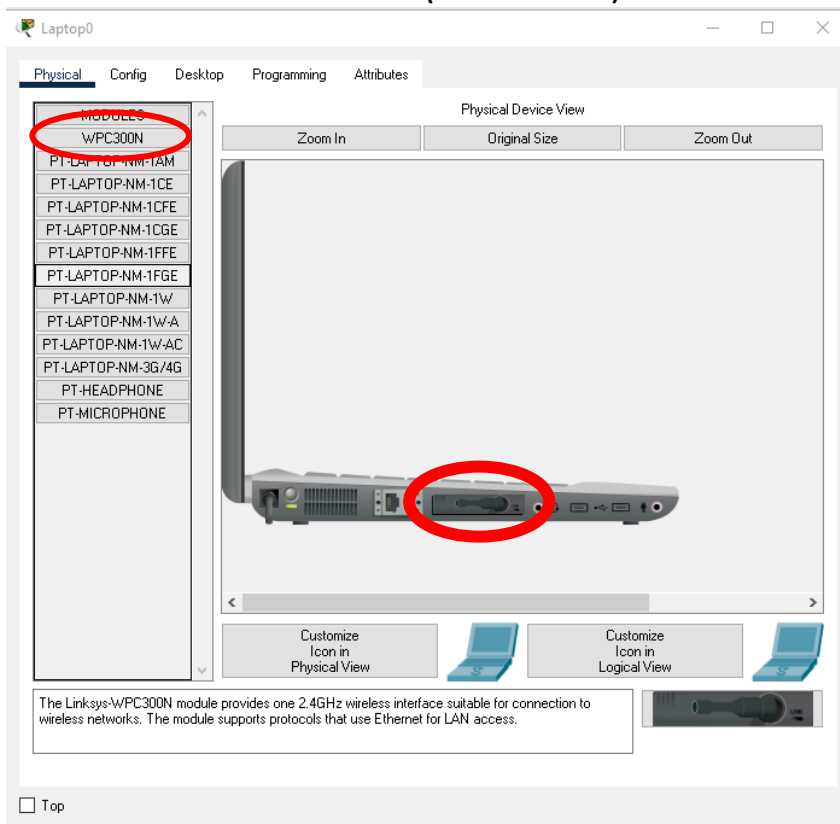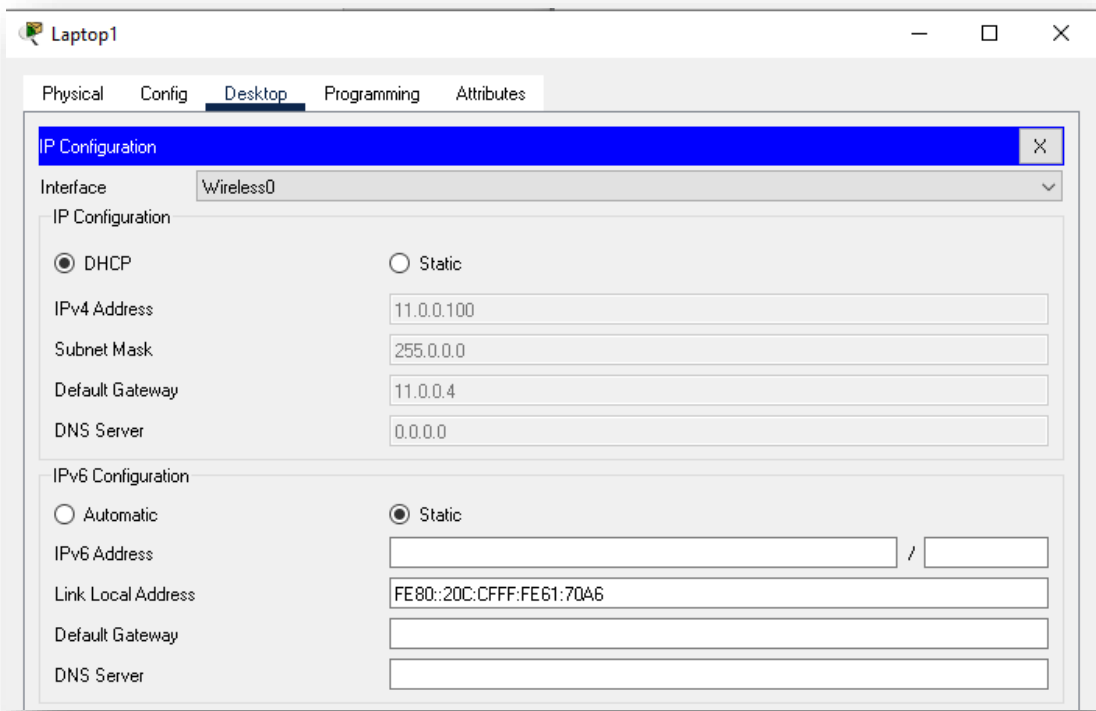

- Then we will have to add IP addresses to laptops as follows: -
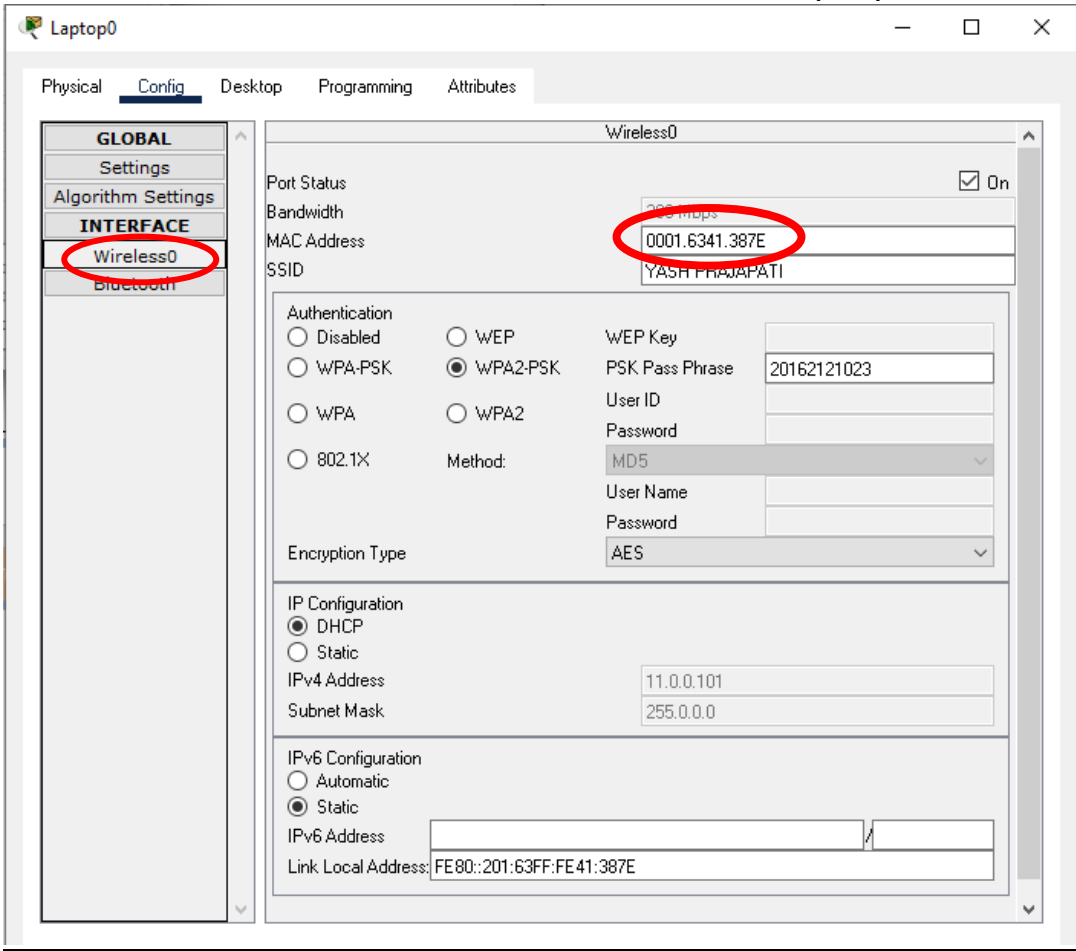
Laptop0: -
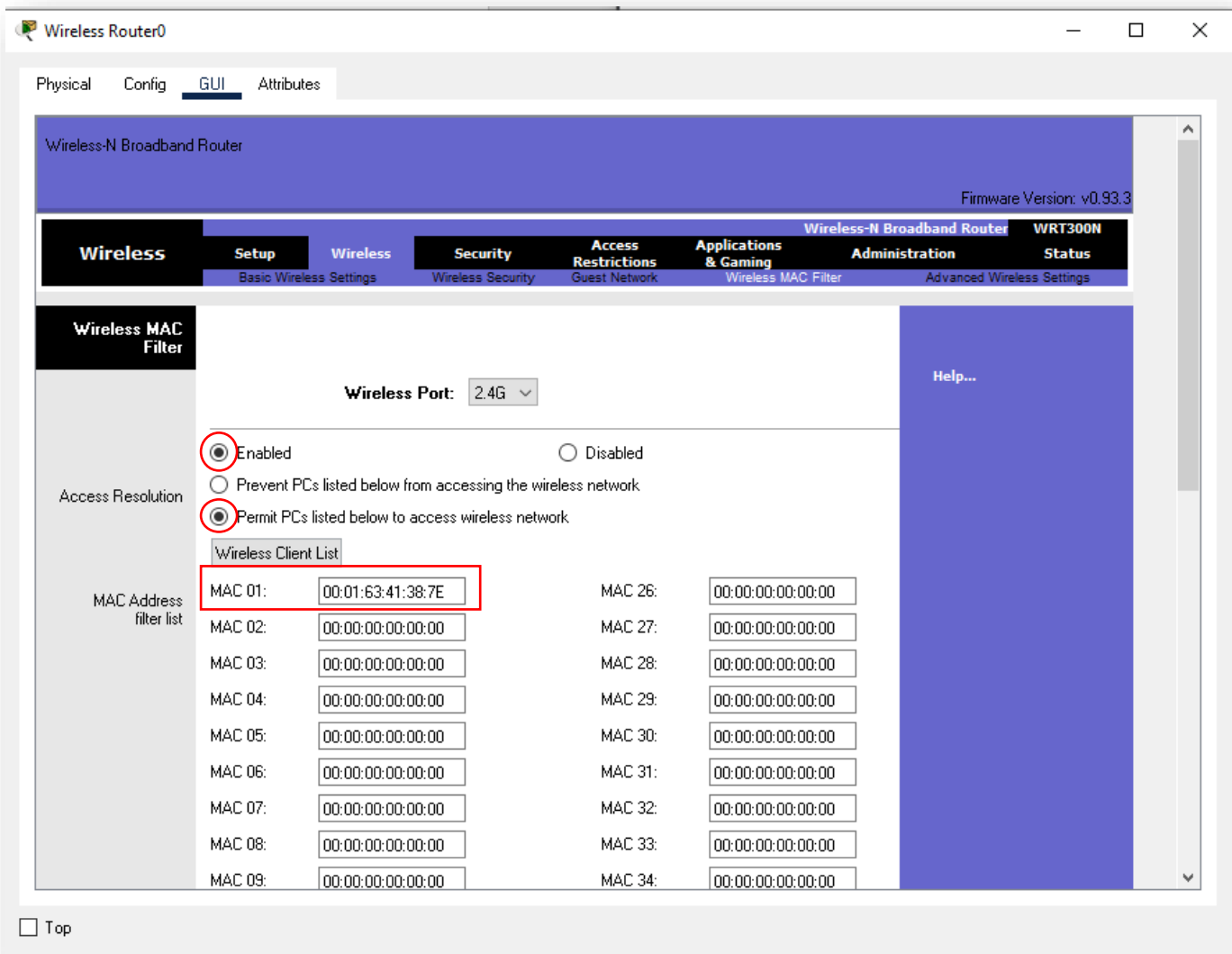
Laptop1: -

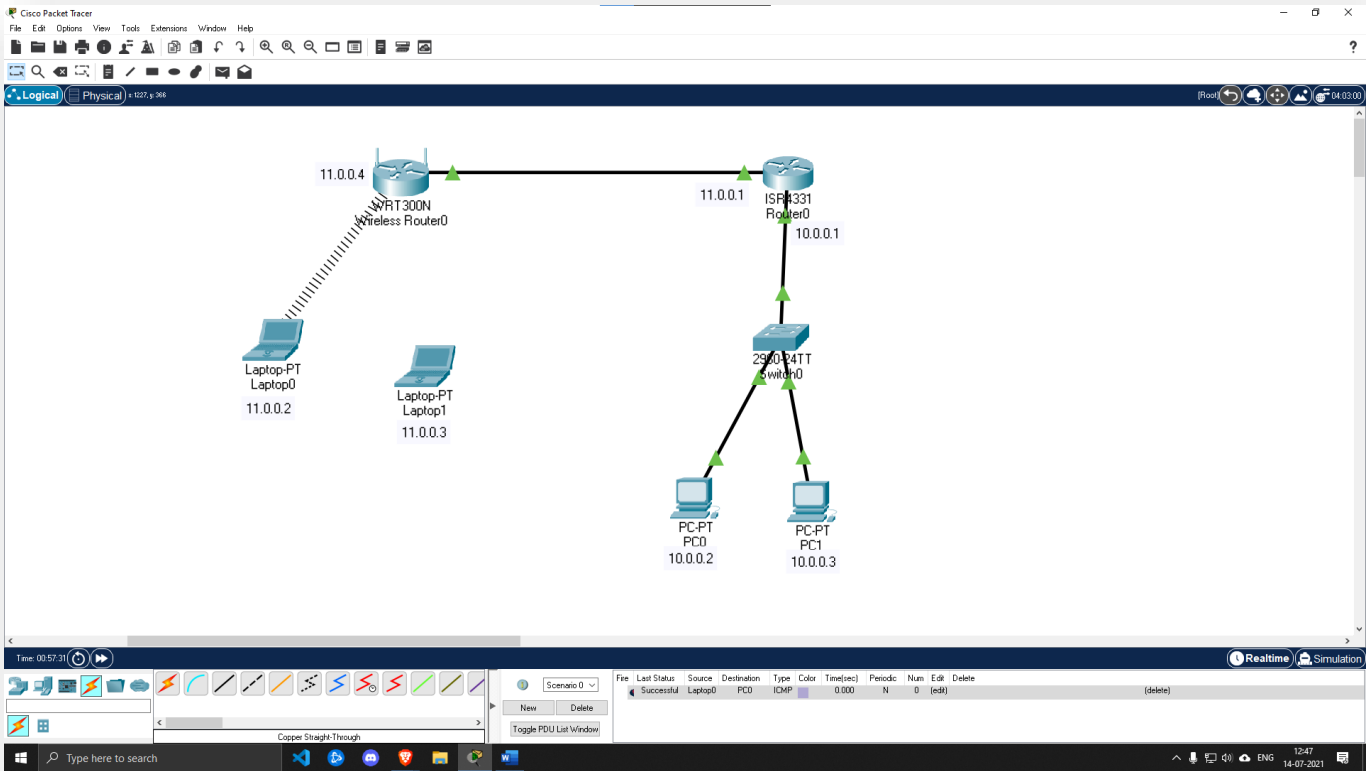## Now for MAC filtering at wireless router

- First we will need to see the MAC address of Laptop0

- Now goto Wireless Router0, click on "GUI"
- In GUI, goto "Wireless" and in wireless goto "Wireless MAC filter".
- Click on enable option and click on "Permit PCs listed below to access wireless network" add the MAC address of Laptop0 in the list.

CONCLUSION

As per ques, we are now able to send ICMP packet from Laptop0 to PC0. And we also created a MAC filter at wireless router in such a way that only laptop0 is able to connect with wireless router.