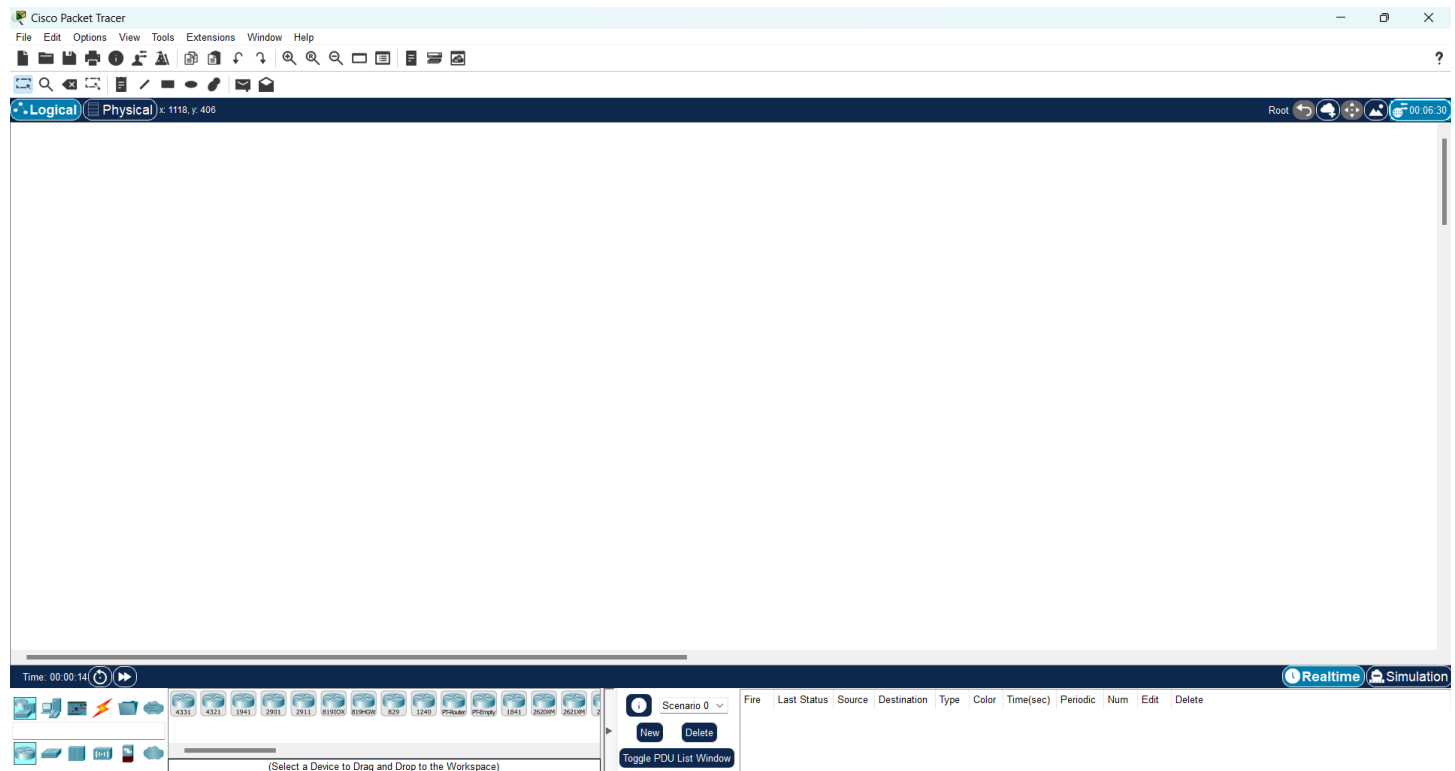
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Subject: Computer Networks (01CT0503)	Aim: Introduce networking simulator tool and demonstrate various functionality. - CO1	
Experiment No: 01	Date: 18-07-2024	Enrolment No: 92200133023

Aim: Introduce networking simulator tool and demonstrate various functionality. - CO1

Step 1:

Here I am using a Cisco packet tracer simulator :




Front Look of this simulator so,

In this part of simulator show us a various type of component which we can use for particular purpose there are so many components Below part of this simulator likes Routers, switches, Hubs, wireless devices, security, WAN Emulation etc...

Step 2:

There is one button with name connections from there we can connect two or more than two - devices together. For that we must have to knowledge about different wires like where to use which wire...

In the Below Picture you can see the different types of wires.

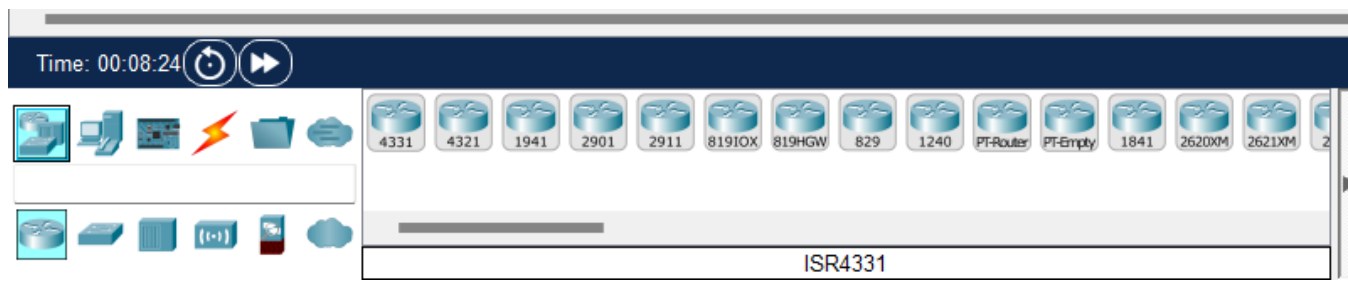
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These all are different types of wires like automatically chose connection type, second is console, copper straight wire etc...


Step 3:

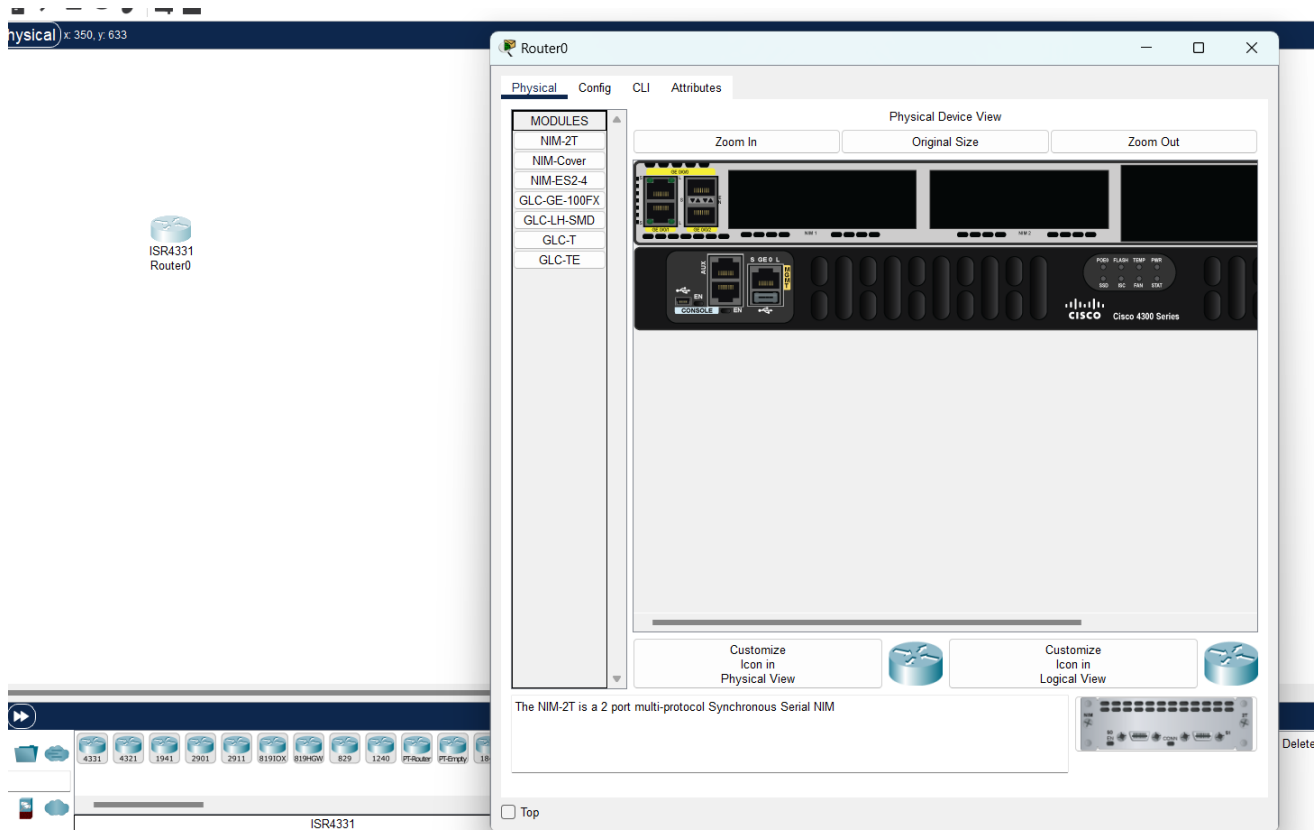
In the below picture you can see the different types of routers.



Step 4:

In this picture you can see that I have select or take one router.

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Experiment No: 01	Date: 18-07-2024	Enrolment No: 92200133023

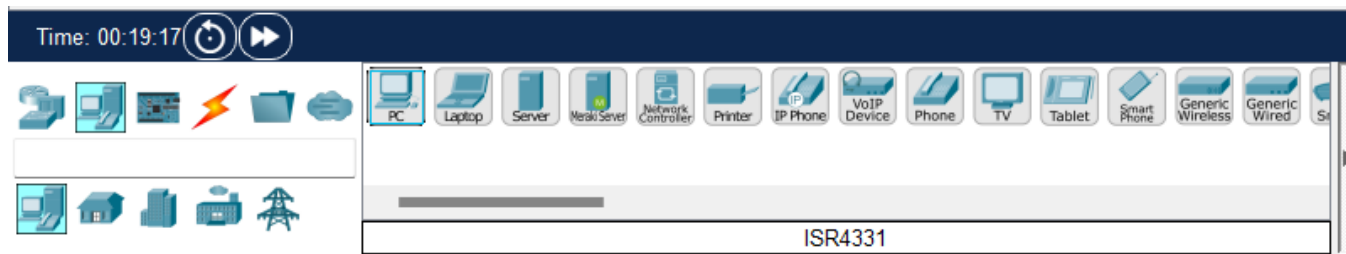


So If you want to know the modules of the selected routers or any taken routers so you have to click on taken router and then you will see the view of the physical device that you can see above picture.


On the left side you will find different modules, also you will find config, attributes etc...

Step 5 :

This is the picture of the end devices

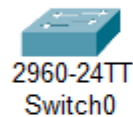


In this section we can find many devices like pc, laptop, server, phone ,tv, tablet, wireless, wires and many more like this that devices gives us actual filling that we will work in this .

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Experiment No: 01	Date: 18-07-2024	Enrolment No: 92200133023


Step 6:

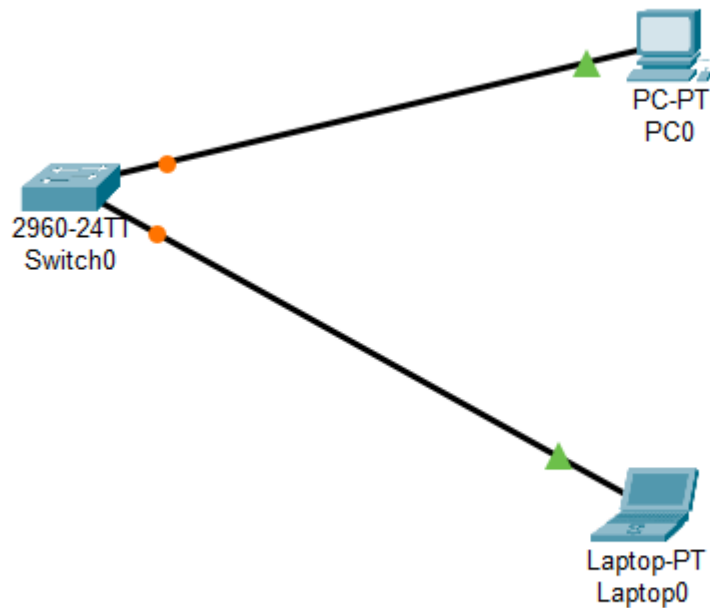
Now In this I have select one switch to know more about this and also I have selected pc and laptop from end devices section and I will make connection to know it will working or not.



Step 7:

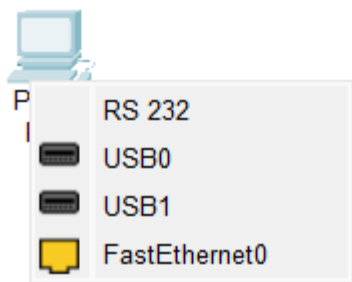
For connect in between this three devices we need wire, and I chose copper wire for connect them.


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Experiment No: 01	Date: 18-07-2024	Enrolment No: 92200133023



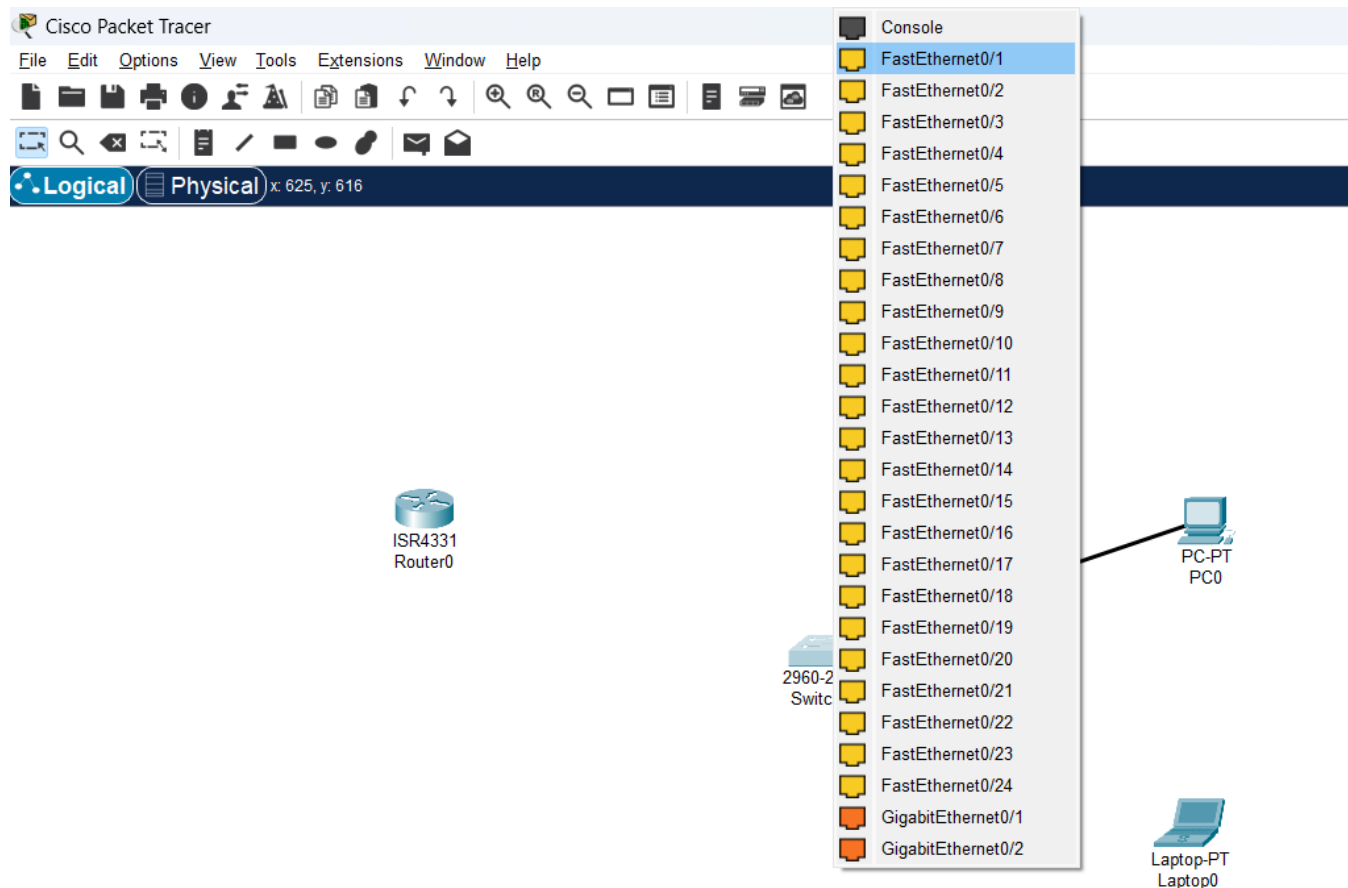
Green triangle shows that you connection established and another thing is that while you connecting the devices and you will find that red circle that means your connection is in progress.

when I select the wire and click on switch it shows one dialogue box in which we need to select one option I select Fast Ethernet option. Then when I click on pc to connect with switch it show me three options like these,



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Experiment No: 01	Date: 18-07-2024	Enrolment No: 92200133023


When I am connecting the devices on that time when I am clicking on switch to pc to connect the devices on that time it gives me many more port options so we can select any one of them once we have taken that port now we want to connect another devices for that we also need a port so that time we can not select same port we must have to select different port in fact it will not show us that port again.

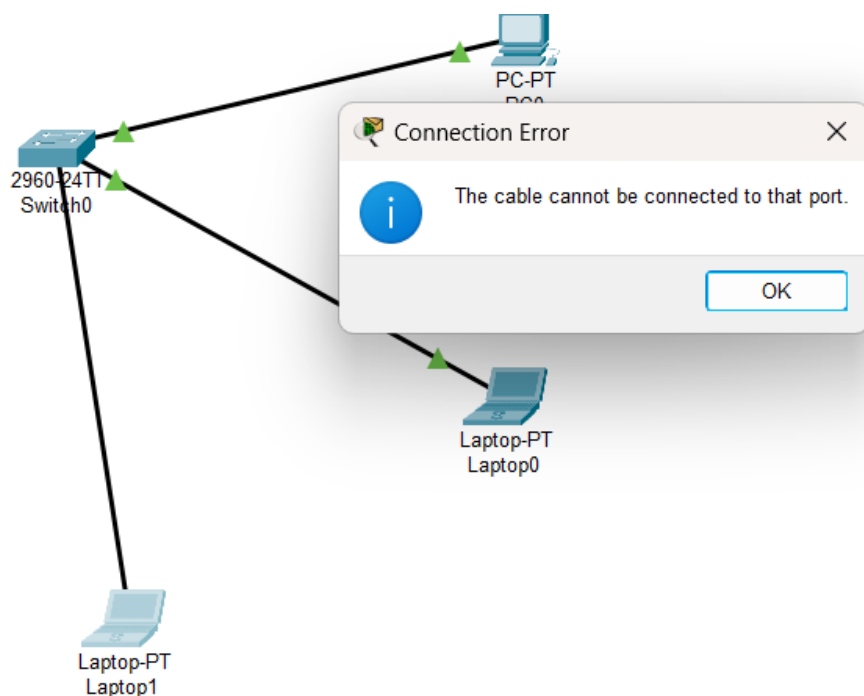


Now when I am clicking on particular devices to now more about this,

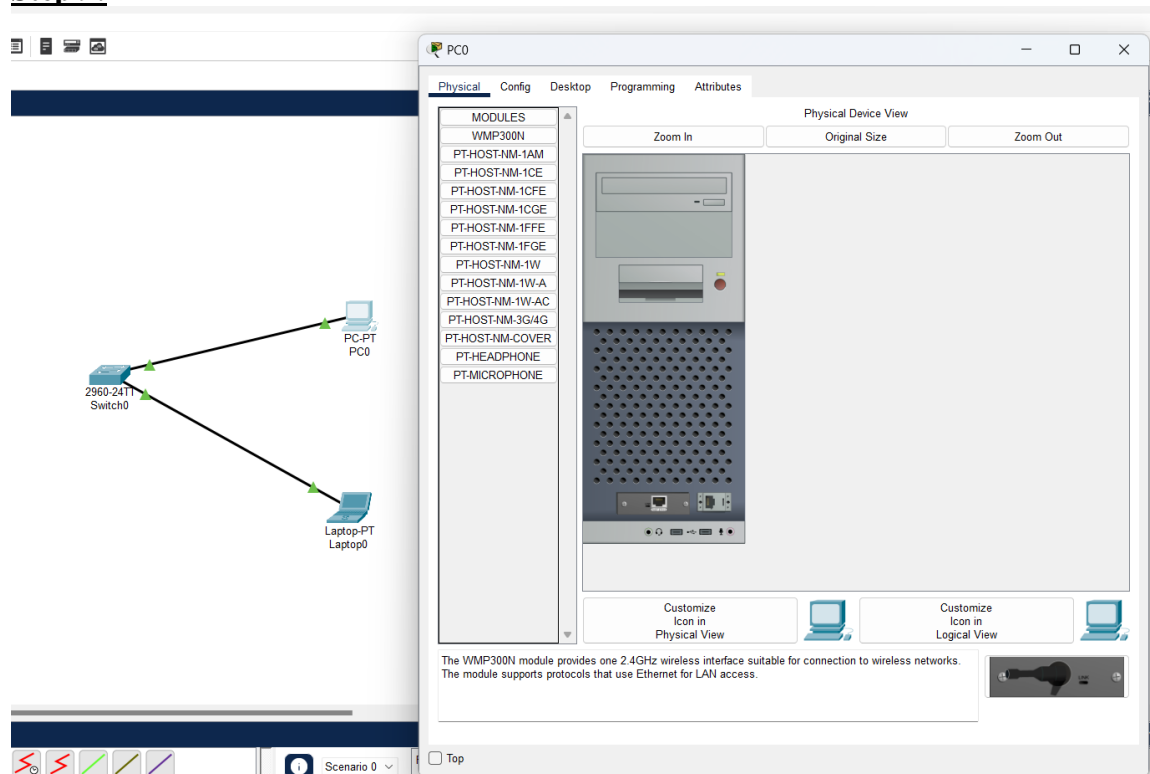
Step 8:


If we select wrong option it gives error.

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Experiment No: 01	Date: 18-07-2024	Enrolment No: 92200133023



Step 9:

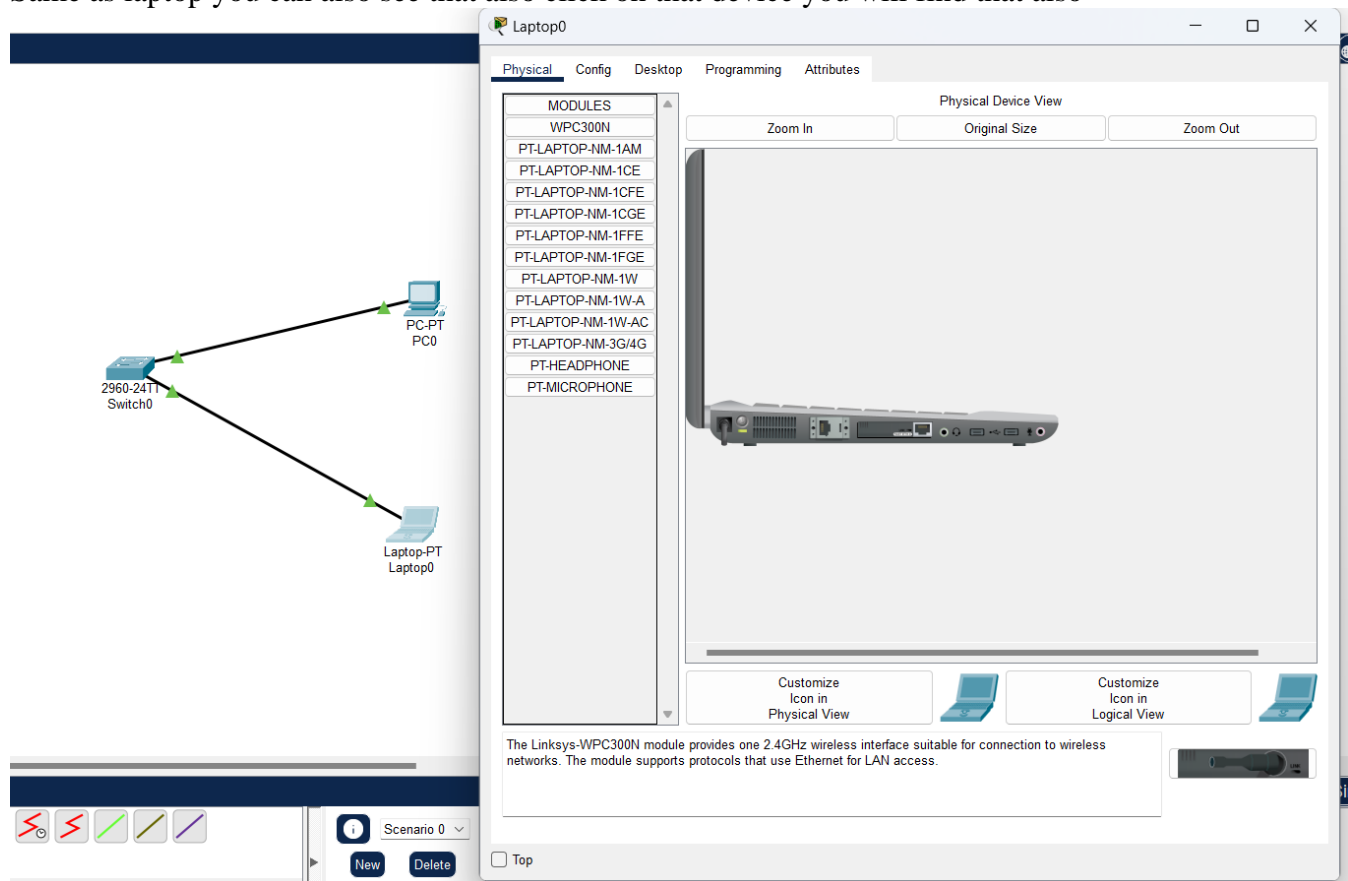


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Experiment No: 01	Date: 18-07-2024	Enrolment No: 92200133023

When I have click on PC device so I have got this you can see in the picture that actual /physical layout of the pc you will find

Step 10:

Same as laptop you can also see that also click on that device you will find that also



In this picture you will see the physical layout of the laptop.

Conclusion:

So in the conclusion I would say that from this experiment I get to know about Cisco packet tracer. How that simulator can work and which type of functionality this simulator have. I went through every components of simulator. Also I get to know about different types of wires, modules, switches, routers etc... which are use in commutation. and I learnt basic things about simulator means how to use everything In that.

Like

- How to use switch and how to connect them
- How to established connection between multiple devices



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Enrolment No: 92200133023

- How to choose right wire and which port I can choose and when
- How to use end devices
- How to delete any connection and how to see error



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