NETWORKING ASSIGNMENT

QUESTION: CREATE A NETWORK DESIGN WITH 2 NETWORKS (192.168.1.0/24) AND (192.168.2.0/24) EACH NETWORK SHOULD HAVE PCS AND CREATE A SWITCH FOR EACH NETWORK, CONNECT THE PCS TO THEIR RESPECTIVE SWITCHES AND ROUTER CONFIGURATION ?

ANSWER:

STEP -1 : OPEN THE CISCO PACKET TRACER,

NOW, WE HAVE TO USE 4 PCS FOR TWO DIFFERENT NETWORKS.

PC0, PC1, PC2, PC3.

NOW, WE NEED SWITCHES TO CONNECT THE NETWORKS.

I HAVE TAKEN THE 2960 MODEL FOR THE SWITCH.

SWITCH 0, SWITCH 1.

WE NEED ROUTER TO CONFIGURE THE NETWORKS.

I HAVE TAKEN 2911 ROUTER, SO THAT IT ATLEAST HAS THE 3 NETWORKING CONNECTIONS.

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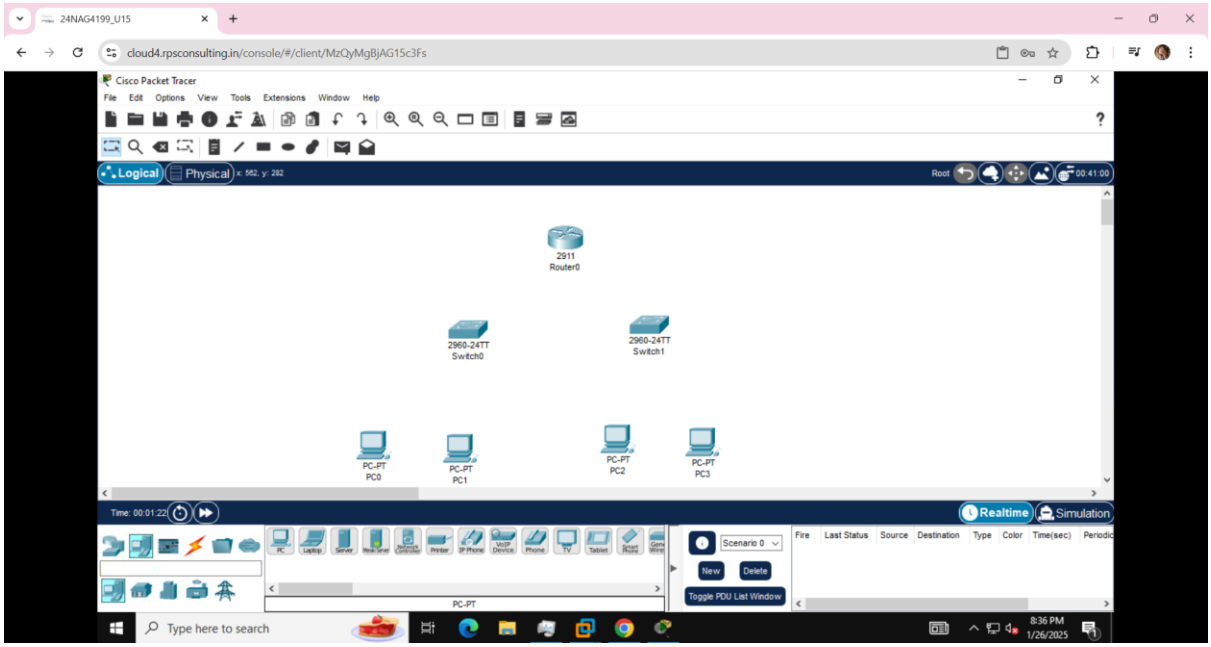
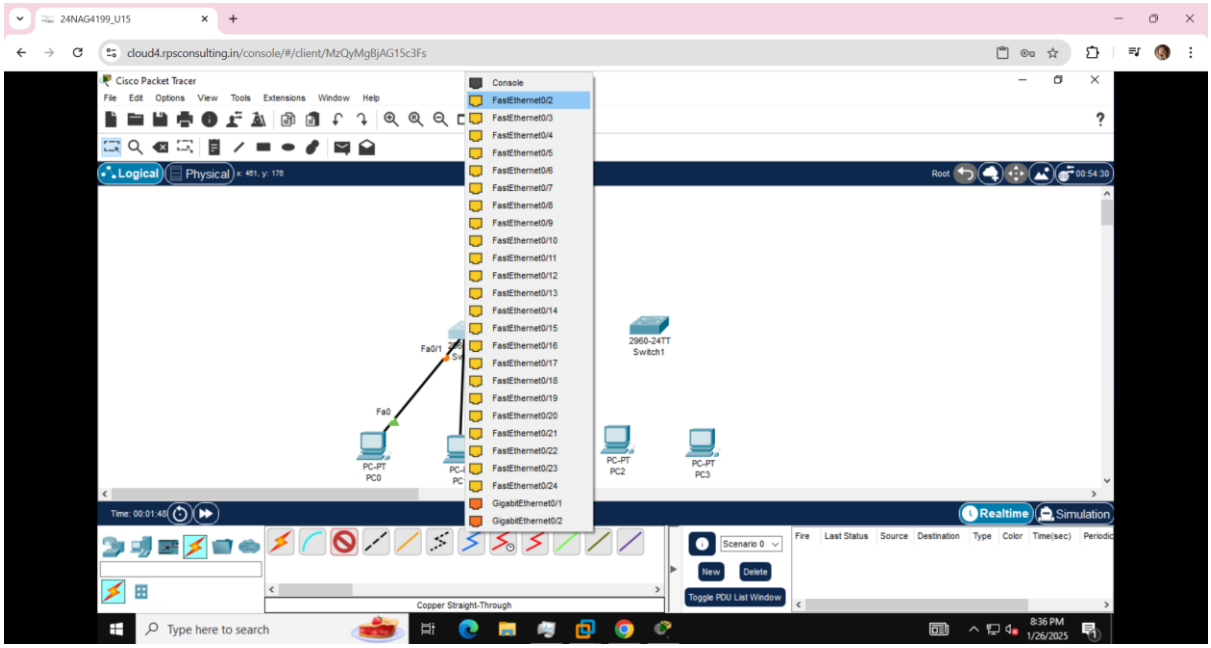


STEP -2: NOW, WE NEED TO CONNECT THE PCS TO THE SWITCHES BY USING STRAIGHT CABLES.

I CONNECT THE PC0 WITH F0/0 TO SWITCH F0/1,

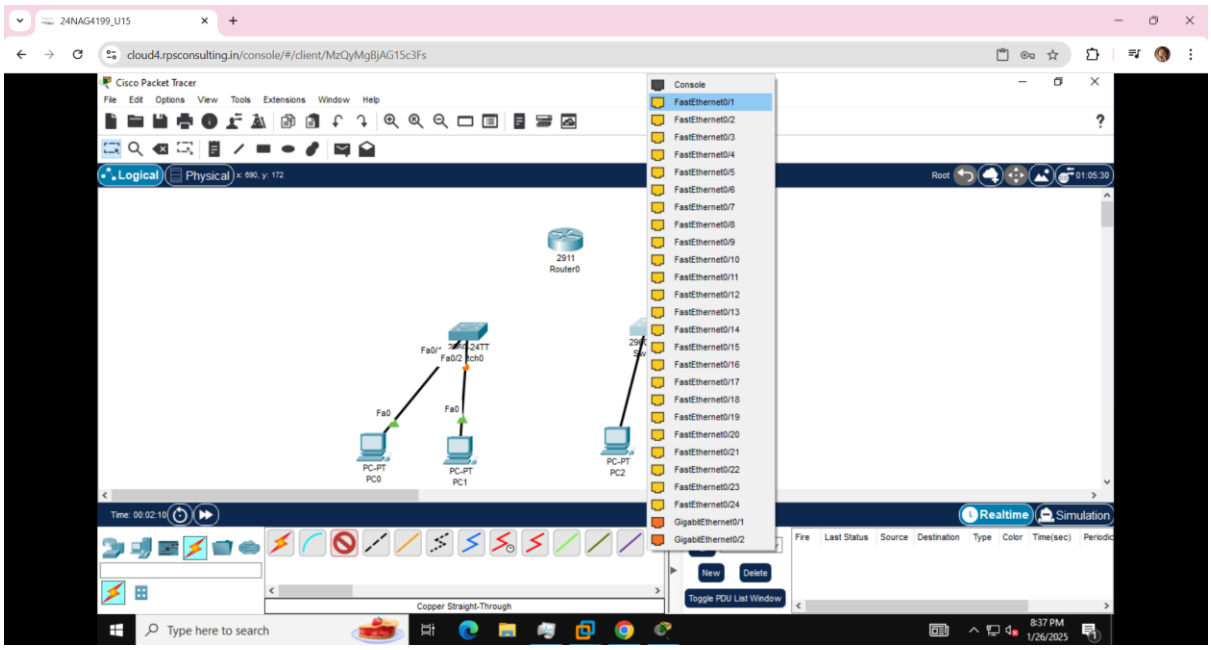
I CONNECT THE PC1 WITH F0/1 TO SWITCH F0/2.

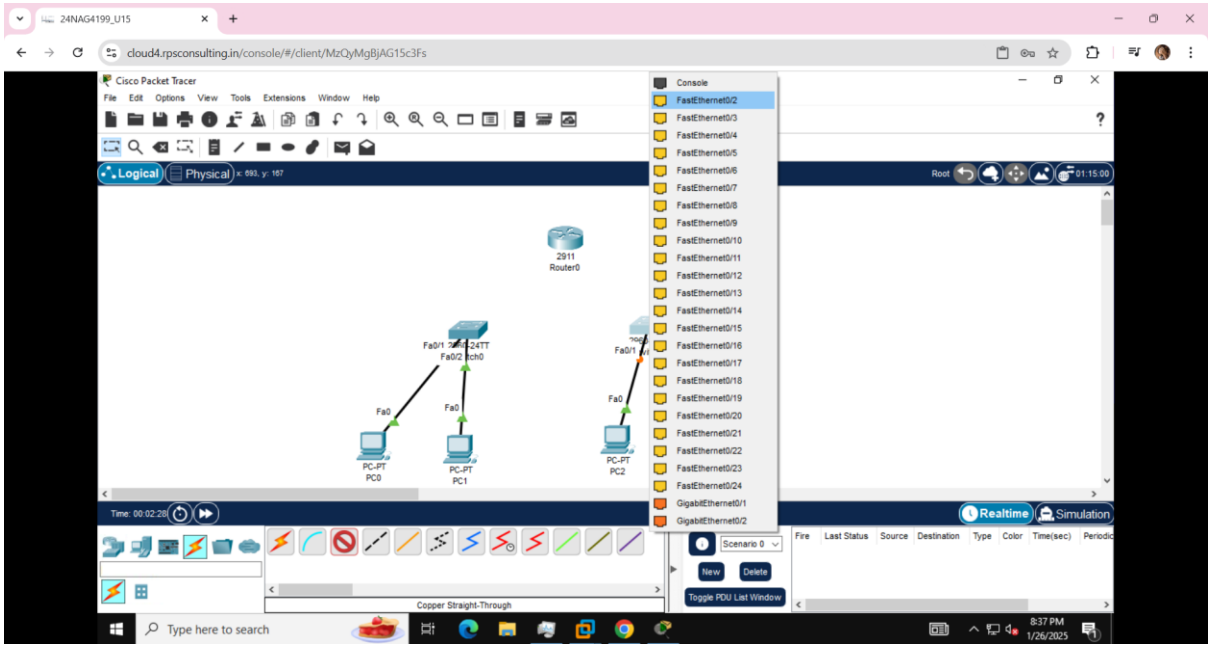


STEP -3: NOW, WE NEED TO CONNECT THE PC2 AND PC3 TO THE SWITCH1.

I CONNECT THE PC2 WITH F0/2 TO THE SWITCH F0/1,

I CONNECT THE PC2 WITH F0/2 TO THE SWITCH F0/2.





STEP -4: NOW, WE NEED TO CONNECT THE SWITCHES TO THE ROUTERS.

I CONNECT THE SWITCH0 WITH F0/3 TO THE ROUTER G0/1,

I CONNECT THE SWITCH0 WITH F0/3 TO THE ROUTER G0/2.

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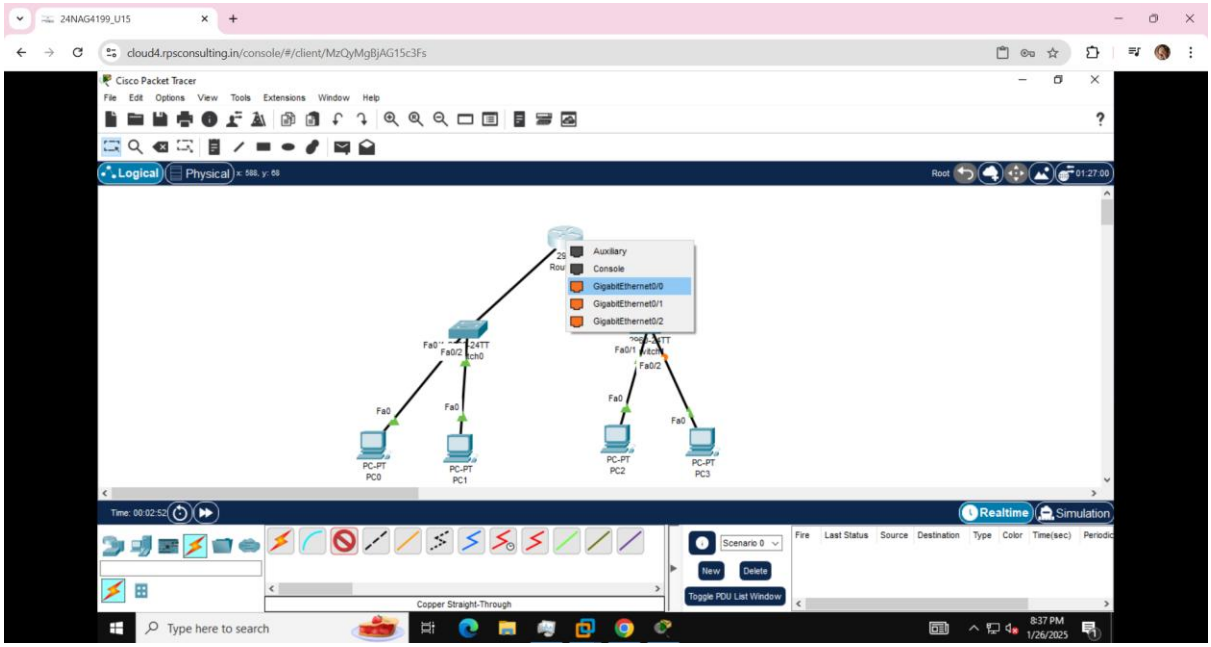

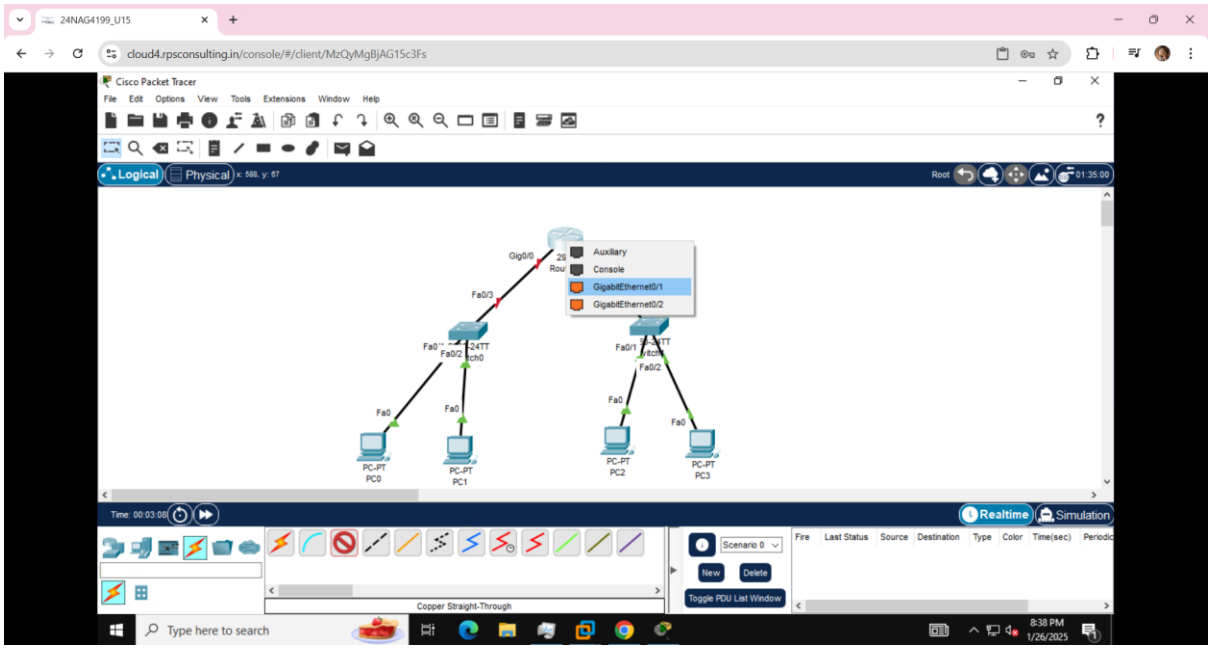

STEP -5: NOW, WE HAVE ASSIGN THE IP ADDRESSED TO THE PCS.

PC0 – 192.168.1.10,

PC1 – 192.168.1.11,

PC2 – 192.168.2.10,

PC3 – 192.168.2.11.

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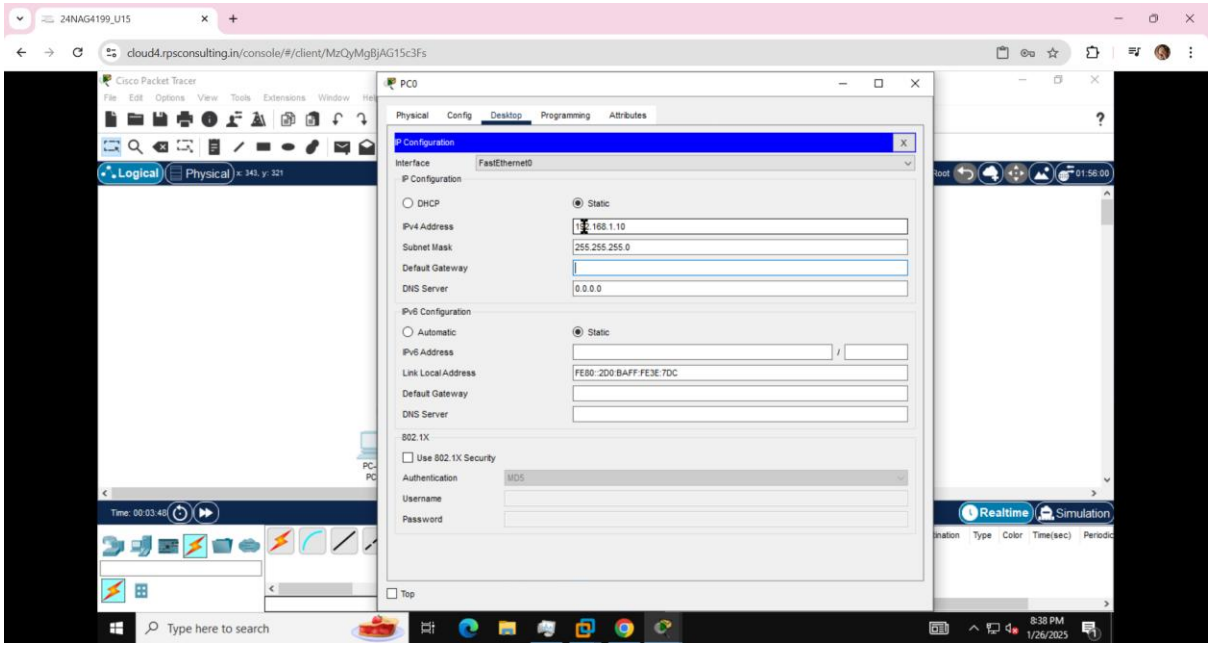
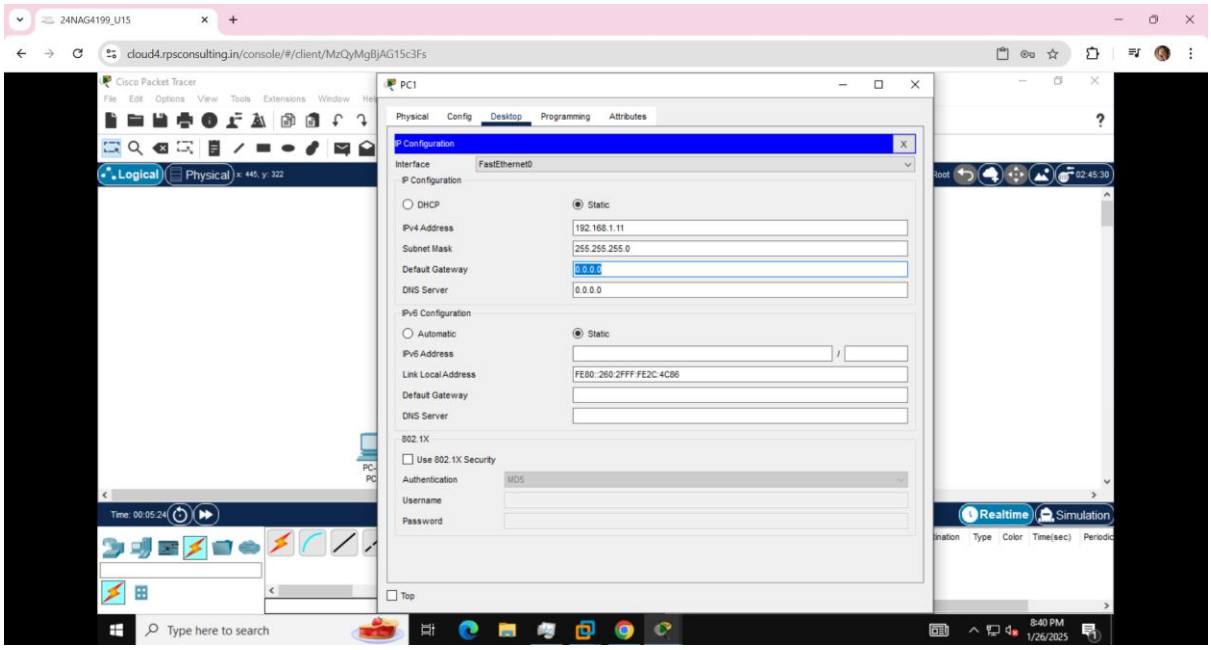


FOR PC0 AND PC1 THE DEFAULT GATEWAY IS 192.168.1.1,



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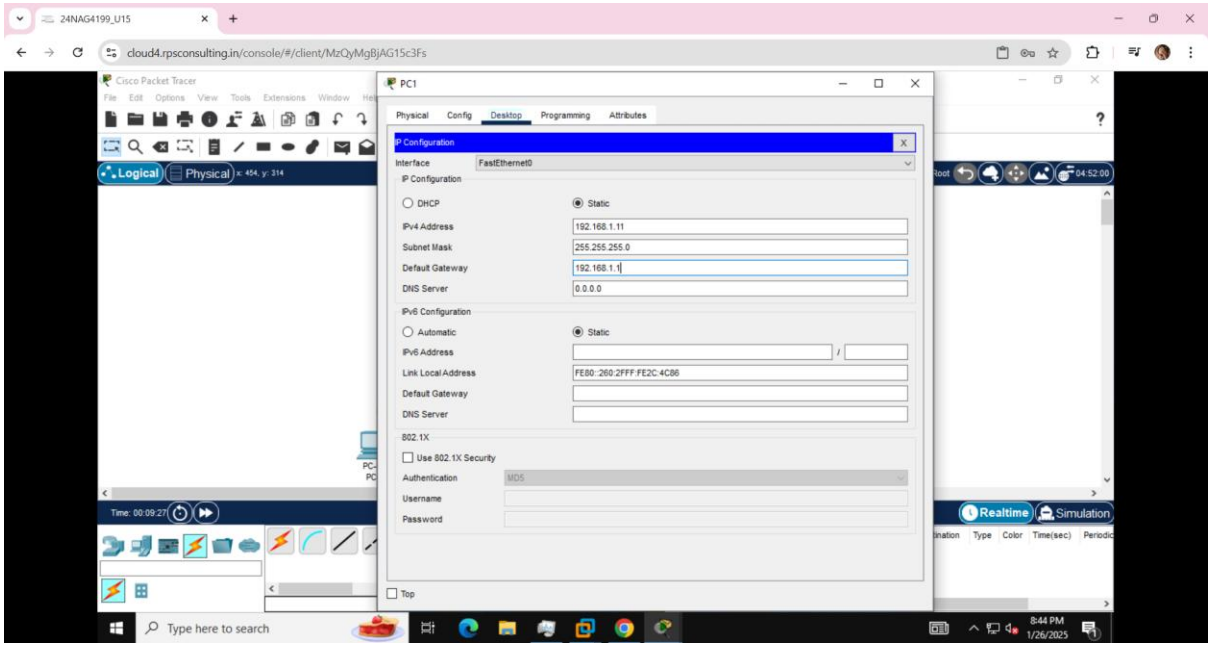
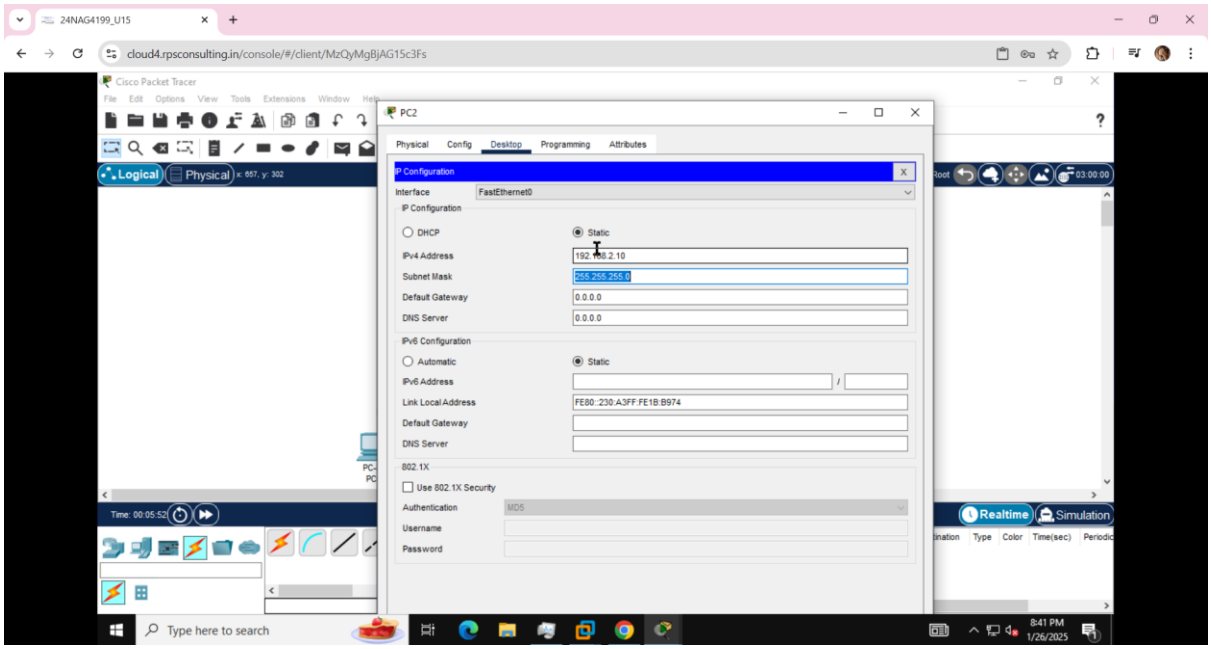
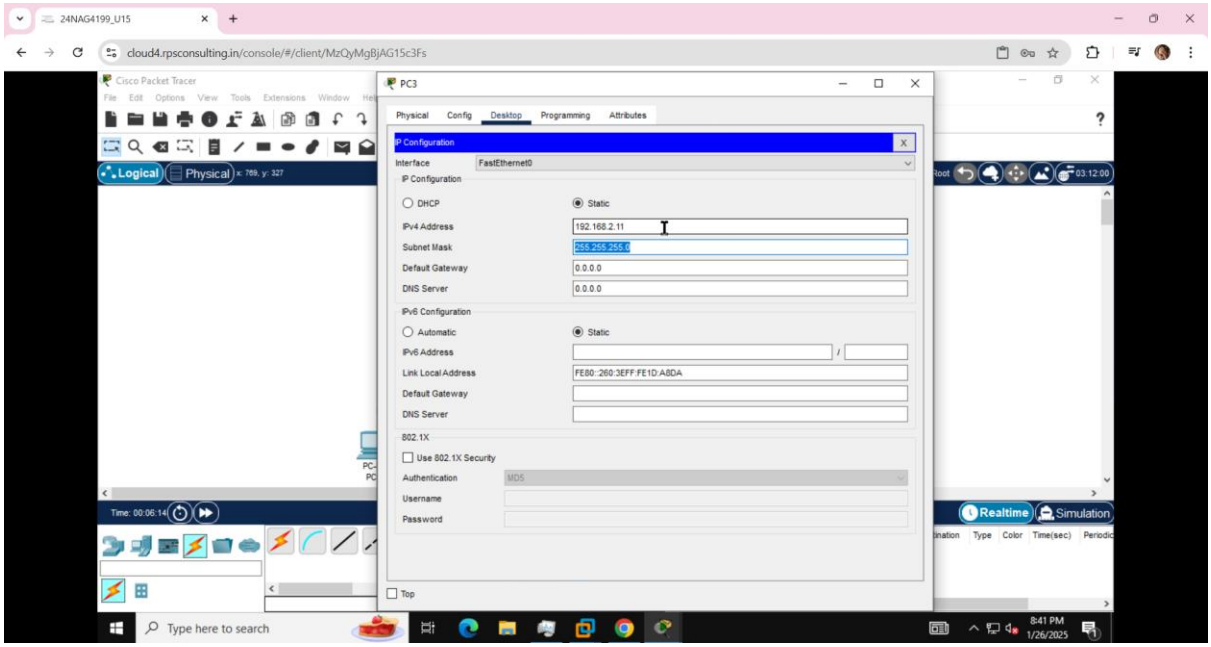
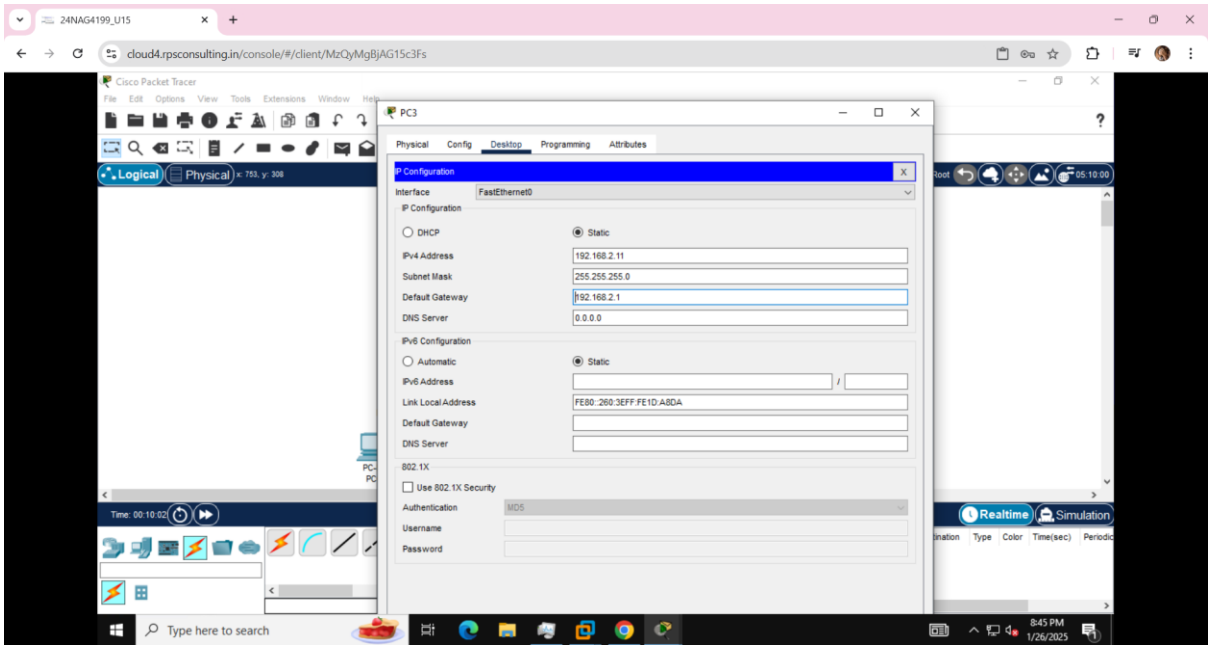






FOR PC1 AND PC2 THE DEFAULT GATEWAY IS 192.18.2.1.



STEP -6 : NOW, DOUBLE CLICK ON THE ROUTERO,

GO TO THE CLI AND GIVE THE ENABLE COMMAND,CONF T COMMAND.

INT G0/0 AND INT G0/1 NEED TO SET UP.

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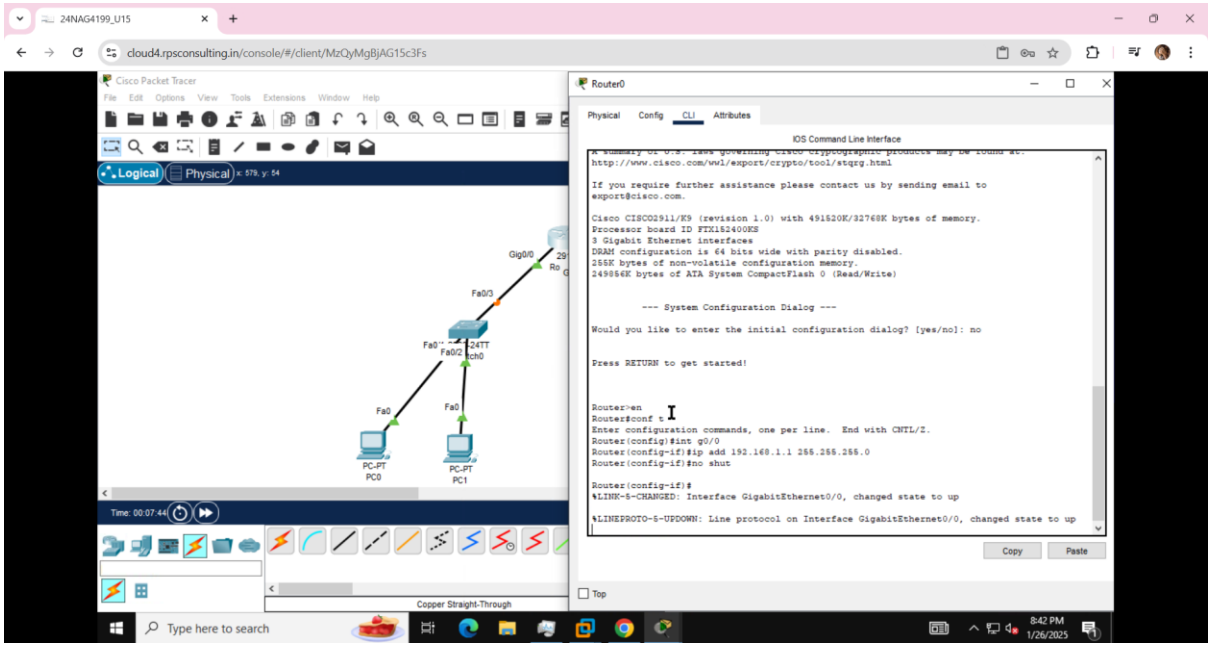

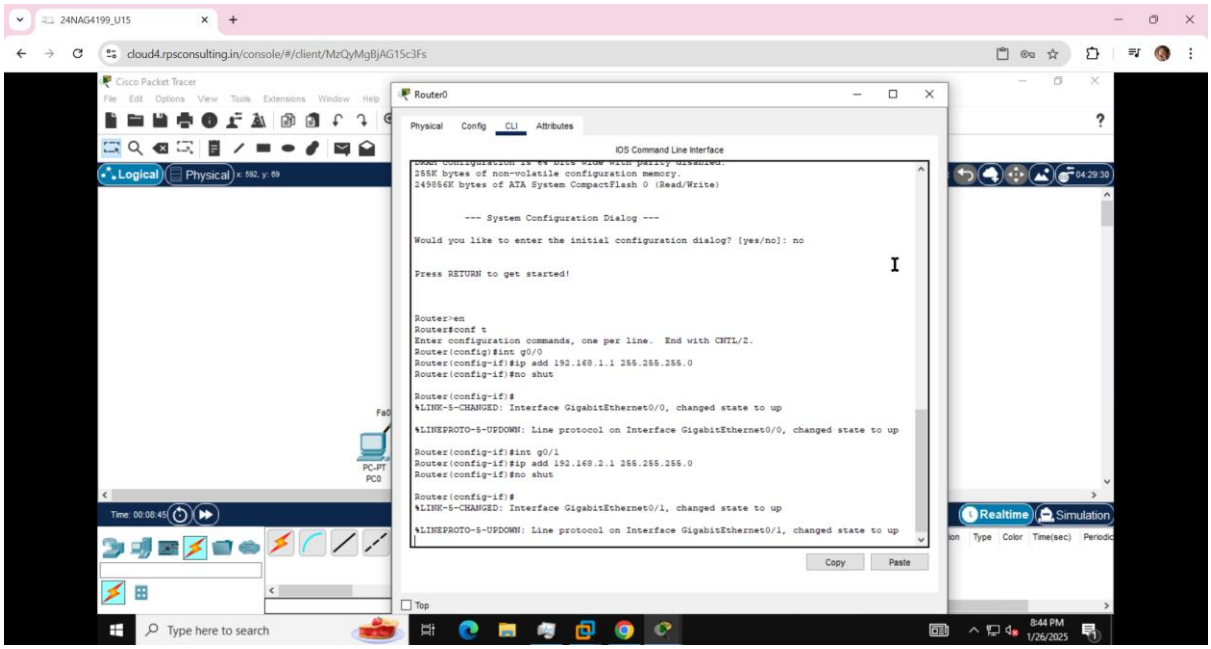

NOW, WE HAVE DONE ALL THE CONNECTIONS.

WE CAN SEE THAT EACH OF THE PCS ARE PINGING TO OTHER PCS.

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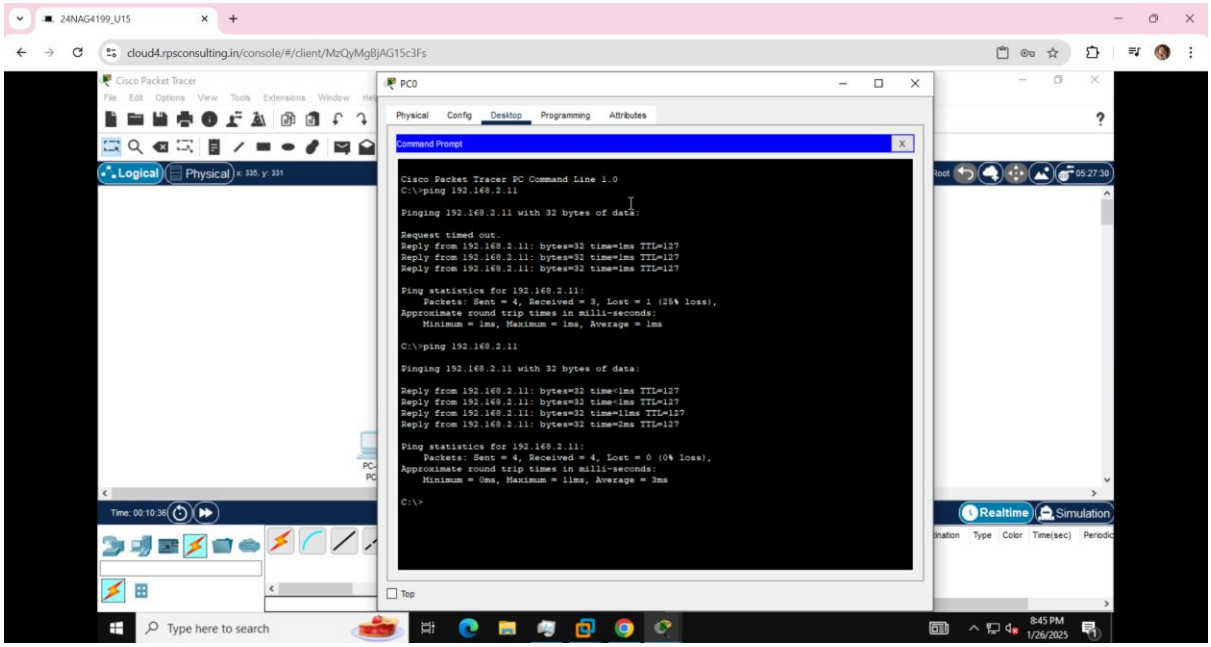

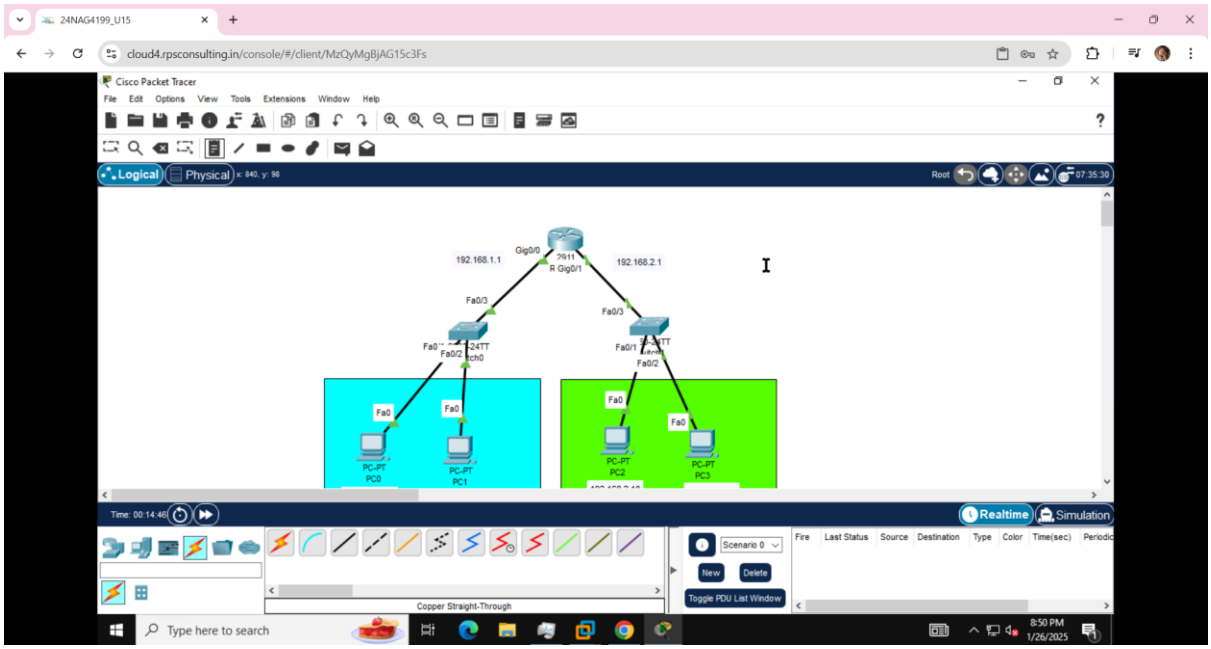

HENCE, PROVED.

*****************************THANK YOU***************************

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