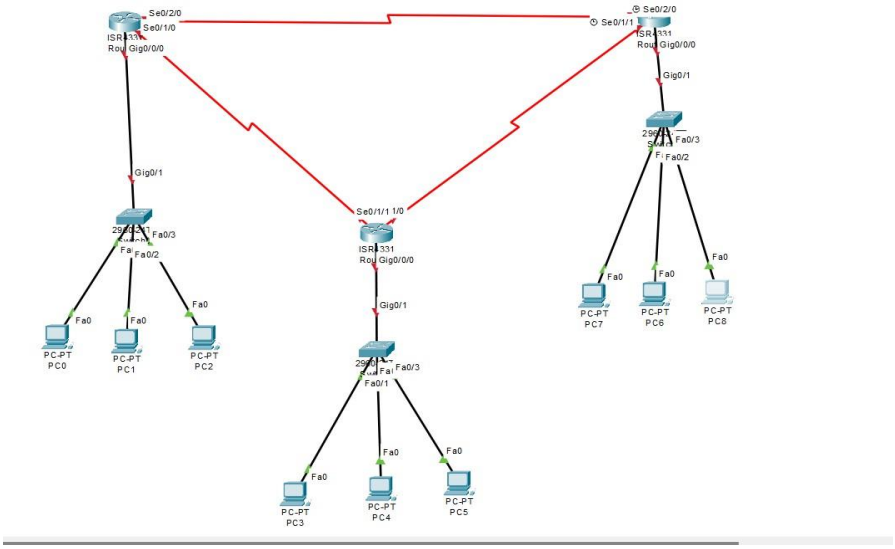
Marwadi University Marwadi Chandarana Group	**Marwadi University** **Faculty of Engineering and Technology** **Department of Information and Communication Technology**	
Subject: Computer Networks (01CT0503)	**Aim: Perform dynamic routing protocol (RIP) and analyze the results.**	
Experiment No: 06	**Date: 01-08-2024**	**Enrolment No: 92200133021**

Aim: Perform dynamic routing protocol (RIP) and analyze the results.

First, connect each pc to a switch. This lets the PCs communicate locally within their own network. Routers need to communicate using Serial Cables, but they don't support them directly. To fix this, we add a NIM-2T module to each router, which provides two serial ports for connecting the routers with serial cables.



Now write the commands in the CLI. Make sure to use no shut to enable each interface, making the port logically "up."

So in each router, go to the Config section, then select RIP to enable the Routing Information Protocol.

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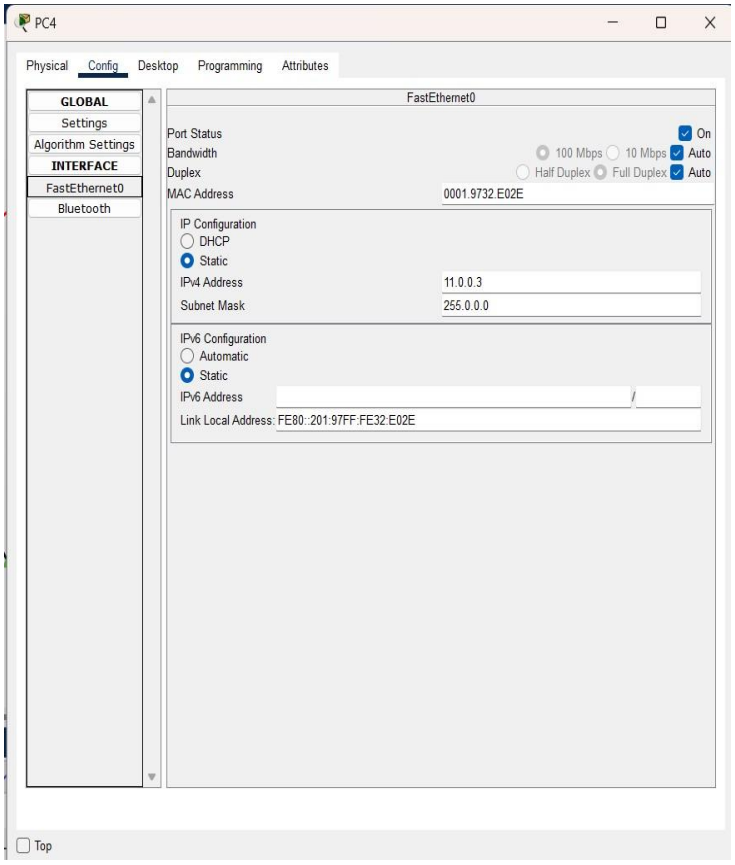

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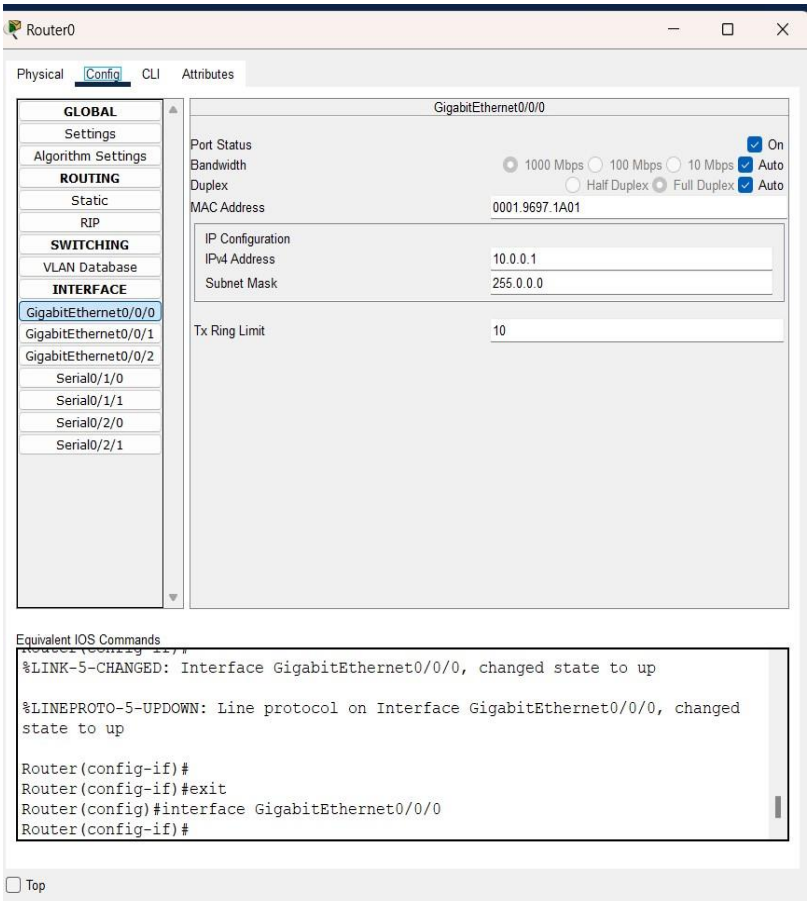

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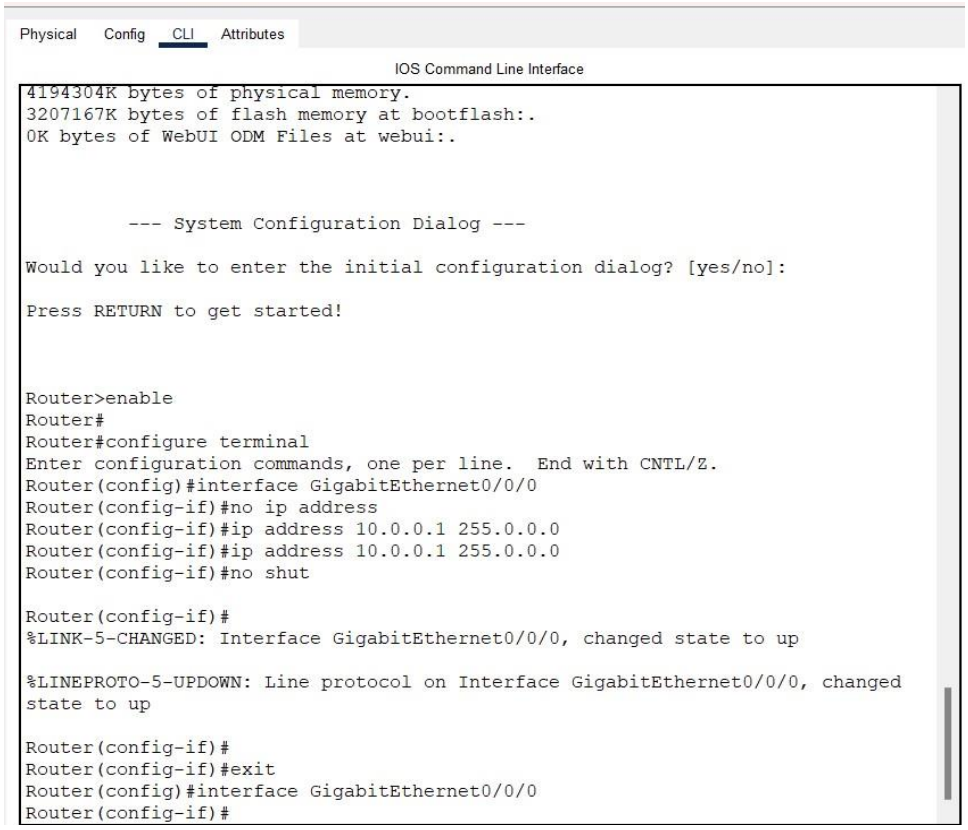

So after doing these now its time to add the networks that the router is directly connected to. For example, if Router 1 is connected to networks 10.0.0.0, 13.0.0.0, and 15.0.0.0, add each network by typing it into the field and clicking Add.

To confirm everything is connected, you can trace routes between devices. Open the Command Prompt on any PC and use the command.

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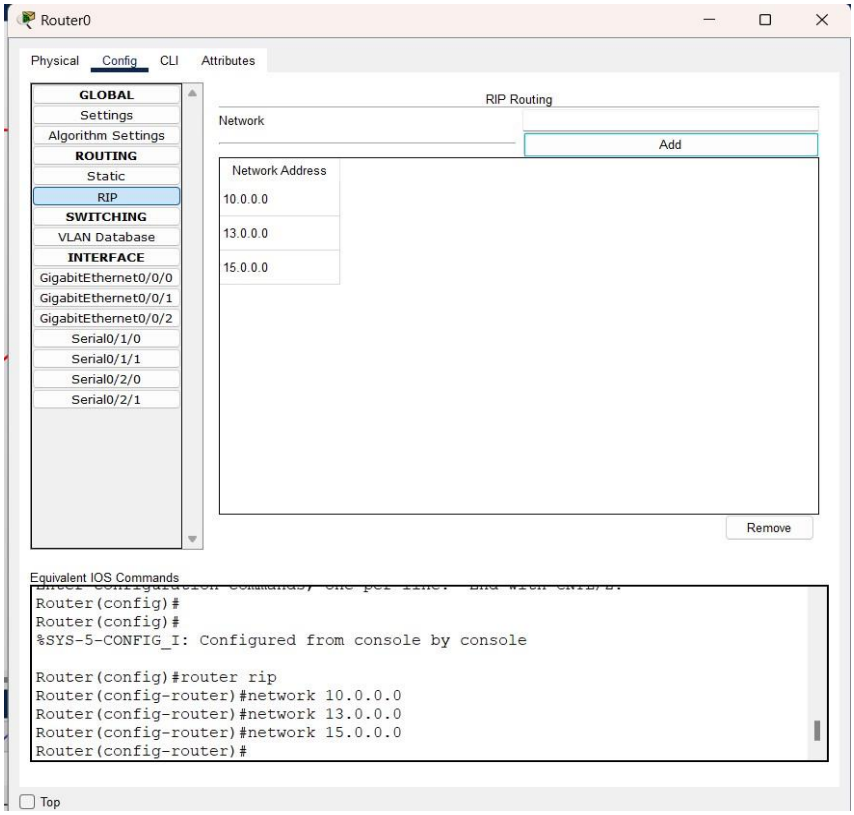

Now since everything is done lets check and trace the route to a device in the 12.0.0.0 network to confirm that routing is working correctly.

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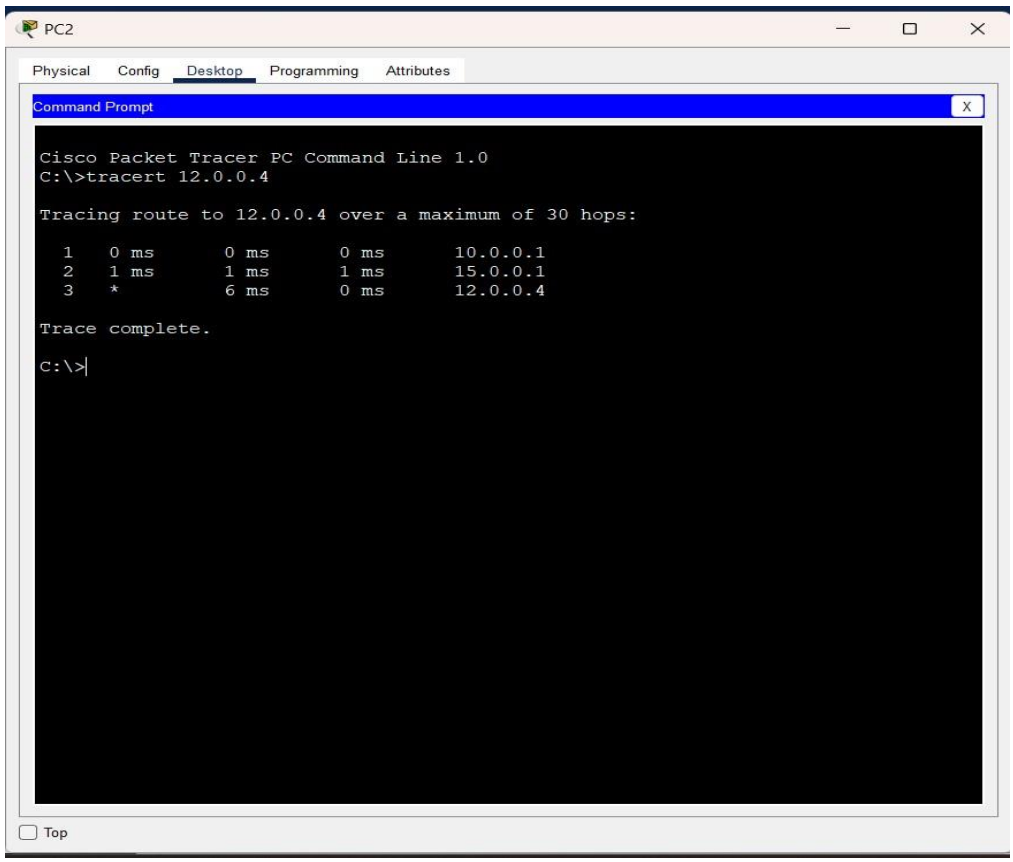

And RIP has given us the route to that device.

Conclusion: This RIP experiment demonstrated basic dynamic routing, enabling successful connectivity between network segments. RIP allows routers to automatically learn and share routes without complex setup. Using serial cables with routers requires adding compatible modules (like NIM-2T) to support the connection type.