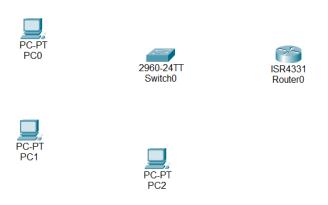
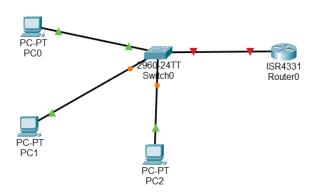
Marwadi University Marwadi Chandarana Group	Marwadi University Faculty of Engineering and Technol Department of Information and C	
Subject: Computer Networks (01CT0503)	Aim: Configure the router to secure the port and Telnet from unauthorized users. Analyze enable secret and password login commands in detail.	
Experiment No: 04	Date: 14-08-2023	Enrolment No: 92200133021

Aim: Configure the router to secure the port and Telnet from unauthorized users. Analyze enable secret and password login commands in detail.

Step-1: Take PC , Switch and Router.



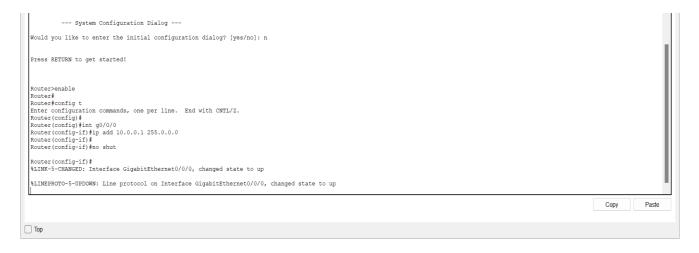
Step-2: Connect all the PCs to the switch and switch to the Router via cable.



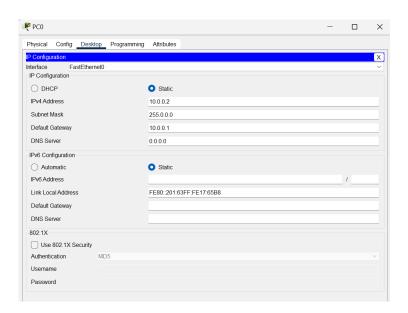
Marwadi University Marwadi Chandarana Group	Marwadi University Faculty of Engineering and Technol Department of Information and C	
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Experiment No. 04	Date: 14-08-2025	Em onnent No. 92200153021

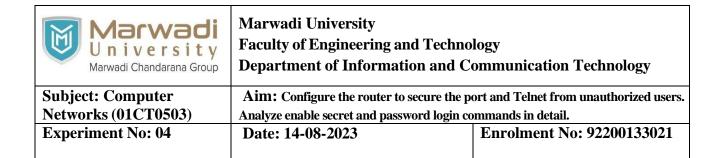
Step – 3: Give the IP add to the router.

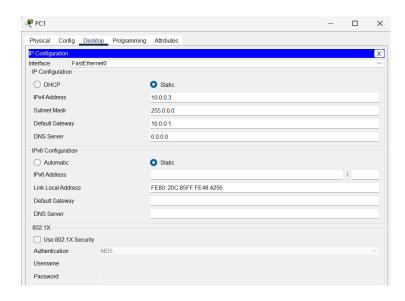
Use the command ip addr add <IP_address>/<subnet_mask> dev <interface_name> to assign an IP address to a router's network interface.

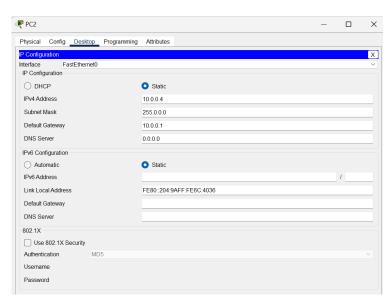


Step – 4: Give the IP address to all PCs.



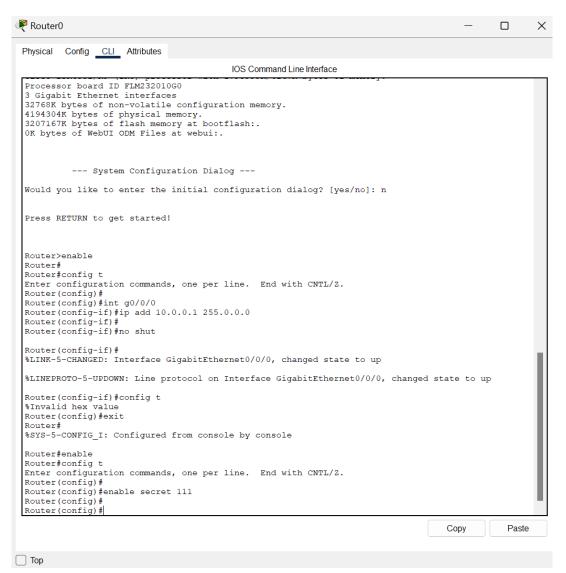






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Step-5: Set the permissions or visibility of the command to restrict access for this use enable secret command



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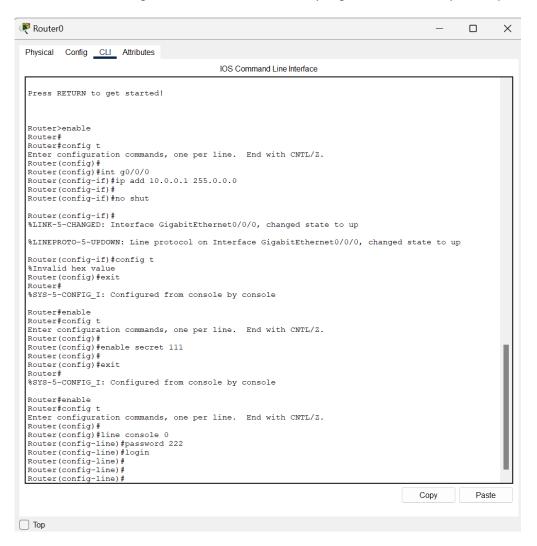
Step-6: Now we give the another command to set the password

line console 0

Password < password>

login

It don't able to go at the user mode also if we try to go it will immediately ask for password



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```
Step-7: To make virtual line control give following command line vty 0 4
```

Password <password>

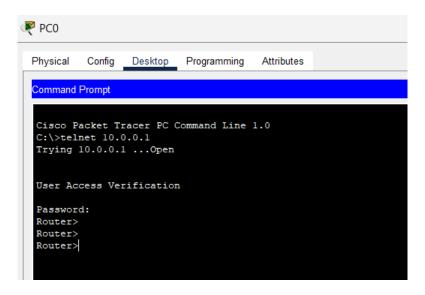
Login

By giving this up to 5 user can control the device virtually

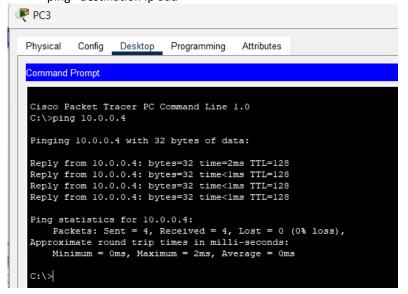
```
Router#enable
Router#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router (config) #
Router(config) #line console 0
Router(config-line) #password 222
Router (config-line) #login
Router(config-line)#
Router(config-line)#
Router(config-line) #exit
Router (config) #exit
Router#
%SYS-5-CONFIG I: Configured from console by console
Router#telnet
Host: vidya
Translating "vidya"...domain server (255.255.255.255)
% Unknown command or computer name, or unable to find computer address
Router#enable
Router#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #line vty 0 4
Router(config-line) #password 333
Router (config-line) #login
Router(config-line)#
Router(config-line) #exit
Router (config) #
Router (config) #
```

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Step-8: For checking the telnet protocol use following command telnet <destination Ip add>



Step-9: Now after this we check for the connectivity between divices For this we use following command ping <destination Ip add>



<u>Conclusion:</u> In this experiment, we configuring the router with the enable secret command secures privileged (administrator) access by using an encrypted password, while the password login command protects remote access, such as Telnet, by requiring users to enter a password before they can interact with the router. These measures help prevent unauthorized access and enhance overall router security.

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