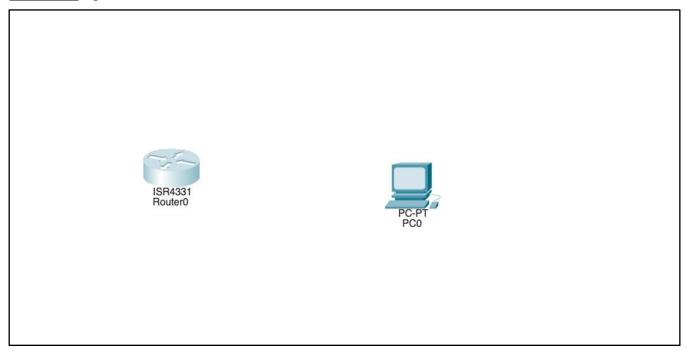
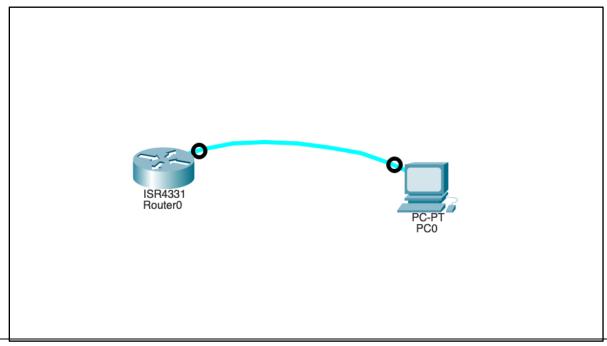
Marwadi University Marwadi Chandarana Group	Marwadi University Faculty of Engineering and T Department of Information a	echnology and Communication Technology
Subject: Computer Networks (01CT0503)	Aim: Configure the router to secure the port and Telnet from unauthorized users. Analyze enable secret and password login commands in detail.	
Experiment No: 04	Date: 30-07-2025	Enrolment No: 92301733054

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

<u>Step -1:</u> Open Cisco Packet tracer and take one PC and Router.

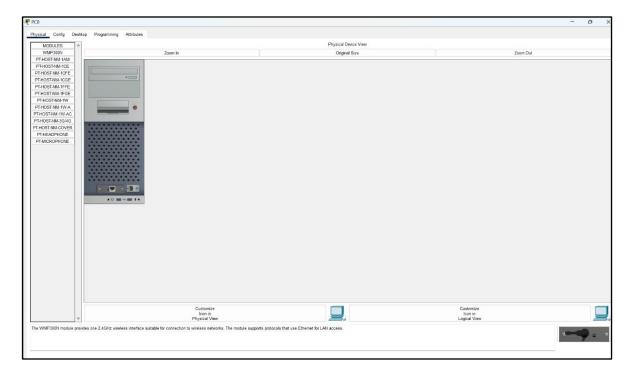


 $\underline{Step-2:}$ Connect a Console Cable between the console port of router and the RS232 port.

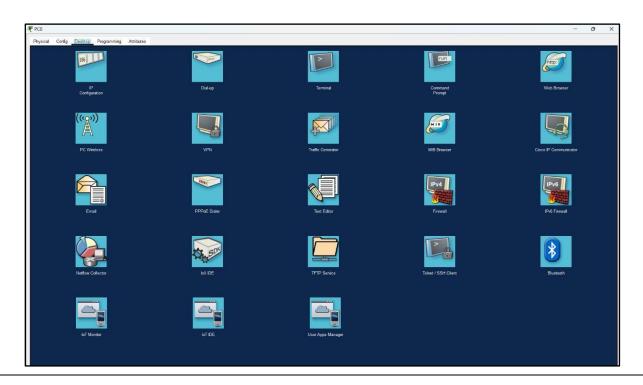


Marwadi University Marwadi Chandarana Group	Marwadi University Faculty of Engineering and Techno Department of Information and C	e .
Subject: Computer Networks (01CT0503) Experiment No: 02	Aim: Perform basic CLI commands to configure switch and router. Date: 30-07-2025 Enrolment No: 92301733054	

<u>Step -3:</u> Now Click on the PC and you will get all the information about PC.

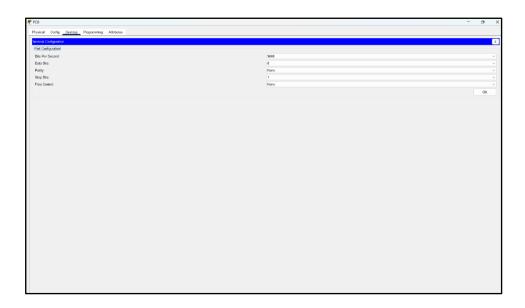


<u>Step -4:</u> Now Click on the Desktop and you will get this kind of interface.



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Subject: Computer Networks (01CT0503) Experiment No: 02	Aim: Perform basic CLI commands to configure switch and router. Date: 30-07-2025 Enrolment No: 92301733054	

<u>Step -5:</u> Now Click on the terminal and you will get this kind of interface.

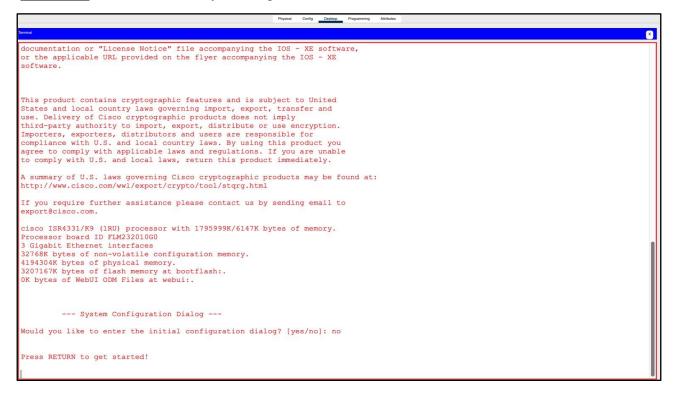


<u>Step – 6:-</u> Now Hit OK and you will get this kind of interface.

```
Calculating SHA-1 hash...Validate package: SHA-1 hash:
calculated 444F4D02:44C58887:D9C8942B:C557D3CF:2A14247E
           expected 444F4D02:44C58887:D9C8942B:C557D3CF:2A14247E
RSA Signed RELEASE Image Signature Verification Successful.
Image validated
                   Restricted Rights Legend
Use, duplication, or disclosure by the Government is subject to restrictions as set forth in subparagraph
(c) of the Commercial Computer Software - Restricted Rights clause at FAR sec. 52.227-19 and subparagraph
    (1) (ii) of the Rights in Technical Data and Computer
Software clause at DFARS sec. 252.227-7013.
               cisco Systems, Inc.
170 West Tasman Drive
               San Jose, California 95134-1706
Cisco IOS Software[Everest], ISR Software(X86_64_LINUX_IOSD - UNIVERSALK9 - M), Version 16.6.4, RELEASE SOFTWARE(fc3)
Technical Support : http://www.cisco.com/techsupport
Copyright(c) 1986 - 2018 by Cisco Systems, Inc.
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Cisco IOS - XE software, Copyright(c) 2005 - 2018 by cisco Systems, Inc.
All rights reserved.Certain components of Cisco IOS - XE software are
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with ABSOLUTELY NO WARRANTY. You can redistribute and / or modify such GPL code under the terms of GPL Version 2.0. For more details, see the documentation or "License Notice" file accompanying the IOS - XE software,
or the applicable URL provided on the flyer accompanying the IOS - XE
software.
```

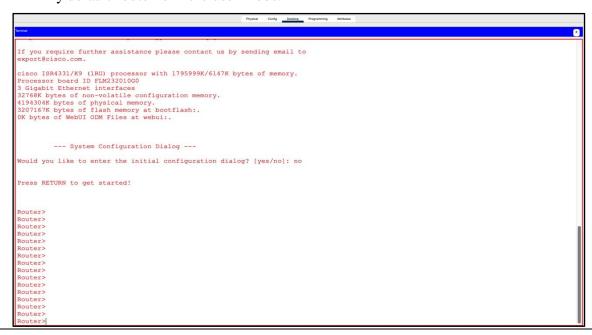
Marwadi University Marwadi Chandarana Group	Marwadi University Faculty of Engineering and Techno Department of Information and C	
Subject: Computer Networks (01CT0503) Experiment No: 02	Aim: Perform basic CLI commands to configure switch and router. Date: 30-07-2025 Enrolment No: 92301733054	

<u>Step -7:</u> Now Hit OK and you will get this kind of interface.



<u>Step -8:-</u> Here we are getting CLI for configuring the router. Routers have 3 modes of userMode

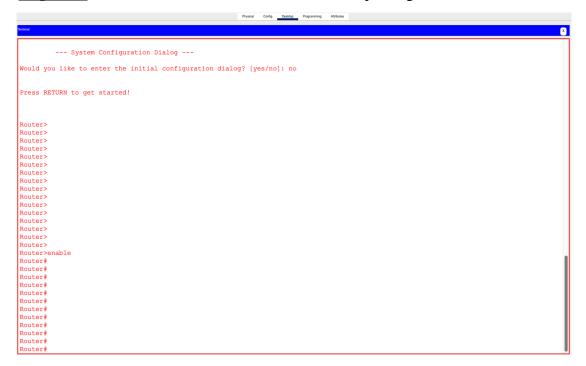
> By default router is in the user mode.





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Subject: Computer Networks (01CT0503) Experiment No: 02	Aim: Perform basic CLI commands to configure switch and router. Date: 30-07-2025 Enrolment No: 92301733054	

<u>Step -9:</u> Enter the command "enable" to enter into privilege mode.



<u>Step – 10 :-</u> Enter the command "config t" to enter into configuration mode

```
outer>
 touter>
 louter>
Router>
Router>
 douter>
Router>enable
Router#
Router#
Router#
 touter#
 louter#
Router#
Router#
Router#
 touter#
Router# Router Config terminal Enter configuration commands, one per line. End with CNTL/Z. Router(config)# Router(config)#
 touter(config)#
 touter (config) #
 Nouter (config) #
 touter(config)#
touter(config)#
 touter (config) #
 touter (config) #
touter (config) #
touter (config) #
```

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Subject: Computer Networks (01CT0503) Experiment No: 02	Aim: Perform basic CLI commands to configure switch and router. Date: 30-07-2025 Enrolment No: 92301733054	

<u>Step – 11:-</u>To return to user mode, type exit twice from global configuration. Then set the privileged mode password using the enable secret <password> command in config mode.

```
http://www.cisco.com/wwl/export/crypto/tool/stqrg.html

If you require further assistance please contact us by sending email to export@cisco.com.

cisco ISR4331/K9 (1RU) processor with 1795999K/6147K bytes of memory.

Processor board ID FIM23201000
3 Cigabit Ethernet interfaces
3 Cigabit Ethernet interfaces
3 201367K bytes of physical memory.
3194304K bytes of physical memory.
3207167K bytes of flash memory at bootflash:

OK bytes of WebUI ODM Files at webui:.

--- System Configuration Dialog ---

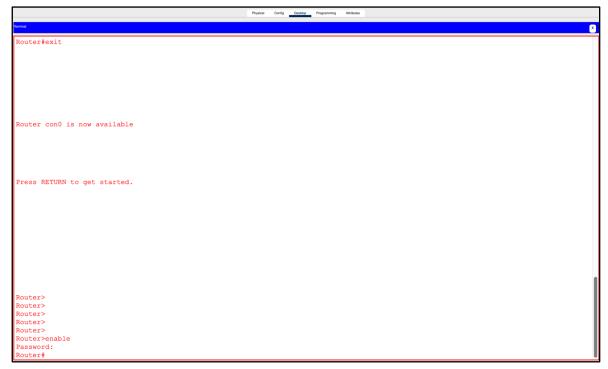
Would you like to enter the initial configuration dialog? [yes/no]: no

Press RETURN to get started!

Router/eonfig terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) # Router(config)
```

<u>Step – 12:-</u>Type exit twice to return from global configuration mode to user mode. Then type enable enter privileged mode — it will prompt for the password you set with enable secret.

to



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Subject: Computer Networks (01CT0503) Experiment No: 02	Aim: Perform basic CLI commands to configure switch and router. Date: 30-07-2025 Enrolment No: 92301733054	

<u>Step -13:-</u> Use the command copy running-config startup-config to save the password and all configurations permanently.



Step -14: To configure a login password for console access, enter global configuration mode, use the command line console 0, followed by password password and login to enable password authentication.

```
Router>
Router |
Rout
```

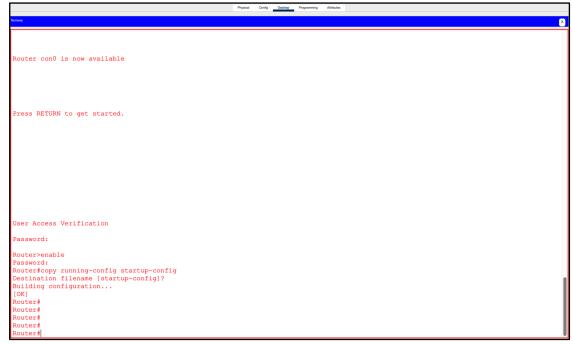
Marwadi University Marwadi Chandarana Group	Marwadi University Faculty of Engineering and Techno Department of Information and C	
Subject: Computer Networks (01CT0503) Experiment No: 02	Aim: Perform basic CLI commands to configure switch and router. Date: 30-07-2025 Enrolment No: 92301733054	

<u>Step – 14:-</u> To return from configuration mode to user EXEC mode and apply the password, use exit command twice in CLI.

the



<u>Step – 15:-</u> To save all current configurations, use the CLI command copy running-config startup-config to copy the running configuration to the startup configuration.



Conclusion	
Conclusion:	