

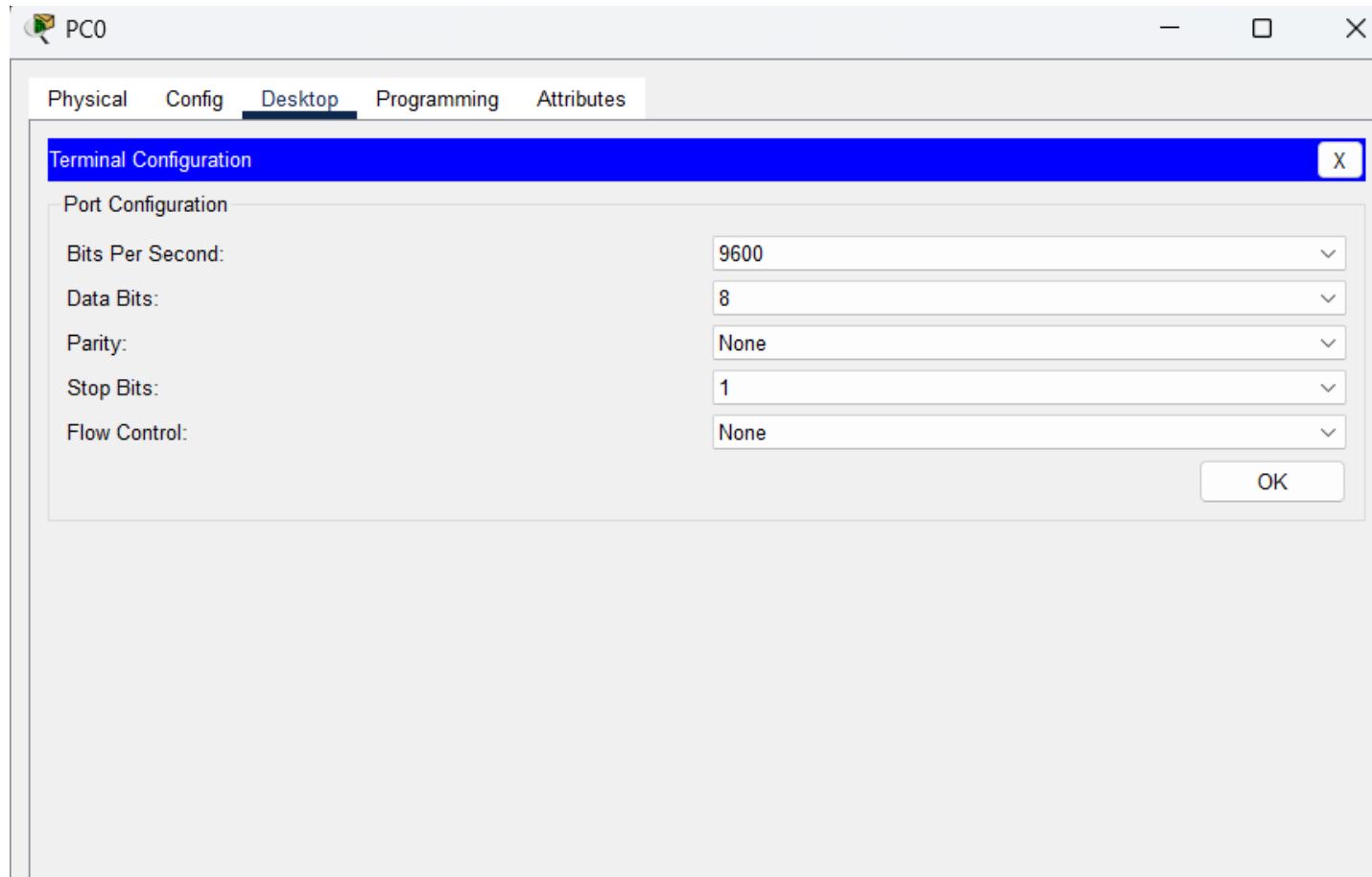
 Marwadi University <small>Marwadi Chandarana Group</small>	Marwadi University Faculty of Engineering and Technology Department of Information and Communication Technology	
Subject: Computer Networks (01CT0503)	Aim: Perform basic CLI commands to configure switch and router.	
Experiment No: 02	Date:	Enrolment No: 92301733041

Aim: Perform basic CLI commands to configure switch and router.

Step 1 : make physical connection between hardware



Step 2 : click the pc and go to the desktop and click the terminal and config the terminal first or set is as default



Step 3: hit the enter and terminal will be open or either direct CLI option form router itself can also open terminal for performing CLI commands



Subject: Computer Networks (01CT0503)

Aim: Perform basic CLI commands to configure switch and router.

Experiment No: 02

Date:

Enrolment No: 92301733041

The screenshot shows a terminal window titled "Terminal". The window has a blue header bar with tabs for "Physical", "Config", "Desktop", "Programming", and "Attributes", with "Desktop" being the active tab. The main area of the terminal is black, and the text is white. It displays the following text:

```
Press RETURN to get started.  
  
MJ>  
  
MJ con0 is now available  
  
Press RETURN to get started.
```

At the bottom left of the terminal window, there is a small checkbox labeled "Top".

Step 4 : firstly we will in user mode ,perform some CLI commands to enter in diff mode , to go in privilege mode type “enable” or from that if want to enter in config mode then type “config t” and want to come back then “exit”



Marwadi University
Faculty of Engineering and Technology
Department of Information and Communication Technology

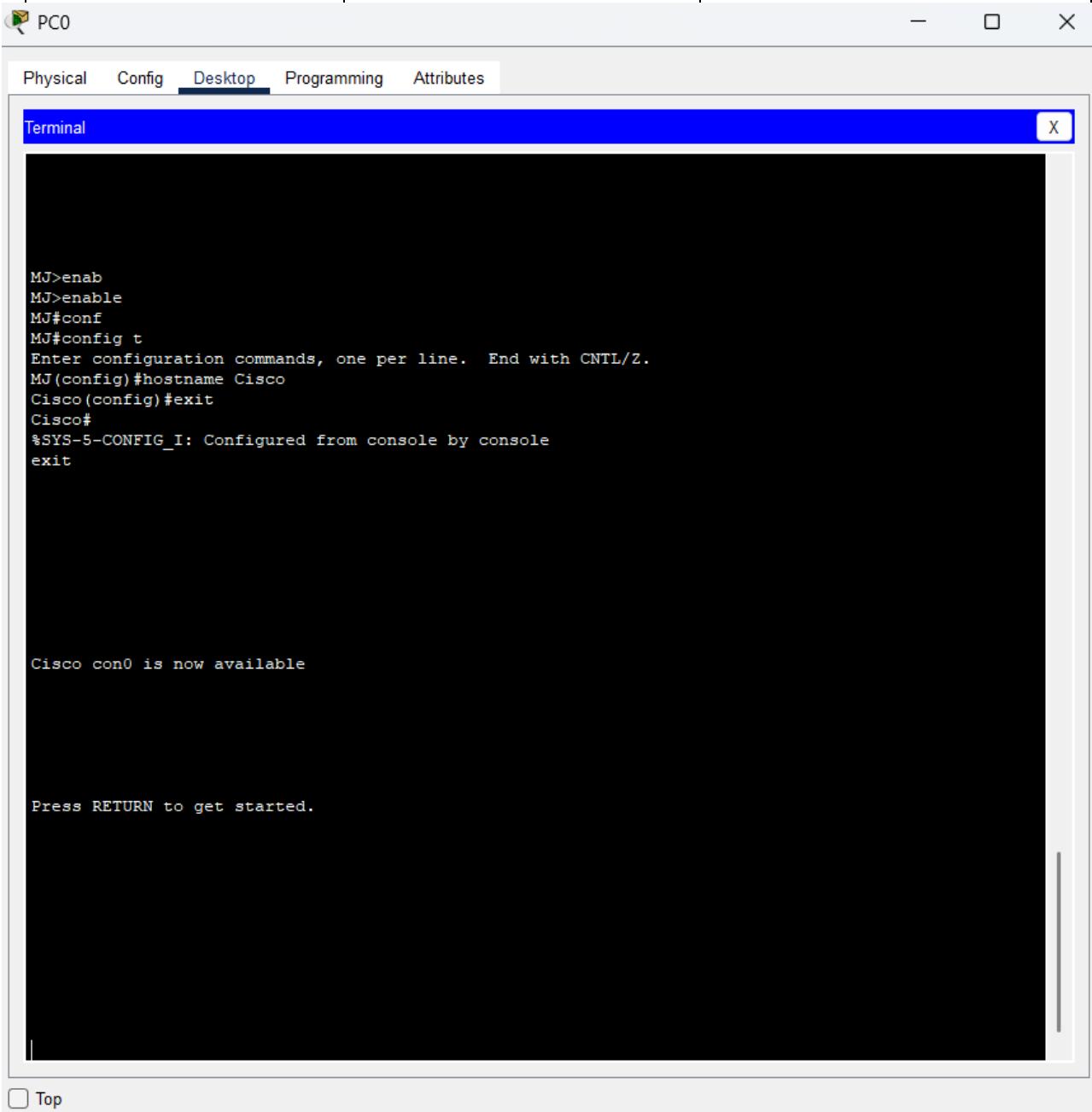
Subject: Computer Networks (01CT0503)

Aim: Perform basic CLI commands to configure switch and router.

Experiment No: 02

Date:

Enrolment No: 92301733041



The screenshot shows a terminal window titled "Terminal". The window has tabs at the top: Physical, Config, Desktop, Programming, and Attributes. The "Config" tab is selected. The terminal output is as follows:

```
MJ>enab
MJ>enable
MJ#conf
MJ#config t
Enter configuration commands, one per line. End with CNTL/Z.
MJ(config)#hostname Cisco
Cisco(config)#exit
Cisco#
%SYS-5-CONFIG_I: Configured from console by console
exit

Cisco con0 is now available

Press RETURN to get started.
```

[Top](#)

Step 6:perform some CLI commands



Subject: Computer Networks (01CT0503)

Aim: Perform basic CLI commands to configure switch and router.

Experiment No: 02

Date:

Enrolment No: 92301733041

Router0

Physical Config **CLI** Attributes

IOS Command Line Interface

```
Cisco#show ip int br
Interface          IP-Address      OK? Method Status           Protocol
GigabitEthernet0/0/0 unassigned      YES unset administratively down down
GigabitEthernet0/0/1 unassigned      YES unset administratively down down
GigabitEthernet0/0/2 unassigned      YES unset administratively down down
Vlan1              unassigned      YES unset administratively down down

Cisco#show interfaces
GigabitEthernet0/0/0 is administratively down, line protocol is down (disabled)
  Hardware is ISR4331-3x1GE, address is 00e0.8f21.bc01 (bia 00e0.8f21.bc01)
  MTU 1500 bytes, BW 1000000 Kbit, DLY 10 usec,
    reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive not supported
  Full Duplex, 1000Mbps, link type is auto, media type is Auto Select
  output flow-control is on, input flow-control is on
  ARP type: ARPA, ARP Timeout 04:00:00,
  Last input 00:00:08, output 00:00:05, output hang never
  Last clearing of "show interface" counters never
  Input queue: 0/375/0 (size/max/drops); Total output drops: 0
  Queueing strategy: fifo
  Output queue :0/40 (size/max)
  5 minute input rate 0 bits/sec, 0 packets/sec
  5 minute output rate 0 bits/sec, 0 packets/sec
    0 packets input, 0 bytes, 0 no buffer
    Received 0 broadcasts (0 IP multicasts)
    0 runts, 0 giants, 0 throttles
    0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
    0 watchdog, 1017 multicast, 0 pause input
    0 input packets with dribble condition detected

Cisco#how versi
Cisco#how versiion
^
% Invalid input detected at '^' marker.

Cisco#how versi?
% Unrecognized command
Cisco#how version
^
% Invalid input detected at '^' marker.

Cisco#show version
```

Top



Subject: Computer Networks (01CT0503)

Experiment No: 02

Aim: Perform basic CLI commands to configure switch and router.

Date:

Enrolment No: 92301733041

Router0

Physical Config **CLI** Attributes

IOS Command Line Interface

```
Cisco#how versi
Cisco#how version
^
% Invalid input detected at '^' marker.

Cisco#how versi?
% Unrecognized command
Cisco#how version
^
% Invalid input detected at '^' marker.

Cisco#show version
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.
Compiled Sun 08-Jul-18 04:33 by mcpre

Cisco IOS-XE software, Copyright (c) 2005-2018 by cisco Systems, Inc.
All rights reserved. Certain components of Cisco IOS-XE software are
licensed under the GNU General Public License ("GPL") Version 2.0. The
software code licensed under GPL Version 2.0 is free software that comes
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.

ROM: IOS-XE ROMMON

Router uptime is 27 minutes, 23 seconds
Uptime for this control processor is 27 minutes, 23 seconds
System returned to ROM by power-on
System image file is "bootflash:isr4300-universalk9.16.06.04.SPA.bin"
Last reload reason: PowerOn

This product contains cryptographic features and is subject to United
States and local country laws governing import, export, transfer and
use. Delivery of Cisco cryptographic products does not imply
--More--
```

Copy

Paste

Top

Conclusion: In this experiment, I have learnt about the connection between devices, also how to select them from the given panel and where to fix the wires. How to configure the router or switch using console cable. Got to know about basics of CLI Commands how to switch between diff modes like USER to PRIVILEGE to CONFIGURE and revert also. Also perform some CLI commands for practice. How to open terminal and start applying the commands also we can do command from CLI tab already available in the router itself.