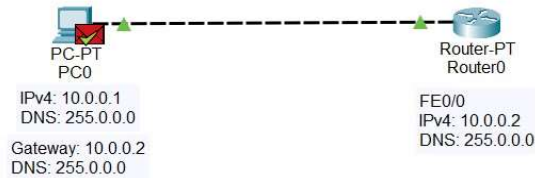


## LABORATORY PROGRAM – 5

To understand the operation of TELNET by accessing the router in server room from a PC in IT office.



```
Router0
Physical Config CLI
IOS Command Line Interface
Router(config)#interface FastEthernet0/0
Router(config-if)#no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
ip address 10.0.0.2 255.0.0.0
Router(config-if)#exit
Router(config)#hostname R1
R1(config)#enable secret P0
R1(config)#line vty 0 5
R1(config-line)#login
% Login disabled on line 132, until 'password' is set
% Login disabled on line 133, until 'password' is set
% Login disabled on line 134, until 'password' is set
% Login disabled on line 135, until 'password' is set
% Login disabled on line 136, until 'password' is set
% Login disabled on line 137, until 'password' is set
R1(config-line)#password P1
R1(config-line)#exit
R1(config)#exit
R1#
%SYS-5-CONFIG_I: Configured from console by console
R1#
R1#
Building configuration...
[OK]
R1#
```

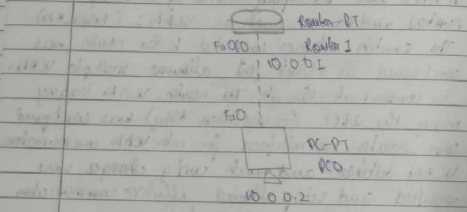
Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	PC0	Router0	ICMP		0.000	N	0	(edit)	

```
PC0
Physical Config Desktop Custom Interface
Command Prompt
Packet Tracer PC Command Line 1.0
PC>ping 10.0.0.2
Pinging 10.0.0.2 with 32 bytes of data:
Reply from 10.0.0.2: bytes=32 time=0ms TTL=255
Reply from 10.0.0.2: bytes=32 time=0ms TTL=255
Reply from 10.0.0.2: bytes=32 time=0ms TTL=255
Reply from 10.0.0.2: bytes=32 time=0ms TTL=255
Ping statistics for 10.0.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
PC>telnet 10.0.0.2
Trying 10.0.0.2 ...Open
User Access Verification
Password:
R1#enable
Password:
R1#
```

To understand the operation of Telnet by accessing the router in server room from a PC in IT office

→ Aim: To understand the operation of Telnet by accessing the router in the server room from a designated device in the IT office

→ Topology:



Procedure

- ① Router enable →
- hostname R1
- enable secret p1
- interface fastethernet 0/0
- ip address 10.0.0.1 255.0.0.0
- no shutdown

- ⑤ line vty 0 5
- login
- password p0

run on console: `enable` `config` `router` `enable`

- ⑥ Configure the R with IP address 10.0.0.2
- ping 10.0.0.1

- ⑦ R →
- telnet 10.0.0.1
- password p0
- enable secret p1

- ⑧ Ping to the router (10.0.0.1) from the PC was successful
- Telnet access was established, allowing remote config of the router

Observation

Telnet, developed in 1969, is a simple text-based protocol that enables communication with remote devices or servers over a TCP/IP network. Often used for initial setup or remote management of network devices, it operates via command-line interface. This exercise demonstrates setting a router using Telnet and validating connectivity using the ping command from a PC.

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