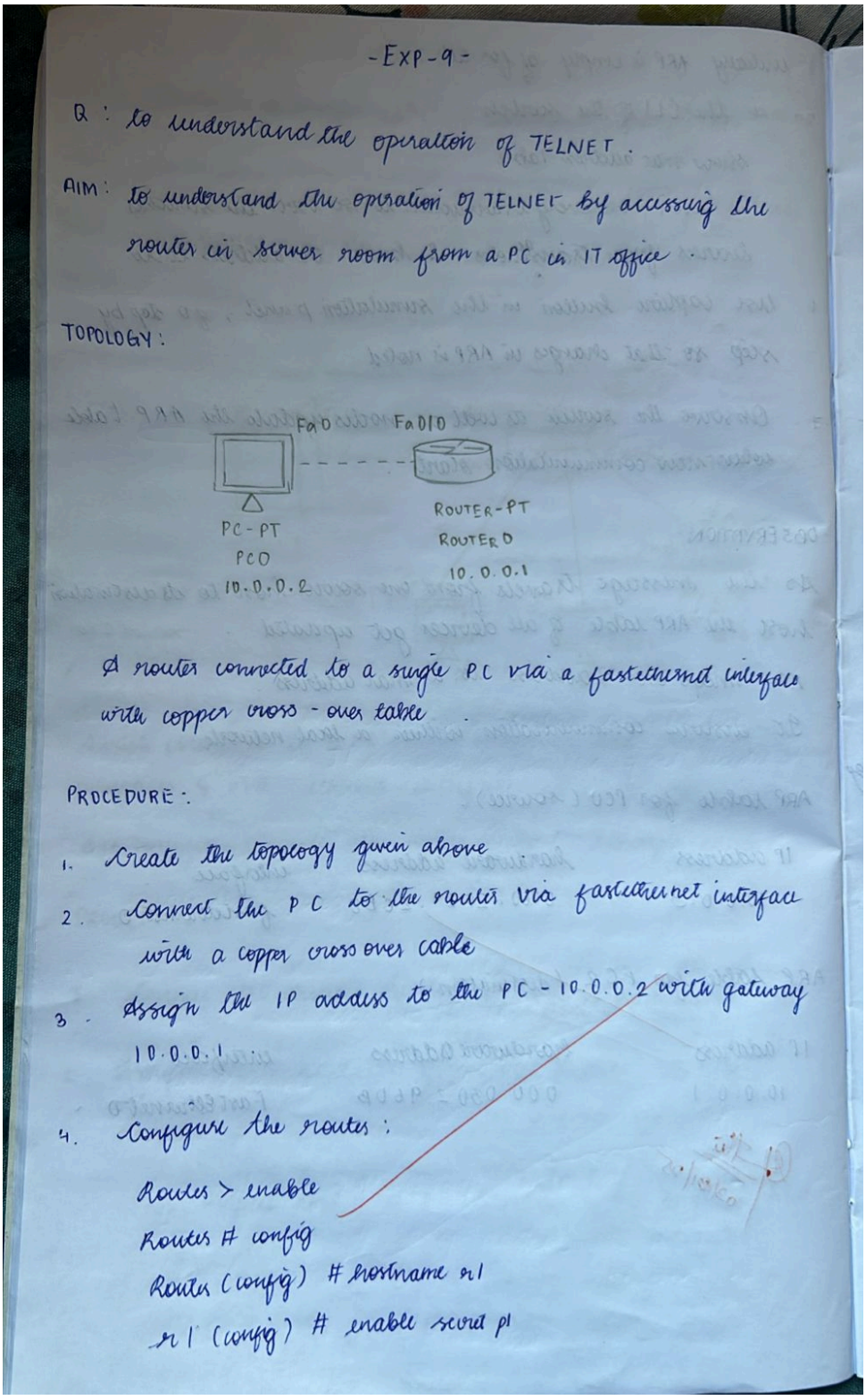
EXP-9

OBSERVATION



-Exp-9-

Q : to understand the operation of TELNET.

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

TOPOLOGY :

A router connected to a single PC via a fastethernet interface with copper cross-over table.

PROCEDURE :

1. Create the topology given above
2. Connect the PC to the router via fastethernet interface with a copper cross over cable
3. Assign the IP address to the PC - 10.0.0.2 with gateway 10.0.0.1
4. Configure the router :

   Router > enable
   Router # config
   Router (config) # hostname r1
   r1 (config) # enable secret p1

r1(config)# interface fastethernet 0/0
r1(config-if)# ip address 10.0.0.1 255.0.0.0
r1(config-if)# no shut
r1(config-if)# line vty 0 5
r1(config-if)# login
r1(config-line)# password p0
r1(config-line)# exit
r1# wr

5. in command prompt

ping 10.0.0.1
password for user authentication is p0

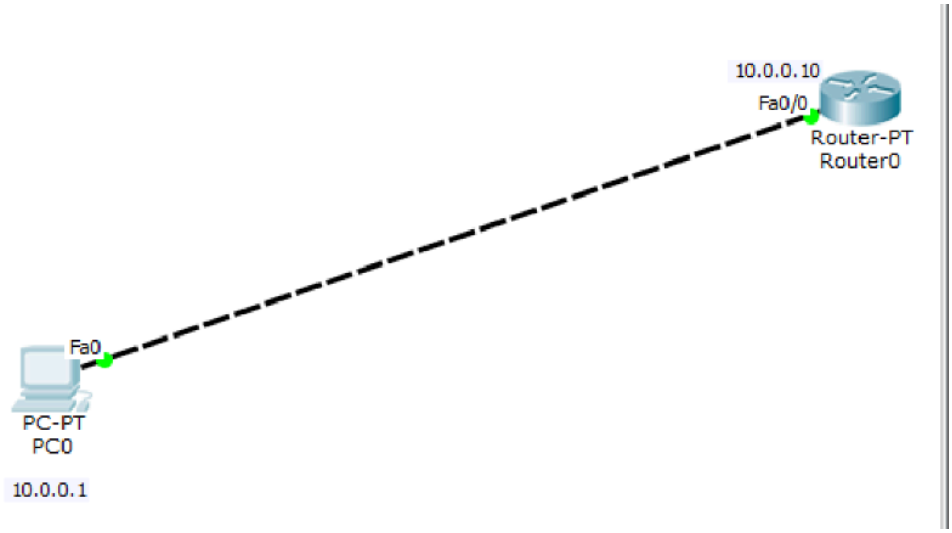
password for enable is p1

OBSERVATION:

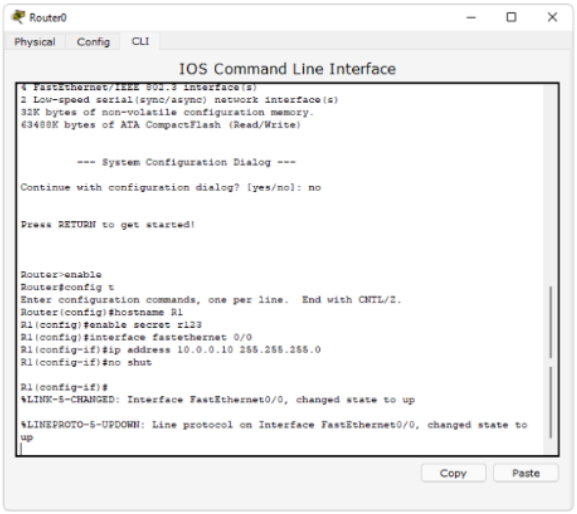
Telnet is a protocol for remote access to server
It allows command-line communication over a network.
The PC is able to send the data to the router
& indicates that the gateway is available & connected

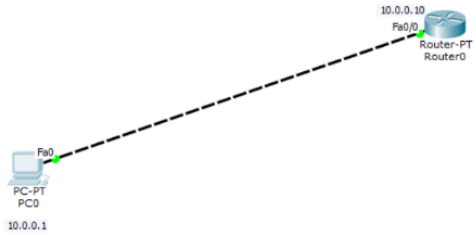
02/01/25

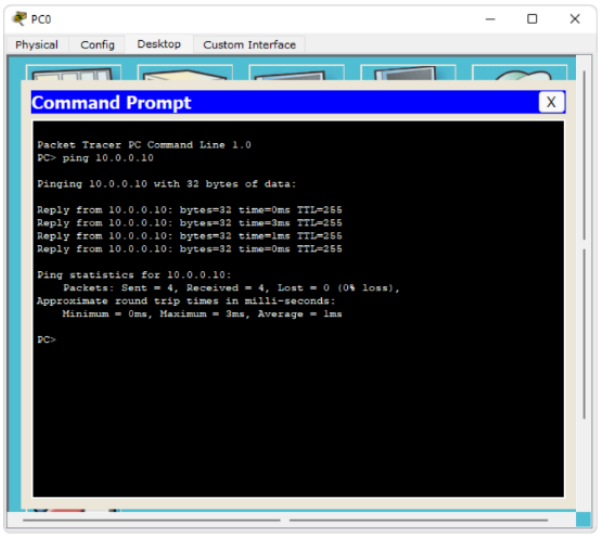
TOPOLOGY

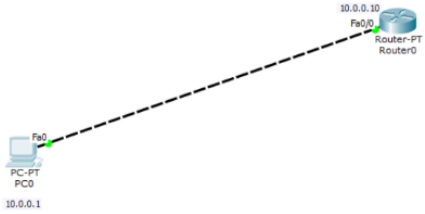


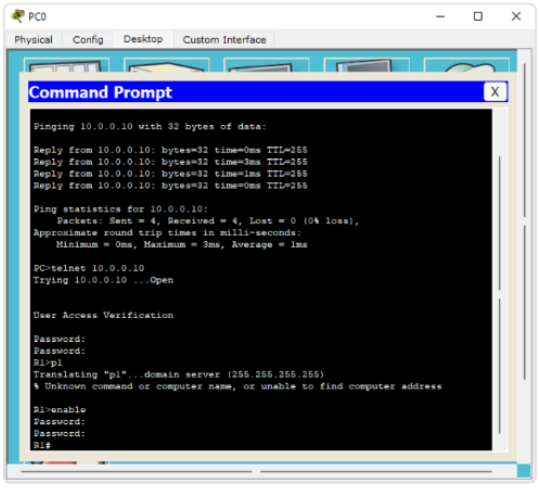
OUTPUT




10.0.0.10
Fa0/0
Router-PT
Router0
Fa0
PC-PT
PC0
10.0.0.1


PC0
Physical
Config
Desktop
Custom Interface
Command Prompt
X
Packet Tracer PC Command Line 1.0
PC> ping 10.0.0.10
Pinging 10.0.0.10 with 32 bytes of data:
Reply from 10.0.0.10: bytes=32 time=0ms TTL=255
Reply from 10.0.0.10: bytes=32 time=3ms TTL=255
Reply from 10.0.0.10: bytes=32 time=1ms TTL=255
Reply from 10.0.0.10: bytes=32 time=0ms TTL=255
Ping statistics for 10.0.0.10:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 3ms, Average = 1ms
PC>


10.0.0.10
Fa0/0
Router-PT
Router0
Fa0
PC-PT
PC0
10.0.0.1


PC0
Physical
Config
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Custom Interface
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Pinging 10.0.0.10 with 32 bytes of data:
Reply from 10.0.0.10: bytes=32 time=0ms TTL=255
Reply from 10.0.0.10: bytes=32 time=3ms TTL=255
Reply from 10.0.0.10: bytes=32 time=1ms TTL=255
Reply from 10.0.0.10: bytes=32 time=0ms TTL=255
Ping statistics for 10.0.0.10:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 3ms, Average = 1ms
PC>telnet 10.0.0.10
Trying 10.0.0.10 ...Open
User Access Verification
Password:
Password:
R1>p1
Translating "p1"...domain server (255.255.255.255)
% Unknown command or computer name, or unable to find computer address
R1>enable
Password:
Password:
R1#