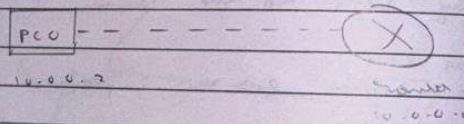LAB - 8

Aim:
To understand the operation of TELNET through
the router in server room from a PC in
IT office.

Devices used:
PC, router

Topology:

```
┌─────┐
│ PCO │ - - - - - - - - - - (X)
└─────┘                     router
10.0.0.2                    10.0.0.1
```

Procedure:
(i) Make the topology as shown above

(ii) commands in router:
> enable
config terminal
hostname R1
enable secret P1
interface fastethernet 0/0
ip address 10.0.0.1   255.0.0.0
no shut

line vty 0 5
login

password p0
set
exit

wy - no static change in router ...
(ii) command in PC:
ping 10.0.0.1
(0% loss)

(Password for User mode Verification is P0)
(Password for enable is P1)

(iii) Accessing router CLI from PC

User access Verification
Password:
R1 > enable
Password:
R1 # show ip route

codes: C - ...
        D - ...
        N1 - ...
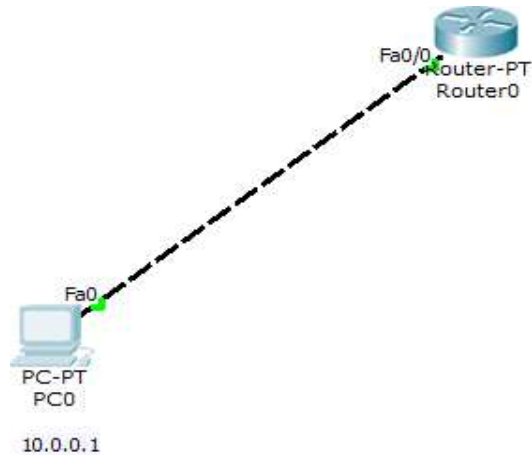   E1 - ...
        i - ...

orev
        * - ...
        P - ...

(Gateway of last resort is not set

observation 8/1/25

admin in PC is able to run commands as run in router CLI and see results from PC.

```
Fa0/0
Router-PT
Router0


Fa0
PC-PT
PC0

10.0.0.1
```

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#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route

Gateway of last resort is not set

C    10.0.0.0/8 is directly connected, FastEthernet0/0
R1#
```