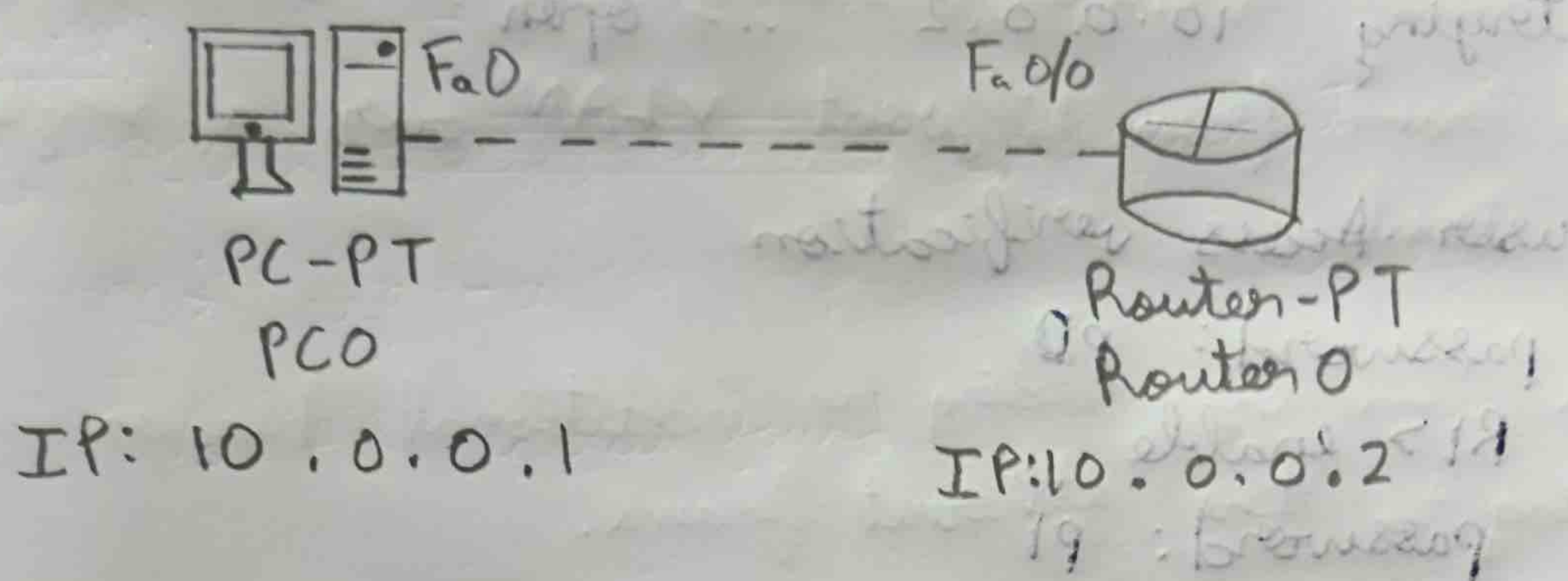# Expt: To understand the operation of TELNET

Aim: To understand the operation of TELNET by accessing the routers in server room from a PC in IT office

Topology:

PC-PT
PCO

IP: 10.0.0.1

Fa0/0

Router-PT
Router 0

IP: 10.0.0.2

A router connected to a single PC via a fastethern- -et interface with copper cross-over cable

Procedure:

1. Open cisco packet tracer and drag a PC & a router
2. Connect the PC to the router via fastethernet interface with a copper cross-over cable
3. Assign the IP address to the PC - 10.0.0.1 with gateway as 10.0.0.2

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 10.0.0.2 255.0.0.0
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

In PCO command prompt:

~~ping 10.0.0.2~~
~~password for user authentication is po~~
~~password for enable is p1~~

PC> telnet 10.0.0.2
trying 10.0.0.2 ... open

user Access verification
password: PO
R1> enable
password: P1
R1#

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 = 2ms 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

Observation:
TELNET is a protocol for remote access to servers. It allows command-line communication over a network The PC is able to send the data to the router and indicates that the gateway is available and connected.

IP: 10.0.0.2 Fa0/0er-PT
Router0

Fa0

PC-PT
PC0

IP: 10.0.0.1

PC0

Physical | Config | Desktop | Custom Interface

Command Prompt   X

```
Password:
Password:
Password:

[Connection to 10.0.0.2 closed by foreign host]
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#
```