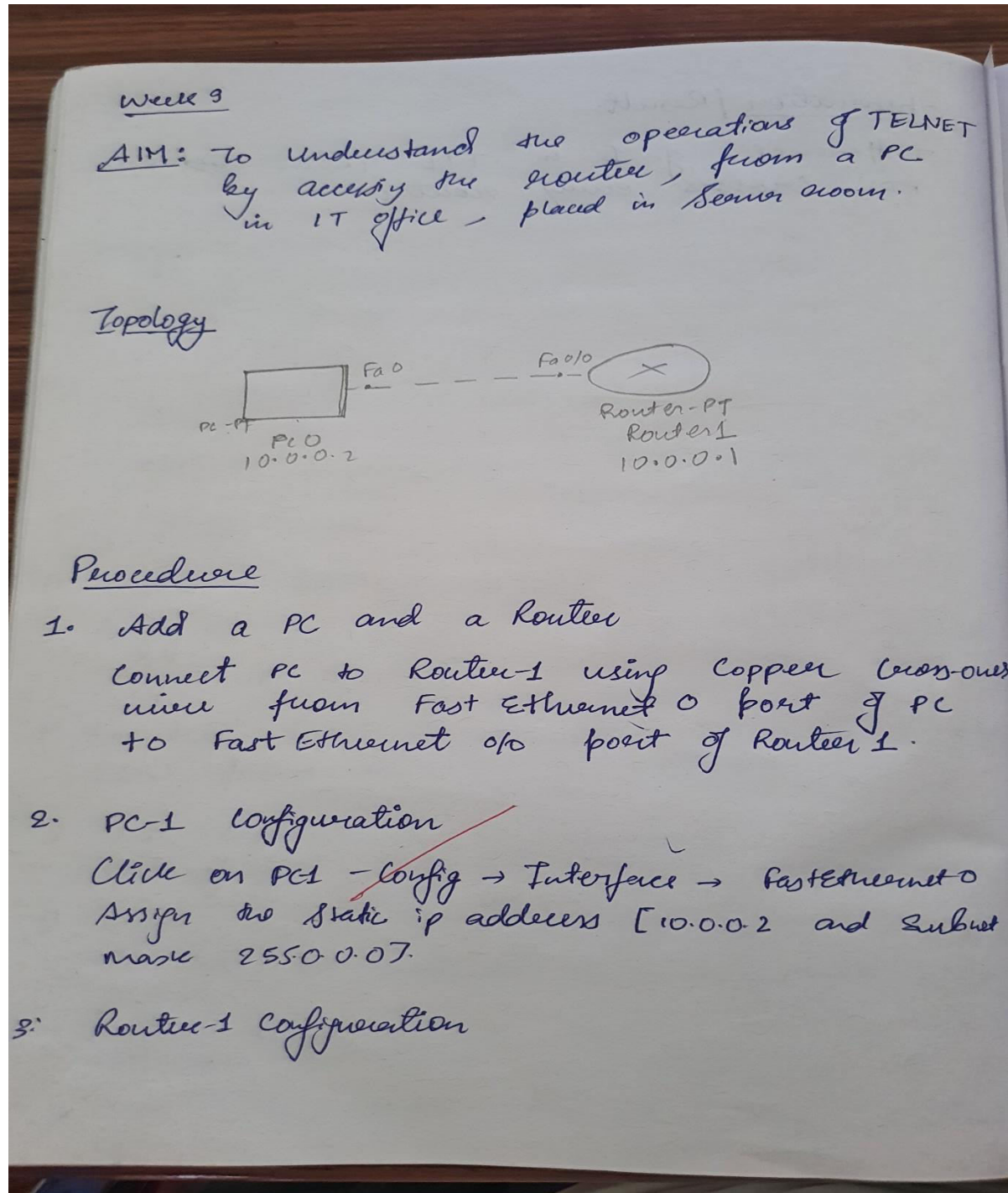# CN LAB 10

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

OBSERVATION:

Week 9

AIM: To understand the operations of TELNET by accessing the router, from a PC in IT office, placed in Server room.

Topology

PC-PT
Pc 0
10.0.0.2

Fa 0 ---- Fa 0/0

Router-PT
Router1
10.0.0.1

Procedure

1. Add a PC and a Router
   Connect PC to Router-1 using Copper (cross-over) wire from Fast Ethernet 0 port of PC to Fast Ethernet 0/0 port of Router 1.

2. PC-1 configuration
   Click on PC1 – config → Interface → FastEthernet 0
   Assign the static ip address [10.0.0.2 and Subnet mask 255.0.0.0].

3. Router-1 configuration

Router > enable
Router # config t
Router (config) # hostname R1
R1 (config) # enable secret P1
R1 (config) # interface Fa0/0
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
> login
> password P0
> exit
> exit
> wr   [to save changes in router]

Observation

Pc > ping 10.0.0.1

Pinging 10.0.0.1 with 32 bytes as data
Reply from 10.0.0.1 bytes=32 time=0ms TTL=255
Reply from 10.0.0.1 bytes=32 time=0ms TTL=255
Reply from 10.0.0.1 bytes=32 time=0ms TTL=255
Reply from 10.0.0.1 bytes=32 time=0ms TTL=255

Ping statistics for 10.0.0.1

packets sent = 4 . Recieved = 4   lost = 0 (0/. lost)

PC> telnet 10.0.0.1
     Trying 10.0.0.1 ... open

User access verification
Password:
91.> Enable
Password:
91 # Show ip route

Codes C - Connected , S- Static , I-I GIRP , R-RIP
M- mobile D-CIGRP, Ex- EIGRP external , O -OSPF
· IA -OSPF , N1 - OSPF NSSA external type 1,
N2 - external type 2 E1 - OSPF external type 2
i - IS-IS , L1 - IS-IS level-1 L2 - IS-IS level 2
* - candidate default , U - per user static route
P - Periodic download static route.

Gateway of last resort is not set.
C 10.0.0.0/0 is directly connected , FastEthn.0/0

SCREENSHOTS:


```
Command Prompt

Packet Tracer PC Command Line 1.0
PC>ping 10.0.0.1

Pinging 10.0.0.1 with 32 bytes of data:

Reply from 10.0.0.1: bytes=32 time=1ms TTL=255
Reply from 10.0.0.1: bytes=32 time=0ms TTL=255
Reply from 10.0.0.1: bytes=32 time=0ms TTL=255
Reply from 10.0.0.1: bytes=32 time=0ms TTL=255

Ping statistics for 10.0.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms

PC>telnet 10.0.0.1
Trying 10.0.0.1 ...Open


User Access Verification

Password:
% Password:  timeout expired!

[Connection to 10.0.0.1 closed by foreign host]
PC>telnet 10.0.0.1
Trying 10.0.0.1 ...Open


User Access Verification

Password:
Password:
Password:

[Connection to 10.0.0.1 closed by foreign host]
PC>telnet 10.0.0.1
Trying 10.0.0.1 ...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#
```