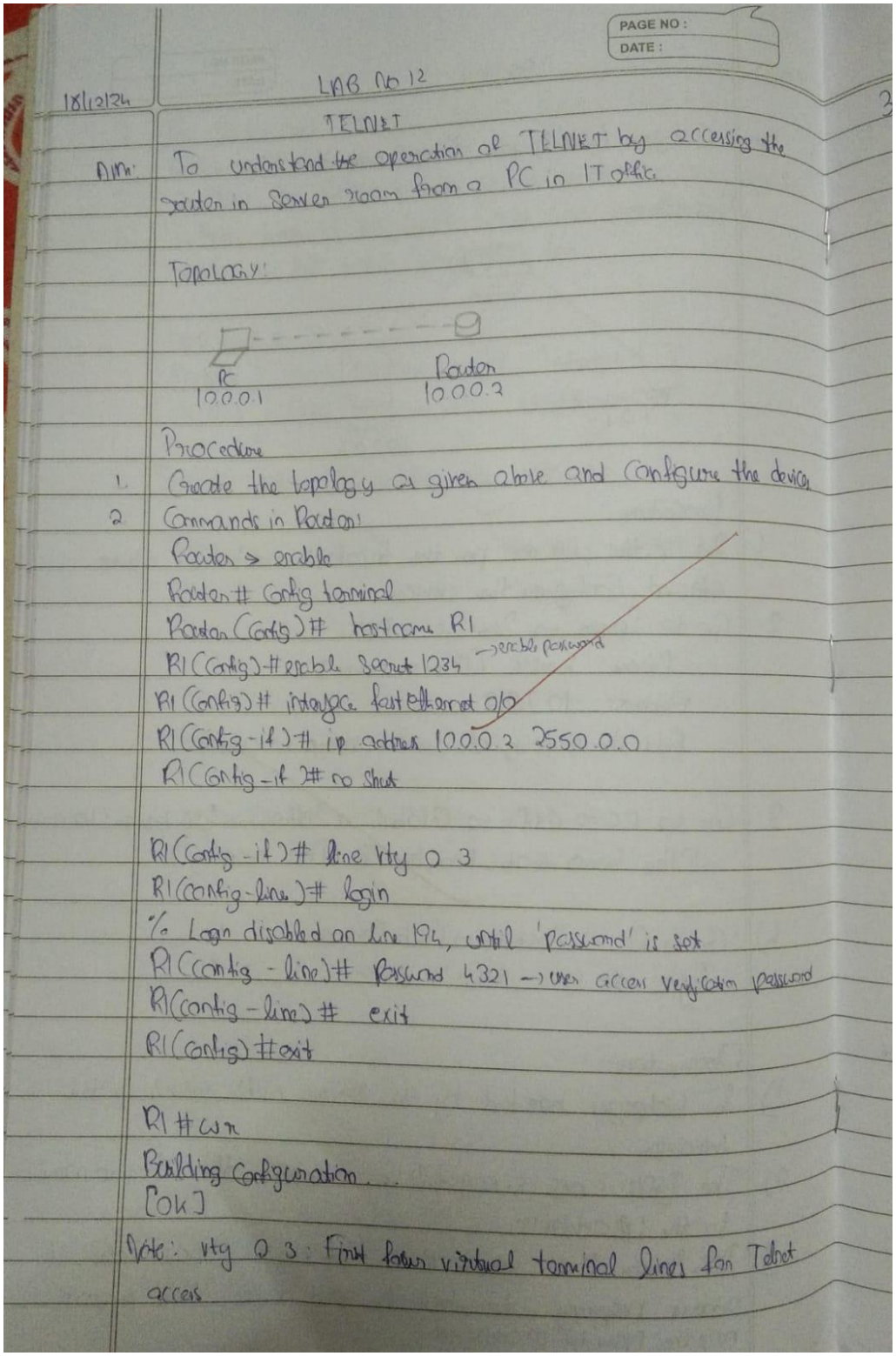
LABORATORY PROGRAM – 10

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



LAB No 12

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TELNET

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

Topology:

Procedure

1. Create the topology as given above and configure the device
2. Commands in Router:

Router > enable
Router# Config terminal
Router(Config)# hostname R1
R1(Config)# enable secret 1234 → enable password
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 3
R1(config-line)# login
% Login disabled on line 194, until 'password' is set
R1(Config-line)# Password 4321 → user access verification password
R1(Config-line)# exit
R1(Config)# exit

R1# wr
Building Configuration...
[OK]

Note: vty 0 3: First four virtual terminal lines for Telnet access

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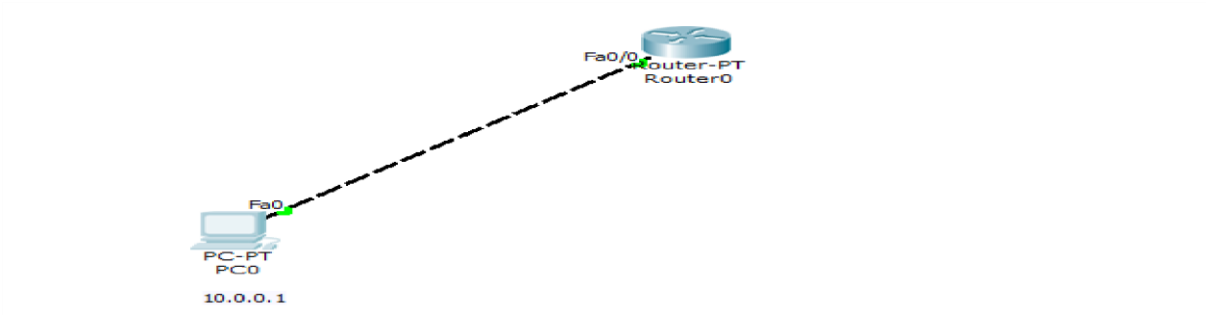
3. In PC: Command Prompt:
- First try pinging to see if devices are connected.

PC > telnet 10.0.0.2
Trying 10.0.0.2 ... Open

User Access Verification
Password: 4321
Password: 4321
R1 > enable
Password: 1234
R1 # show ip route

C 10.0.0.0/8 is directly connected, FastEthernet 0/0
R1 #

Observations:
1. The admin in PC is able to run commands as run in router CLI and see the results from PC
2. Telnet allows users to establish a remote session with another device like router, over a TCP/IP network
3. Using Telnet, we can access and control the remote device's CLI as if you were physically connected to it.



Command Prompt

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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#
```