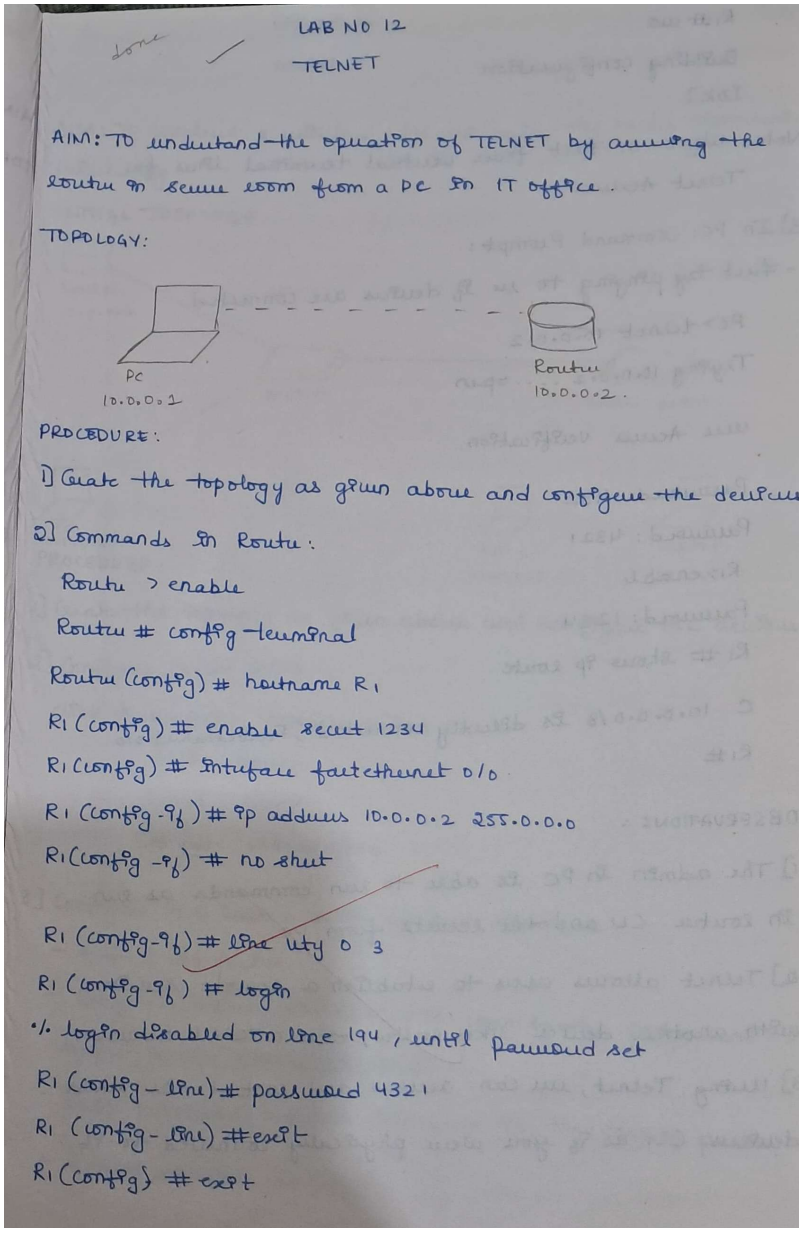
Program-11

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

Topology, Procedure and Observation:



LAB NO 12

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 devices

2] Commands in Router:

Router > enable

Router # config terminal

Router (config) # hostname R1

R1 (config) # enable secret 1234

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-if) # login

% login disabled on line 194, until password set

R1 (config-line) # password 4321

R1 (config-line) # exit

R1 (config) # exit

R1# wa.

Building configuration

[OK]

Note: vty 0 3: first four virtual terminal lines for Telnet Access.

3] In PC: Command Prompt:

- first try pinging to if ips 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#

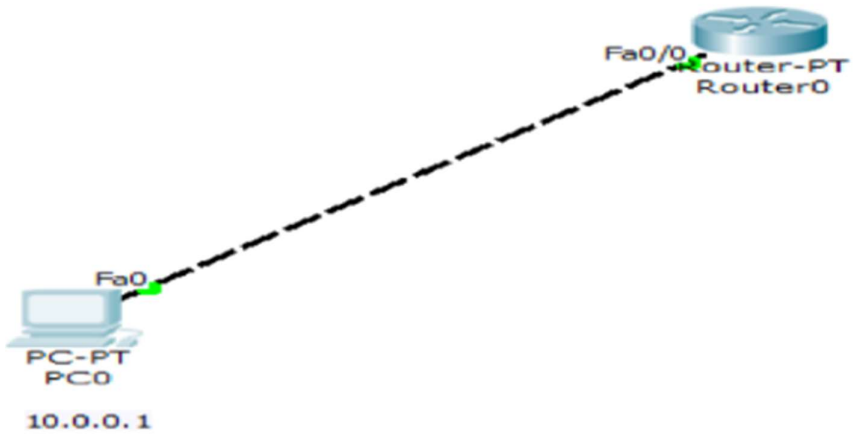
OBSERVATIONS:

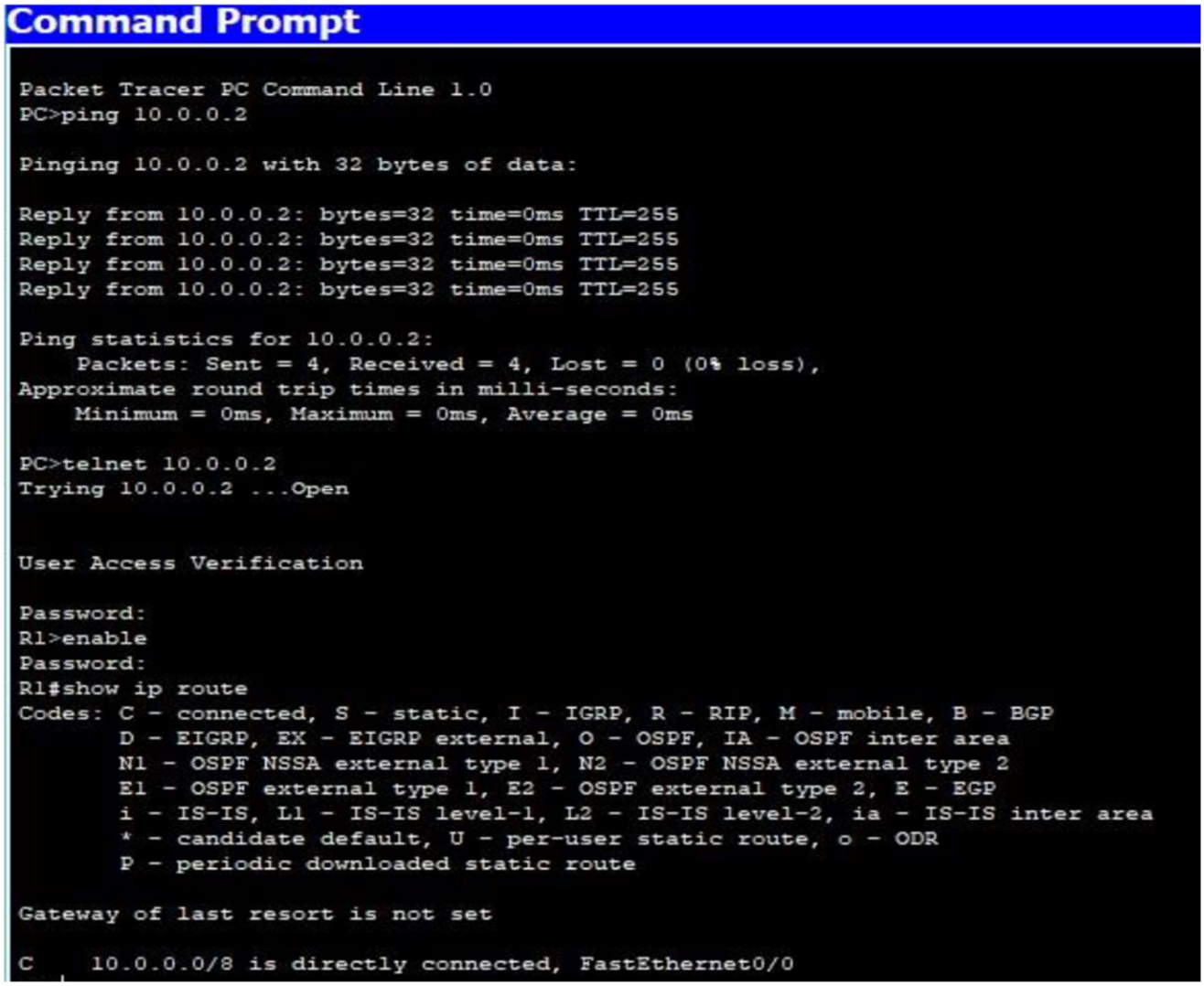
1] The admin in PC is able to run commands as run in router CLI and the results from PC

2] Telnet allows us 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 devices CLI as if you were physically connected to it.

Screenshots:




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