Program 9

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

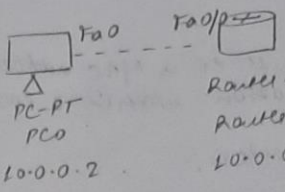
Topology, Procedure and Observation:

EXPERIMENT-9

To understand the operation of TELNET

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

TOPOLOGY:-



A router connected to a single PC via a fastethernet interface using 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 using a copper cross-over cable.

(3) Assign the IP address to the PC - 10.0.0.2 with gateway as 10.0.0.1.

Configure the router:

```
Router > enable
Router # config
Router (config) # hostname r1
r1 (config) # enable secret pl
r1 (config) # interface fastethernet 0/0
r1 (config-if) # ip address 10.0.0.1 255.0.0.0
r1 (config-if) # no shutdown
r1 (config-if) # line vty 0 5 -- to allow virtual term
r1 (config-if) # login
r1 (config-line) # password p0
r1 (config-line) # exit
r1 (config) # exit
r1 # copy - to save changes in router.
```

In command prompt:

ping 10.0.0.1.

Password for user authentication is P0

Password for enable is P1.

Observations:

Telnet is a protocol for remote access to servers.

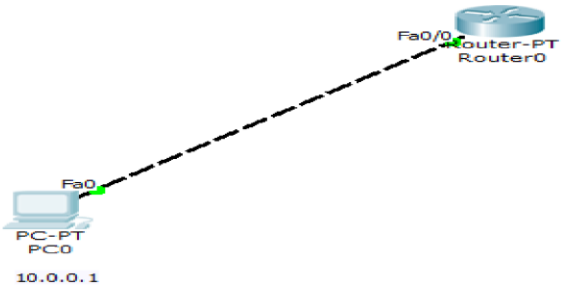
It allows command-line communication over a network.

The PC is able to send the data to the router and

indicates that the gateway is available and connected.

access for 6 users

Screen Shots:



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#
```