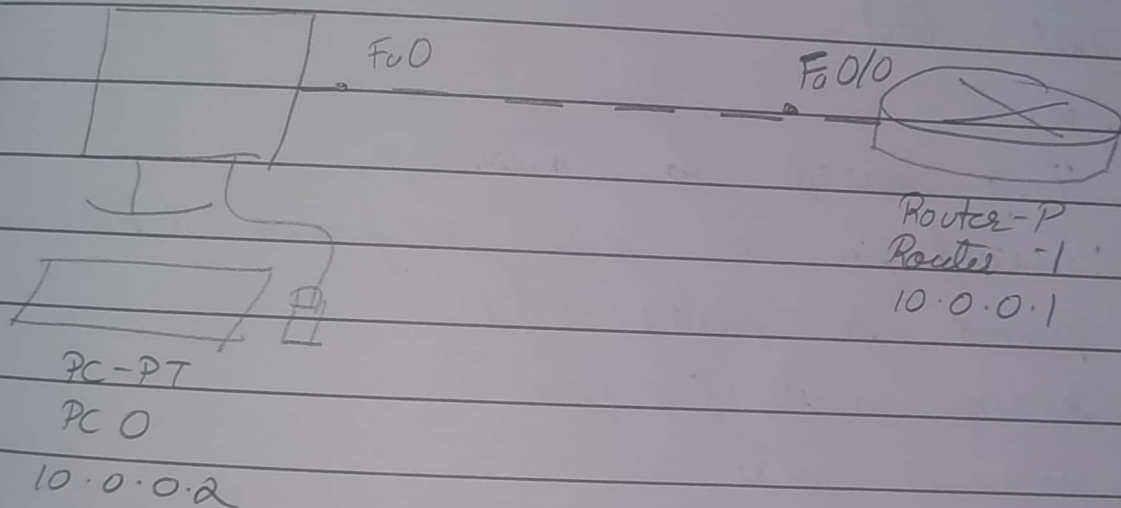


## LAB - 12

Aim

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

TOPOLOGY:



Procedure:

1. Create a topology as shown above
2. Config the IP address & gateway for PC0
3. Config the router by executing the following commands.
  - 1) enable
  - 2) config T
  - 3) hostname r1

- 4) enable secret P1
- 5) interface fastEthernet 0/0
- 6) ip address 10.0.0.1 255.0.0.0
- 7) No shut
- 8) line vty 0 5
- 9) login
- 10) password po
- 11) Exit ; Exit
- 12) wr

• Ping message to router

Password for user access verification is P1

Password for enable is P1

Accessing router CLI from PC

Show IP route

Ping output :-

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=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

Packets : sent = 4 Received = 4 dgt = 0 (0% Loss)  
 Approximate round trip times in milliseconds  
 Minimum = 0ms, Maximum = 0ms, Average = 0ms

PCT telnet 10.0.0.1

Typing 10.0.0.1 ... open

User access verification

Password : PO

.? enable

Password : PI

11 # show ip route

~~Output~~

C 10.0.0.0 /8 is directly connected, FastEthernet0/0

## OBSERVATION

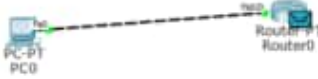
- TELNET stands for Teletype Network. It is a type of protocol that enables one computer to connect to the local computer.
- It is used as a standard TCP/IP protocol for virtual terminal service provided by ISO.
- During TELNET operation, whatever is being performed on the remote computer will be displayed by the local computer. TELNET operates on a client / server principle.



Cisco Packet Tracer Student - C:\Users\sarja\Cisco Packet Tracer 6.2sv\saved\telnet.pkt

File Edit Options View Tools Extensions Help

Logical [Root] New Cluster Move Object Set Tiled Background Viewport



PC-P1 PC0 Router-P1 Router0

Simulation Panel

Event List

Vis.	Time(sec)	Last De	At Des	Type	Info
	36.934	--	Rout...	CDP	
	36.935	Router0	PC0	CDP	
	96.934	--	Rout...	CDP	
	96.935	Router0	PC0	CDP	
	156.934	--	Rout...	CDP	

Reset Simulation ☒ Constant Delay Captured to: 156.934 s

Play Controls

Back Auto Capture / Play Capture / Forward

Event List Filters - Visible Events:

ACL, Filter, ARP, BGP, CDP, DHCP, DHCPv6, DNS, DTP, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPSec, ISAKMP, LACP, NTP, NETFLOW, NTP, OSPF, OSPFv6, PAgg, POP3, RADIUS, RIP, RIPng, RTR, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TFTP, Telnet, UDP, VTP

Edit Filters Show All/None

Time: 00:03:00.519 Power Cycle Devices PLAY CONTROLS: Back Auto Capture / Play Capture / Forward

Scenario 0

New Delete

File Last Stats Sourc Destination Type Colo Time(s) Period Num Edit Delete

Successful PC0 Router0 TC 0.000 N 0 [ed] [delete]

Simulation

PC0

Physical Config Desktop Custom Interface

### 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=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=1ms 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:
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#
```