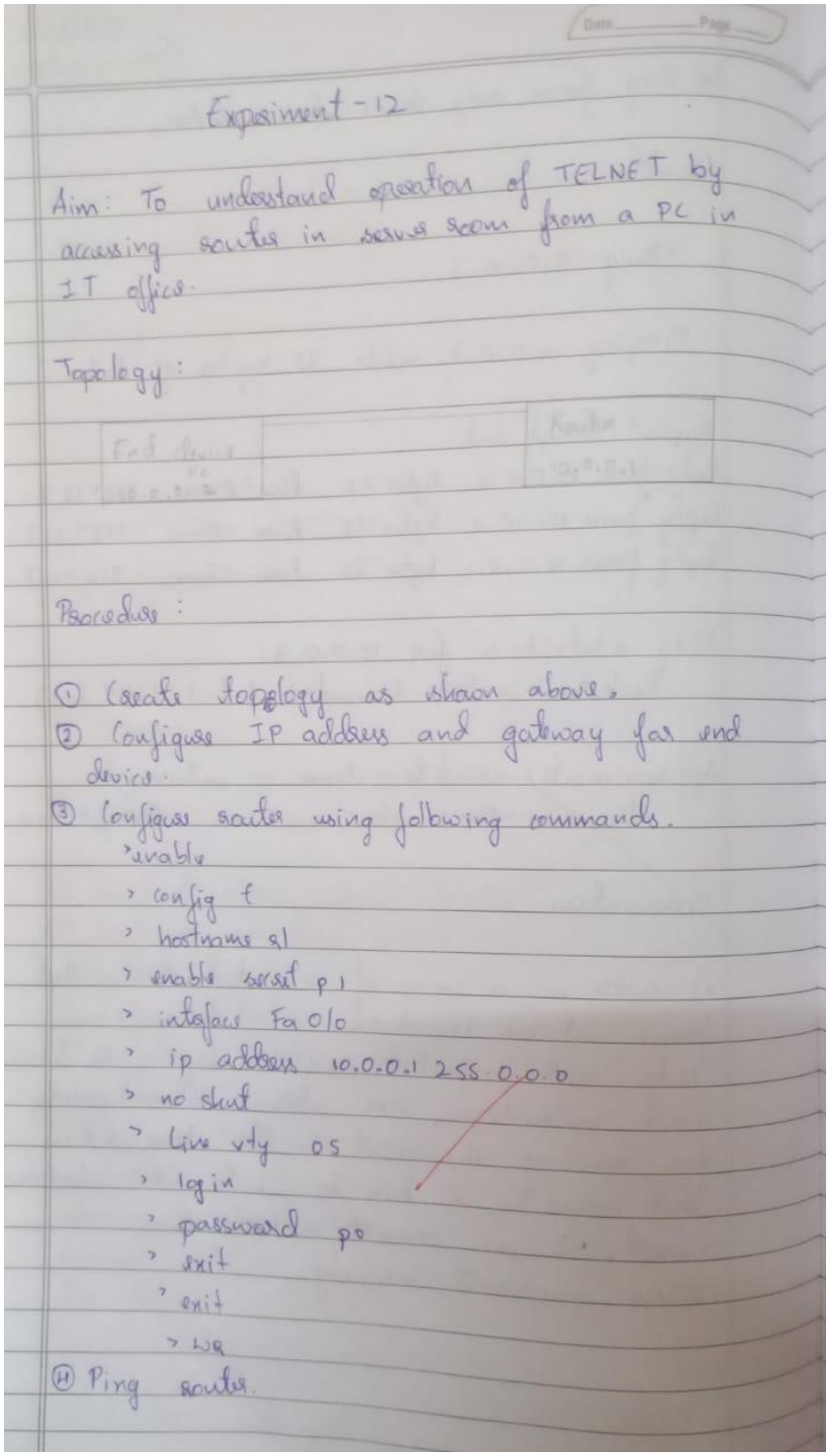
EXPERIMENT- 12

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



Experiment - 12

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

Topology:

Procedure:

① Create topology as shown above.
② Configure IP address and gateway for end device.
③ Configure router using following commands.
- enable
- config t
- hostname r1
- enable secret p1
- interface Fa 0/0
- ip address 10.0.0.1 255.0.0.0
- no shut
- line vty 0 5
- login
- password p0
- exit
- exit
- wr

④ Ping router.

Password for user Access verification is po
password for enable is p1

Result:

> 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

Ping statistics for 10.0.0.1:
Packets: Sent=4, Recieved=4, Lost=0 (0% loss)

Approximate roundtrip times in milliseconds:
Minimum=0ms, Maximum=0ms, Average=0ms

IP route:

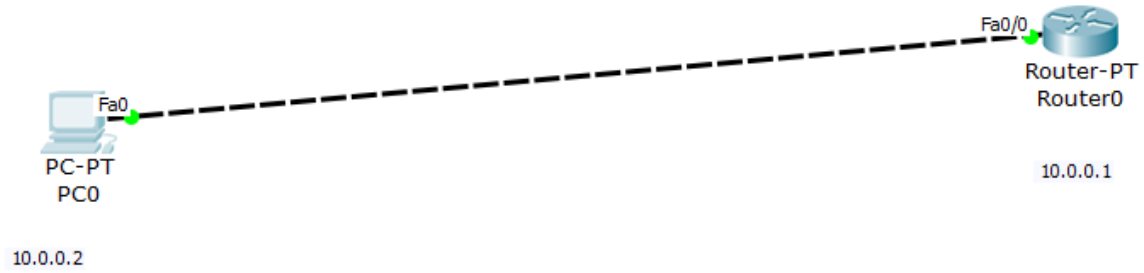
PC> telnet 10.0.0.1
Typing 10.0.0.1 open
User Access Verification
Password: po
Router> enable
Password p1
Router# show IP route

C 10.0.0.0/8 is directly connected, FastEthernet 0/0.

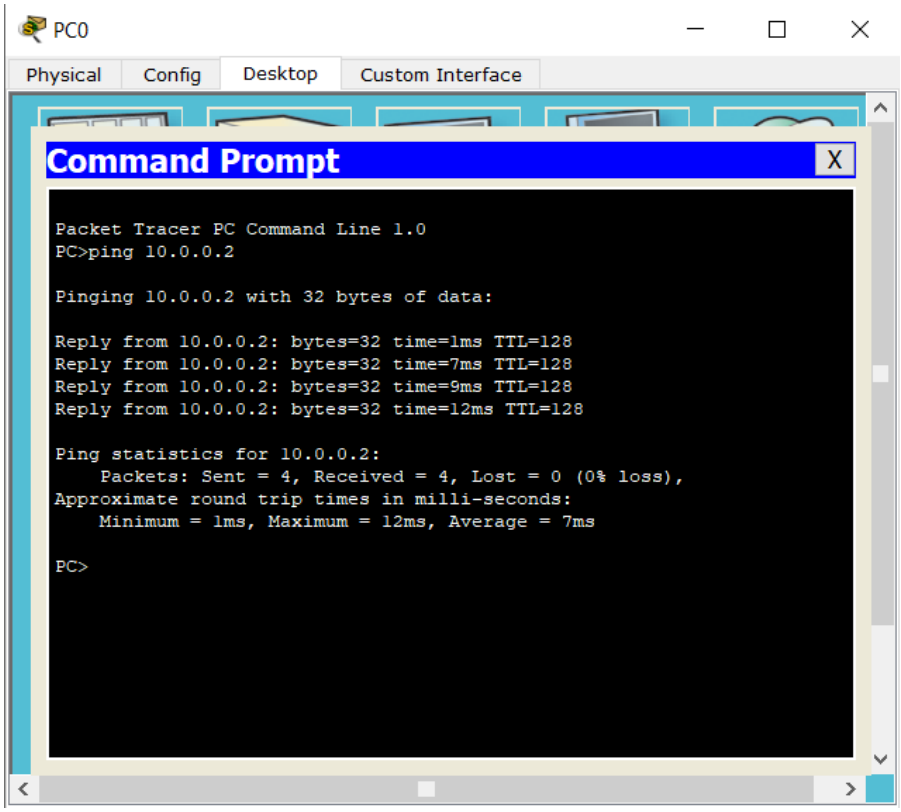
Observation:

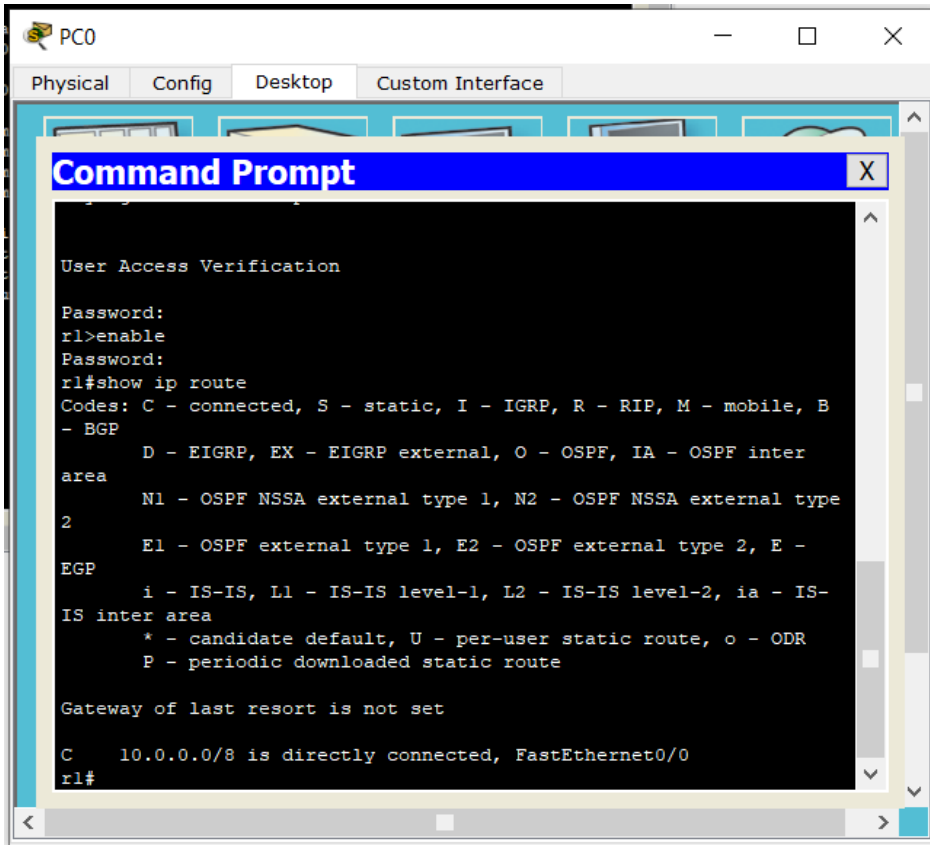
TELNET stands for Teletype network. It is a type of protocol that enables one computer to connect to the local computer. It is used as a standard TCP/IP protocol for virtual terminal service provided by ISO.
During TELNET operation, whatever is being performed on the remote computer will be displayed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

Topology:



Result:


PC0
Physical
Config
Desktop
Custom Interface
Command Prompt
X
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=1ms TTL=128
Reply from 10.0.0.2: bytes=32 time=7ms TTL=128
Reply from 10.0.0.2: bytes=32 time=9ms TTL=128
Reply from 10.0.0.2: bytes=32 time=12ms TTL=128
Ping statistics for 10.0.0.2:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 1ms, Maximum = 12ms, Average = 7ms
PC>


PC0
Physical
Config
Desktop
Custom Interface
Command Prompt
X
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#