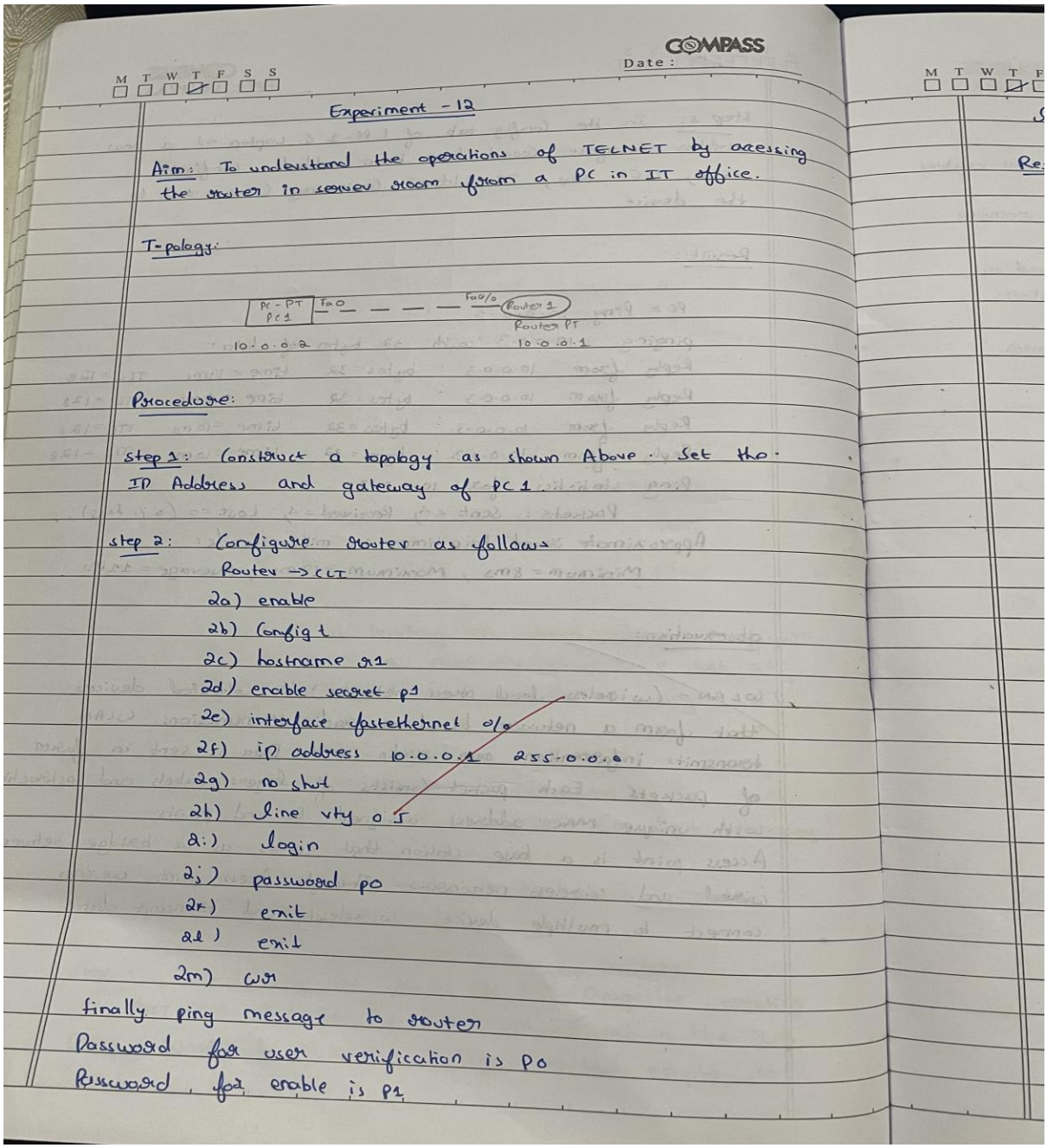
LAB PROGRAM – 12

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

Procedure :



Experiment - 12

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

Topology:

Procedure:

step 1: Construct a topology as shown Above. Set the IP Address and gateway of PC 1.

step 2: Configure router as follows

Router → CLI

2a) enable
2b) Config t
2c) hostname r1
2d) enable secret p1
2e) interface fastethernet 0/0
2f) ip address 10.0.0.1 255.0.0.0
2g) no shut
2h) line vty 0 5
2i) login
2j) password p0
2k) exit
2l) exit
2m) wr

finally ping message to router

Password for user verification is p0

Password for enable is p1

M T W T F S S

COMPASS

Date: 10/8/23

line vty 05 -> to Allow virtual terminal Access for 6 users

Result:

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= 0 ms TTL=255

Reply from 10.0.0.1 : bytes=32 time= 0ms TTL=255

Reply from 10.0.0.1 : bytes=32 time=2ms 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 = 2ms, 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

D - EIGRP, EX-EIGRP external

N1 - OSPF NSSA external type 1

E1 - OSPF external type 1

i - IS-IS, L1-IS-IS

* - candidate default

P - periodic downloaded static route

Gateway of last resort is not set

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

M T W T F S S

COMPASS

Date : 10/8/23

observation:

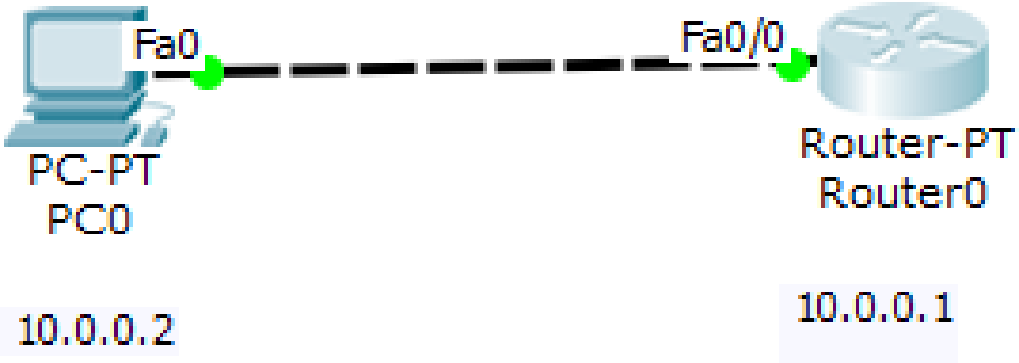
TELNET - Teletype Network is a type of protocol that enables one comp to connect to the local computer.

The computer that is being connected is called remote computer.

During telnet operation, whatever is being performed on remote computer will be displayed by local computer.

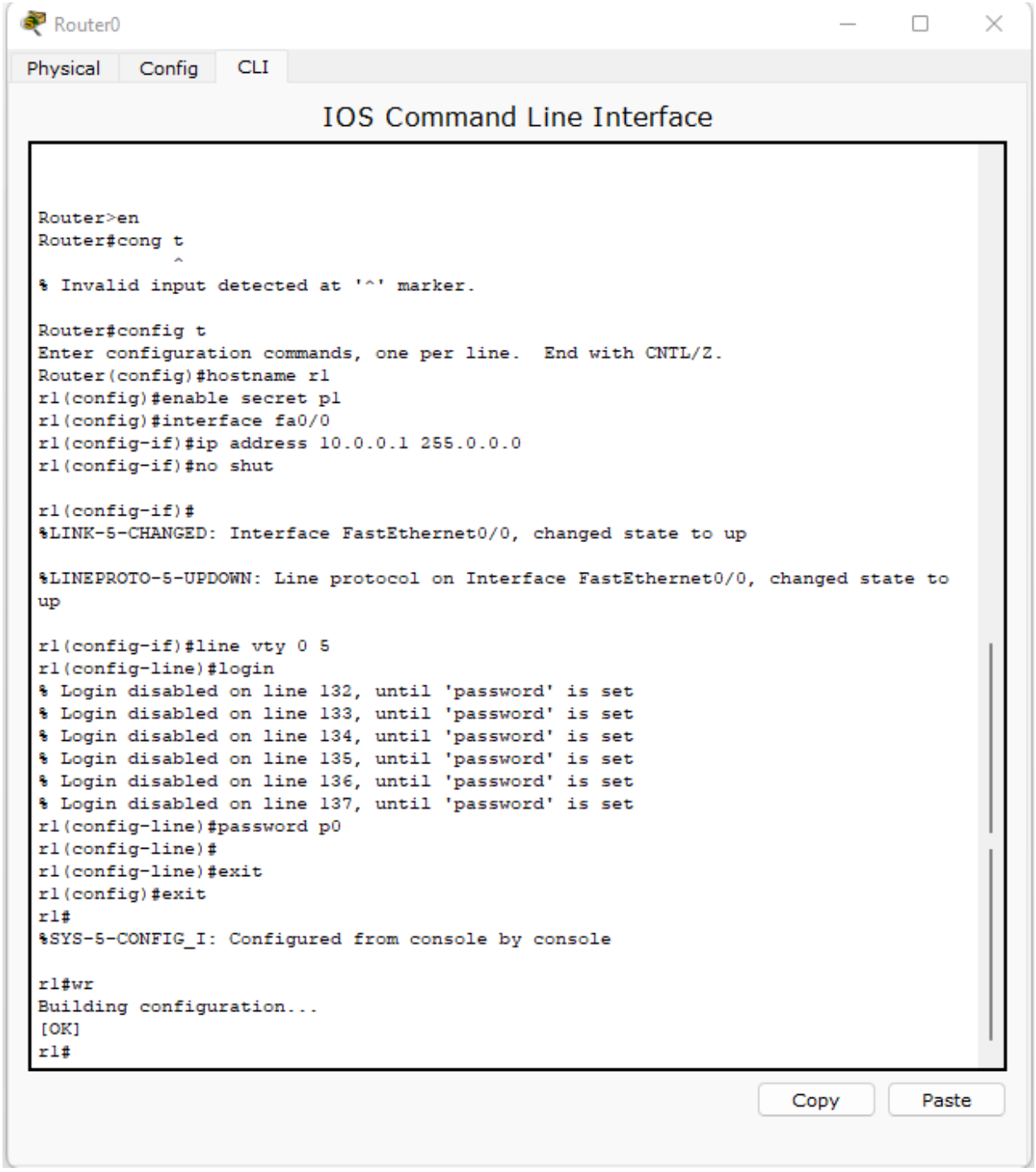
Telnet operates on client/server principle. i.e local computer - client and Remote computer - server.

Topology :



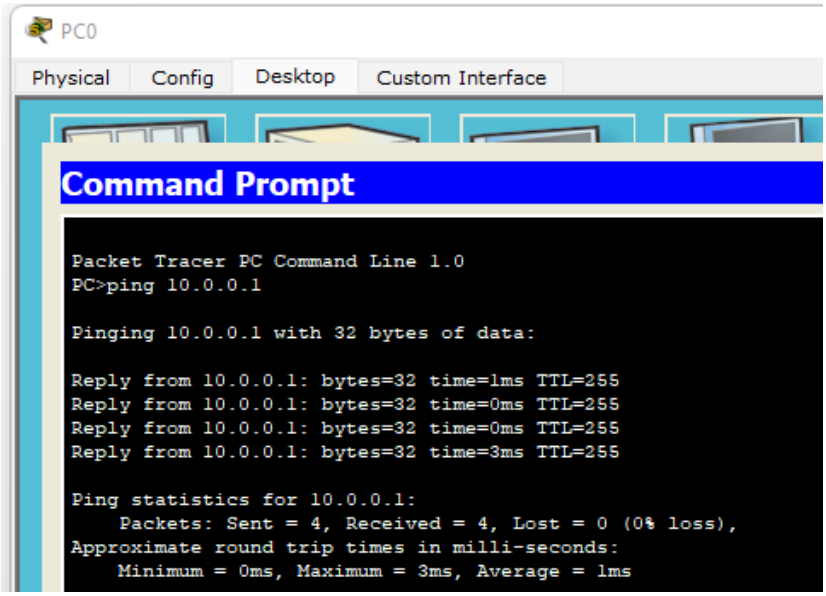
Router Configuration :

Router 0 CLI:



Ping Results :

PC0 to Router:



Accessing the router in server room from a PC in IT office.