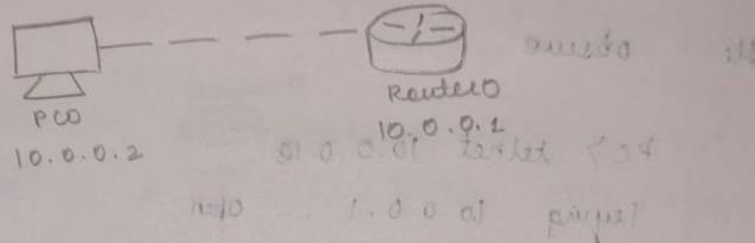18|12|2024   Experiment 10- To understand the operation of TELNET by accessing the router in server room from a PC in IT office.

Observation Book:

Q: To understand operations of TELNET

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

Topology:

PC0
10.0.0.2

Router0
10.0.0.1

Procedure:

1. Connect PC to router with its gateway
2. Set IP of PC (10.0.0.2) with its gateway (10.0.0.1)
3. Configure the router

   CLI → Router > enable
   Router # config terminal
   Router (config) # hostname r1
   r1 (config) # enable secret p1
   r1 (config) # interface fastethernet 0/0
   r1 (config-if) # ip address 10.0.0.1 255.255.255.0
   r1 (config-if) # no shut
   r1 (config-if) # line vty 0 5
   r1 (config-if) # login
   r1 (config-line) # password p0
   r1 (config-line) # exit
   r1 (config) # exit
   r1 # wr

In command prompt (PCO)

ping 10.0.0.1

.password for user authentication, PO

.password for enable is p1

OBSERVATION:

We observe

PC> telnet 10.0.0.12

Trying 10.0.0.1 ... Open

User access verification

password: __   (Enter p0)
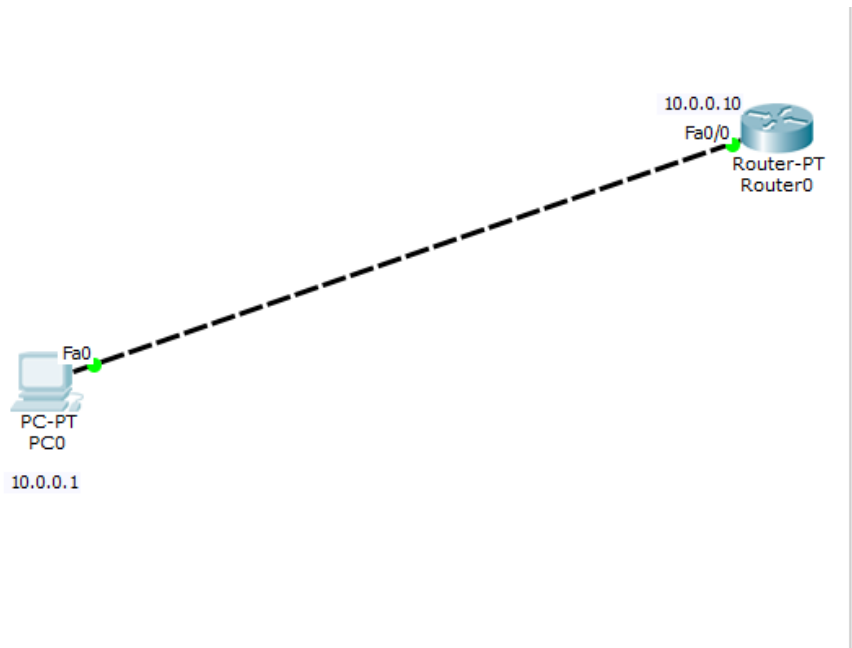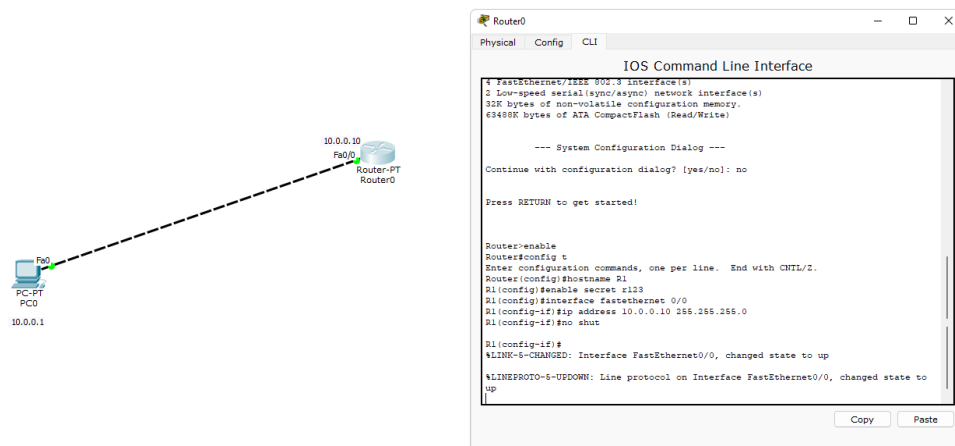
R1 > enable
password: __   (Enter p1)
R1 #
R1 #

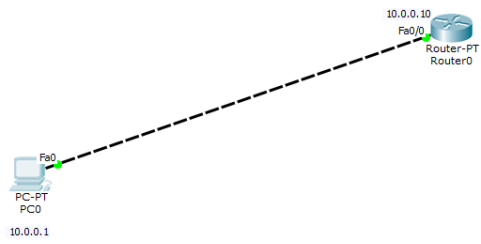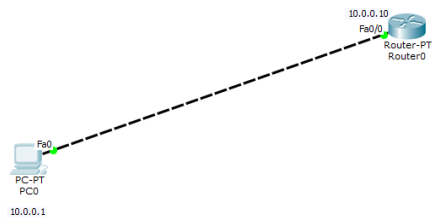we are able to access the router remotely.
by using telnet.

Topology:

Output:

PC0 — Physical | Config | **Desktop** | Custom Interface

Command Prompt

```
Packet Tracer PC Command Line 1.0
PC> ping 10.0.0.10

Pinging 10.0.0.10 with 32 bytes of data:

Reply from 10.0.0.10: bytes=32 time=0ms TTL=255
Reply from 10.0.0.10: bytes=32 time=3ms TTL=255
Reply from 10.0.0.10: bytes=32 time=1ms TTL=255
Reply from 10.0.0.10: bytes=32 time=0ms TTL=255

Ping statistics for 10.0.0.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 3ms, Average = 1ms

PC>
```

10.0.0.10
Fa0/0
Router-PT
Router0

Fa0
PC-PT
PC0
10.0.0.1

PC0 — Physical | Config | **Desktop** | Custom Interface

Command Prompt

```
Pinging 10.0.0.10 with 32 bytes of data:

Reply from 10.0.0.10: bytes=32 time=0ms TTL=255
Reply from 10.0.0.10: bytes=32 time=3ms TTL=255
Reply from 10.0.0.10: bytes=32 time=1ms TTL=255
Reply from 10.0.0.10: bytes=32 time=0ms TTL=255

Ping statistics for 10.0.0.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 3ms, Average = 1ms

PC>telnet 10.0.0.10
Trying 10.0.0.10 ...Open

User Access Verification

Password:
Password:
R1>p1
Translating "p1"...domain server (255.255.255.255)
% Unknown command or computer name, or unable to find computer address

R1>enable
Password:
Password:
R1#
```

10.0.0.10
Fa0/0
Router-PT
Router0

Fa0
PC-PT
PC0
10.0.0.1