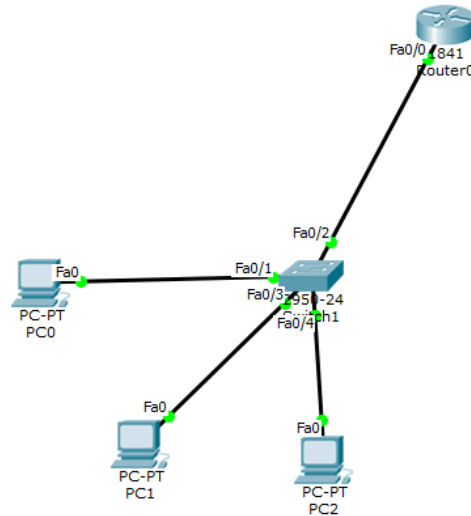


Program – 6:

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

Topology:



Procedure:

1. Topology

- PC0 → Switch0 → Router0

2. PC0 IP Configuration

- IP Address: 192.168.1.2
- Default Gateway: 192.168.1.1

3. Configure Router for Telnet

Open CLI on Router0:

Router> enable

Router# configure terminal

Router(config)# hostname R1

Assign IP Address to Router Interface

R1(config)# interface Fa0/0

R1(config-if)# ip address 192.168.1.1 255.255.255.0

R1(config-if)# no shutdown

R1(config-if)# exit

4. Configure Telnet (VTY lines)

R1(config)# line vty 0 5

R1(config-line)# login

R1(config-line)# password cpl

R1(config-line)# exit

5. Verify Interface Status

R1# show ip interface brief

6. Test Telnet Connection from PC0

Open Command Prompt on PC0:

Ping Test

ping 192.168.1.1

(Output: success)

Telnet Access

telnet 192.168.1.1

password: cpl

7. Further Configuration (Second Interface)

R1> enable

Password: cpl

R1# configure terminal

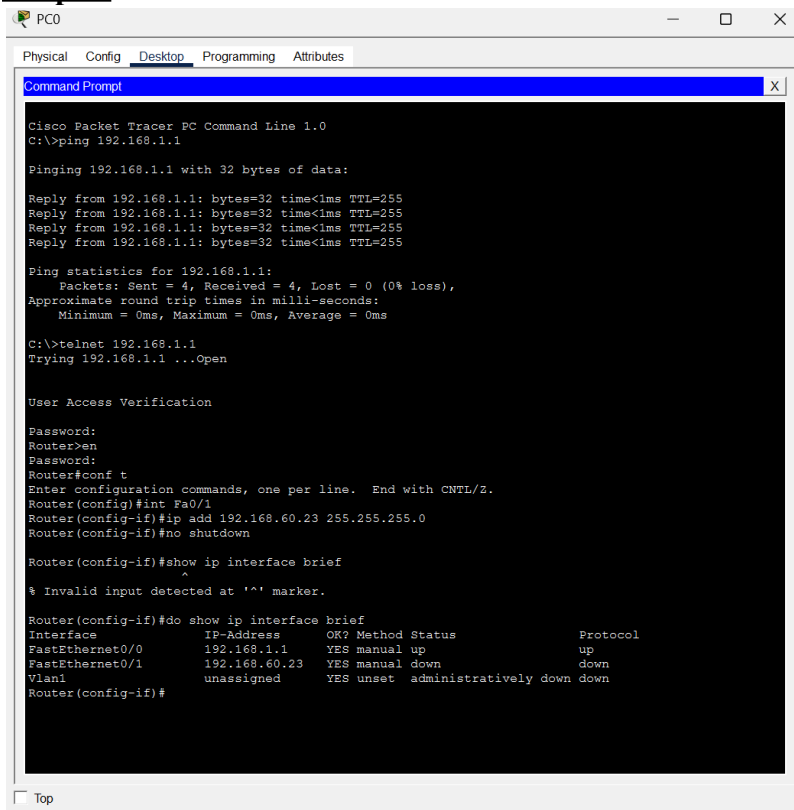
R1(config)# interface Fa0/1

R1(config-if)# ip address 192.168.1.4 255.255.255.0

R1(config-if)# exit

R1# show ip interface brief

Output:



```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.1

Pinging 192.168.1.1 with 32 bytes of data:

Reply from 192.168.1.1: bytes=32 time<1ms TTL=255
Reply from 192.168.1.1: bytes=32 time<1ms TTL=255
Reply from 192.168.1.1: bytes=32 time<1ms TTL=255
Reply from 192.168.1.1: bytes=32 time<1ms TTL=255

Ping statistics for 192.168.1.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>telnet 192.168.1.1
Trying 192.168.1.1 ...Open

User Access Verification

Password:
Router>en
Password:
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int Fa0/1
Router(config-if)#ip add 192.168.60.23 255.255.255.0
Router(config-if)#no shutdown

Router(config-if)#show ip interface brief
^
% Invalid input detected at '^' marker.

Router(config-if)#do show ip interface brief
Interface      IP-Address      OK? Method Status      Protocol
FastEthernet0/0 192.168.1.1     YES manual up          up
FastEthernet0/1 192.168.60.23   YES manual down        down
Vlan1          unassigned      YES unset  administratively down down
Router(config-if)#
```

Fig 6.1 – Remote access from PC0 to router