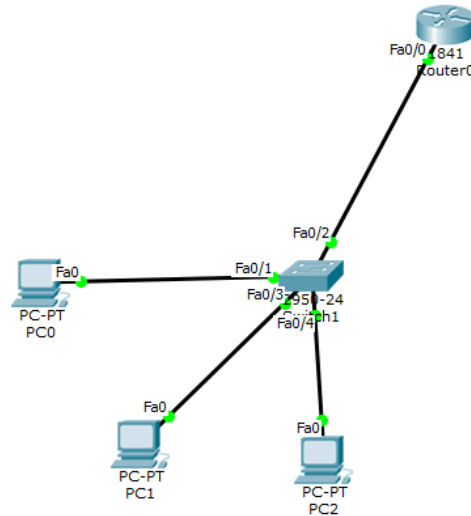# Program – 6:

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)
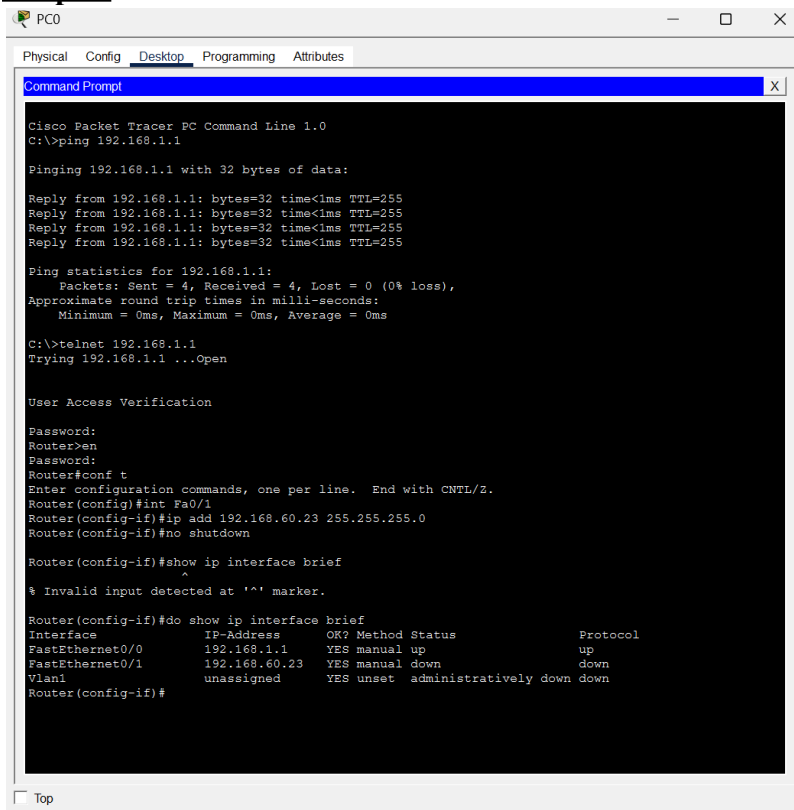R1> enable
Password: cpl
R1# configure terminal
R1(config)# interface Fa0/1
R1(config-if)# ip address 192.168.1.4 255.255.255.0
R1(config-if)# exit
R1# show ip interface brief

Output:

Fig 6.1 – Remote access from PC0 to router