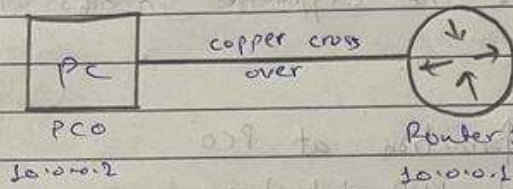Experiment : 11

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

Topology:

PC ——— copper cross over ——— (Router)

PCO   Router 1
10.0.0.2   10.0.0.1

Procedure:

1) Configure topology as above. Use copper cross over wire to connect both configure IP address and gateway and the router generally.

2) In Router CLI

Router > enable
Router # config t
Router (config) # hostname r1
r1 (config) # enable secret p1
r1 (config) # interface fastethernet 0/0
r1 (config) # ip address 10-0-0.1 255.0.0.0
r1 (config-if) # no shut
r1 (config-if) # line rty 0 5
r1 (config-line) # login.
% login disabled on line 132, until 'password is set.
% login disabled on line 133, until 'password is set.
% login disabled on line 134, until 'password is set.
% login disabled on line 135, until until' password is set
% login disabled on line 136, until 'password is set
% login disabled on line 137, until' password is set

r1 (configure-line) # password po
r1 (configure-line) # exit
r1 # wt
Building configuration---..

Result (In Pco)
P <> ping 10.0.0.1

Pinging 10.0.0.1 with 32 bytes of data

Reply from 10.0.0.1: bytes= 32 time= 21 ms TTL= 255
Reply from 10.0.0.1: bytes =32 time = 13 ms TTL=255
Reply from 10.0.0.1: bytes = 32 time = 6ms TTL=255
Reply from 10.0.0.1: bytes= 32 time= 0ms TTL=255.

Ping statistics from 10.0.0.1
  Packets: Sent =4, Received =4, lost = 0
Approximate roundtrip time in milliseconds:
  Minimum = 6ms, Maximum = 21ms, Average= 12ms.

PC> telnet 10.0.0.1
Trying 10.0.0.1 open
User access verification.
Password: (Typed po)
r1 >enable
Password   (Typed p1)
r1 # show ip route
Code:
gateway of last resort is not set
  C   10.0.0.0/8 is directly connected fastethernet 0/0

Observation

1) TELNET is used by terminal emulation programs that allow you to log into a remote host.

2) We logged into 10.0.0.1 IP device through 10.0.0.2 IP device.

3) The password typed is not visible.