Pratical - 10a

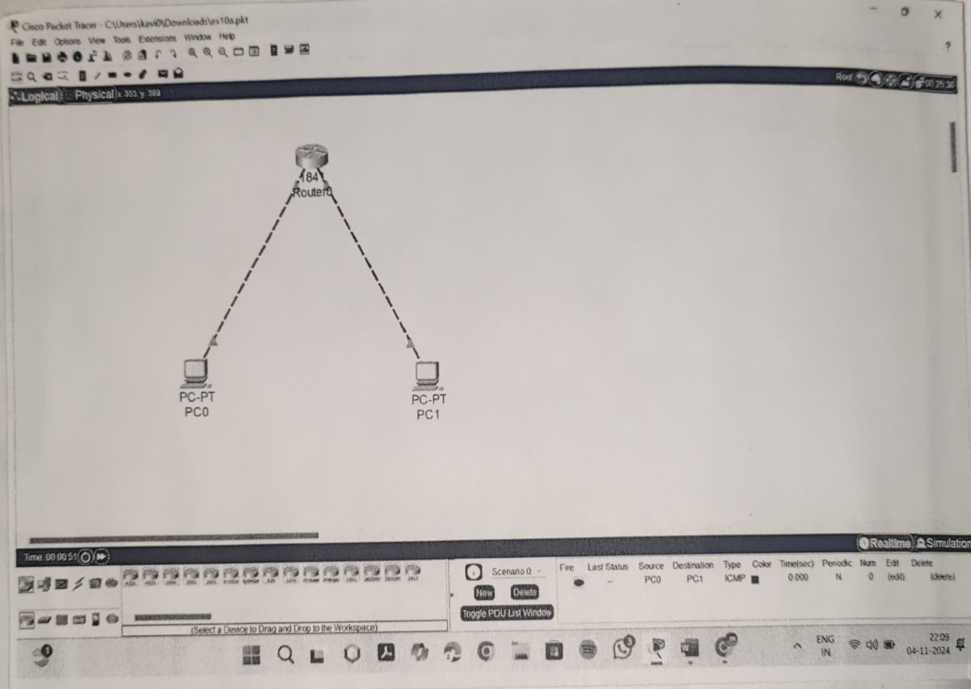## AIM:-

a] Internetworking with routers in CISCO PACKET TRACER simulator.

b] Design and configure a simple Internetwork using a router.

In this network a network 2PC are used computers are connected with routers using copper straight through cable. After forming the network to check network connectivity a simple PDU from PC0 to PC1.

Procedure:

Step-1 (Configuring Router1):-

1. Select the router and open CLI

2. Press Enter to start configuring Router1

3. Type enable to activate the privileged mode.

Router 1 Command Line Interface :-

Router > enable
Router # config !
Enter configuration commands, one perline.
Router (config) # interface Fast Ethernet 0/0
Router (config-if) # ih address 192.168.10.1   255.255.255.0
Router (config-if) # no shut down
Router (config-if) # .

Step-2 (Configuring PCs) :-

1] Assign IP Address for PCs
2] Select An PC and set IP address, Default gateway,
Subnet Mask.
3] Assign the Default gateway PC0 as 192.168.10.1
4] Assign the Default gateway PC1 as 192.168.20.1

Step-3 (Connecting PCs with Router) :-

1] Connect Fast Ethernet 0 port of PC0 with
Fast Ethernet 0/0 port of Router 1 using a
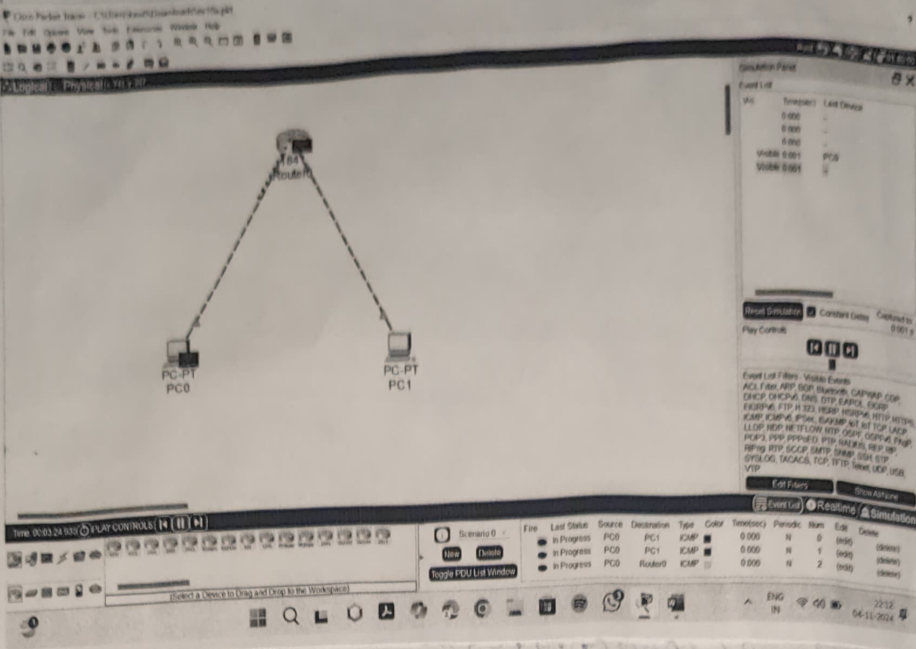copper straight through cable.
2] Same for Fast Ethernet 0.

Router configuration Table :-

Device name	IP address Fast Ethernet 0/0	Subnet Mask	IP Address Fast Ethernet 0/0	Subnet Mask
Router 1	192.168.10.1	255.255.255.0	192.168.20.1	255.255.255.0

PC configuration Table :-

Device name	IP address	Subnet Mask	Gateway
PC0	192.168.10.2	255.255.255.0	192.168.10.1
PC1	192.168.20.2	255.255.255.0	192.168.20.1

Result:

Thus, Internetworking with routers in CISO simulator is executed.