Name - Anustha chhetri
Course - MCA
Section - C
University roll no - 2001037
Subject name - Computer Networks.
Subject code - 202

Q1. Problem statement :- There is an organization A with
multiple departments. Design a network
for the HR deparement and size of the department.
is 10 users. Also show the communication between
user number 1 and user number 5 of the network,

objective description :- We need to create a virtual.
LAN environment in Cisco packet
Tracer that will show communication between
2 users.

Steps. For creating a LAN environment.

Step1 :- open packet Tracer and go the bottom left side of
packet tracer window and then click on END devices
and select icon of PC then and drag and drop 10 Pcs.

Step 2 : Again go to the corner & click on network
devices and then add 2950-24 switch at the
centre of 10PCs.

Step3 : Now configure the IP address of all PCs.
click on PC a window will appear click on config
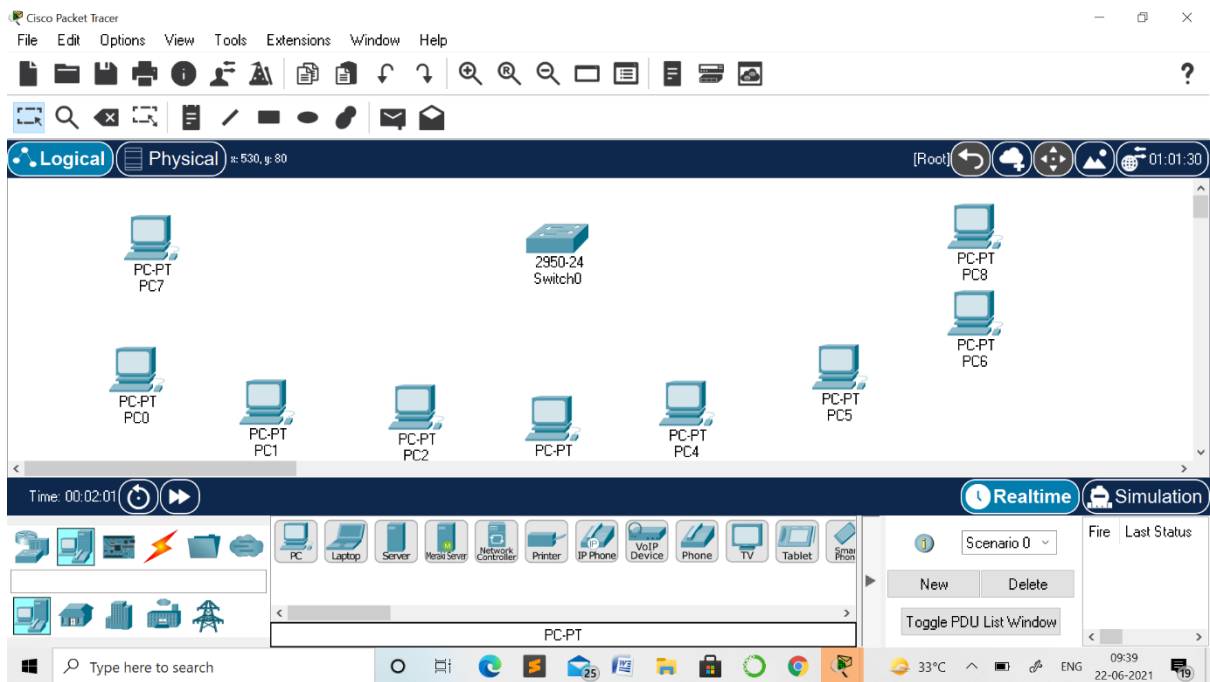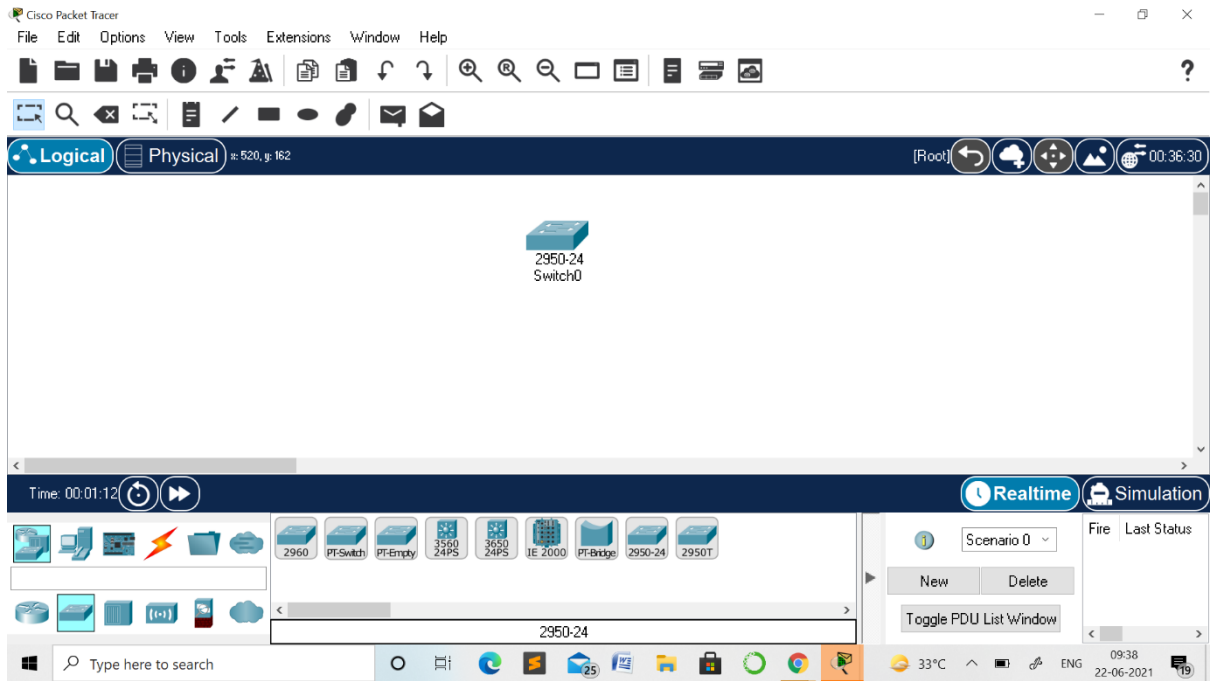and then fast Ethernet 0. set the IP address.

Step5 :- Our ~~steps~~ Systems are connected by switch. and we have configured both PC with IP address.

We can check Connection between PC's using ping command by providing IP addresses of another PC which we want to check.
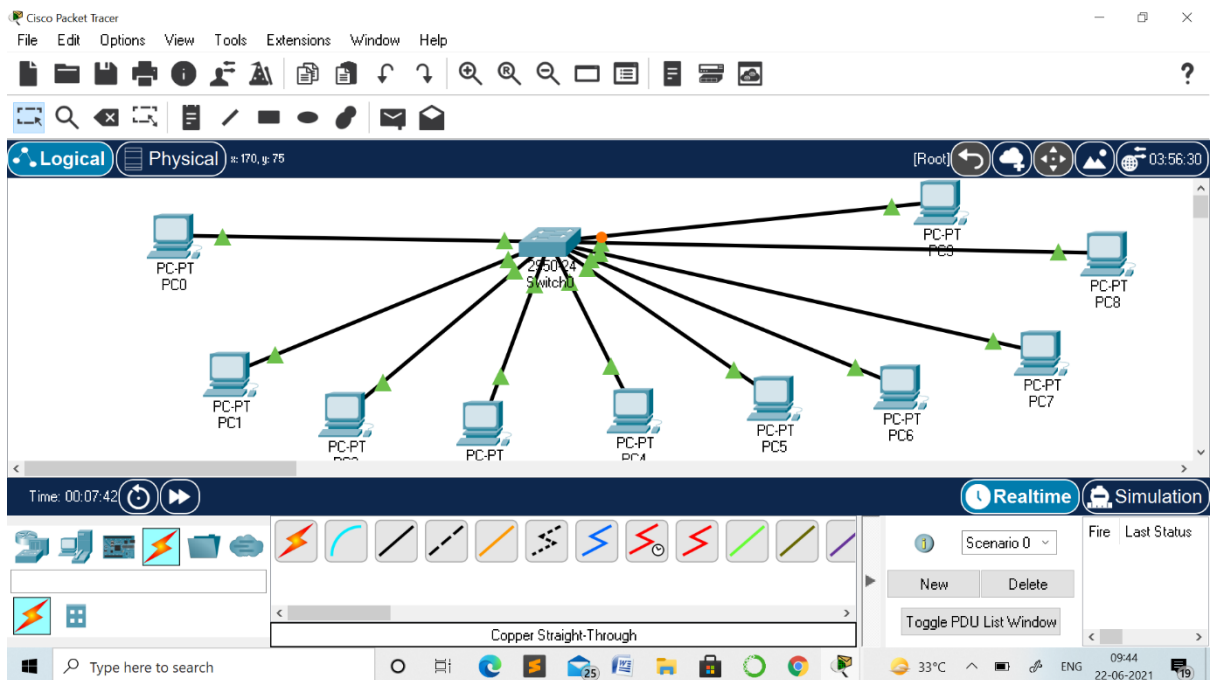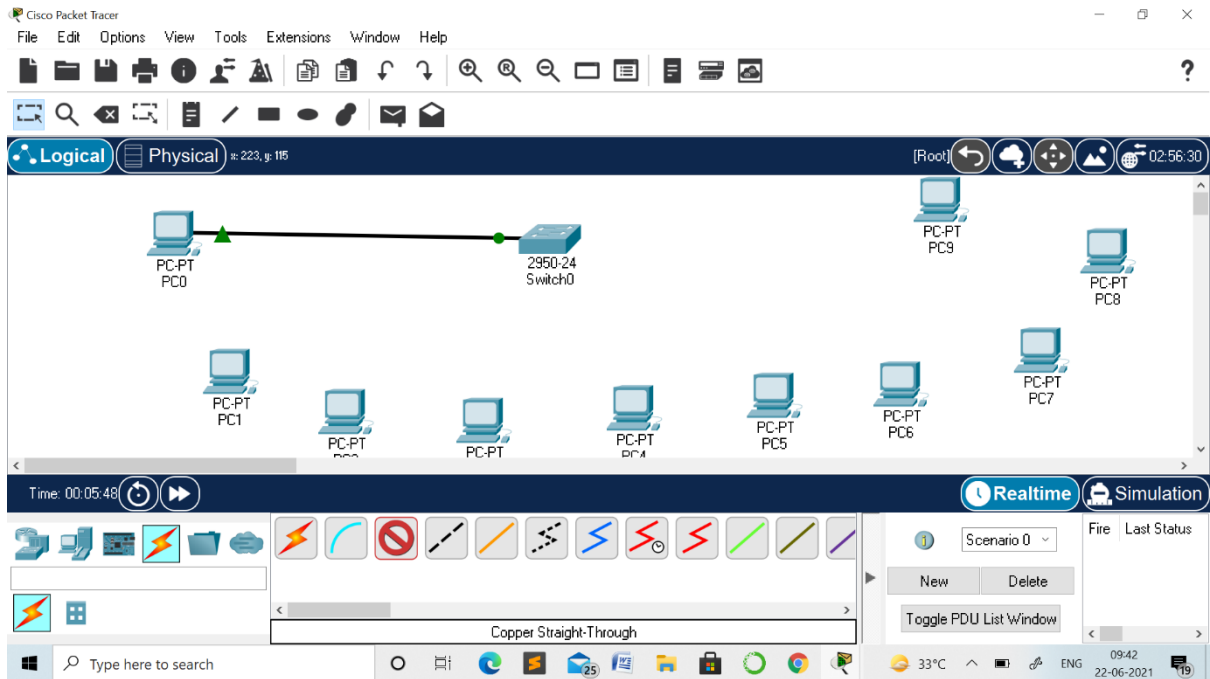
Step6 :- To check the Connection between b/w user 01 & the 05 click on PC0 and go to Desktop tab. Select command propmt Type.
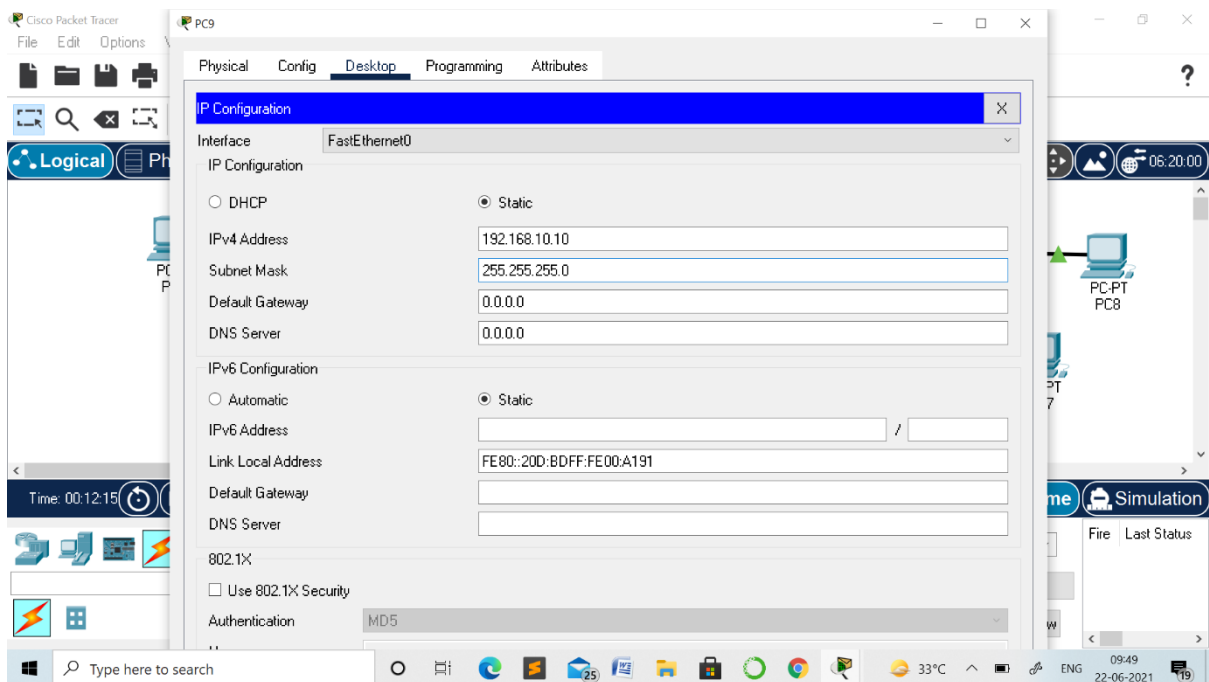
Ping < IP address of PC4 >
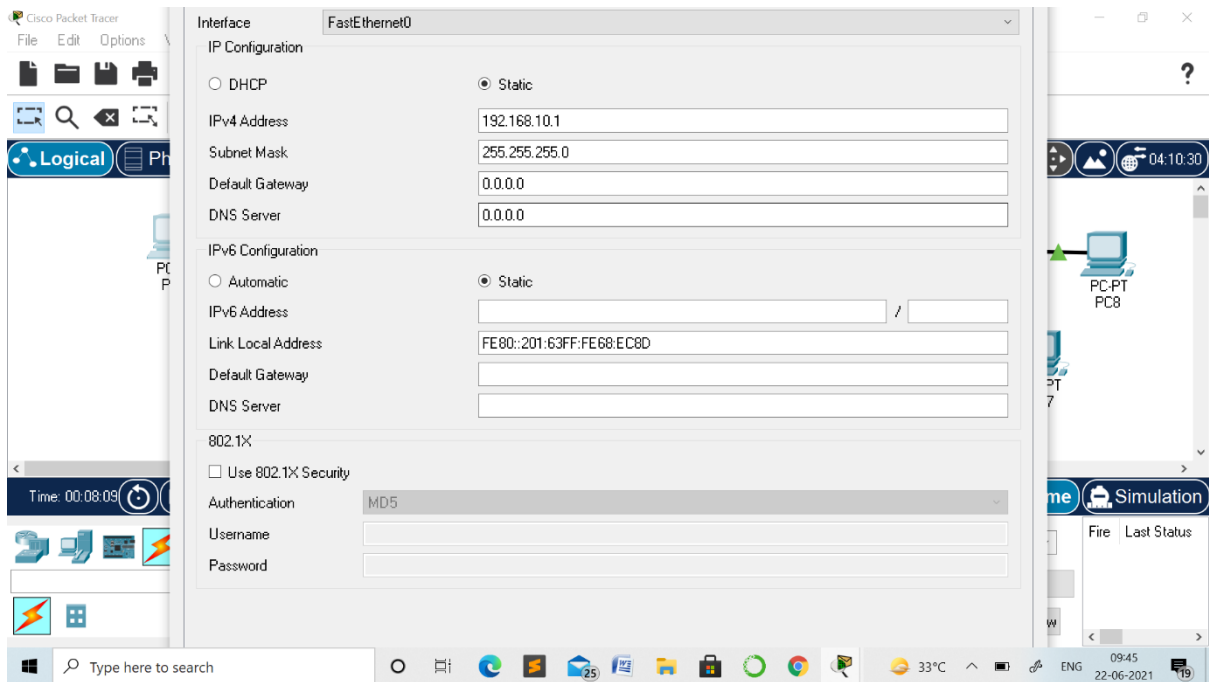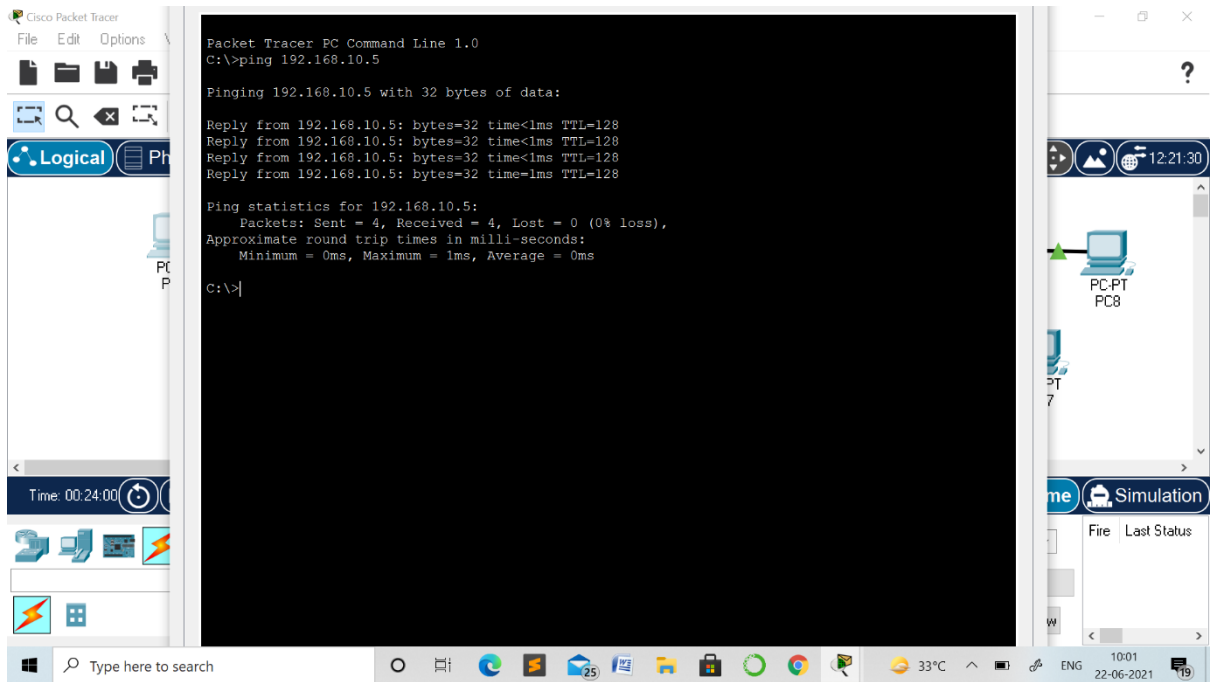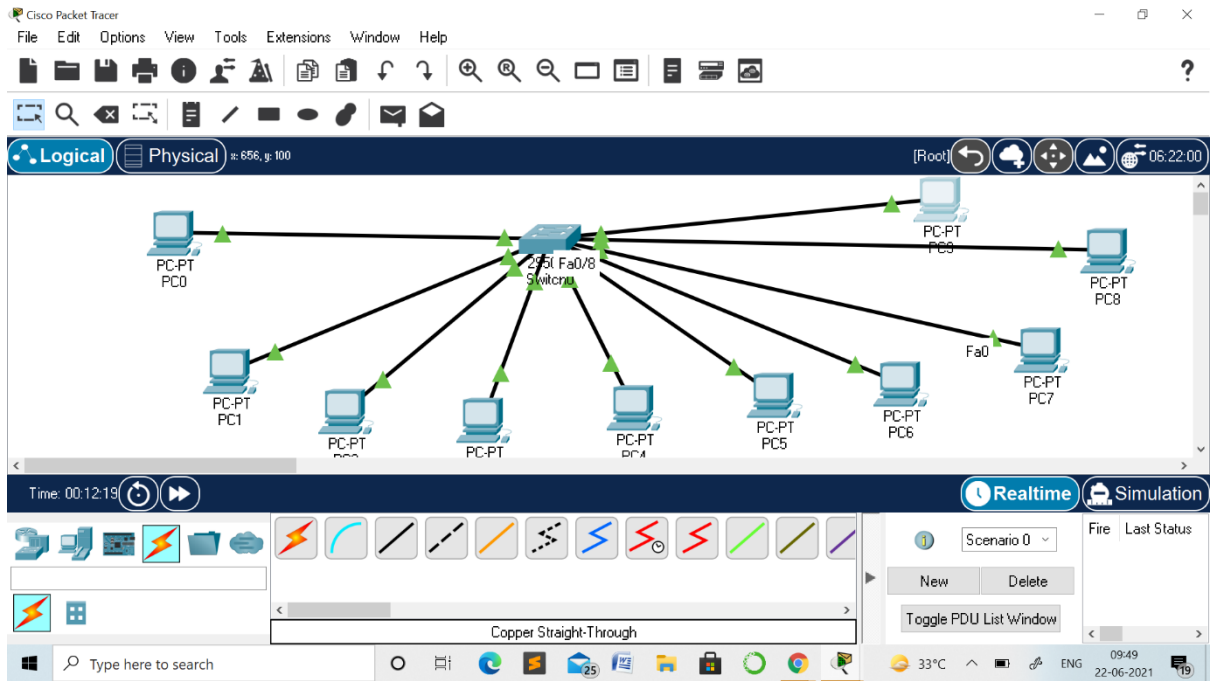
If Success it will return information about transimission of command prompt.

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Screenshot 1 — PC IP Configuration

Field	Value
Interface	FastEthernet0

IP Configuration

- ○ DHCP
- ● Static

Field	Value
IPv4 Address	192.168.10.1
Subnet Mask	255.255.255.0
Default Gateway	0.0.0.0
DNS Server	0.0.0.0

IPv6 Configuration

- ○ Automatic
- ● Static

Field	Value
IPv6 Address	/
Link Local Address	FE80::201:63FF:FE68:EC8D
Default Gateway	
DNS Server	

802.1X

- ☐ Use 802.1X Security

Field	Value
Authentication	MD5
Username	
Password	

Time: 00:08:09

33°C ENG 09:45 22-06-2021

Screenshot 2 — PC9 Desktop IP Configuration

PC9 — Physical | Config | Desktop | Programming | Attributes

IP Configuration

Field	Value
Interface	FastEthernet0

IP Configuration

- ○ DHCP
- ● Static

Field	Value
IPv4 Address	192.168.10.10
Subnet Mask	255.255.255.0
Default Gateway	0.0.0.0
DNS Server	0.0.0.0

IPv6 Configuration

- ○ Automatic
- ● Static

Field	Value
IPv6 Address	/
Link Local Address	FE80::20D:BDFF:FE00:A191
Default Gateway	
DNS Server	

802.1X

- ☐ Use 802.1X Security

Field	Value
Authentication	MD5

Time: 00:12:15

33°C ENG 09:49 22-06-2021

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Q2. Problem statement :- There are two organization
in a city named GEU and GEHU design.
a network between the SOC department of GEU and.
GEHU. Also show the communication between user
number 1 of GEU and user number 2 of GEHU,

Steps to perform :-

object Description:- We will create a Virtual LAN
environment in Cisco packet Tracer.
that will connect 2 user of different departments
and connection will be established.

Step1 :- Drag and drop 2 PC on the Screen. Add a.
2950-24 switch on the Screen. Join the 2 PCs to.
the switch using copper straight through cable.

Step 2: Again drag and drop 2 PCs on the other.
Side of the Screen. Drop a 2950-24 switch.
on the Screen and Join the two PC.

Step 3 :- configure the IP address of all the PC's.
by clicking on each pc and then config tab.
Select the fast Ethernet 0 and. set the new IP
address. Go the Global setting and. set up the

Default Gateway.

Step4 :— Now Drop a 2811 router at the center of
the Connections. connect the two Connections.
Connect the two other LANs to the router using
a Copper Straight through.

Step5 : Configure the Router by clicking on it.
and adding the IP address to fast Ethernet.
0/0 & 0/1 in the config tab.

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