

Name - Himanshu Talukdar

Course - MCA - 2<sup>nd</sup> C

Student ID - 20711191

Q-1 There is an organisation A with multiple ~~ans~~ organisation. Design a network for the HR department and the size of the department is 10 users. Also show the communication between user number 1 and user number 5 of the network

Ans -

Objective - To create a LAN with 10 users.

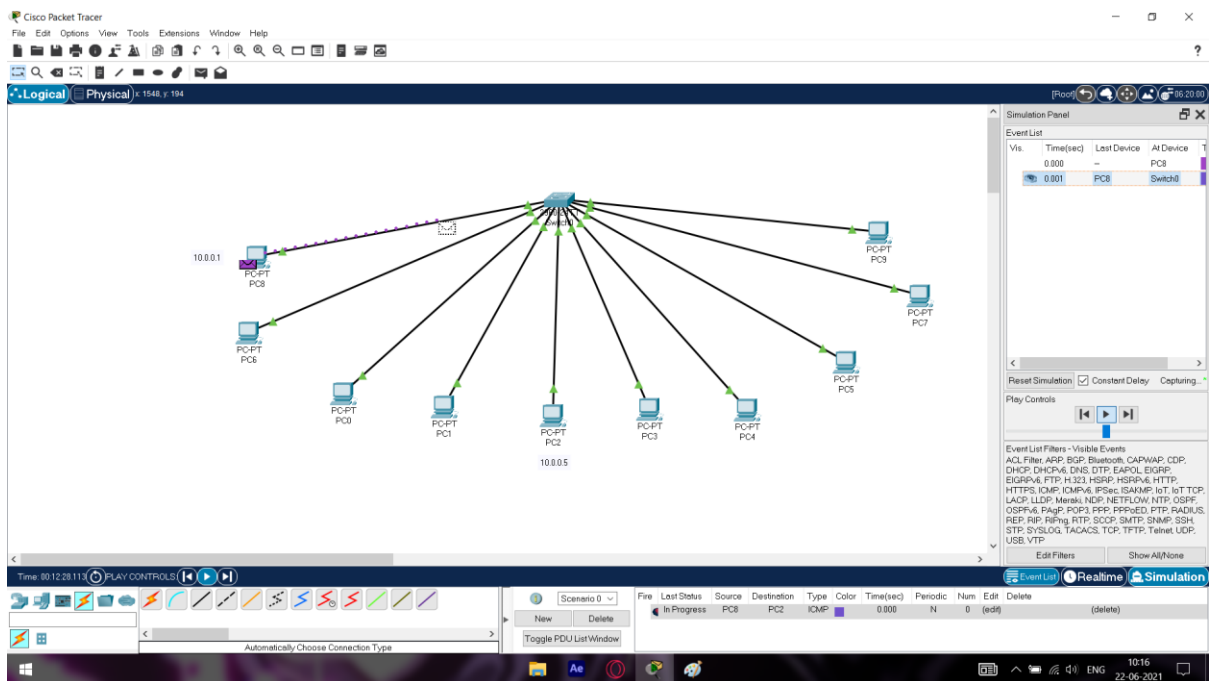
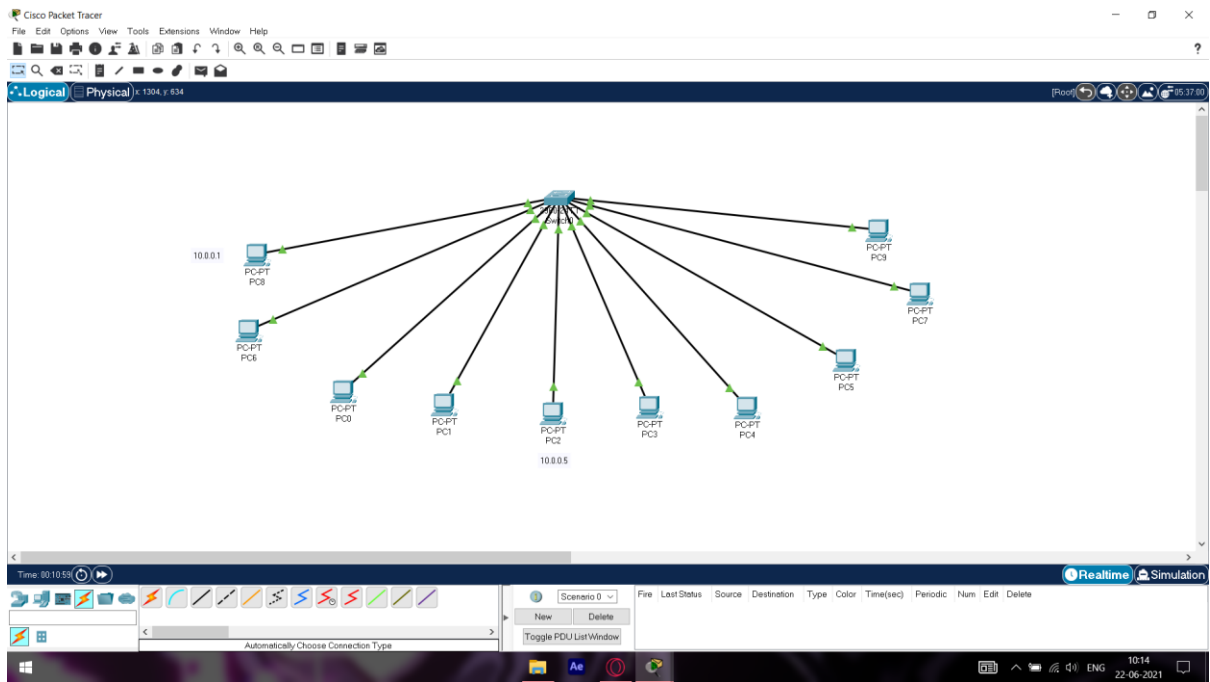
Steps for network creation -

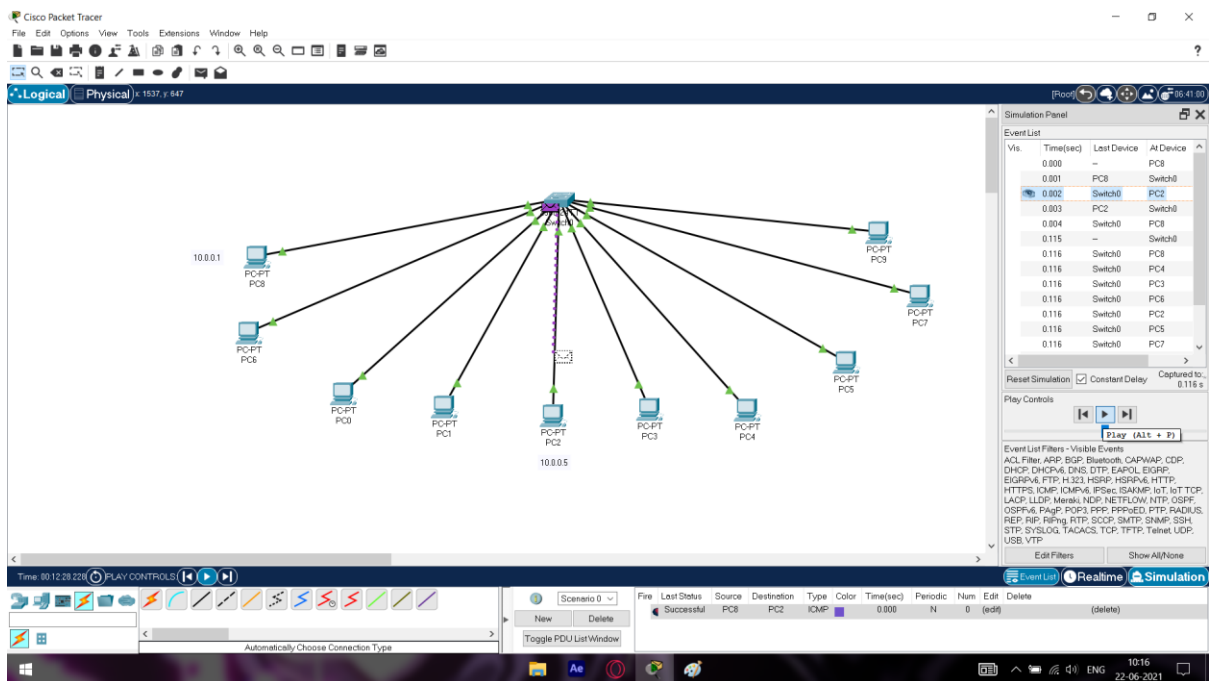
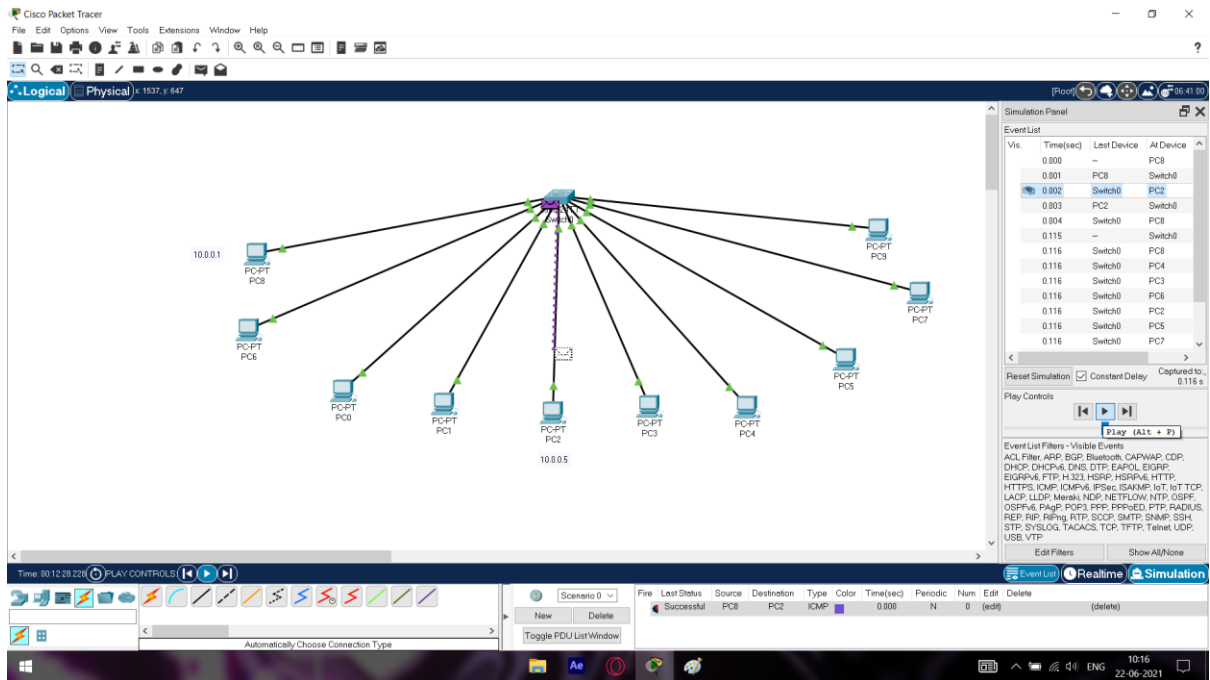
Step 1 - Create a LAN using switch with 10 PCs.

Step 2 - Configure the IP addresses of all 10 users

Step 3 - Use Ping command to check the communication.

Step 4 - Sending PDU to check communication is established.





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Q-2 - There are two organisations 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.

Ans -

Objective - To create multiple LAN named as GEU and GEHU and connect them using router.

Steps for network creation:

Step 1 - Create LAN-1 with 4 PC and create LAN2 with 4 PCs

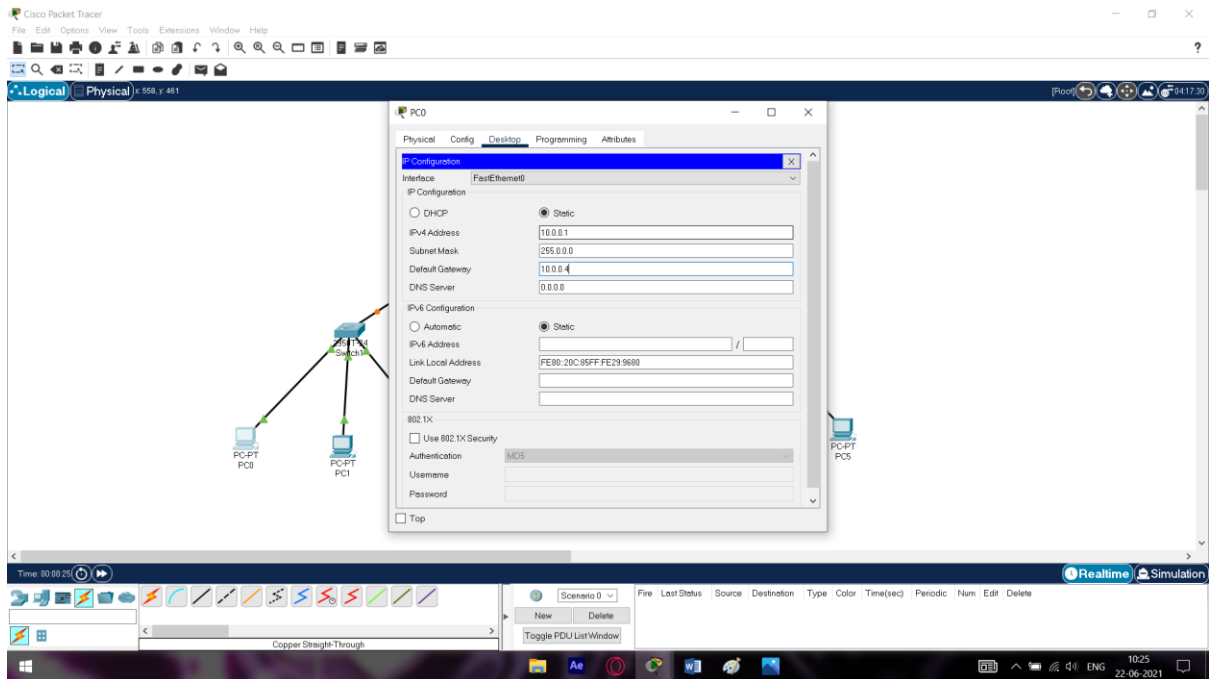
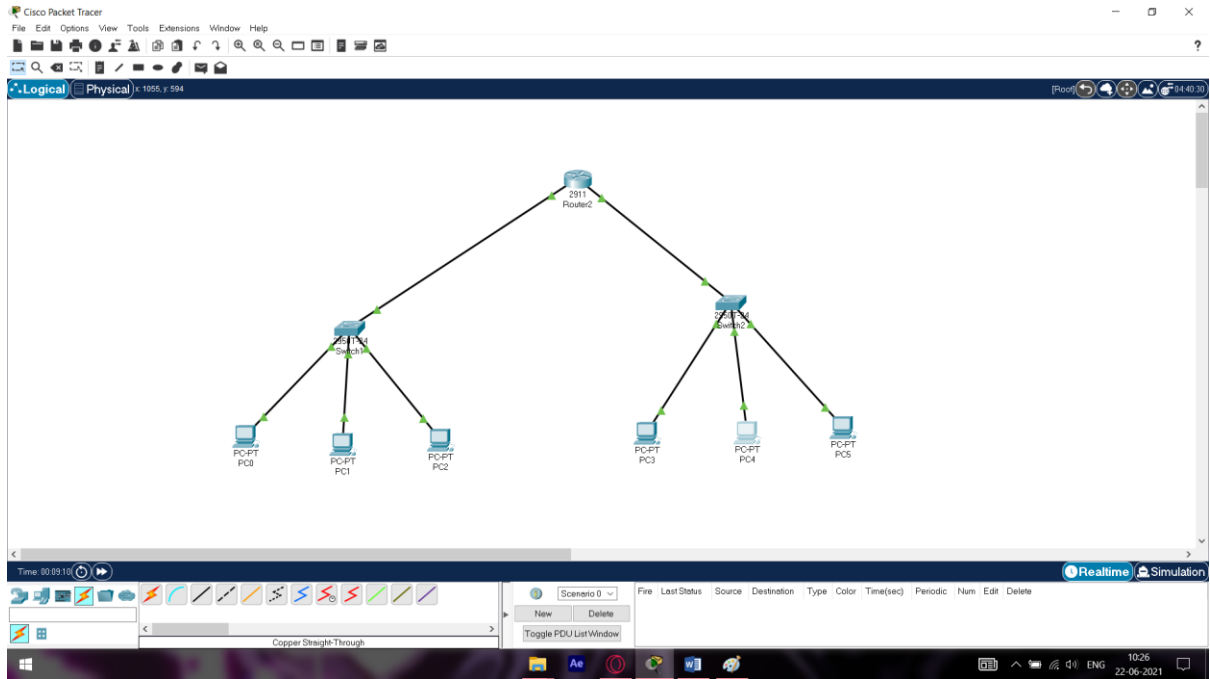
~~Step 2 - Default Gate~~

Step 2 - Connect both LAN with router and configure the router.

Step 3 - Default Gateway for LAN-1 is 10.0.0.5

Default Gateway for LAN-2 is 192.168.1.5

Step 4 - Sending PDU to see if connection is established.



Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical v 1182, r 515

PC4

Physical Config Desktop Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 192.168.1.2

Subnet Mask 255.255.255.0

Default Gateway 192.168.1.5

DNS Server 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address /

Link Local Address FE80:260:2FFF:FEDA:959B

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication ACS

Username

Password

PC-PT PC0

PC-PT PC1

PC-PT PC5

Time: 00:00:51

Scenario 0

New Delete

Toggle PDU List Window

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete

Copper Straight-Through

10:26 22-06-2021

