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Course → MCA 2<sup>nd</sup> (B)  
Roll No → 20711078  
Subject → Computer Networks (TMC 203)

Quest There is an org A with multiple department.  
Design a network for the HR department & the size of the department is 10 users. Also, show the communication between user number 1 & user number 5 of the network.

Ans Objective → Understanding of LAN network.

Description → How to add conn<sup>n</sup> between different computer and other devices in the same network.

Steps → Go to [End device] which is located at left bottom or use ctrl + alt + v to open after that right side new option will appear & drag & drop 10 pc to working area. & one switch become the stop. Switch will helps to establish LAN connections b/w users/pc.

Step 2 → Connect them with copper straight & give different fast ethernet conn<sup>n</sup>.

Step 3 → give all user/pc ip addresses & subnet mask by manually.

Steph → In the last we have to test the  
conn. by ping command. Open command  
prompt by clicking on one pc / user then go to desktop  
& enter ping command with IP address of 5<sup>th</sup>  
user / pc

LogicalPhysical1328 x 431

[Root]

```
graph TD; Switch[hr department of A Switch0] --- PC0[PC-PT PC0]; Switch --- PC1[PC-PT PC1]; Switch --- PC2[PC-PT PC2]; Switch --- PC3[PC-PT PC3]; Switch --- PC4[PC-PT PC4]; Switch --- PC5[PC-PT PC5]; Switch --- PC6[PC-PT PC6]; Switch --- PC7[PC-PT PC7]; Switch --- PC8[PC-PT PC8]; Switch --- PC9[PC-PT PC9];
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Simulation Panel

Event List

Vis.	Time(sec)	Last Device	A
<input checked="" type="checkbox"/>	0.000	--	P

Reset Simulation ☒ Constant Delay C

Play Controls

Event List Filters - Visible Events

ACL Filter, ARP, BGP, Bluetooth, CAPWAP, DHCP, DHCPv6, DNS, DTP, EAPOL, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPSec, ISAKMP, IoT, TCP, LACP, LLDP, Meraki, NDP, NETFLOW, OSPF, OSPFv6, PAgP, POP3, PPP, PPPoE, RADIUS, REP, RIP, RIPv2, RTP, SCCP, SI, SNMP, SSH, STP, SYSLOG, TACACS, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All

Time: 00:07:22.747

PLAY CONTROLS

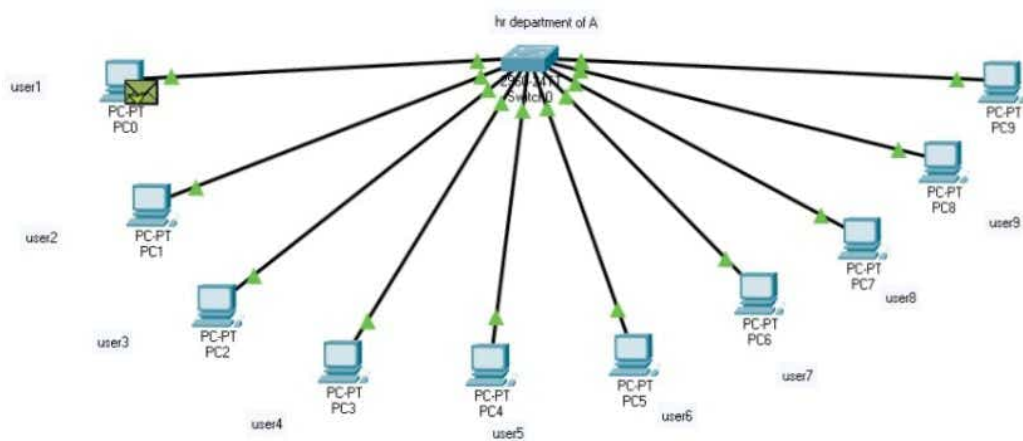
Scenario 0

New Delete

Toggle PDU List Window

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

In Progress		PC0	PC4	ICMP		0.000	N	0
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Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device
	0.001	PC0	Switch0
	0.002	Switch0	PC4
	0.003	PC4	Switch0
	0.004	Switch0	PC0

Reset Simulation ☒ Constant Delay Captured 0.004

Play Controls

Event List Filters - Visible Events

ACL Filter, ARP, BGP, Bluetooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, DTP, EAPOL, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPSec, ISAKMP, IoT, IoT, TCP, LACP, LLDP, Meraki, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, PPP, PPPoE, PTP, RADIUS, REP, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All/None

Time: 00:07:36.315 PLAY CONTROLS

Scenario 0

New Delete

Toggle PDU List Window

Automatically Choose Connection Type

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit
	Successful	PC0	PC4	ICMP		0.000	N	0	[edit]