

NAME - PRABHAT SINGH

Subject name - Computer networks

Roll No - 2001103

Subject code - TMC 203

Student ID - 20561003

Section - A

Question-1

PROBLEM STATEMENT:- There is an organization A with multiple departments. Design a network for HR department and the size of department is 10 users. Also show the Communication of user 3 and user 5 of the network.

Objective:- To understand how to create a wired LAN using a switch in Packet Tracer.

Description:-

LAN:- LAN is a Local Area network that interconnect computers within a limited area such as an organization, school, club, university campus or office building.

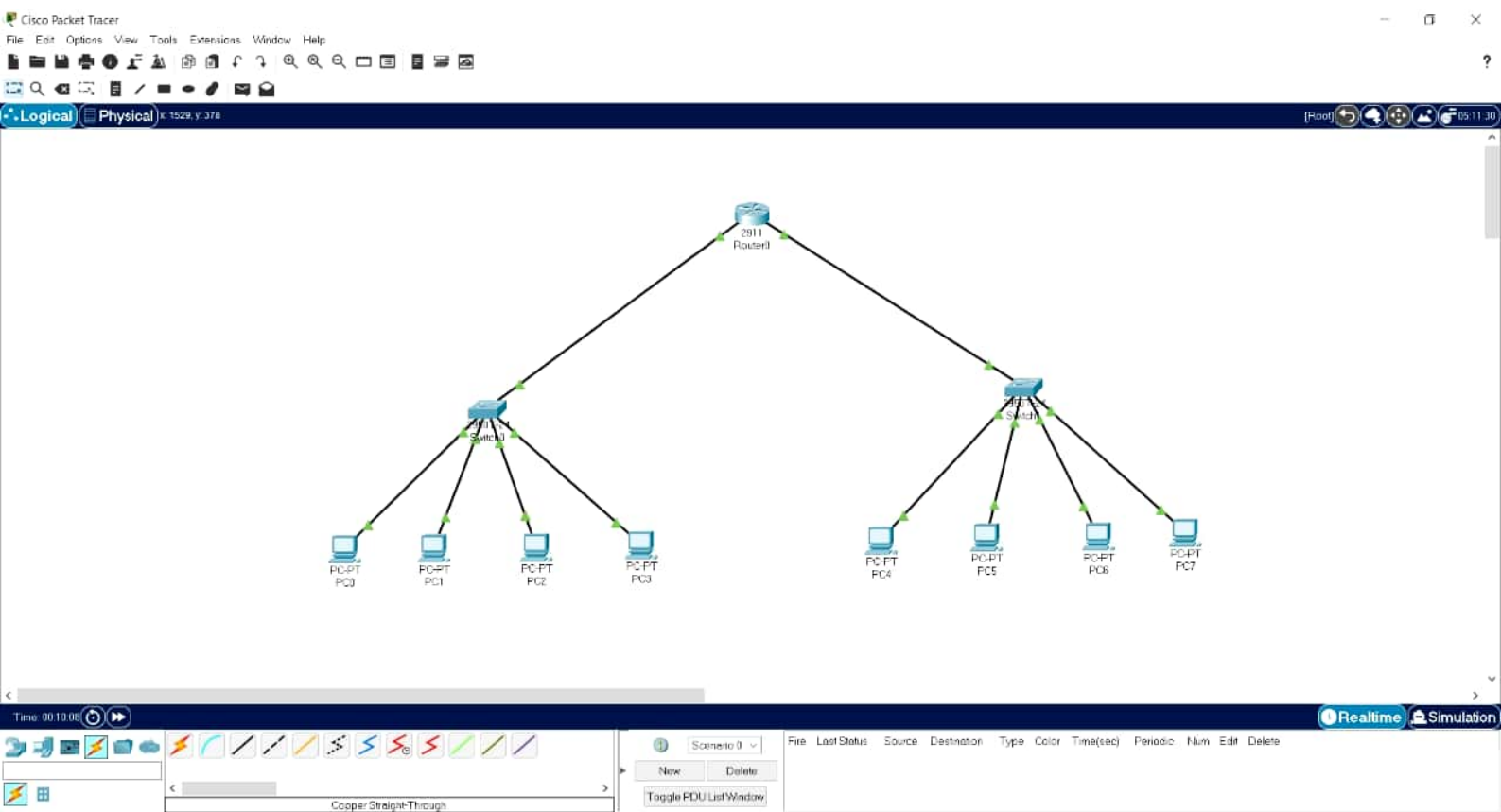
STEP 1: Network Design.

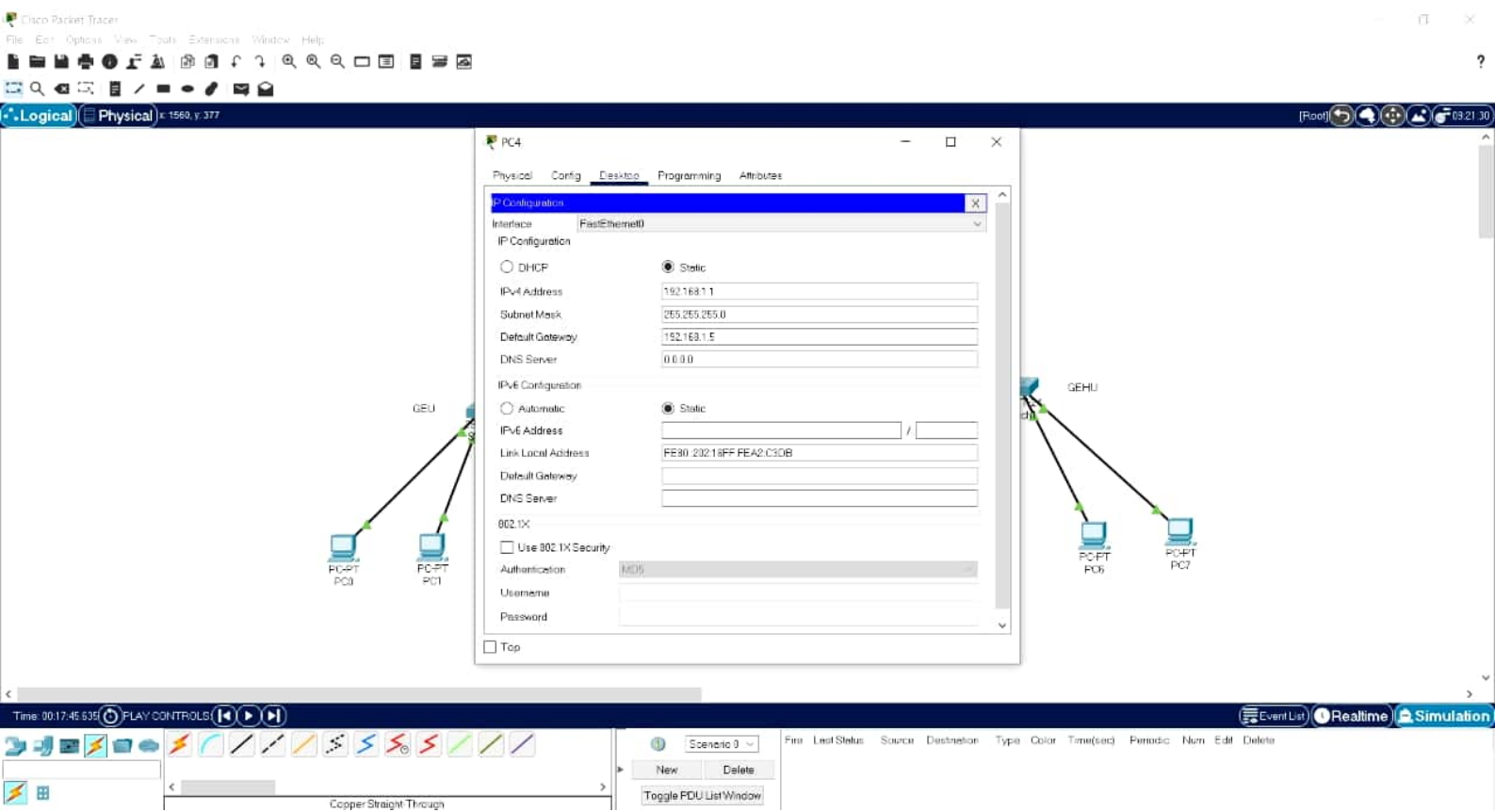
STEP 1: IP Configuration.

Setting the IP address for PC's

STEP 2: Connectivity.

Using the ping command to check the connectivity.





Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical 1549, y: 371

[Root]

2911 Router

GEU

GEU

PC-PT PC0

PC-PT PC1

PC-PT PC2

PC-PT PC3

PC-PT PC4

PC-PT PC5

PC-PT PC6

PC-PT PC7

Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device	T
	0.000	-	PC0	
	0.001	PC0	Switch0	
	0.002	Switch0	Router0	
	0.003	Router0	Switch1	
	0.004	Switch1	PC5	
	0.005	PC5	Switch1	
	0.006	Switch1	Router0	
	0.007	Router0	Switch0	
	0.008	Switch0	PC0	
	0.009	-	Switch1	

Reset Simulation ☒ Constant Delay Captured to: 0.381 s

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, Mangle, NTP, NETFLOW, NTP, OSPF, OSPFv3, PAgP, POP3, PPP, PPPoE, PTP, RADIUS, REP, RIP, RIPng, RTP, SOAP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All/None

Time: 00:17:46.016 PLAY CONTROLS

Scenario 0

New Delete

Toggle PDU List Window

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	PC0	PC5	ICMP		0.000	N	0	(edit)	(delete)