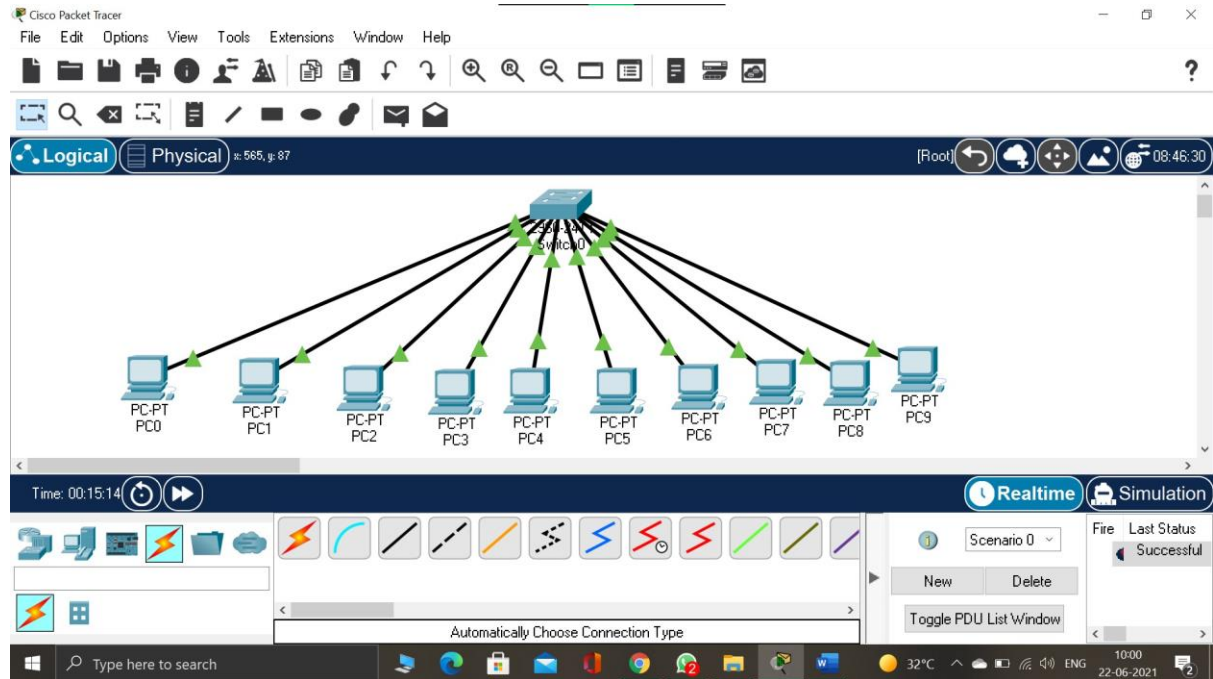


1.



ex ③ Network between HR dept 2 to user of the department.

→ Steps:-

So we will take 2 routers as R1 and R2 connected to switches via automatically connection wire.

each switch is connected to 5 PC's (PC0-PC4) and also via automatic connection wire.

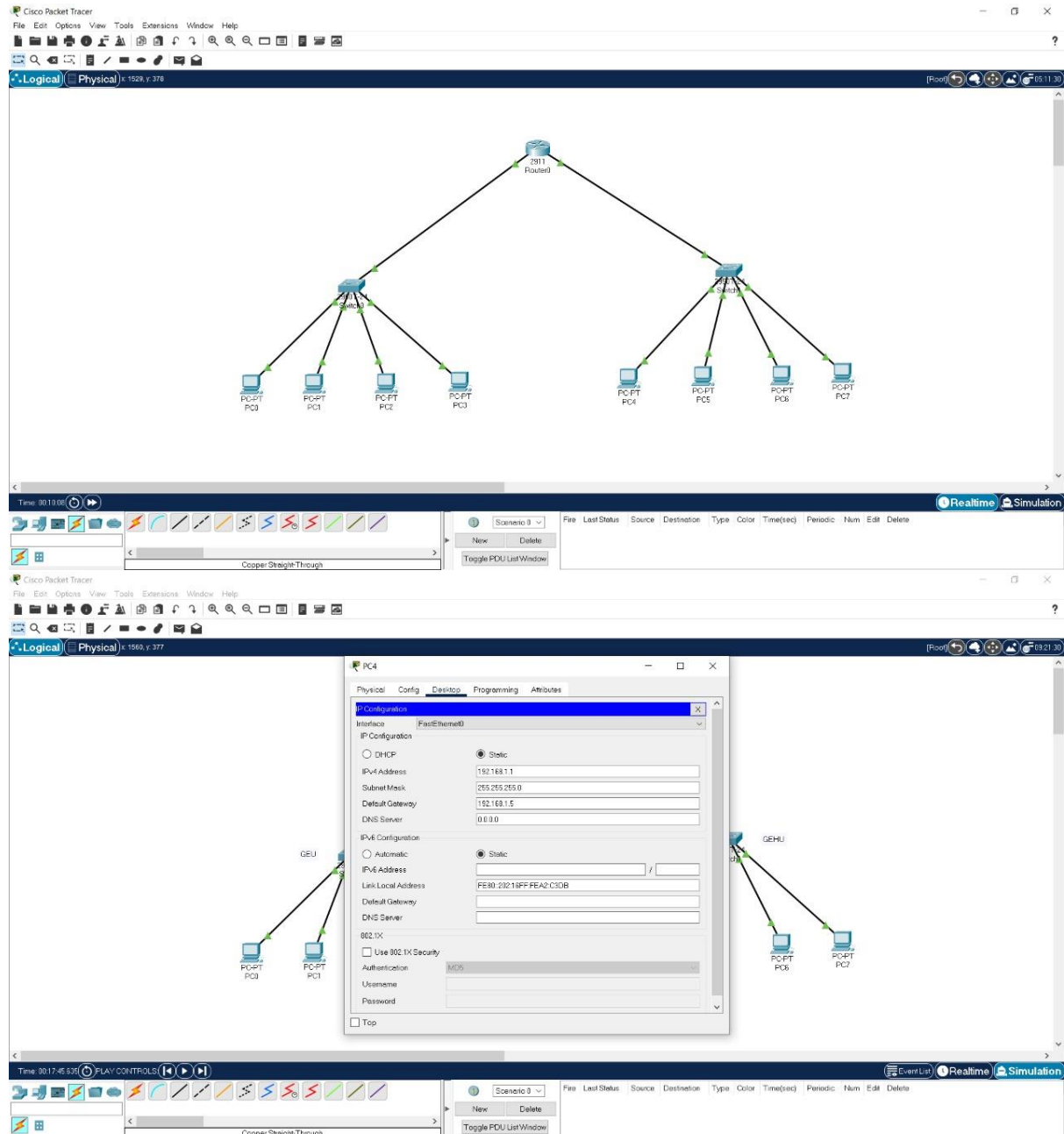
we will set IP address of all PC's and will go to Router and follow these steps:-

turn off > place WIC-1T in physical service's view > and then turn on.

this will established the connection from router to switches.

Now we have to check connection so we will send message from user 1 to user 2,3,4 -- so on. if the PDU window shows connected that means connection is established and network is build.

2.



Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical x: 539, y: 494

PC0

Physical Config Desktop Programming Attributes

IP Configuration

Interface: FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address: 10.0.0.1

Subnet Mask: 255.0.0.0

Default Gateway: 10.0.0.5

DNS Server: 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address: /

Link Local Address: FE80::2E0:A3FF:FE11:85AE

Default Gateway:

DNS Server:

802.1X

☐ Use 802.1X Security

Authentication

Username:

Password:

☐ Top

GEU

PC0-PT PC1

PC0-PT PC6

PC0-PT PC7

Time: 00:17:35.535

PLAY CONTROLS

Scenario 0

New Delete

Toggle PDU List Window

Copper Straight Through

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical x: 1549, y: 371

Simulation Panel

Event List

Time(sec)	Last Device	At Device	Type
0.000	PC0	Switch6	ICMP
0.001	PC0	Router0	ICMP
0.002	Switch6	Router0	ICMP
0.003	Router0	Switch1	ICMP
0.004	Switch1	PC5	ICMP
0.005	PC5	Switch1	ICMP
0.006	Switch1	Router0	ICMP
0.007	Router0	Switch6	ICMP
0.008	Switch6	PC0	ICMP
0.009	PC0	Switch1	ICMP

Reset Simulation ☒ Constant Delay Captured to: 0.181 s

Play Controls

Event List Filters - Visible Events

ACL Filter, ARP, BGP, Bluetooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, DTP, EAPOL, EIGRP, FTP, FTPv6, HTTP, HTTPv6, HTTPS, ICMP, ICMPv6, IPsec, ISAKMP, IoT, IoT TCP, LACP, LLDP, Mangle, NTP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, PPP, POP3v6, PTP, RADIUS, REP, RIP, RIPng, RTP, SCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All/None

Time: 00:17:46.018

PLAY CONTROLS

Scenario 0

New Delete

Toggle PDU List Window

Copper Straight Through

Simulation

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

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

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical x: 1398, y: 707

Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device	T
-	0.000	-	PC3	
-	0.001	PC3	Switch6	

Reset Simulation ☒ Constant Delay Capturing

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, Maview, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgg, 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: 00:17:45.535 PLAY CONTROLS

Scenario 0

New Delete

Toggle PDU List Window

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

In Progress PC3 PCS ICMP 0.000 N 0 (edit) (delete)

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical x: 1553, y: 600

Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device	T
-	0.000	-	PC3	
-	0.001	PC3	Switch6	
-	0.002	Switch6	Router0	
-	0.003	Router0	Switch1	
-	0.004	Switch1	PC5	
-	0.005	PC5	Switch1	
-	0.006	Switch1	Router0	
-	0.007	Router0	Switch6	
-	0.008	Switch6	PC3	
-	0.381	-	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, Maview, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgg, 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: 00:17:46.918 PLAY CONTROLS

Scenario 0

New Delete

Toggle PDU List Window

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

Successful PC3 PCS ICMP 0.000 N 0 (edit) (delete)

Date. _____

Page No. _____

Steps for network creation:

Step 1: create LAN-1 with 4 PC & create LAN-2 with 4 PCs

Step 2: Connect both LAN with router & 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 connections are established