SRM INSTITUTE OF SCIENCE & TECHNOLOGY
(Deemed to be University u/s 3 of UGC Act, 1956)

DEPT. Of Computer Science Engineering

SRM IST, Kattankulathur – 603 203

Sub Code & Name: 18CSS202J – COMPUTER COMMUNICATION

Experiment No	2
Title of Experiment	Connection of multiple IP network using 2 router
Name of the candidate	Roehit Ranganathan
Register Number	RA1911033010017
Date of Experiment	February 12, 2021

Mark Split Up

S.No	Description	Maximum Mark	Mark Obtained
1	Oral Viva / Online Quiz	5	
2	Execution	10	
	Total	**15**	

Staff Signature with date

AIM: Connection of multiple IP network using 2 router.

Procedure:

Step 1: Open cisco packet tracer, create a simple topology with two routers.
Step 2: **Click PC-> Desktop->IP Configuration, assign** Gateway in this case,10.0.0.1
Default Gateway is the IP address configured to the router interface. All unknown destination packets from local area network devices will be forwarded to the default gateway.
Step 3: Click on Fast Ethernet and assign ip address and subnet mask,
In this case ip 10.0.0.10 and subnet mask 255.0.0.0, Now close PC 1 window.
Do like this for all PC's with appropriate ip and subnet mask.
Step 4: Now Click on Router R1, then click on physical and switch off the switch and drag port to its respective position and switch on.
Repeat the process for Router R2 also.
Step 5: Now Click on Router R1, then click on CLI (Command Line Interface).
You will see like this, "Continue with configuration dialog? [yes/no]:". Give "no" and Press enter. Now you will go to user mode,
Step 6: now give "en" and press enter. Now you get into the Privileged Mode, now type "conf t" and press enter to get into global configuration mode.
Step 7: Now configure router interface with ip address and subnet mask then give no shutdown to make this interface and line protocol up(i.e. Carefully configure ip address with proper interfaces in this case f0/0 and f1/0,f is short form of fast Ethernet.
Step 8:at last, give the command of ip route.
Step 9: Now lights on all ports become green from red. Now click on PC1->Desktop->Command prompt.

Router>en

Router#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#int Gig0/0/0

Router(config-if)#ip address 20.0.0.1 255.0.0.0

Router(config-if)#no shut

Router(config-if)#

%LINK-5-CHANGED: Interface GigabitEthernet0/0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0/0, changed state to up

exit

Router(config)#int Se0/1/0

Router(config-if)#ip address 30.0.0.2 255.0.0.0

Router(config-if)#no shut

Router(config-if)#

%LINK-5-CHANGED: Interface Serial0/1/0, changed state to up

exit

Router(config)#

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/1/0, changed state to up

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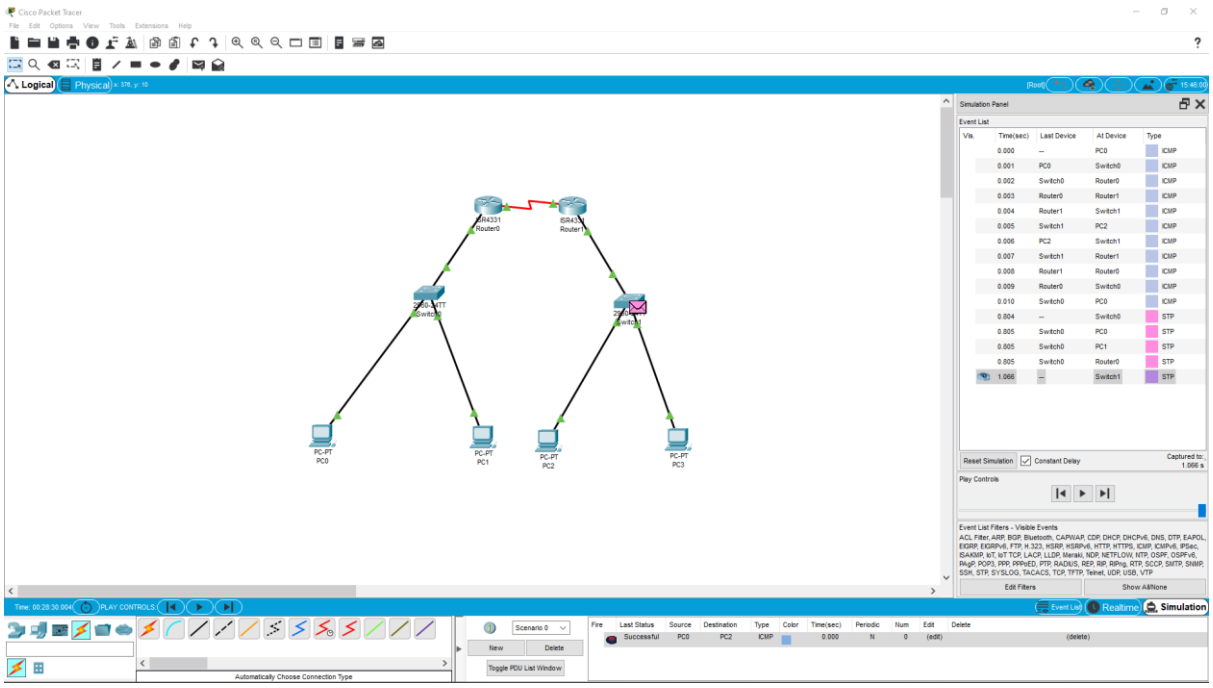

RESULT: Connection was made successfully.