Experiment-5

Connect two or more networks with router using Cisco Packet Tracer.

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Objectives:

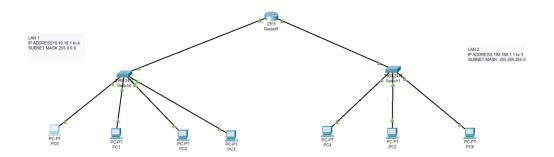
- 1. To learn how to configure router using graphical user interface (GUI) in Packet Tracer.
- 2. To learn how to connect two or more LAN with router using Packet Tracer.

Software Required: Cisco Packet Tracer.

Procedure:

To implement this practical following network topology is required to be configured using GUI. After configuring the given network a packet should be ping from any computer of one network to any computer of another network.

Topology:

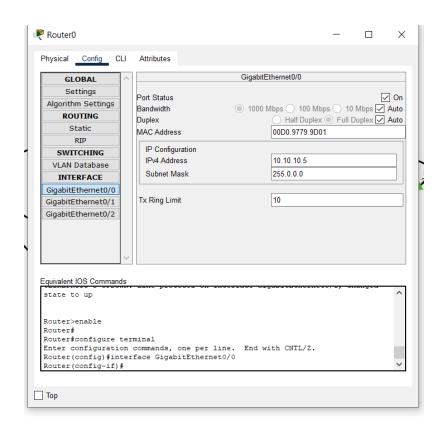


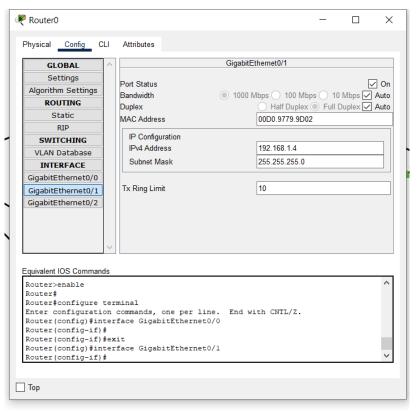
Addressing Table:

Device	Interface	IP CONFIGURATION
Router0	G0/0	IP ADDRESS 10.10.10.5
		SUBNET MASK 255.0.0.0
	G0/1	IP ADDRESS 192.168.1.4
		SUBNET MASK 255.255.255.0
Switch0	LAN1	
Switch1	LAN2	
PC0, PC1, PC2, PC3	NIC	IP ADDRESS 10.10.10.1 to 4
		SUBNET MASK 255.0.0.0
		DEFAULT GATEWAY 10.10.10.5
PC4, PC5, PC6	NIC	IP ADDRESS 192.168.1.1 to 3
		SUBNET MASK 255.255.255.0
		DEFAULT GATEWAY 192.168.1.4

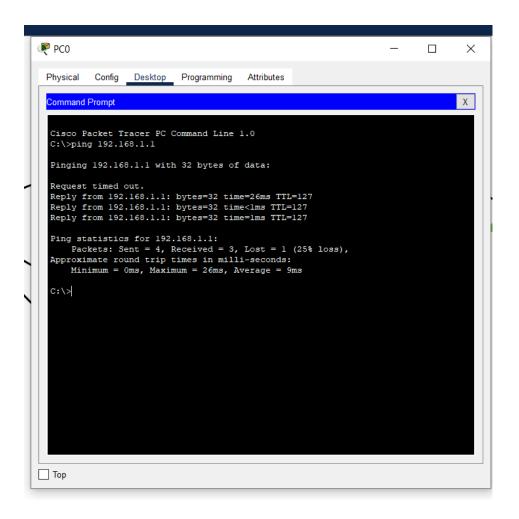
Step 1: Connect all the devices according the topology.

Step 2: Configure addressing for all devices according to the addressing table.

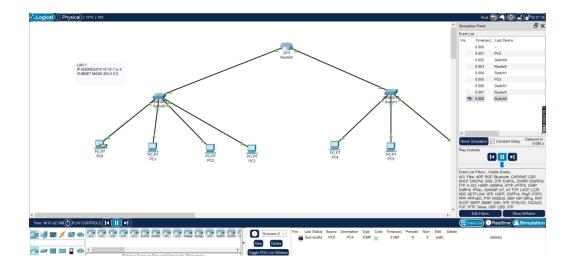




Step 3: Check the connectivity of computers using ping command.



Step 4: Check the connectivity of computers in simulation mode.



Exercise:

- 1. Create three different LANs and connect them with a router.
- 2. Create the addressing table of the network and configure addressing for all devices according to the table.
- 3. Verify the connectivity of computers.