



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Discover. Learn. Empower.

Experiment :7

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Subject Name: Computer Networks

Subject Code: 22CSH-312

1. Aim/Objective-

Connect the computers in Local Area Network by setting IP Address, Subnet mask & Default gateway.

2. Requirements-

S/W Requirement :- Packet Tracer or NS2

H/W Requirement :- Processor , Main Memory (128 MB RAM) ,Hard Disk(minimum 20 GB IDE Hard Disk), Removable Drives, PS/2 HCL Keyboard and Mouse

3. Procedure-

Step 1: First, open the Cisco packet tracer desktop and select the devices and give them suitable ip addressing

Step 2: Then, create a network topology as shown below the image.

Step 3: Configure the PCs (hosts) with IPv4 address and Subnet Mask according to the IP addressing

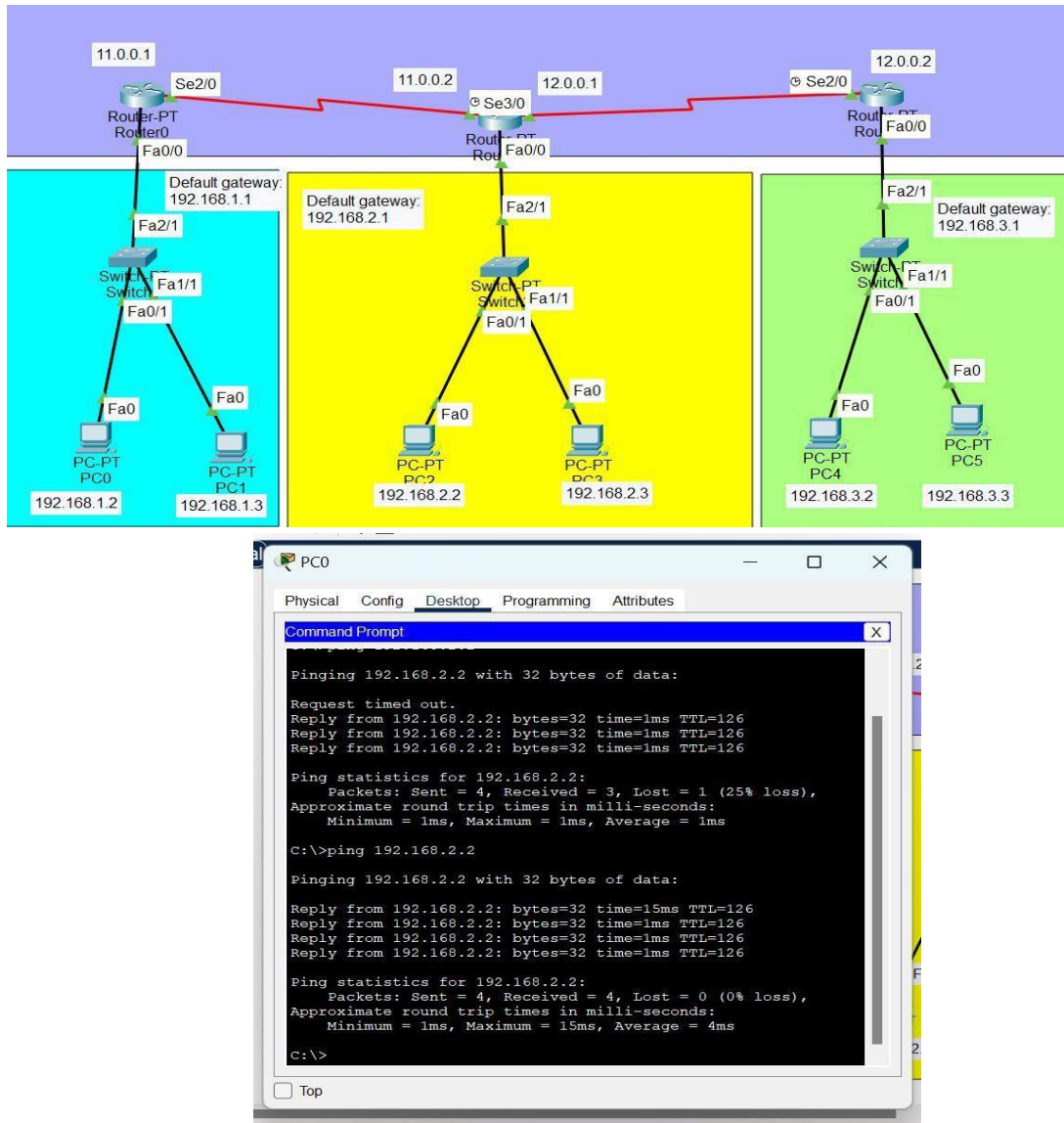
Step 4: Assigning IP address using the ipconfig command.

Step 5: Configure router with IP address and subnet mask.

Step 6: After configuring all of the devices we need to assign routes to the routers.

Step 7: Verifying the network by pinging the IP address of any PC. We will use the ping command to do so.

4. Output-



5. Learning Outcomes-

1. Understand the setup and configuration of ip addressing, subnet mask.
2. Learn to use Cisco Packet Tracer to simulate different network designs.
3. Gain practical skills in configuring network devices and analyzing their connectivity.