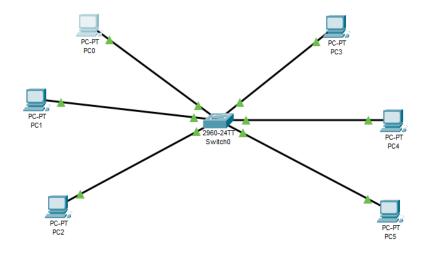
Marwadi University Marwadi Chandarana Group	Marwadi University Faculty of Engineering and Technology Department of Information and Communication Technology	
Subject: Computer Networks (01CT0503) Experiment No: 03	Aim: Simulate star topology and devices. Date: 22-08-2024	Enrolment No: 92200133029

Aim: Simulate star topology and check the connectivity between devices.

Step – 1: Take PC and Switches.

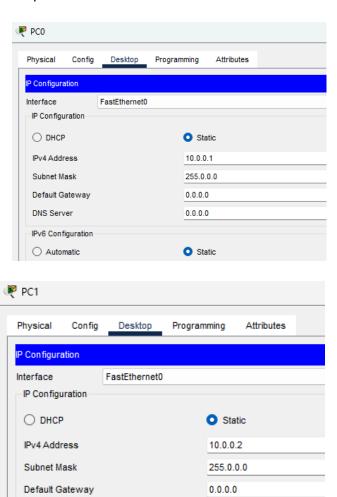


Step -2: Connect PC and Switches via cables.



Marwadi University Marwadi Chandarana Group	Marwadi University Faculty of Engineering and Technology Department of Information and Communication Technology	
Subject: Computer Networks (01CT0503)	Aim: Simulate star topology and check the connectivity between devices.	
Experiment No: 03	Date: 22-08-2024	Enrolment No: 92200133029

Step – 3: Give the IP address to all PCs.



DNS Server

IPv6 Configuration

Automatic

0.0.0.0

Static

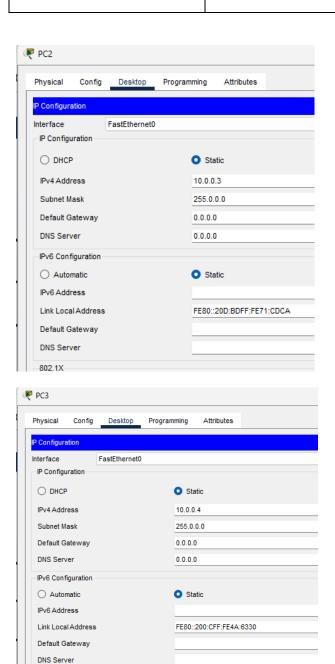


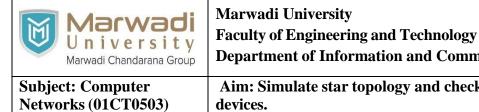
Marwadi University
Faculty of Engineering and Technology

Department of Information and Communication Technology

Subject: Computer Networks (01CT0503) Aim: Simulate star topology and check the connectivity between devices.

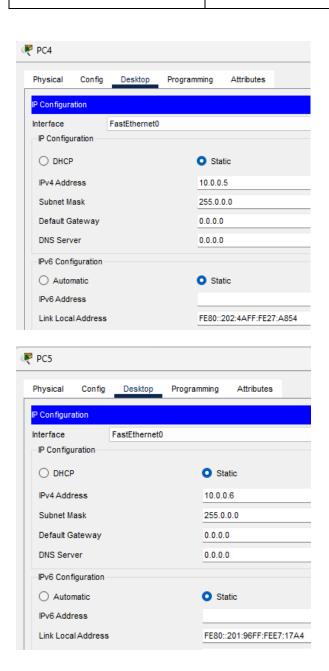
Experiment No: 03 Date: 22-08-2024 Enrolment No: 92200133029





Department of Information and Communication Technology Aim: Simulate star topology and check the connectivity between

Experiment No: 03 Date: 22-08-2024 **Enrolment No: 92200133029**



Marwadi University Marwadi Chandarana Group	Marwadi University Faculty of Engineering and Technology Department of Information and Communication Technology	
Subject: Computer Networks (01CT0503) Experiment No: 03	Aim: Simulate star topology and check the connectivity between devices. Date: 22-08-2024 Enrolment No: 92200133029	

Step – 4 : Check connections in command prompt.

```
PC0
 Physical
        Config
                 Desktop Programming
                                        Attributes
  Command Prompt
 Cisco Packet Tracer PC Command Line 1.0
 C:\>ping 10.0.0.4
 Pinging 10.0.0.4 with 32 bytes of data:
  Reply from 10.0.0.4: bytes=32 time=3ms TTL=128
  Reply from 10.0.0.4: bytes=32 time<1ms TTL=128
  Reply from 10.0.0.4: bytes=32 time<1ms TTL=128
  Reply from 10.0.0.4: bytes=32 time<1ms TTL=128
  Ping statistics for 10.0.0.4:
      Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
  Approximate round trip times in milli-seconds:
      Minimum = 0ms, Maximum = 3ms, Average = 0ms
```

```
C:\>ping 10.0.0.2

Pinging 10.0.0.2 with 32 bytes of data:

Reply from 10.0.0.2: bytes=32 time=lms TTL=128
Reply from 10.0.0.2: bytes=32 time<lms TTL=128

Ping statistics for 10.0.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms</pre>
```

Marwadi University Marwadi Chandarana Group	Marwadi University Faculty of Engineering and Technology Department of Information and Communication Technology	
Subject: Computer Networks (01CT0503)	Aim: Simulate star topology and check the connectivity between devices.	
Experiment No: 03	Date: 22-08-2024	Enrolment No: 92200133029

Conclusion:

In Packet Tracer, simulation of a Star topology, I connected several devices to a central switch, which made it easier to manage and troubleshoot the network. To check if the devices were connected properly, I used the ping command, which helps test if one device can reach another. By sending ping requests, I confirmed that all devices were successfully linked to the switch and could communicate with each other. This exercise showed how a Star topology makes network management simple and ensures stable connections between devices.