**RAJALAKSHMI ENGINEERING COLLEGE**

**RAJALAKSHMI NAGAR, THANDALAM – 602 105**

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| **CS19541**  **COMPUTER NETWORKS LABORATORY** |
| **Laboratory Manual Note Book** |

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**EXP NO : 9 INTERNETWORKING WITH ROUTERS**

**DATE : 14/09/24**

**AIM:**

To design and configure a simple internetwork using a router.

**SOFTWARE USED:**

CISCO PACKET TRACER

**PROCEDURE:**

Step 1: Configuring Router1

1. Open the CLI for Router1.
2. Type enable to enter privileged mode.
3. Type config t to enter global configuration mode.
4. Configure FastEthernet0/0 with IP 192.168.10.1 255.255.255.0 and type no shutdown.
5. Configure FastEthernet0/1 with IP 192.168.20.1 255.255.255.0 and type no shutdown.

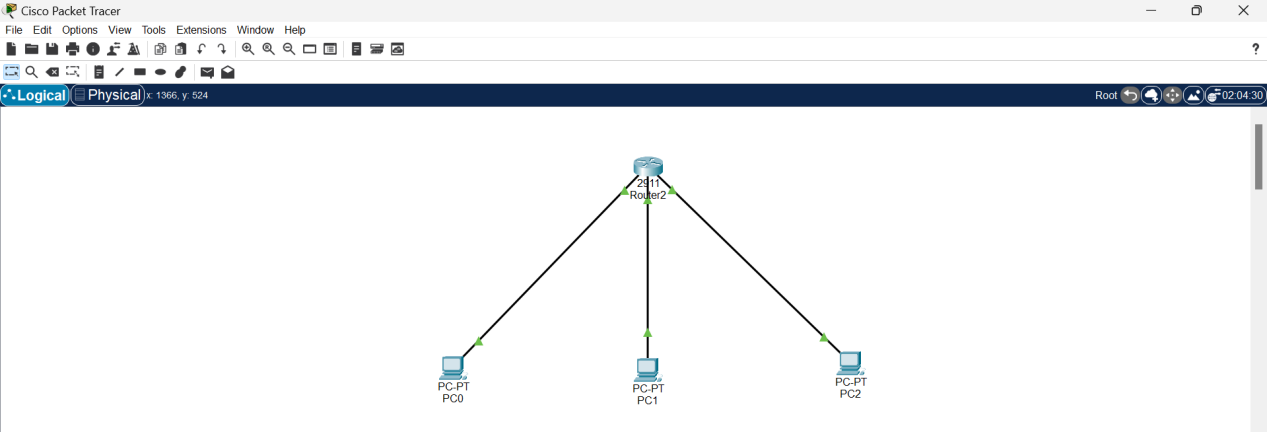
Step 2: Configuring PCs

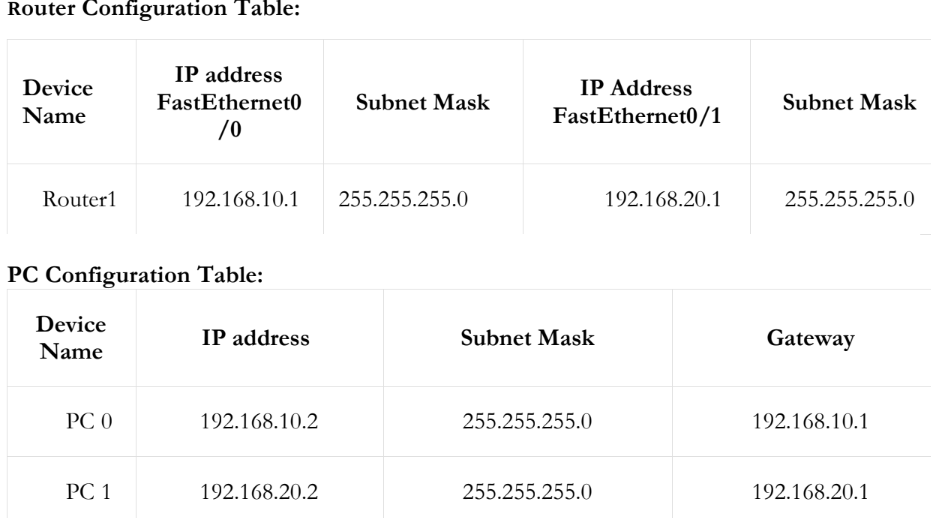
1. Assign IP address 192.168.10.2, subnet mask 255.255.255.0, and gateway 192.168.10.1 to PC0.
2. Assign IP address 192.168.20.2, subnet mask 255.255.255.0, and gateway 192.168.20.1 to PC1.

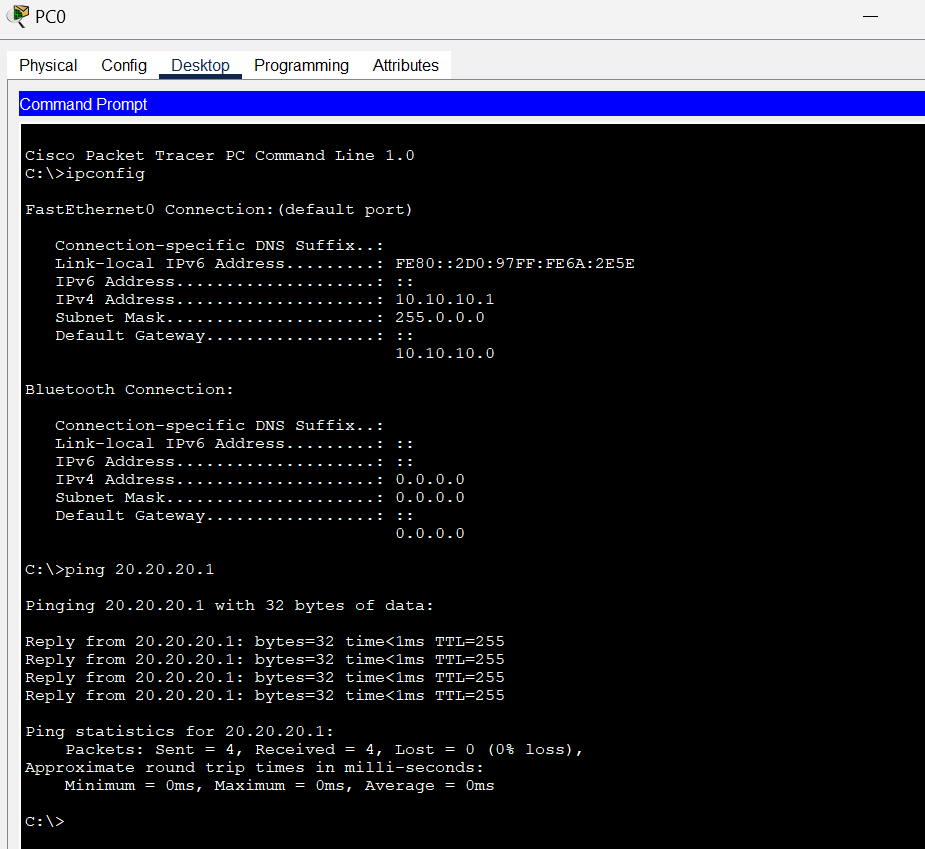
Step 3: Connecting PCs to Router1

1. Connect PC0's FastEthernet0 to Router1's FastEthernet0/0 using a straight-through cable.
2. Connect PC1's FastEthernet0 to Router1's FastEthernet0/1 using a straight-through cable.

**DESIGNED INTERNETWORK TOPOLOGY:**







**RESULT:**

Thus, the simple internetwork using routers has been designed and configured in CISCO Packet Tracer successfully.