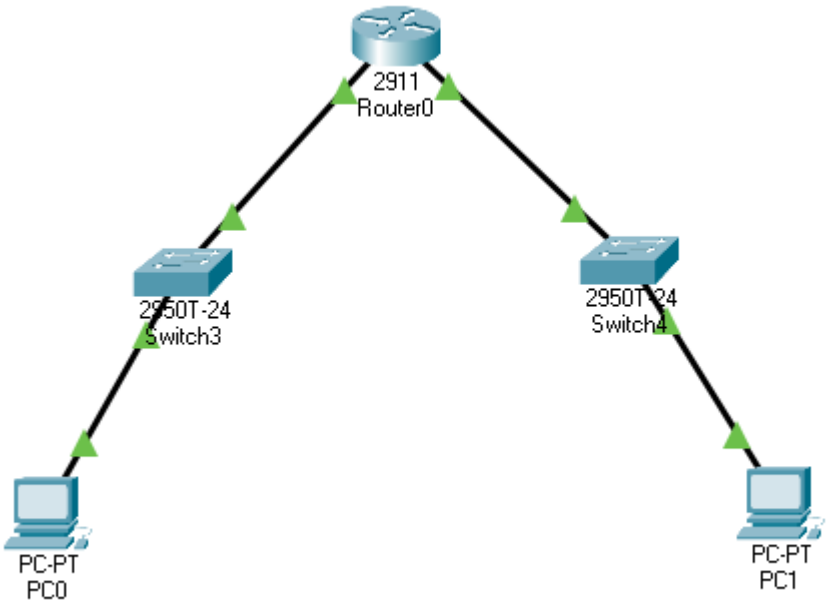
Computer Networks

Lab # 08:
Packet Tracer – Router Inter-LAN Communication



Objective

Use Packet Tracer to complete the following skills

- Add devices to the network
- Configure static IP addressing to PC0 and PC1

Scenario

This topology represents the inter-LAN router network, helpful in studying device configuration and connectivity.

Step 1

Add a 2911 router, two 2950-24T switches, and two generic PCs.

Step 2

Configure the GigabitEthernet0/0 port on the router using the IP address 10.0.0.1. This will be our First interface for communication of First local area network (Switch3).

Step 3

Configure the GigabitEthernet0/1 port on the router using the IP address 192.168.1.1. This will be our Second interface for communication of Second local area network (Switch4).

Step 4

Configure PC0 to use the IP address 10.0.0.2 and PC1 to use the IP address 192.168.1.2.

Step 5

Configure Default Gateway on PC0 and PC1. Make sure to use the appropriate default gateway.

Step 6

Use the appropriate cable types to connect the switch to the router and the two PCs to the switch.

Step 7

Verify connectivity. From PC0 use the **PING** command to test connectivity to PC1.

Exercise:

Repeat the above Experiment with 3 PCs in each Local Area Network (LAN).

Verify the connectivity between PCs using the **PING** command.

Use the tracert command to check and display the route taken by each packet.