

EXPERIMENT-11

CONFIGURATION OF A SIMPLE STATIC ROUTING IN PACKET TRACER USING A SIMPLE TOPOLOGY WITH TWO ROUTERS

AIM:-

To configure a router using packet tracer software and hence to transmit data between the devices in real time and simulation mode.

PROCEDURE:-

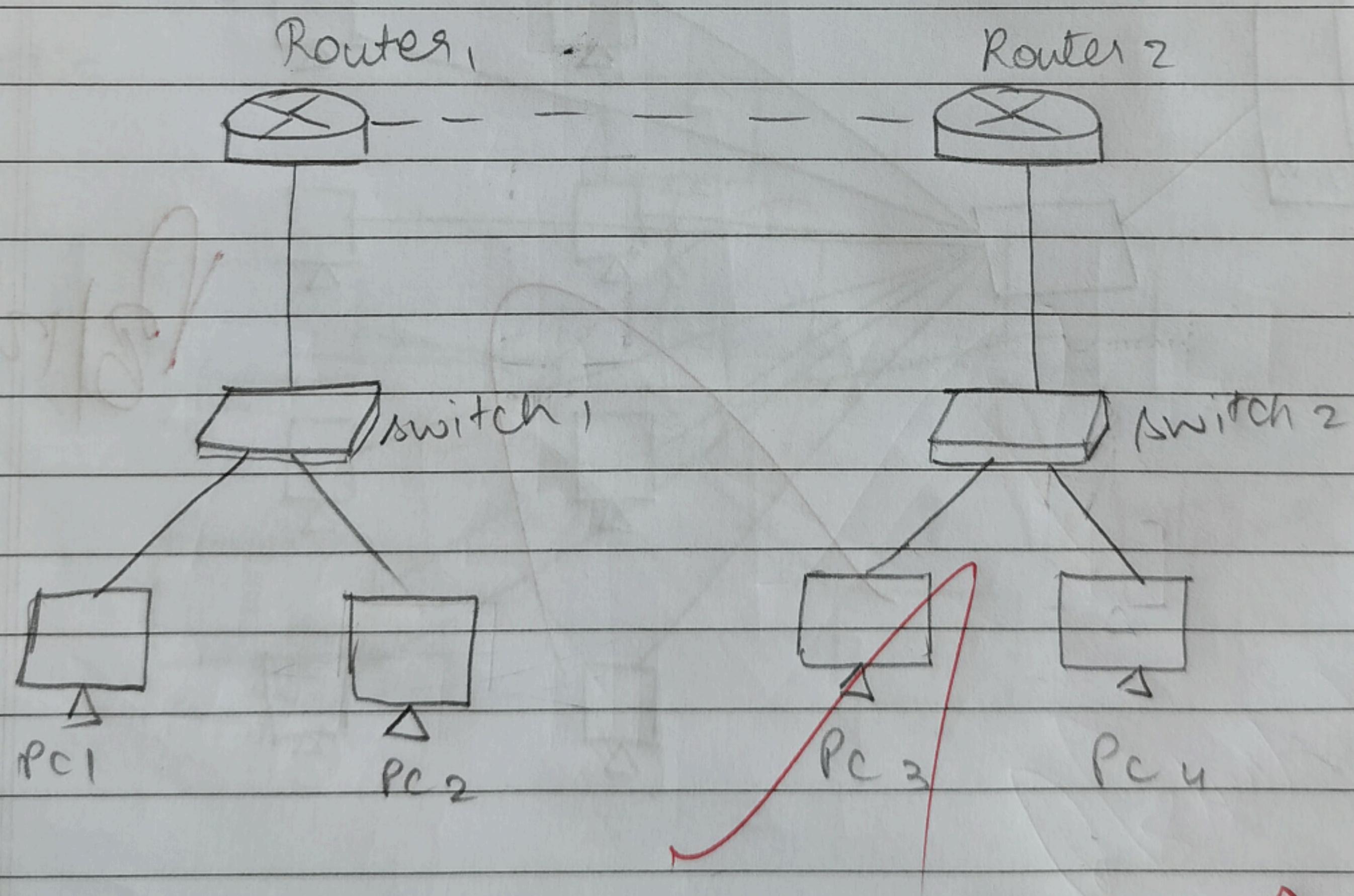
Step 1: Start Packet Tracer

Step 2: Choose Devices and Connections

Step 3: Place switches and PCs and connect them.

Step 4: Configure IP Address, Gateway and Subnet Masks on the Hosts.

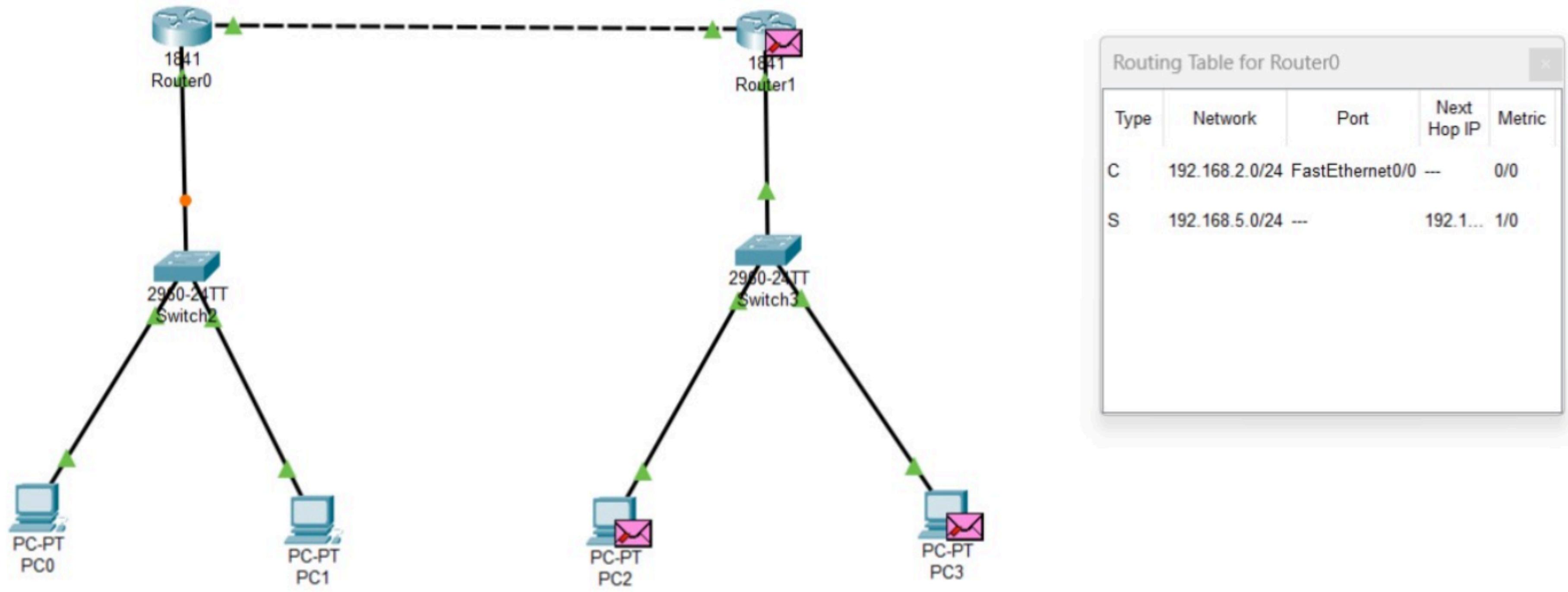
Step 5: Verify connectivity in real-time & Simulation mode



RESULT:-

Thus configuration of a simple static routing in packet tracer using a simple topology with two routers done successfully

STATIC ROUTING USING 2 ROUTERS



EXPERIMENT - 12

USING THE FUNCTIONALITIES AND EXPLORATION OF TCP USING PACKET TRACER.

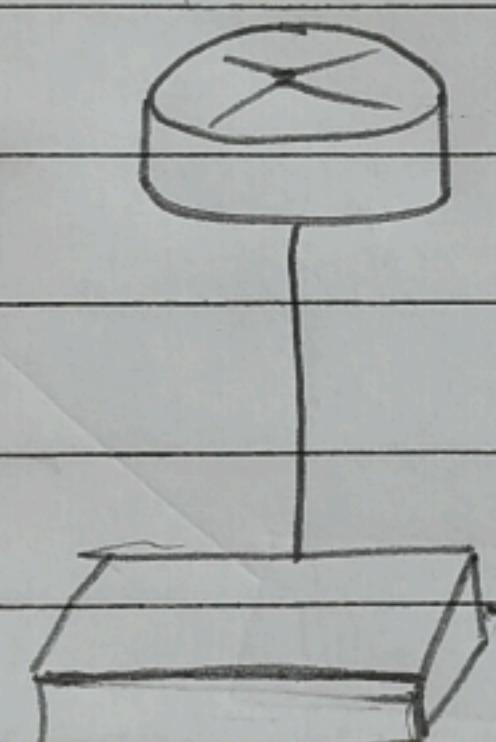
AIM:-

To design the functionalities and exploration of Tcp using packet Tracer .

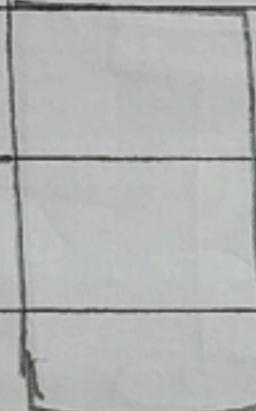
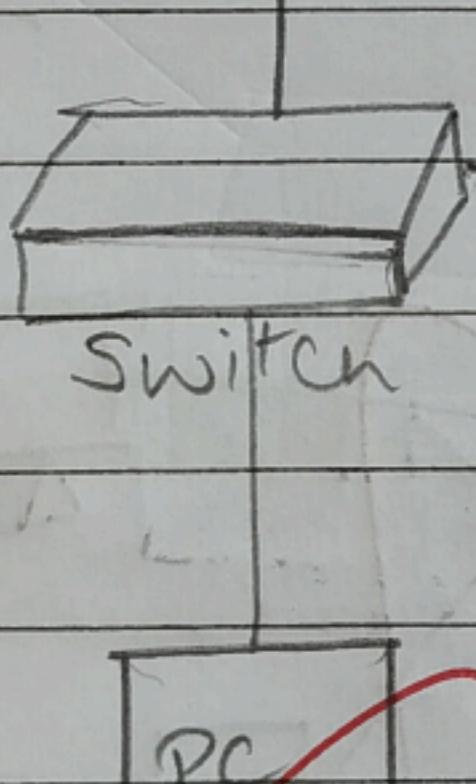
PROCEDURE:-

- Step 1 : Setup the network topology
- Step 2 : Configure the IP addresses
- Step 3 : Configure the router
- Step 4 : Navigate to CLI tab and command
- Step 5 : Test the connection
- Step 6 : Explore TCP functionalities

Router

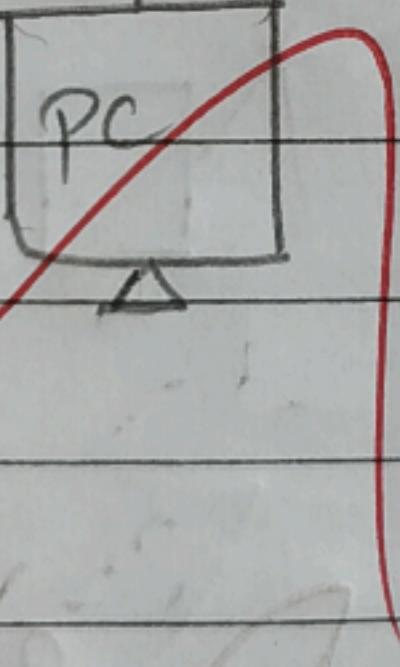


Switch



Server

PC

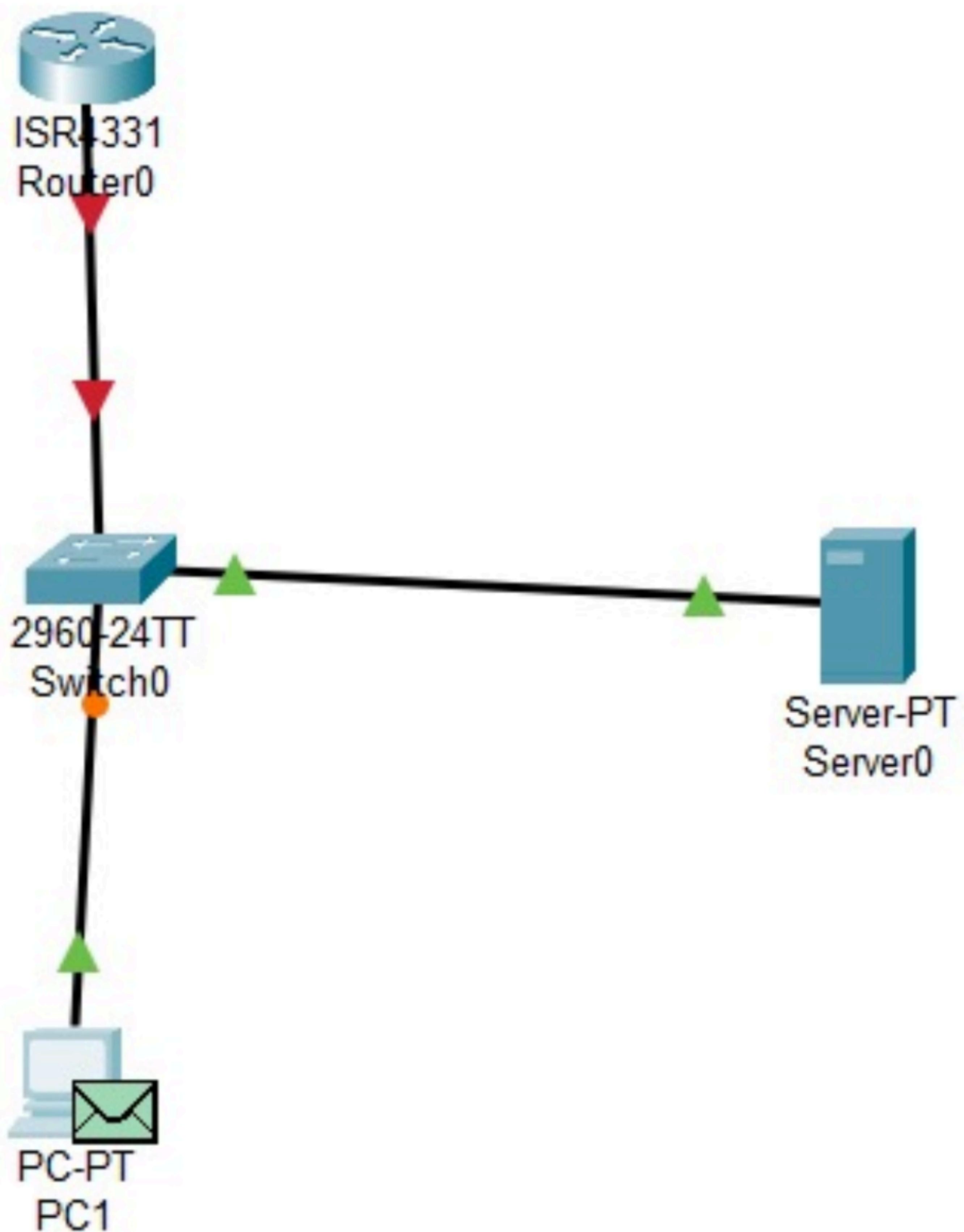


08/12/2024

RESULT:-

Thus the functionalities and Exploration of TCP using Packer Tracer is designed successfully

SIMULATION OF TCP PERFORMANCE



EXPERIMENT - 13

DESIGN THE NETWORK MODEL FOR SUBNETTING - CLASS-C ADDRESSING USING PACKET TRACER

AIM:-

To design the network model for subnetting- Class C addressing using packet tracer.

PROCEDURE:-

Step 1 : Determine network requirements & choose a subnet mask .

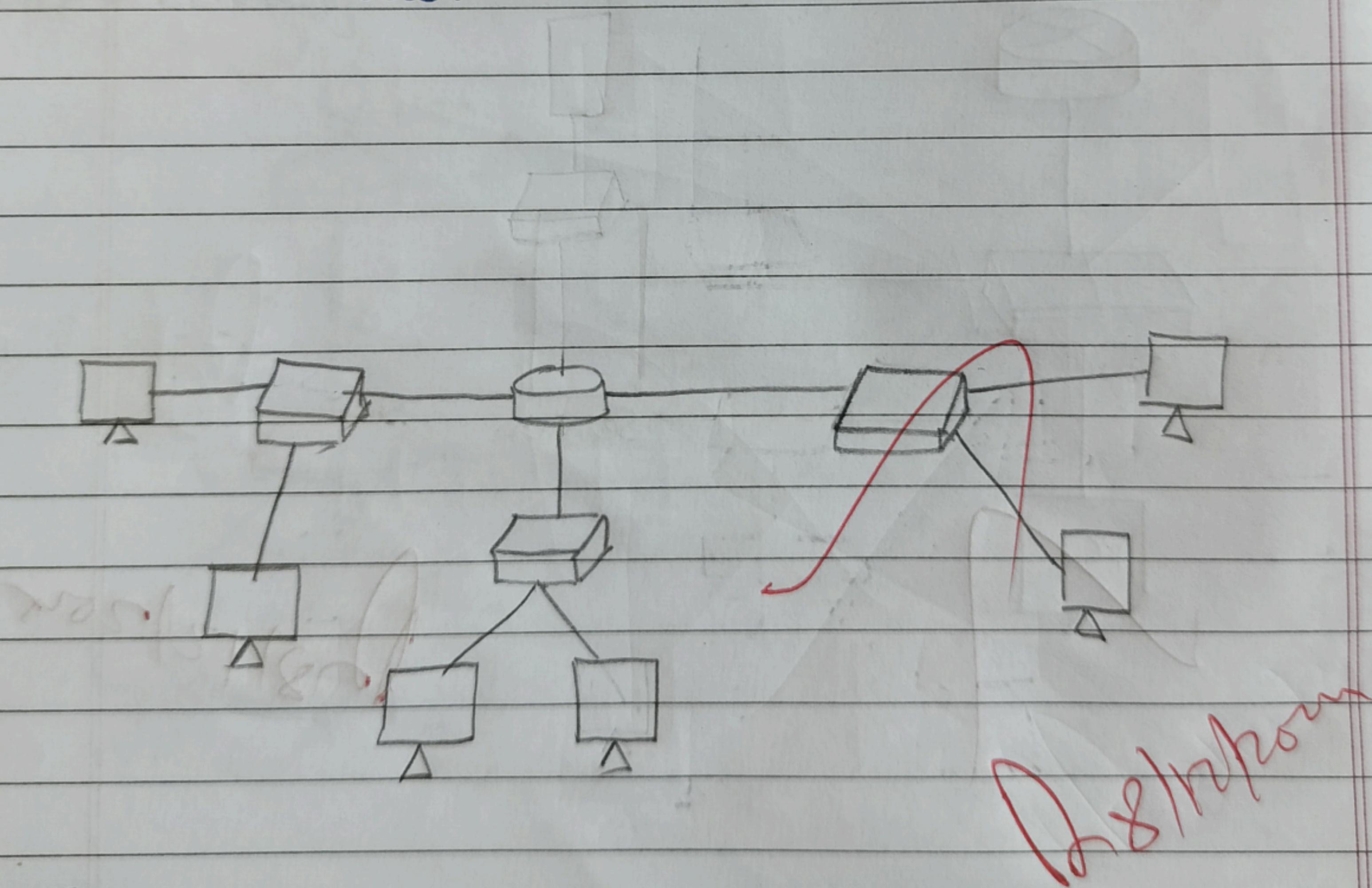
Step 2 : Choose and Configure the Router .

Step 3 : Configure the hosts .

Step 4 : Test and Verify the network .

Step 5 : Monitor network Traffic

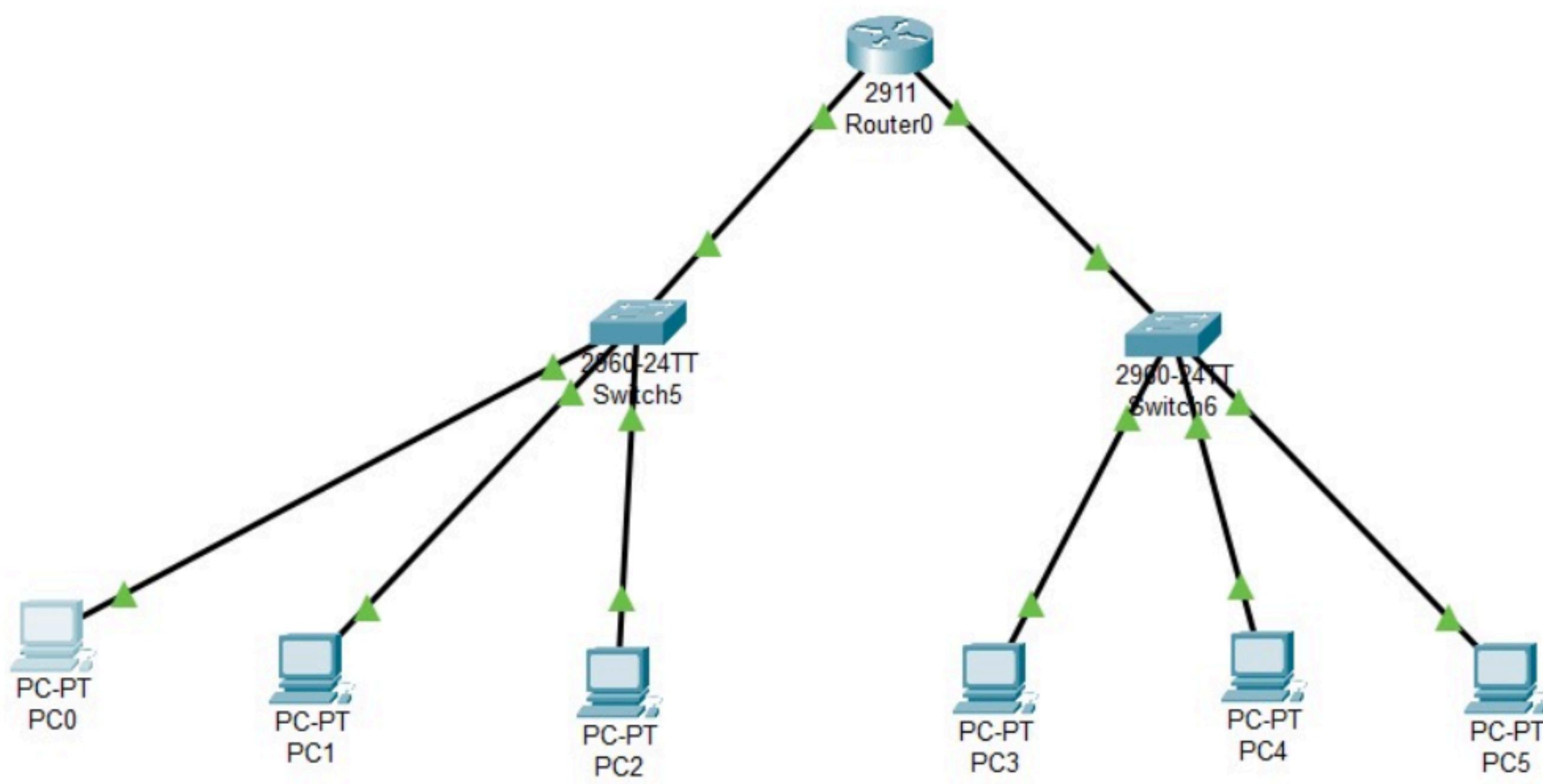
Step 6 : Display packet transmission in simulation mode .



RESULT:-

There for designing for network model subnetting has been successfully using packet tracer .

SUBNETTING C CLASS ADDRESS



EXPERIMENT - 14

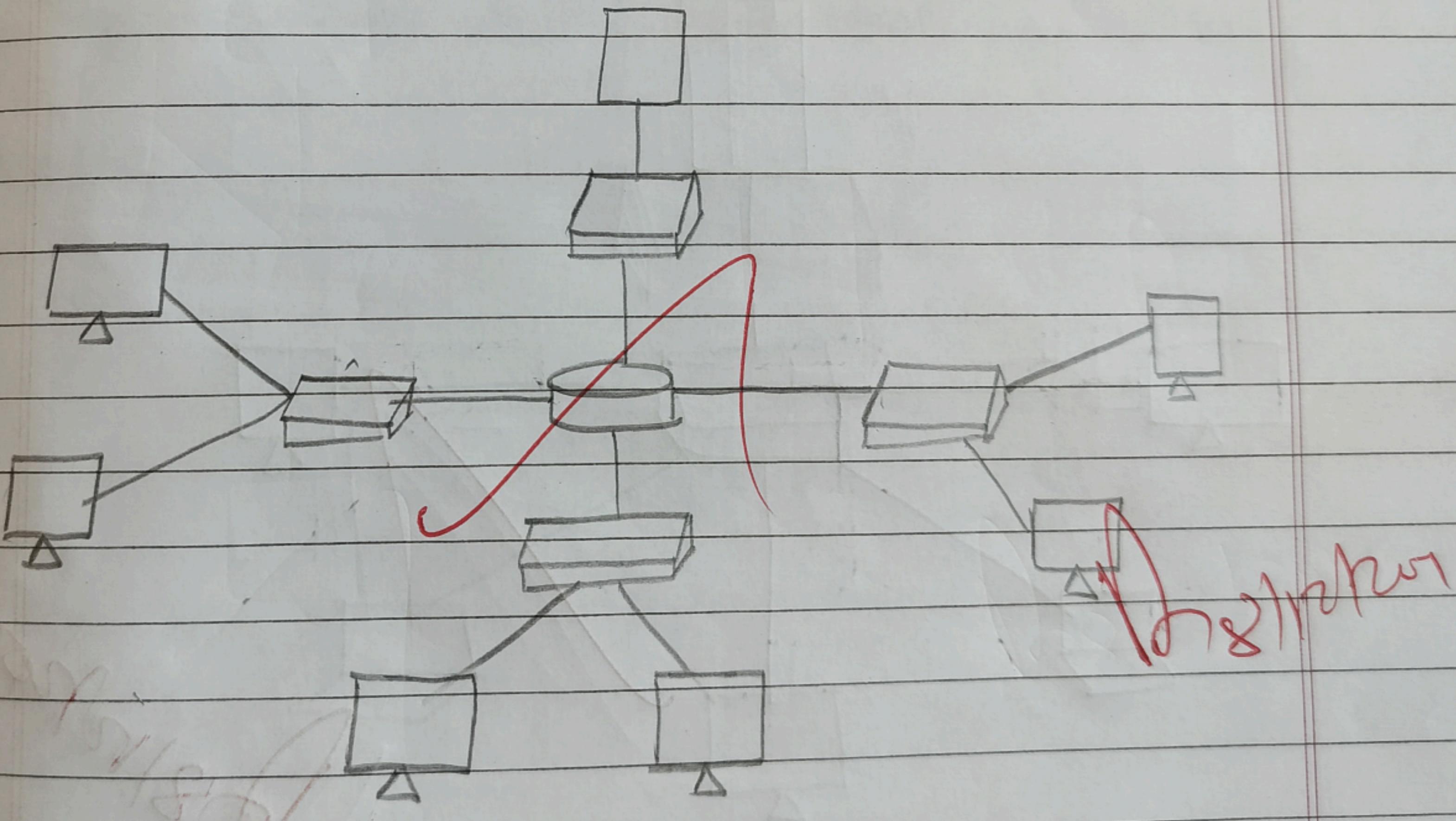
SIMULATING X, Y, Z COMPANY NETWORK DESIGN AND SIMULATE USING PACKET TRACER.

AIM:-

TO simulate X, Y, Z company network design and simulate using packet tracer.

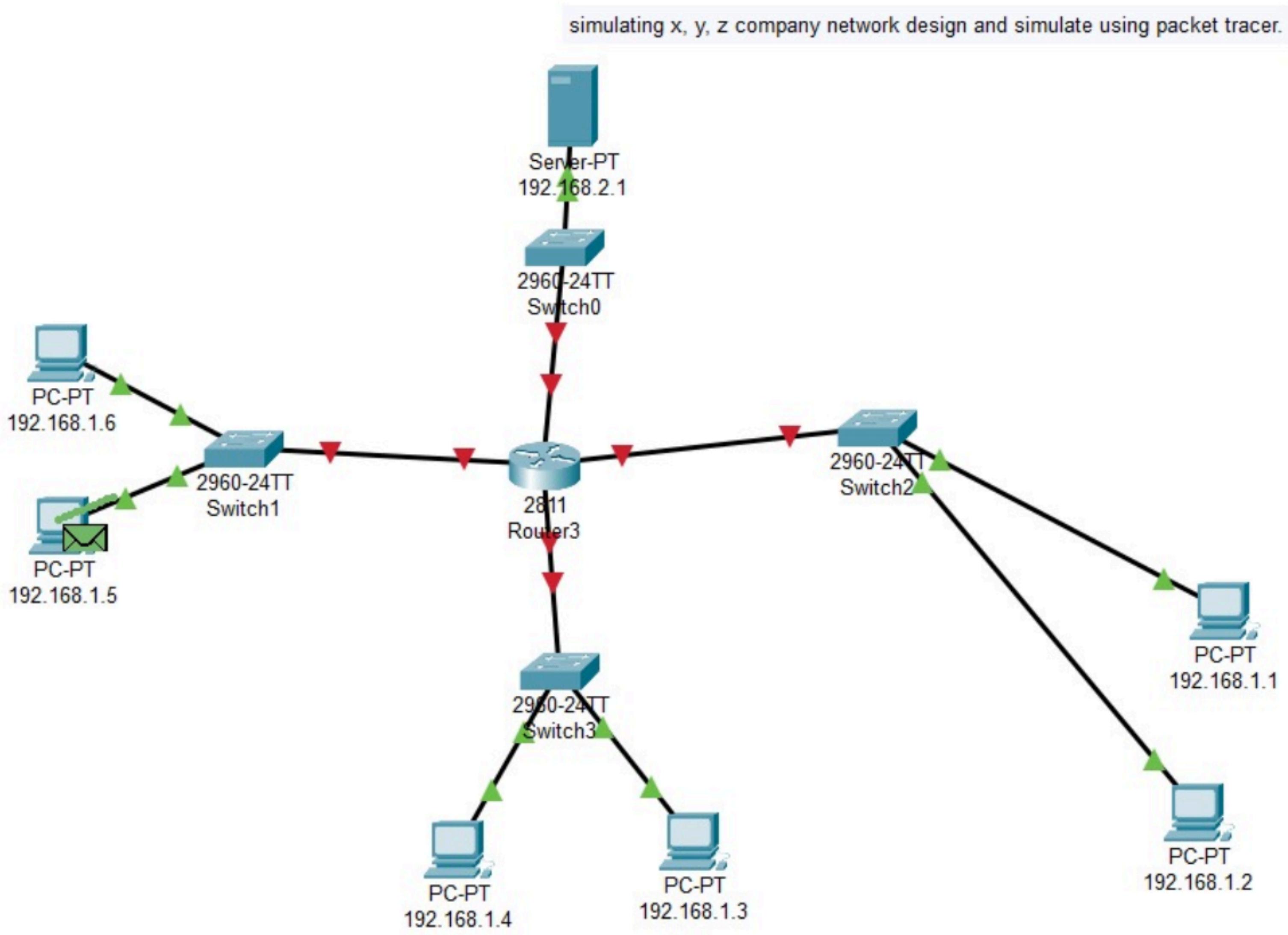
PROCEDURE :-

- Step 1 : Start Packet Tracer
- Step 2 : Create a new project
- Step 3 : Add and connect devices
- Step 4 : Configure the devices , add IP address
- Step 5 : Add applications and configure them
- Step 6 : Test the network and monitor network traffic
- Step 7 : Make adjustments and save the project.



RESULT :-

Therefore Stimulating of companies network designing has been successfully done using packet tracer



EXPERIMENT - 15

CONFIGURATION OF DHCP (Dynamic Host Configuration Protocol) IN PACKET TRACER.

AIM:-

To configure DHCP in packet tracer.

PROCEDURE :-

Step 1 : Launch Cisco Packet

Step 2 : Add necessary devices and configure DHCP server.

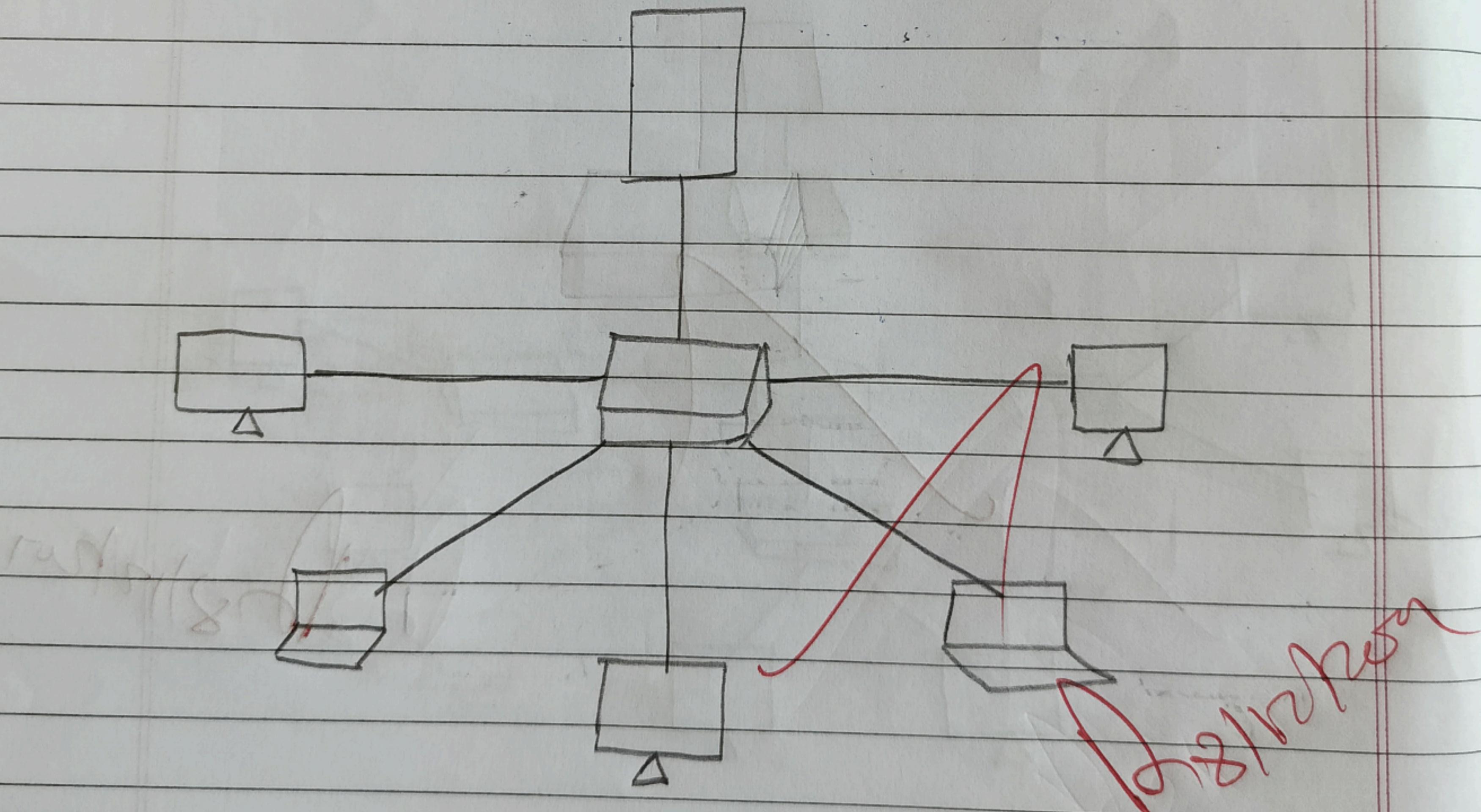
Step 3 : Configure the switch and save it.

Step 4 : Configure the DHCP clients.

Step 5 : Start the simulation

Step 6 : Verify DHCP operation

DIAGRAM:-



RESULT :-

Therefore the configuration for DHCP has been successfully executed using packet tracer.

DHCP CONFIGURATION USING CISCO PACKET TRACER

