

EXPERIMENT-16
CONFIGURATION OF FIREWALL IN PACKET TRACER.

AIM:-

To configure firewall in packet tracer.

PROCEDURE :-

Step 1 : Set up the network topology.

Step 2 : Configure IP Addresses

Step 3 : Configure the router.

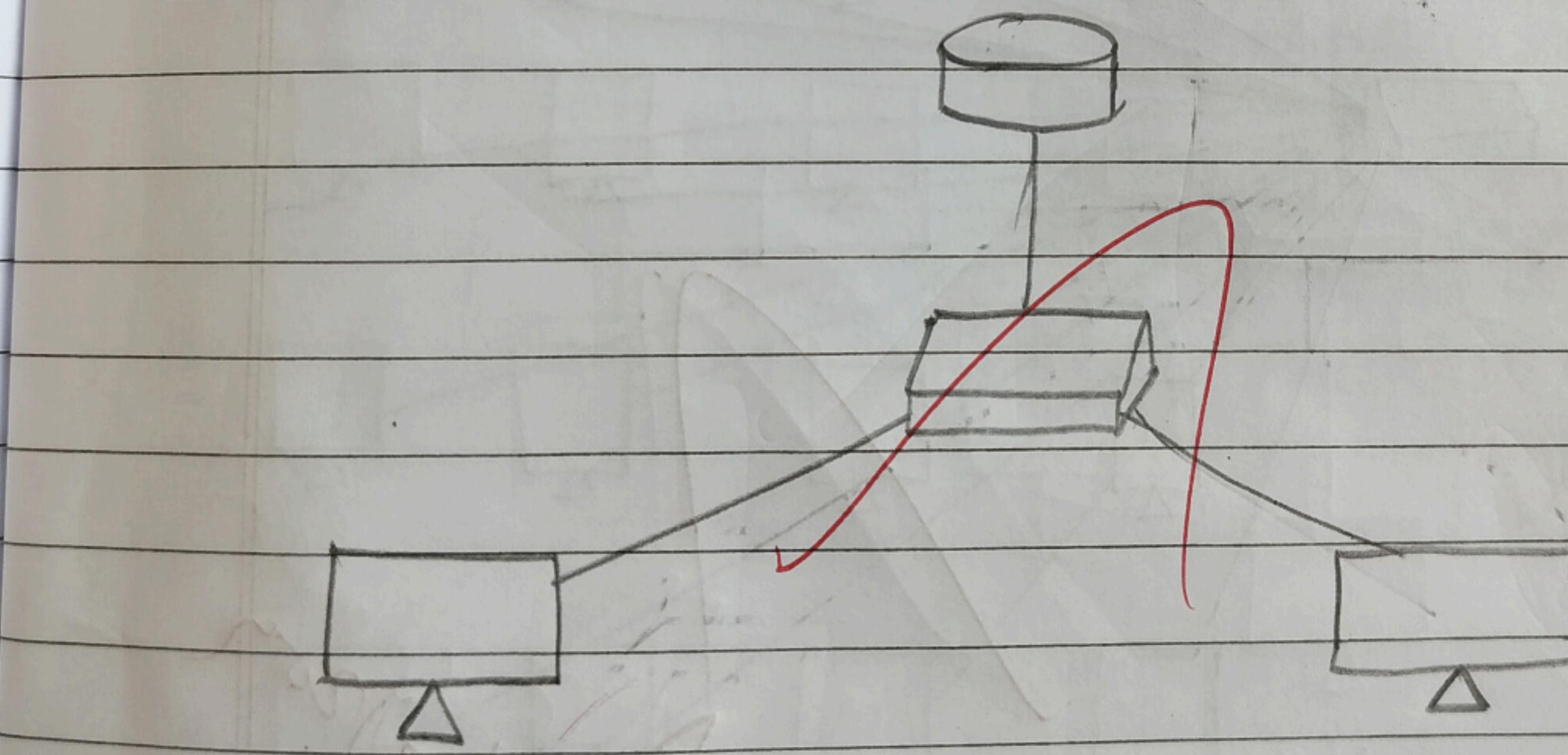
Step 4 : Configure the firewall.

Step 5 : Test the connection

Step 6 : Test the firewall

To test the firewall, try to connect to PCI from the internet using a protocol or port that is not allowed by the access rule. For example, you can try to connect to PCI using Telnet.

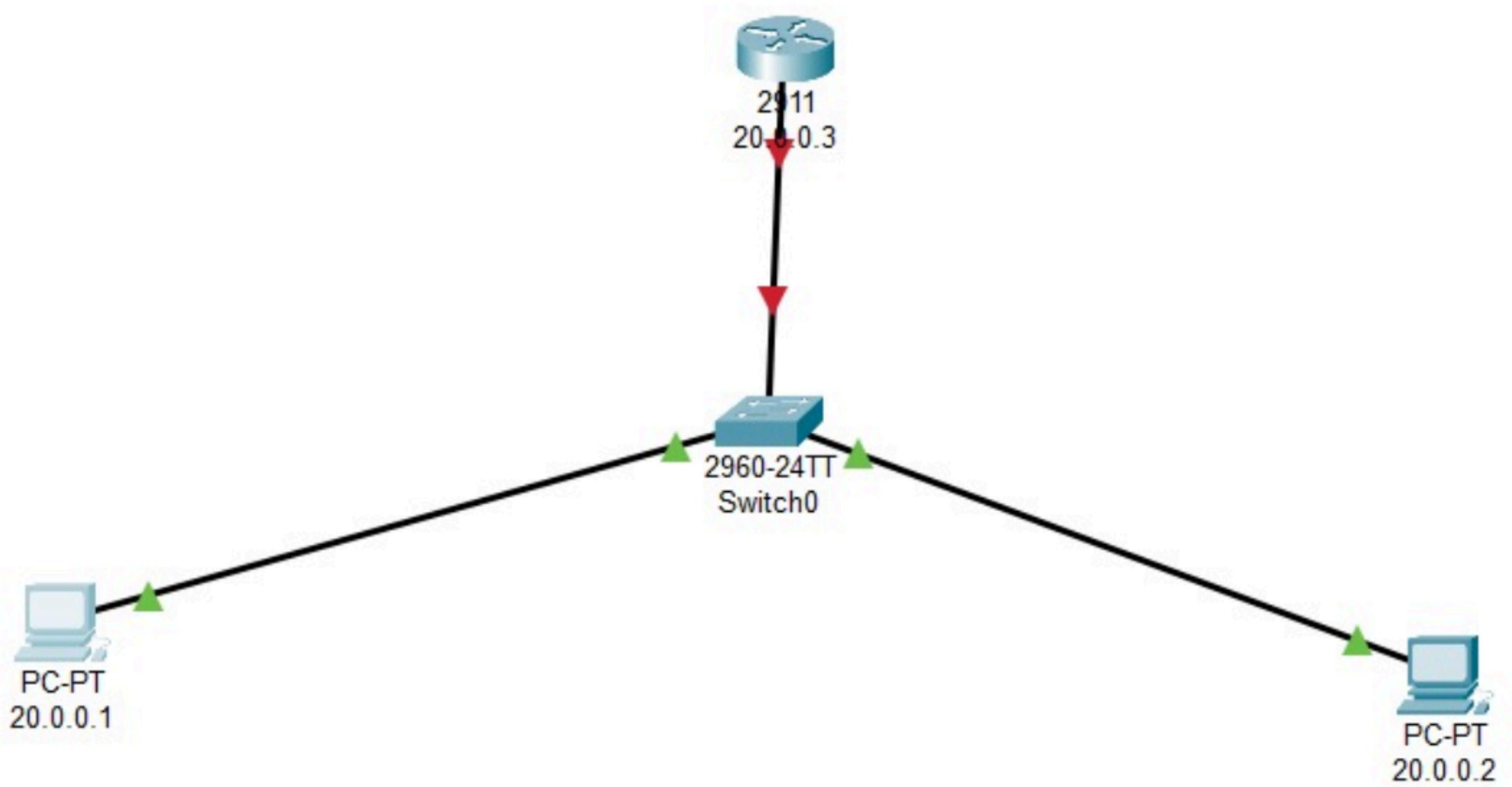
DIAGRAM:-



RESULT:-

Hence the configuration of firewall in packet tracer is successful.

FIREWALL CONFIGURATION



EXPERIMENT-17

MAKE A COMPUTER LAB TO TRANSFER A MESSAGE FROM ONE NODE TO ANOTHER TO DESIGN AND SIMULATE USING CISCO PACKET.

AIM:-

To make a computer lab to transfer a message from one node to another to design and simulate using cisco packet tracer.

PROCEDURE :-

Step 1 : Create the network topology

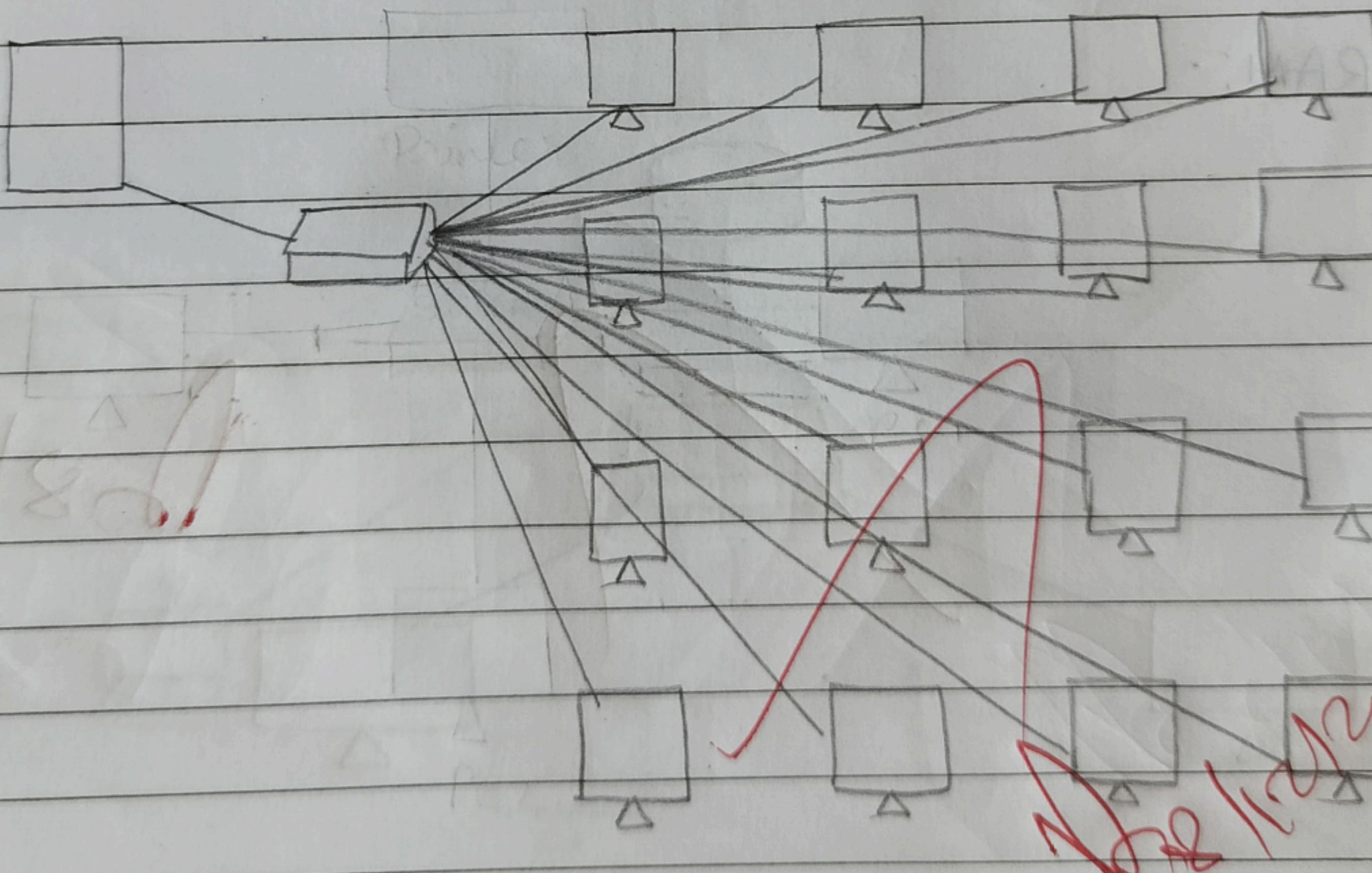
Step 2 : Configure IP Address

Step 3 : Configure the routers.

Step 4 : Configure routing

Steps : Send a message

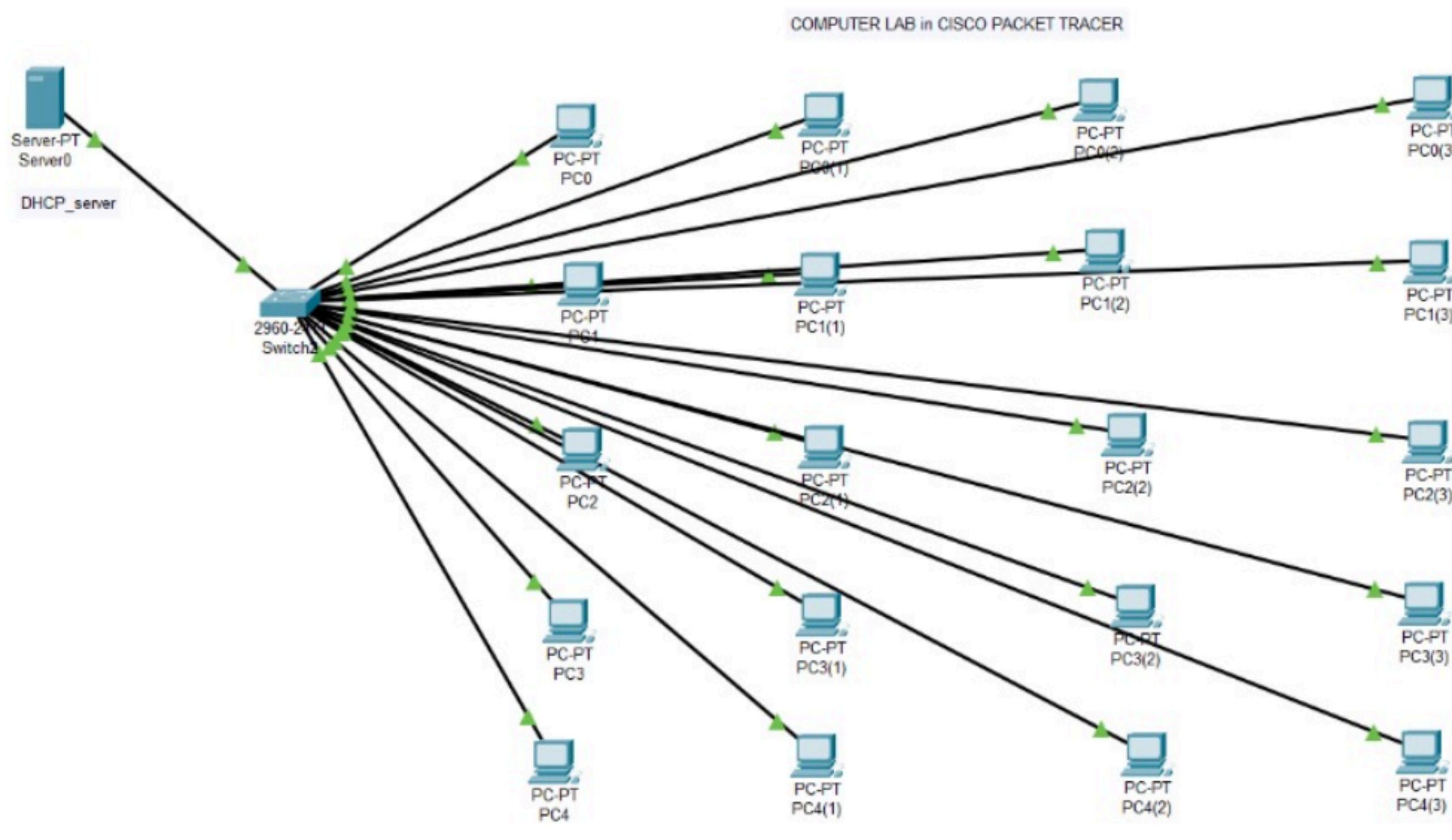
DIAGRAM:-



RESULT:-

Hence the message is transferred from one node to another to design and simulate using Cisco Packer

Tracer successfully



EXPERIMENT - 18

SIMULATE A MULTIMEDIA NETWORK IN CISCO PACKET TRACER

AIM:-

To simulate a multimedia Network in Cisco Packet Tracer.

PROCEDURE :-

Step 1 : Launch Cisco Packet Tracer

Step 2 : Select the appropriate network devices

Step 3 : Design the network topology

Step 4 : Drag and drop devices in workplace.

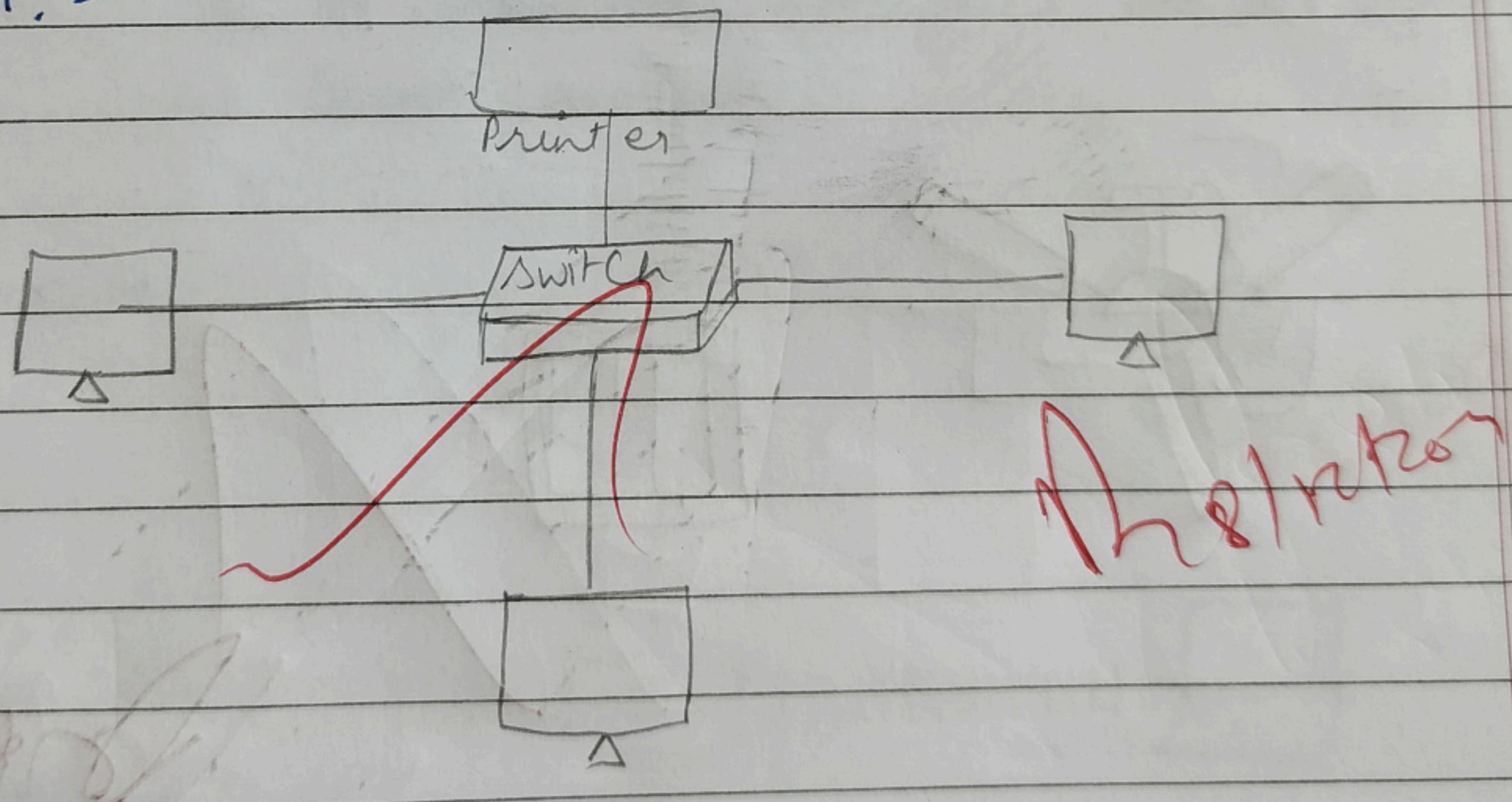
Step 5 : Configure IP addresses on the devices.

Step 6 : Setup multimedia services

Step 7 : Test connectivity

Step 8 : Monitor , Troubleshoot and document the experiment .

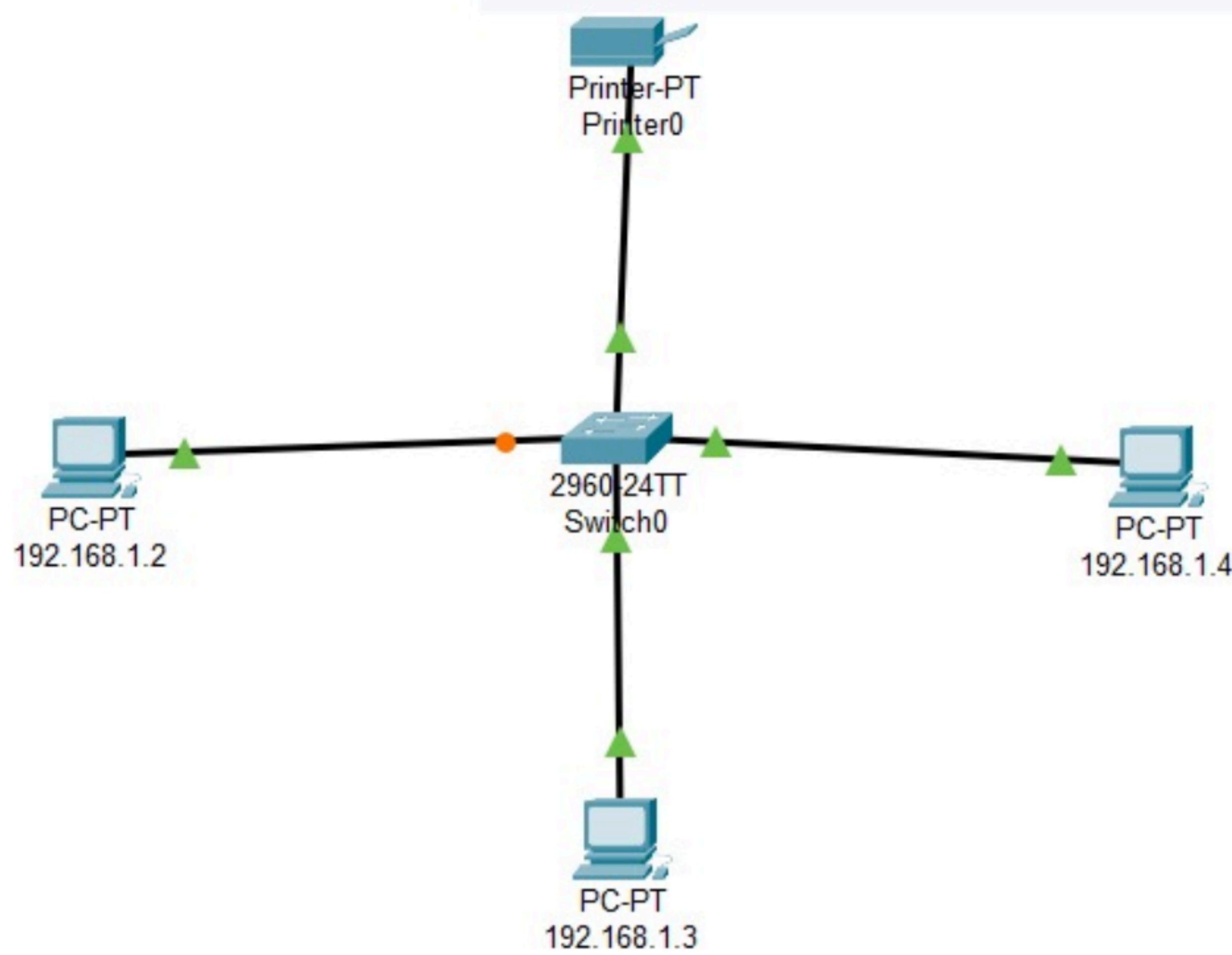
DIAGRAM: -



RESULT:-

Thus a multimedia Network in Cisco Packet Tracer is simulated successfully

CONFIGURATION OF MULTIMEDIA USING CISCO PACKET TRACER



EXPERIMENT-19

IOT BASED SMART HOME APPLICATIONS

AIM:-

To implement IoT based smart home applications in Cisco packet Tracer.

AIM

PROCEDURE :-

Step 1 : Create a network Topology

Step 2 : Configure the IoT devices with appropriate IP addresses, subnet masks and gateway

Step 3 : Set up communication protocol between IoT devices

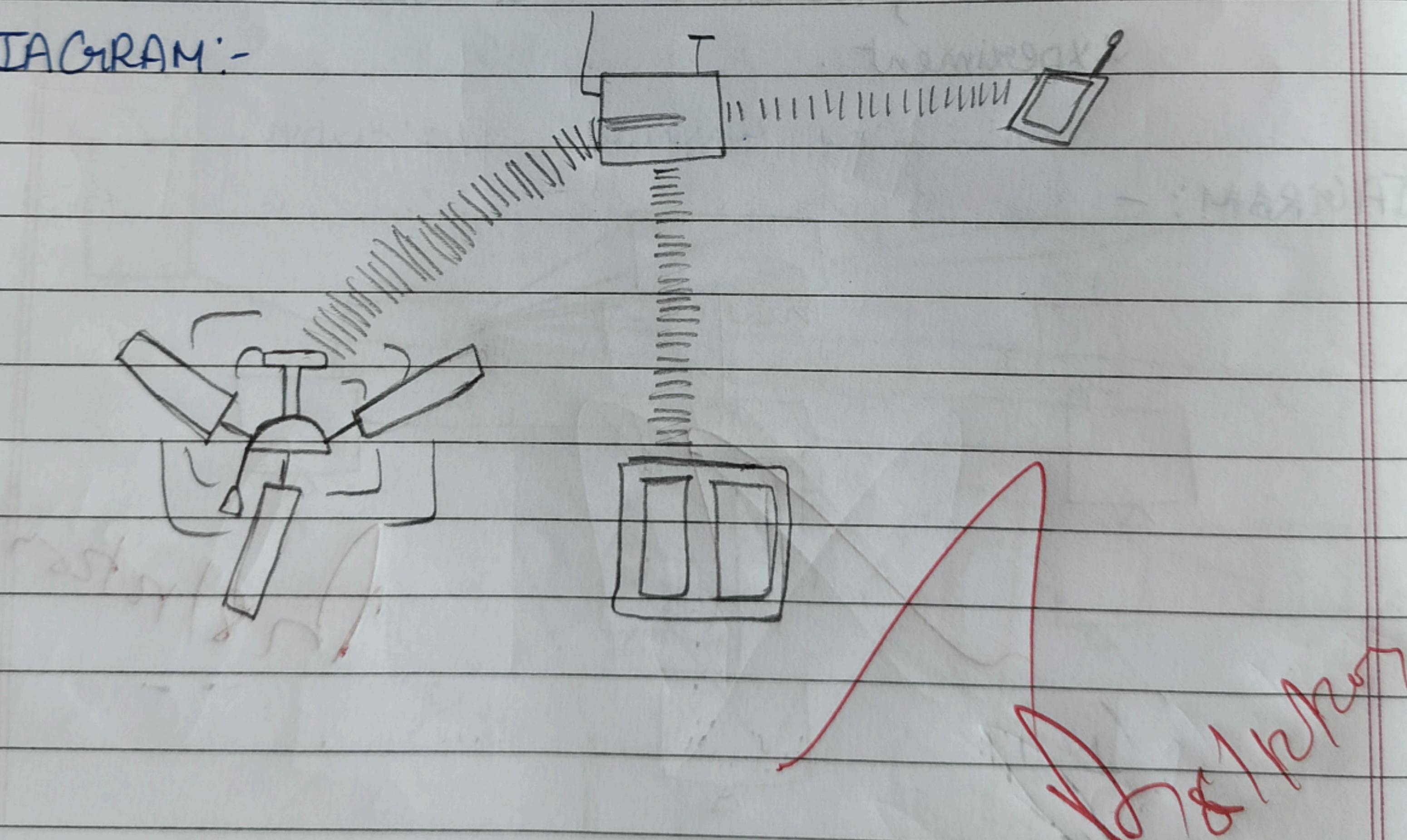
Step 4 : Write a code to collect data from sensors

Step 5 : Use the gateway to process the data.

Step 6 : Finally, use a web interface to monitor & control the IoT devices.

PRO

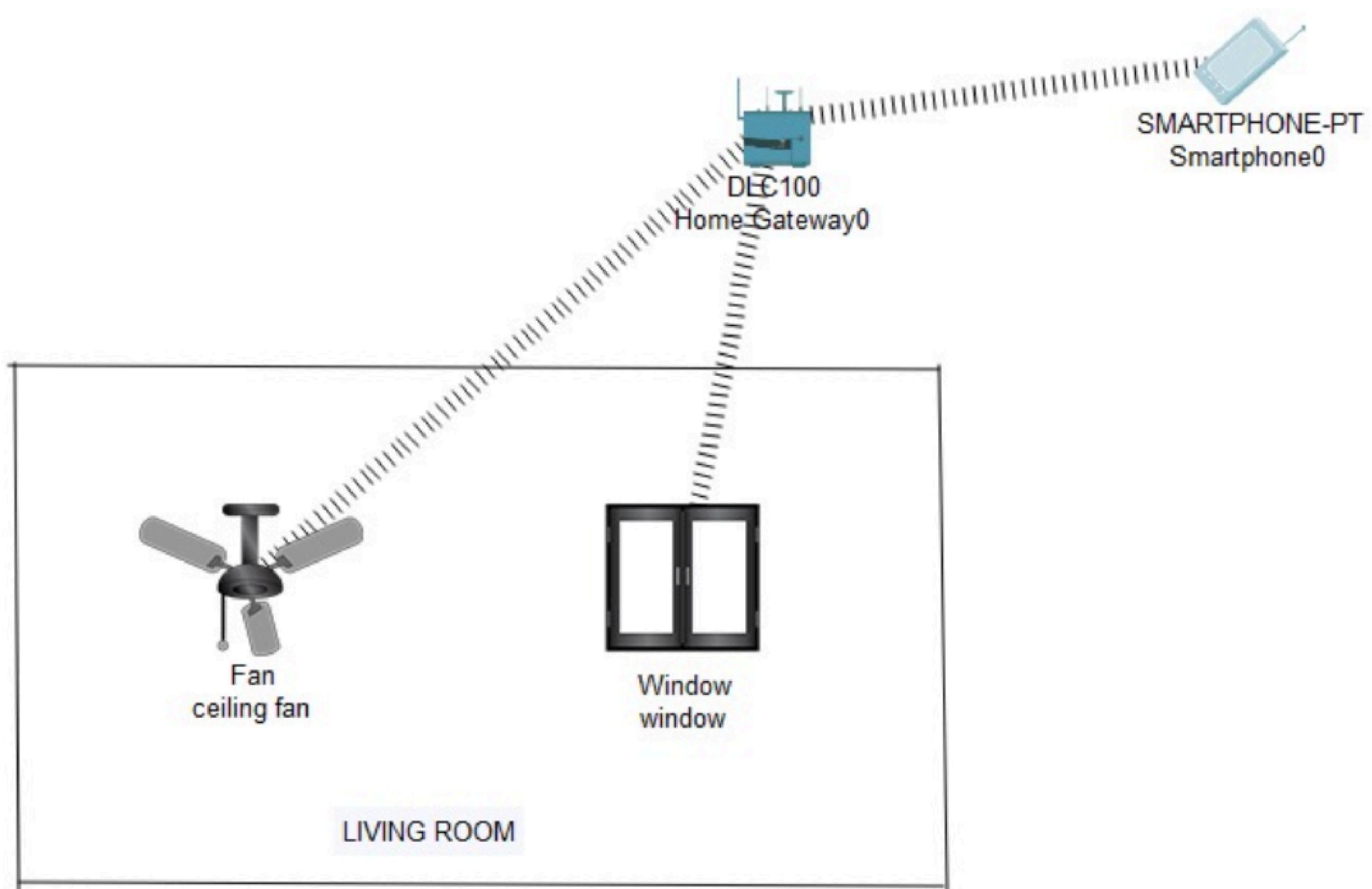
DIAGRAM:-



RESULTS :-

Thus IoT based smart home application in Cisco Packet Tracer is done successfully.

IOT BASED SMART HOME APPLICATIONS



EXPERIMENT - 20
IMPLEMENTATION OF IOT BASED SMART GARDENING

AIM:-

To implement IoT based smart gardening using cisco packet tracer.

PROCEDURE:-

Step 1: Create a new project in Cisco Packet

Step 2: Right Click on IoT devices and select Config.

Step 3: Select the device's IoT server from the list

Step 4: In the attributes tab, add Temperature, Humidity, Soil moisture, Light intensity.

Step 5: Create light and soil moisture sensor

Step 6: Connect the sensors to the IoT device

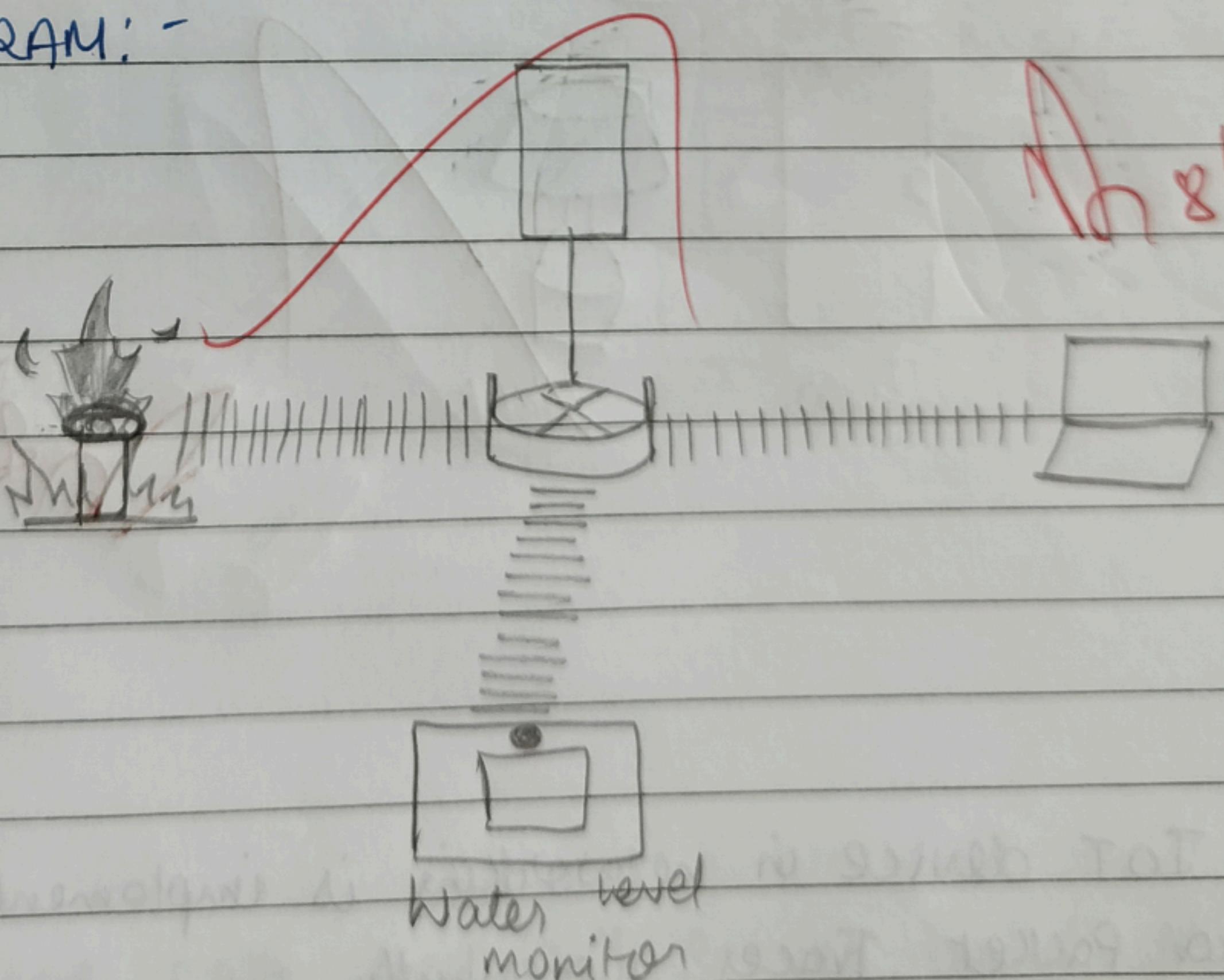
Step 7: Configure the sensors

Step 8: Create a water pump and a light bulb

Step 9: Connect and configure the actuators

Step 10: Use the dashboard to control the IoT devices and sensor readings.

DIAGRAM:-



RESULT:-

Implementation of smart gardening is carried out using IoT successfully

IoT smart garden using cisco packet tracer

