

Genba Sopanrao Moze College of Engineering, Balewadi, Pune-45

Department of Electronics And Telecommunication

Academic year 2022_23

Roll No:

Subject: Control System Lab

Date :

Staff Sign:

Experiment no:-4

AIM: Using a Network Simulator (e.g., packet tracer) Configure router using RIP

REQUIREMENT:

WINDOWS 10 with LAN Connectivity.

Software : Cisco Packet Tracer

Theory:

Routing Information Protocol (RIP) is a dynamic routing protocol that uses hop count as a routing metric to find the best path between the source and the destination network.

Features of RIP

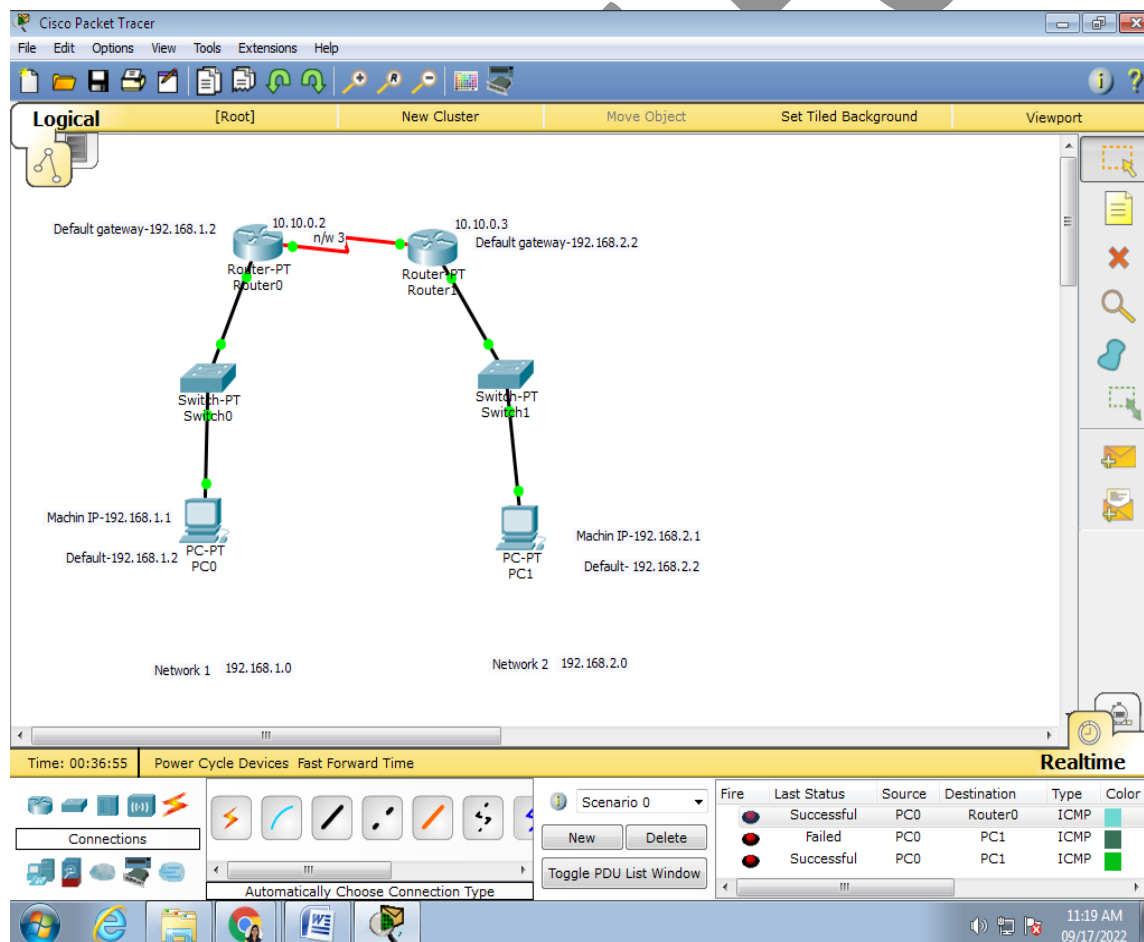
1. Updates of the network are exchanged periodically.
2. Updates (routing information) are always broadcast.
3. Full routing tables are sent in updates.
4. Routers always trust routing information received from neighbor routers. This is also known as Routing on rumors.

ALGORITHM:

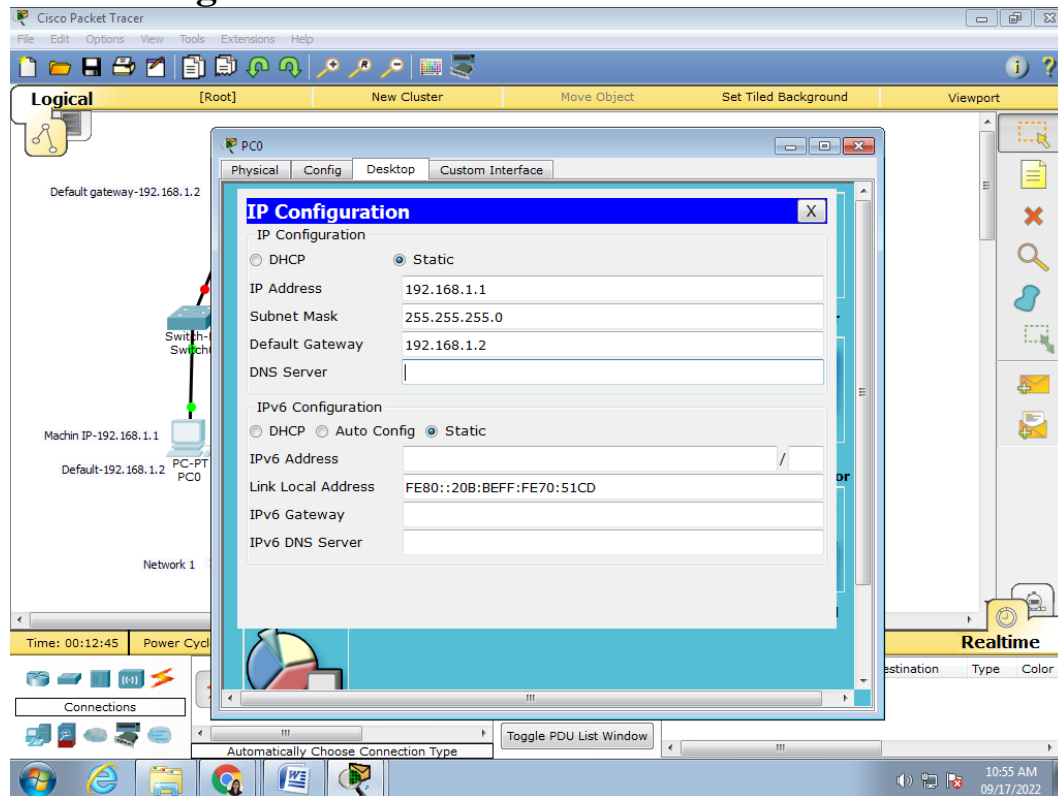
1. Open the software ,cisco packet Tracer student version.
2. Now, start to implement RIP using suitable windows operating system.

3. Start to demonstrate client-server and peer to peer mode of communication .
4. From bottom left corner select END DEVICES ,from that choose PC and LAPTOP.
5. For connectivity select SWITCH and ROUTER.
6. Then to make contact with each devices select CONNECTION, in that take AUTOMATIC CHOOSE CONNECTION TYPE WIRE.
7. Give IP address to each device by clicking that device then selecting DESKTOP in that IP configuration.
8. Then by using COMMAND PROMPT we can see that TRANSMITING and RECEIVING of message.

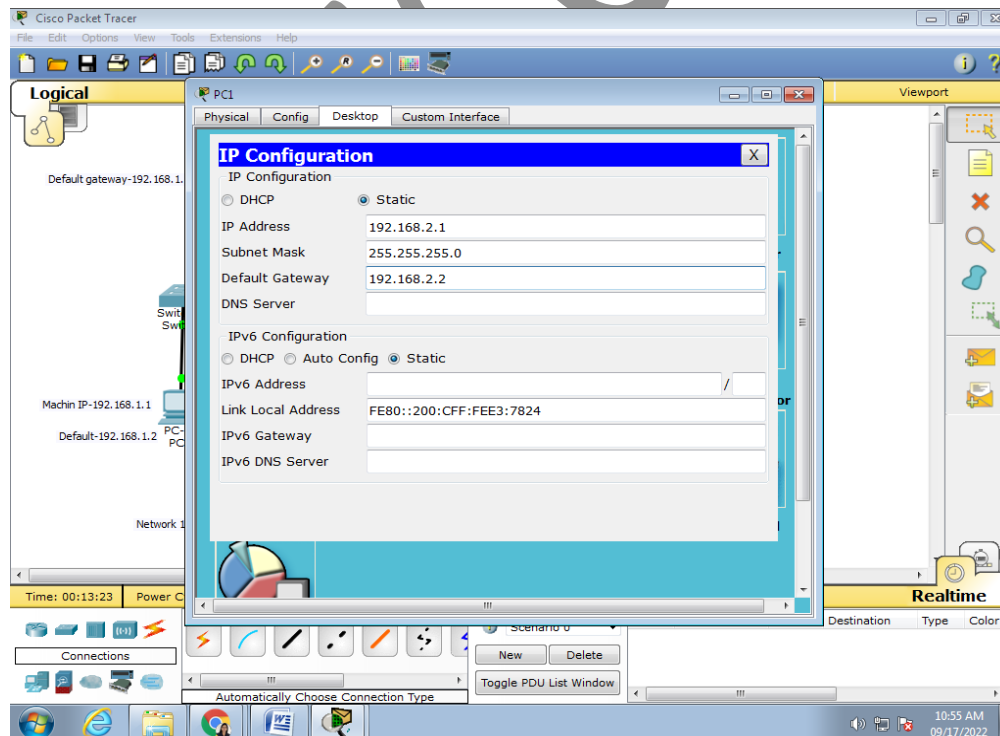
CONGIURATION USING PACKET TRACER: Setup:



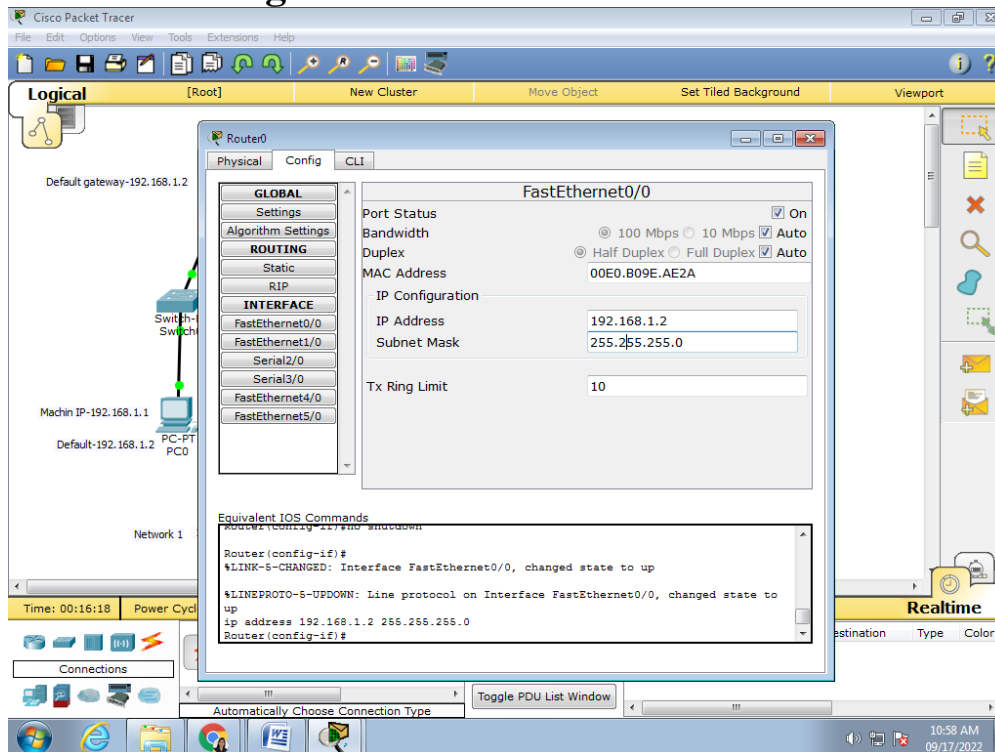
PC 0 configuration:



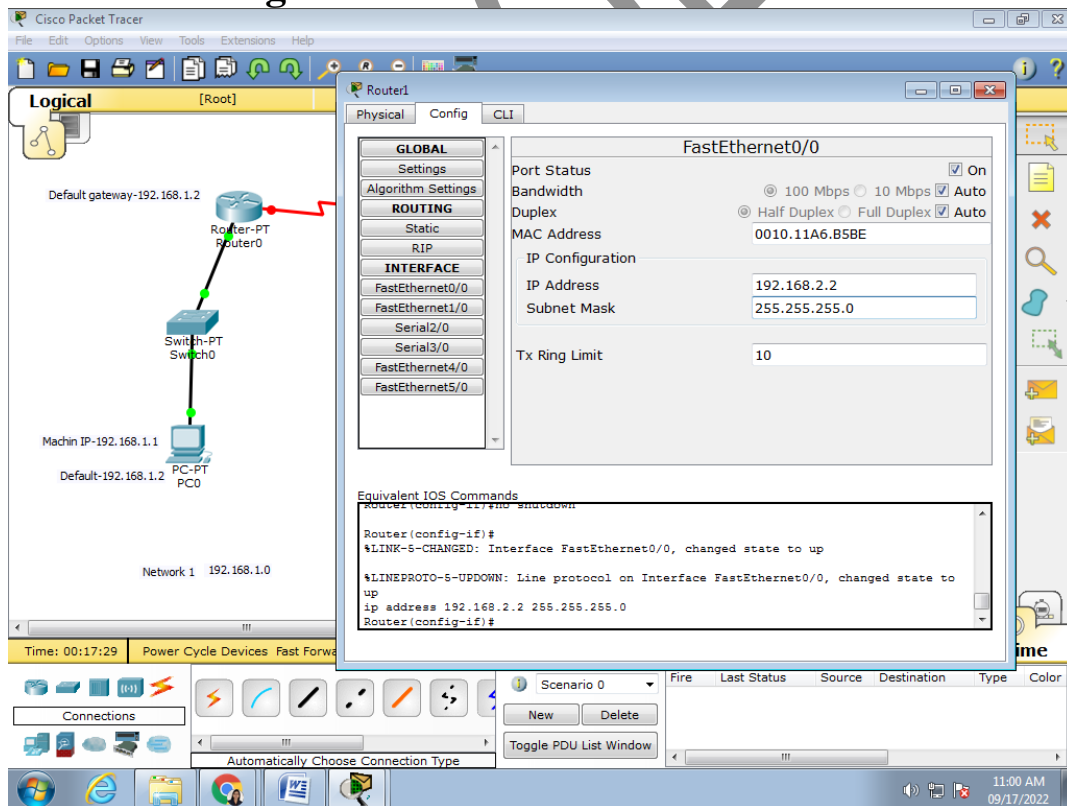
PC 1 configuration:



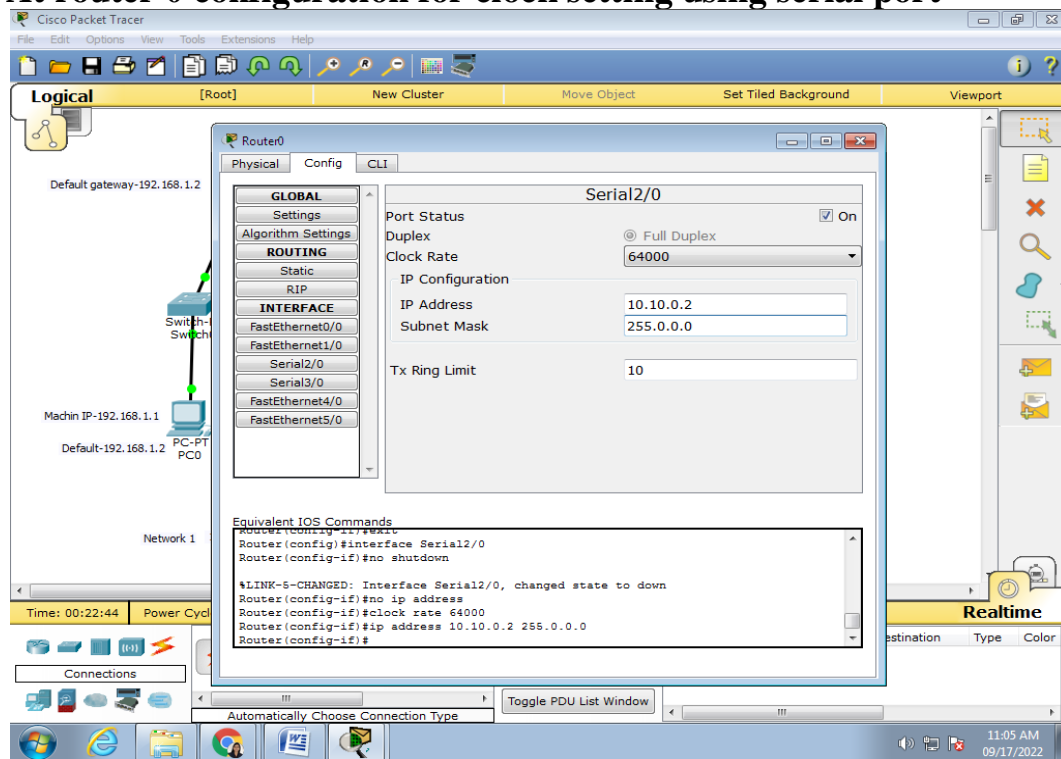
Router 0 configuration:



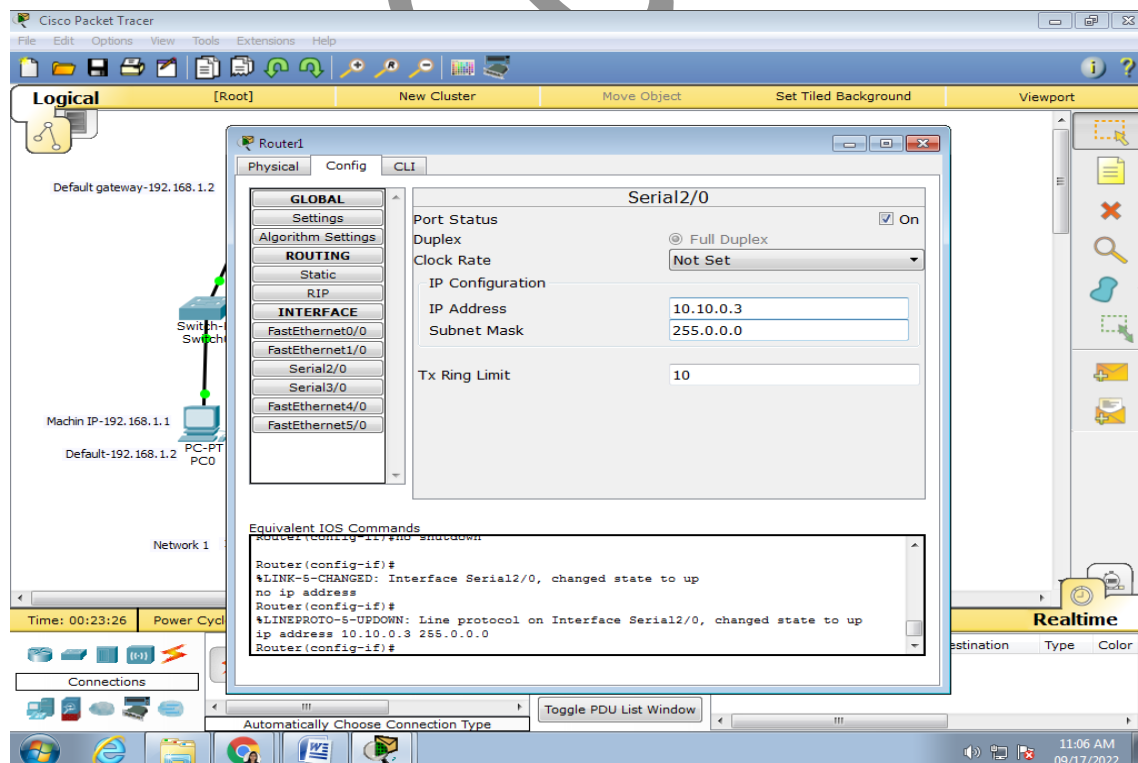
Router 1 configuration:



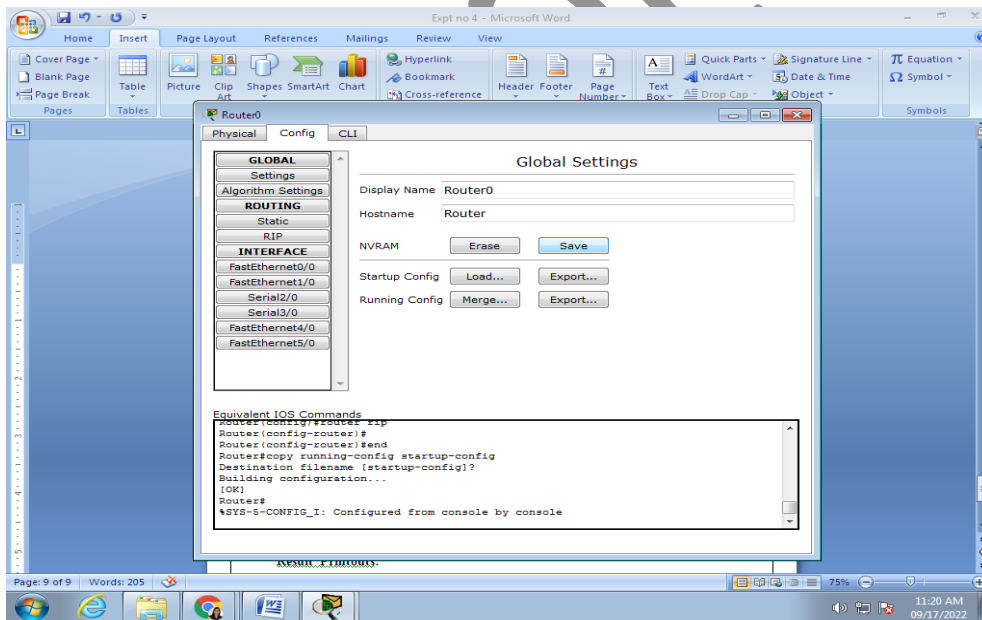
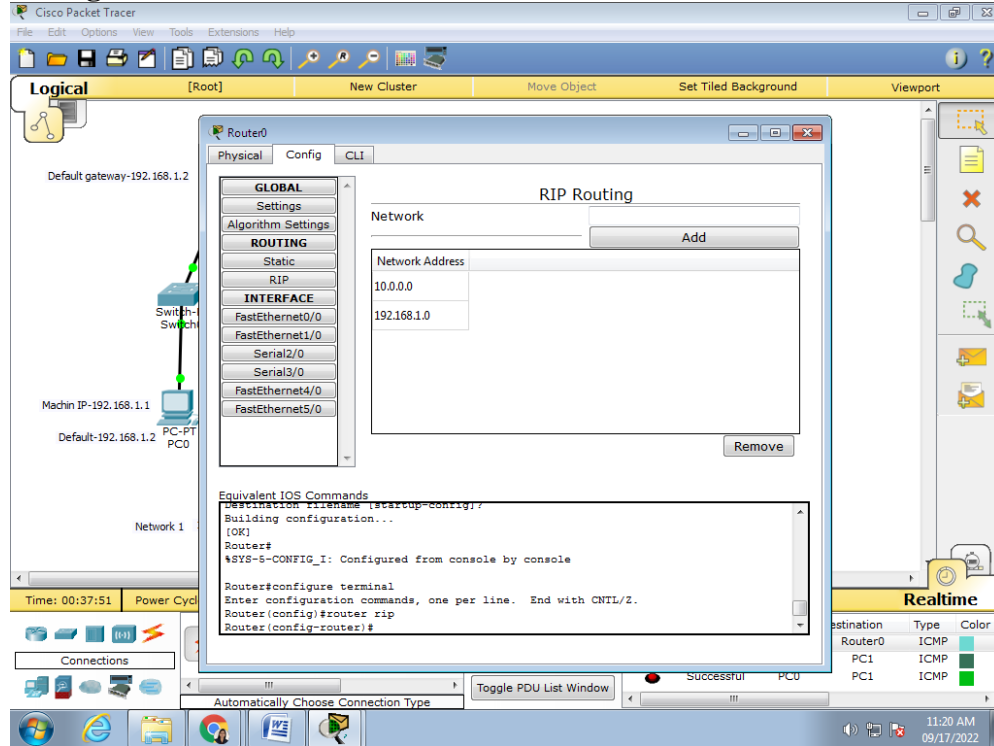
At router 0 configuration for clock setting using serial port

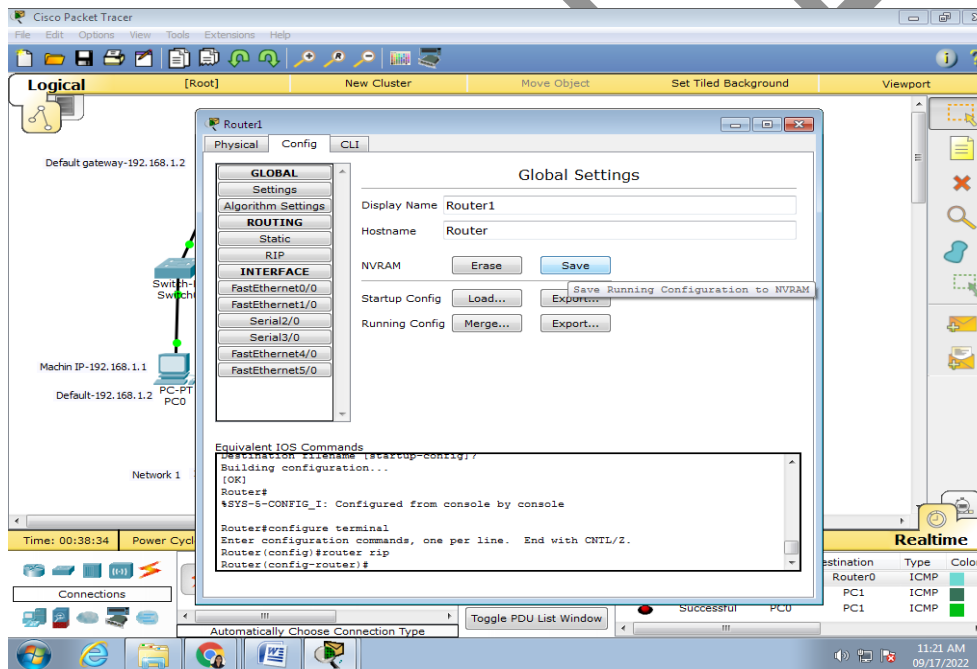
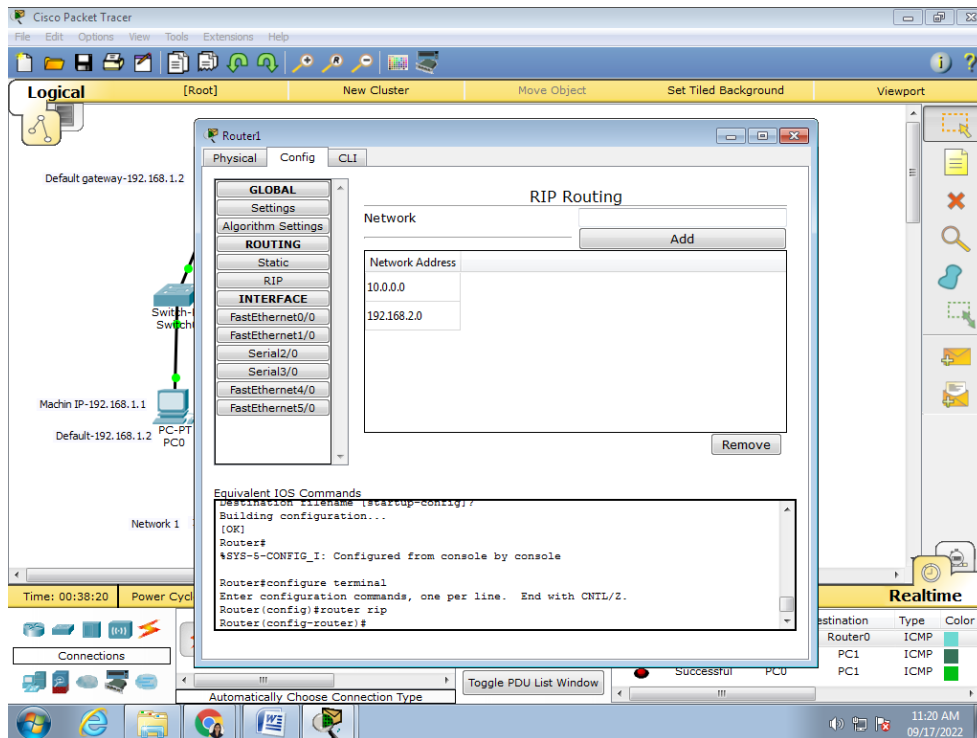


At router 1 configuration no need clock setting using serial port, remaining setting as it is

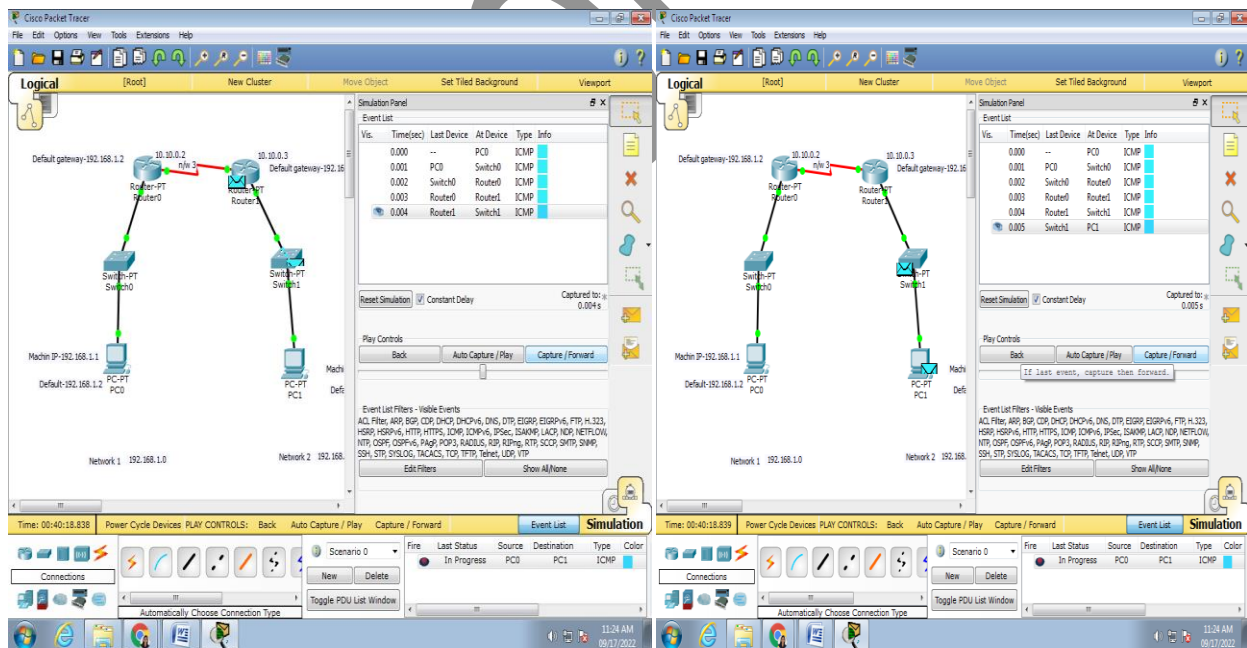
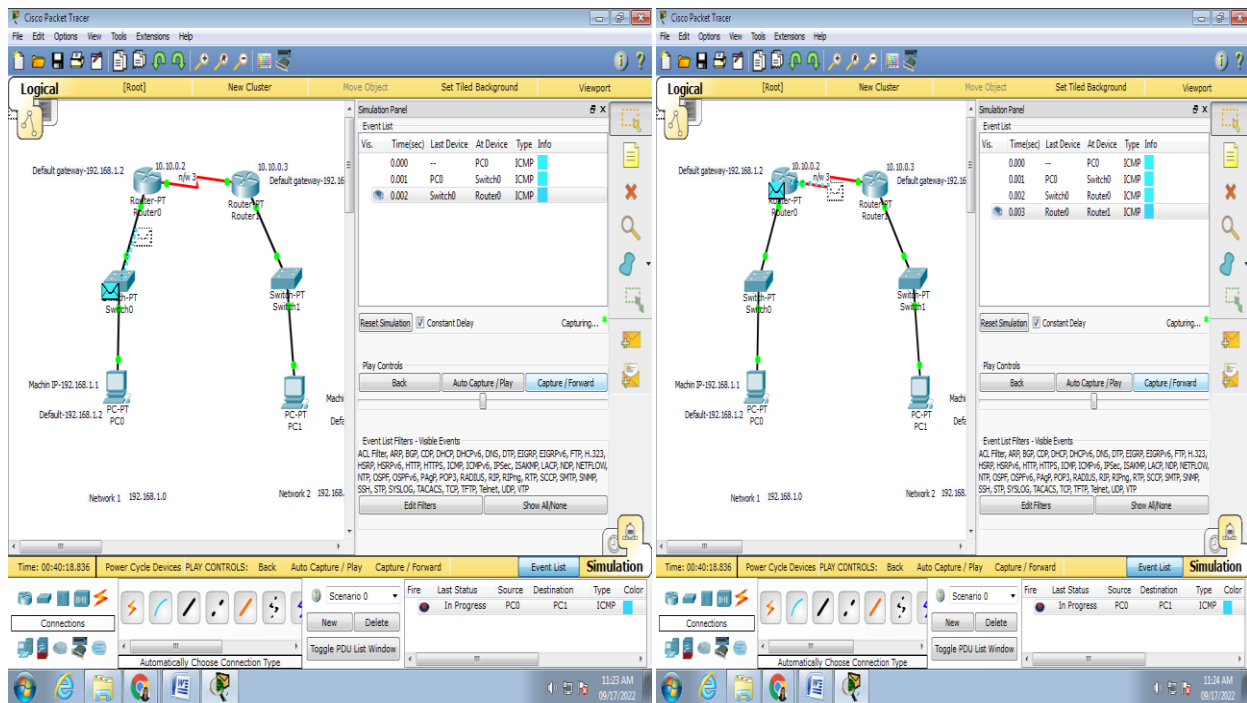


Setting for RIP:





Simulation:



Result Printouts:

CONCLUSION:

GSMCOE, E&TC