VIT®

Vellore Institute of Technology

(Deemed to be University under section 3 of UGC Act, 1956)

LAB ASSESSMENT-1

SLOT: L49-L50

CSE 3502: INFORMATION SECURITY MANAGEMENT

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Submitted to:

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Experiment1: CONNECTING TWO VLANS BY SWITCHES

Aim:

The goal of this project is to use switches to join two LANS.

Procedure:

STEP 1: PC/ Computer Configuration:

PC1 : 192.168.1.1

PC2 : 192.168.1.2

PC3 : 192.168.1.3

PC4 : 192.168.1.4

STEP 2: Switch 1 Configuration:

switch>en

switch>conf t

switch (config)# interfce vlan1

switch (config-if)# ip address 10.0.0.1 255.0.0.0

switch (config-if)# no shut

#exit

STEP 3: Switch 2 configuration:

switch>en

switch>conf t

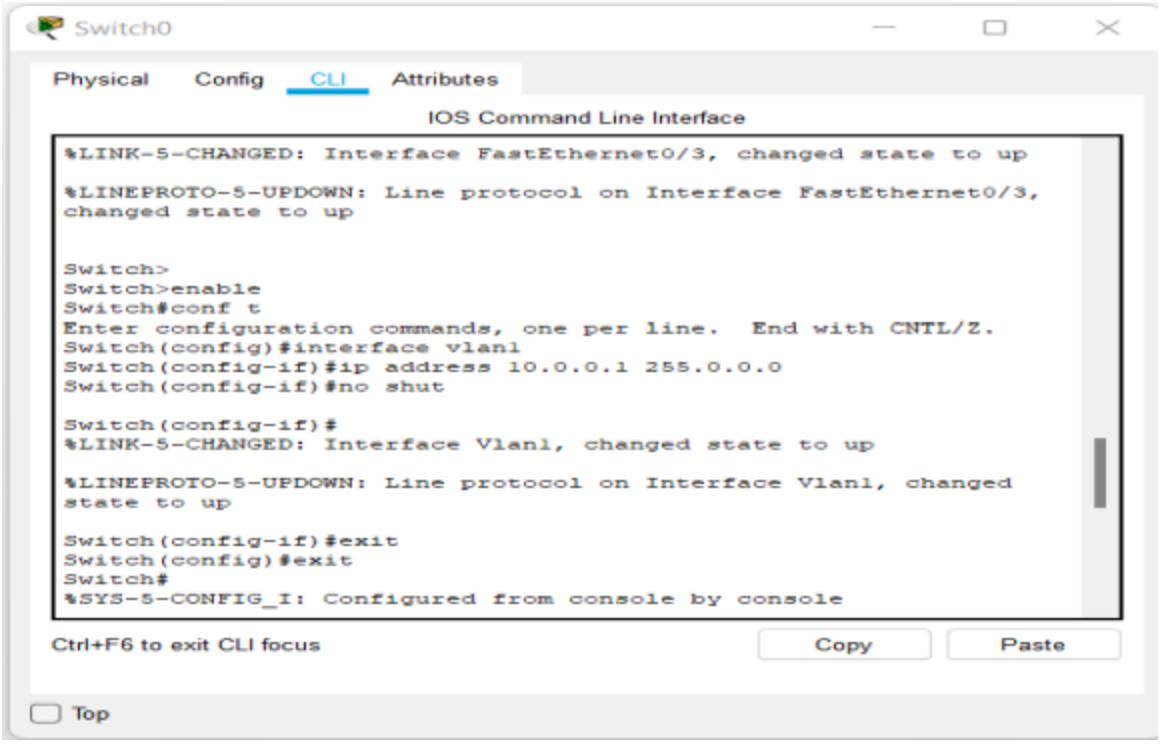
switch (config)# interfce vlan2

switch (config-if) # ip address 10.0.0.2 255.0.0.0

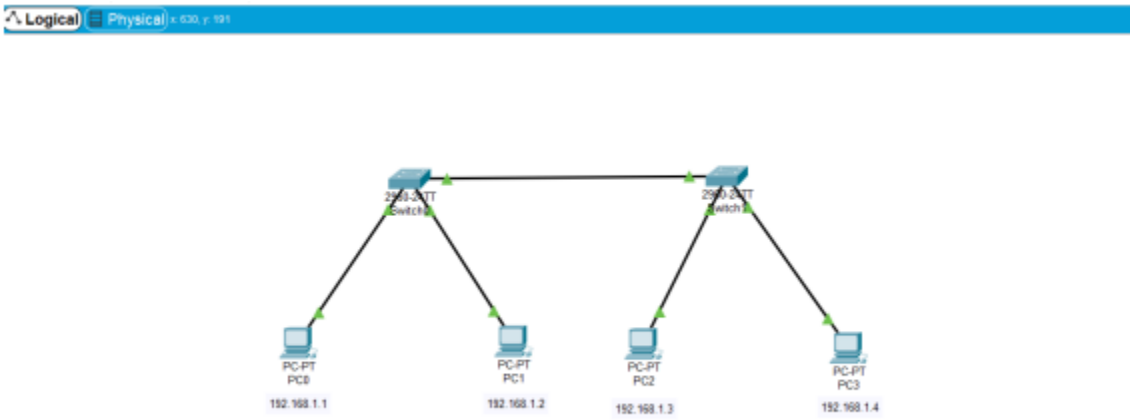
switch (config-if)# no shut

#exit

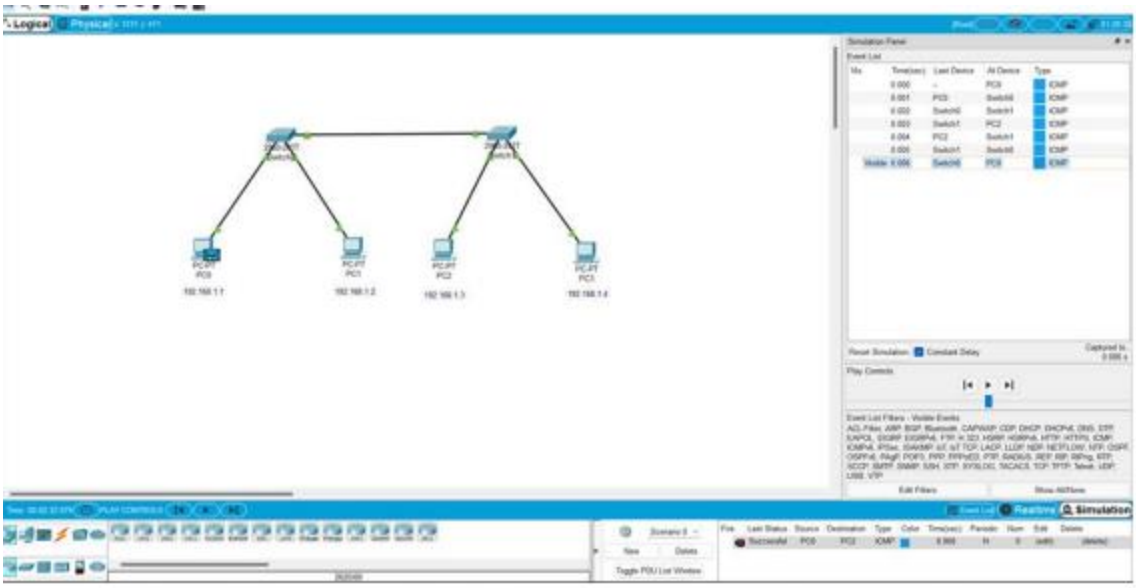
CLI:



Design:



Simulation and Result:



Conclusion:

We may deduce from the above simulation and outcome that there is a switch connection between two LANs.

Experiment 2: CONNECTING TWO NETWORKS USING A ROUTER.

Aim:

The goal of the experiment is to use a Router to link two networks.

Procedure:

STEP 1: Router Configuration:

Router>en

Router>enable

Router>conf

Router (config) #interface gigabitEthernet 0/0

Router (config-if) #ip address 192.168.1.1 255.255.255.0

Router (config-if) #no shutdown

Router (config-if) #exit

Router (config) #interface gigabitEthernet 0/1

Router (config-if) #ip address 192.168.2.1 255.255.255.0

Router (config-if) #no shutdown

STEP 2: PC Configuration:

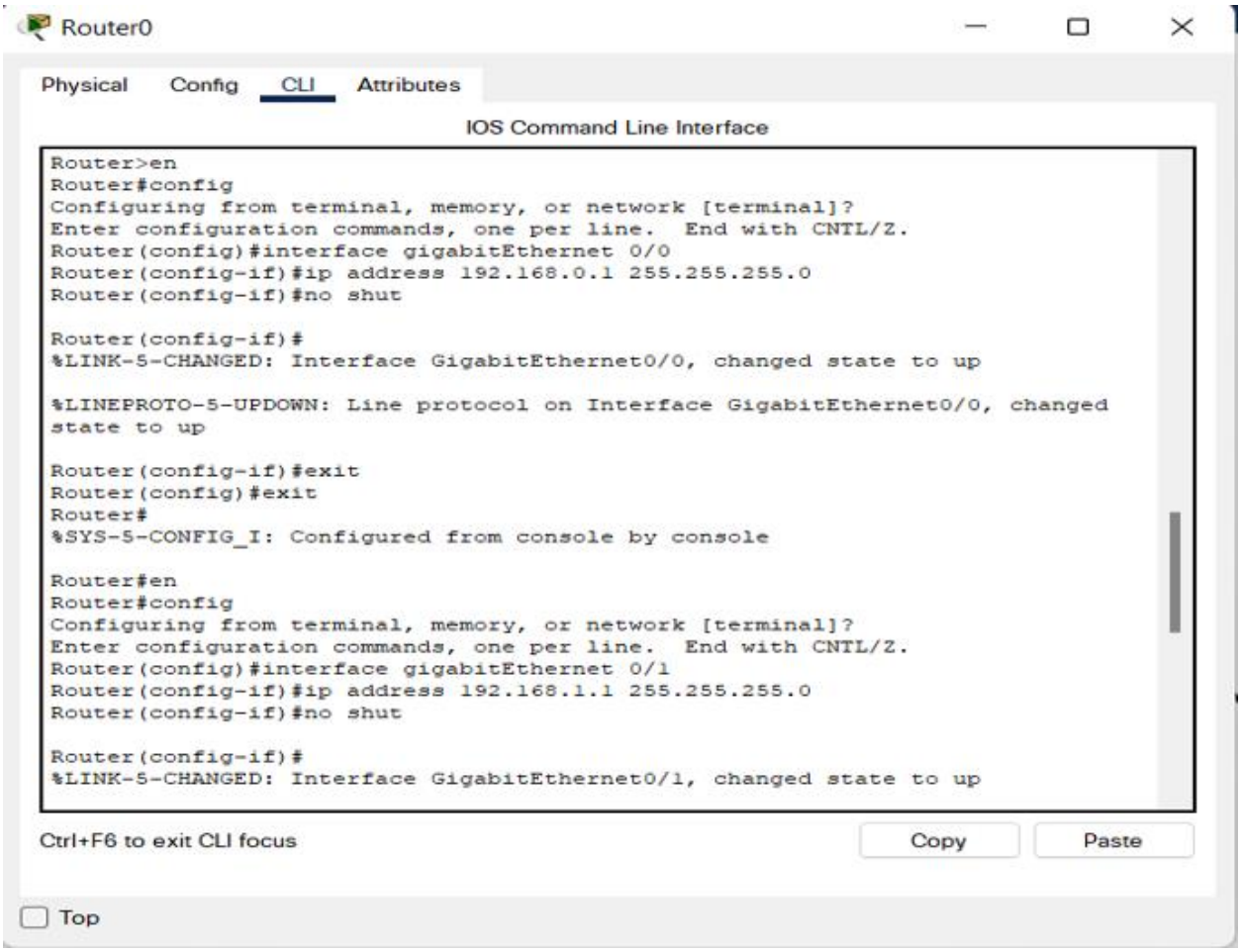
Give addresses for Pcs in Network1 as: 192.168.1.11 to 192.168.1.13

Give addresses for Pcs in Network2 as: 192.168.2.11 to 192.168.2.13

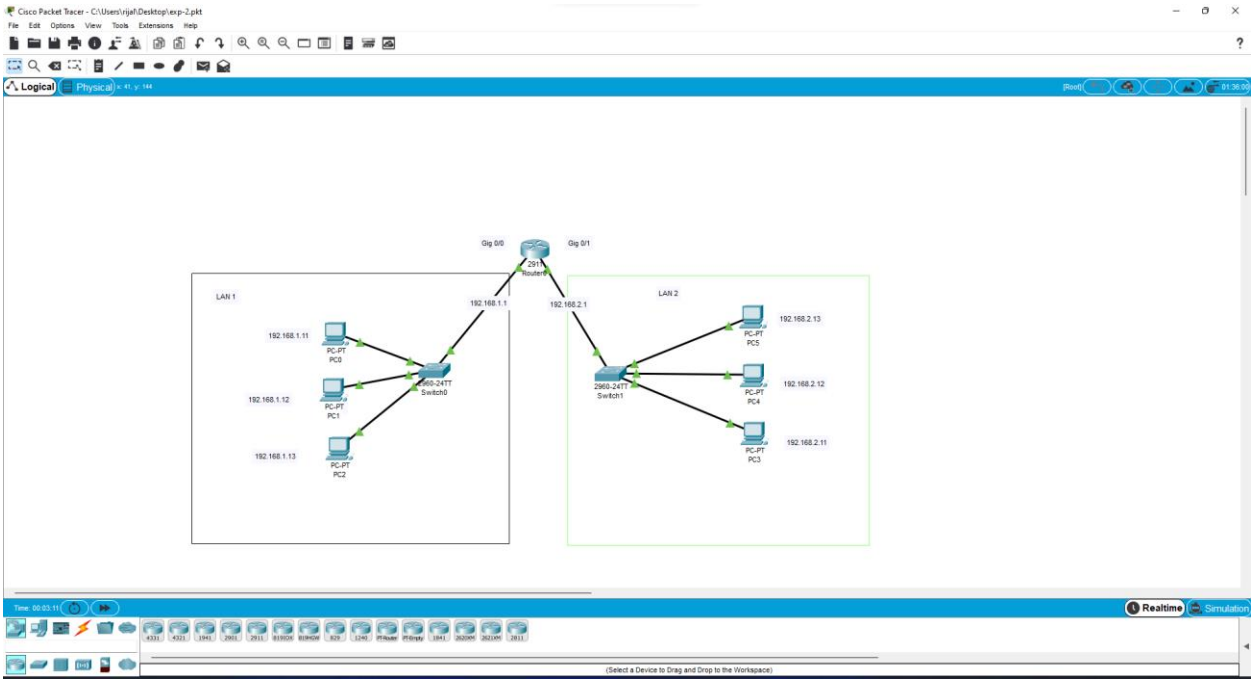
Set default gateway for the leftside network as 192.168.1.1

Set default gateway for the leftside network as 192.168.2.1 edure:

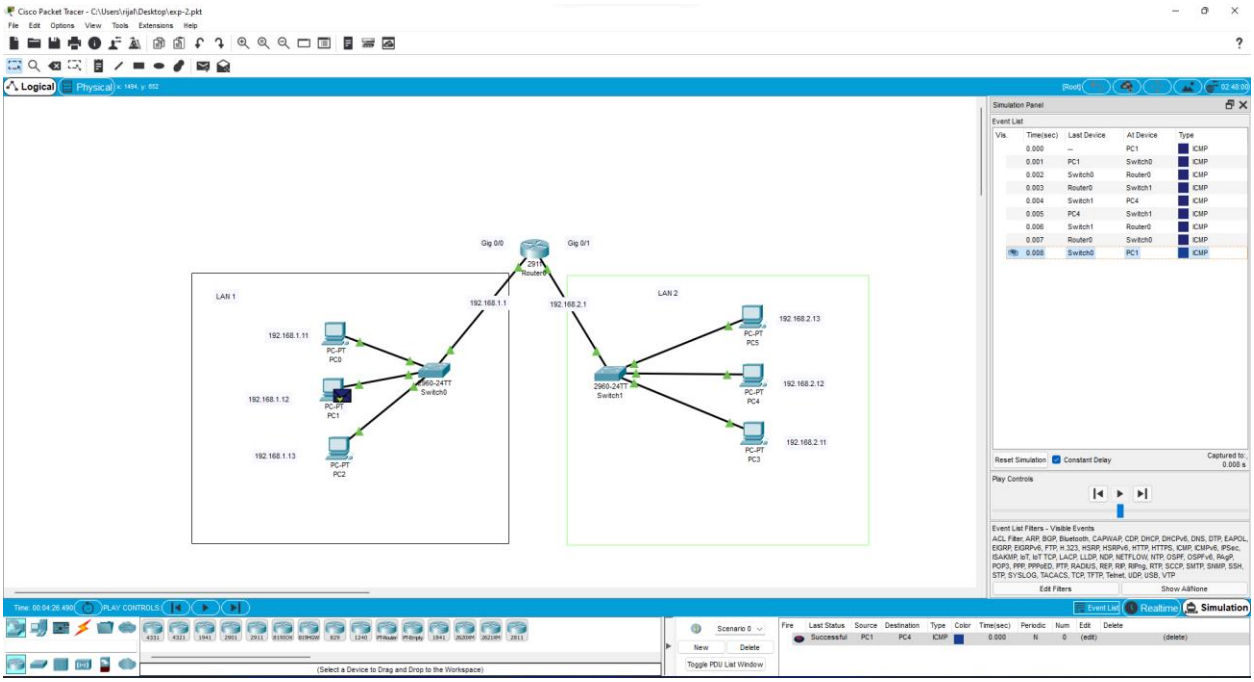
CLI:



Design:



Simulation and Result:



Conclusion:

We may deduce from the above simulation and result that there is a Router link between two networks.