WORKSHEET – 3.3

Name:

Section/Group:

UID:

Subject: Computer Networks Lab

Date of Submission: 6.5.2022

Branch: BE CSE (4th Semester)

Aim:

To show TCP/IP Protocol.

Objective:

Understand how to assign IP address to computer.

Requirements:

Cisco Packet Tracer
Generic Router
Switch End
Devices.

Steps:

Step 1: Create a system using routers, switches and different end devices.

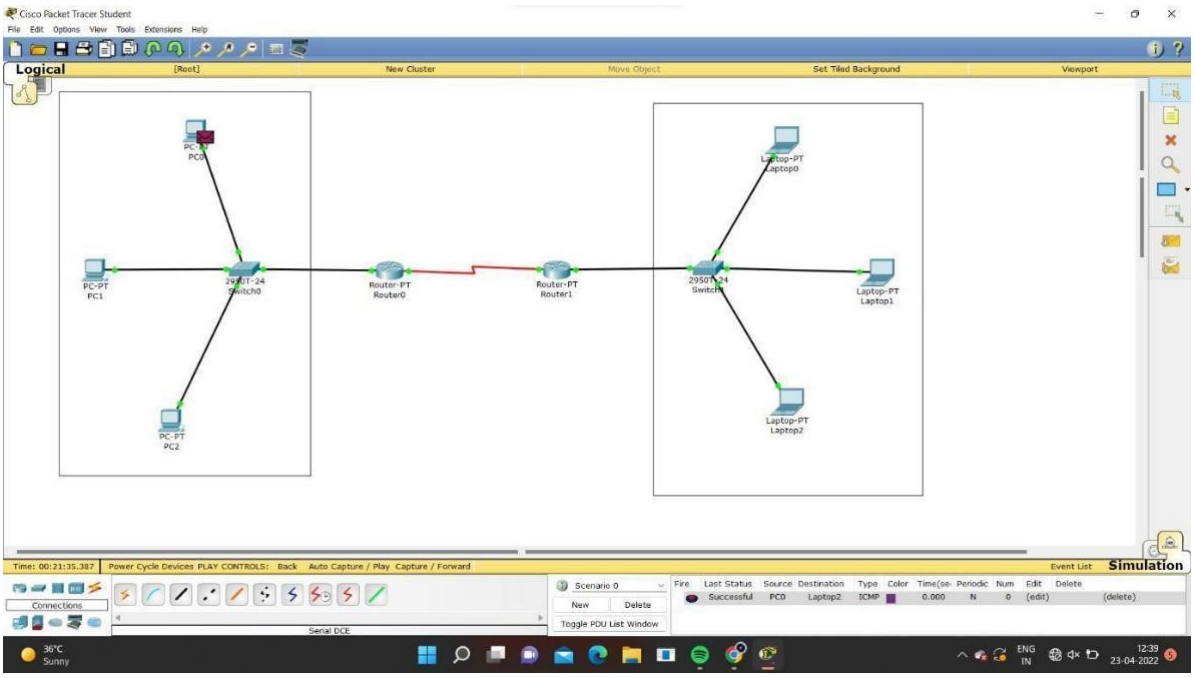
Step 2: Connect all the end- devices with switch.

Step 3: Connect router with each other.

Step 4: Assign IPs to all devices.

Step 5: Drop Packet and start simulation.

Connection:



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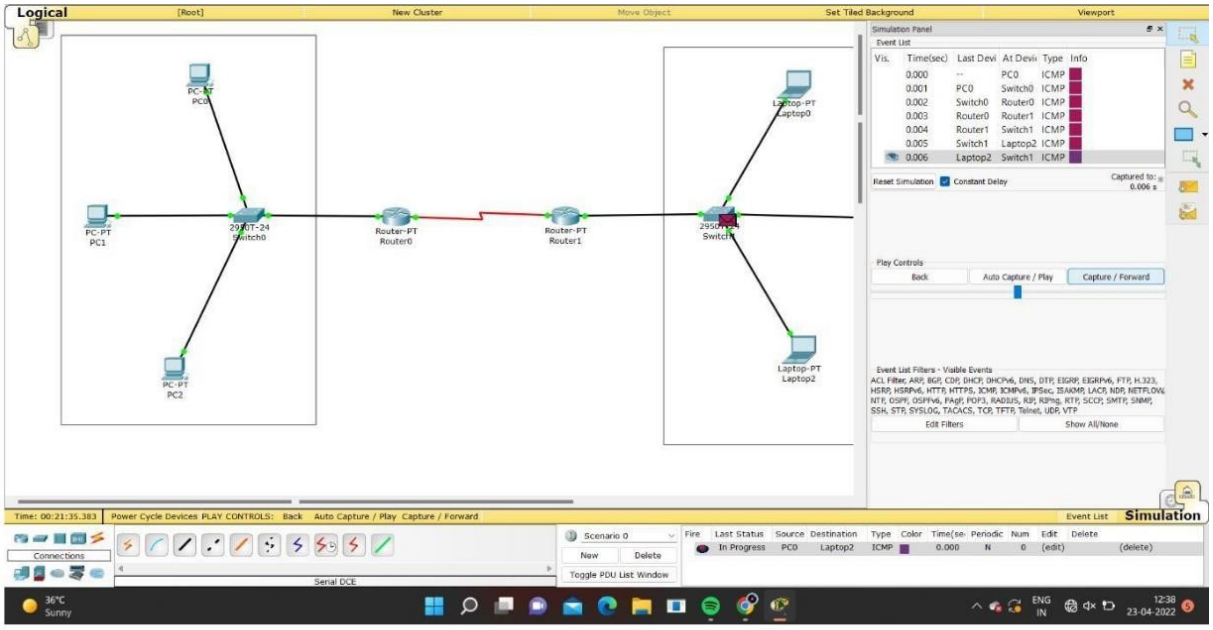

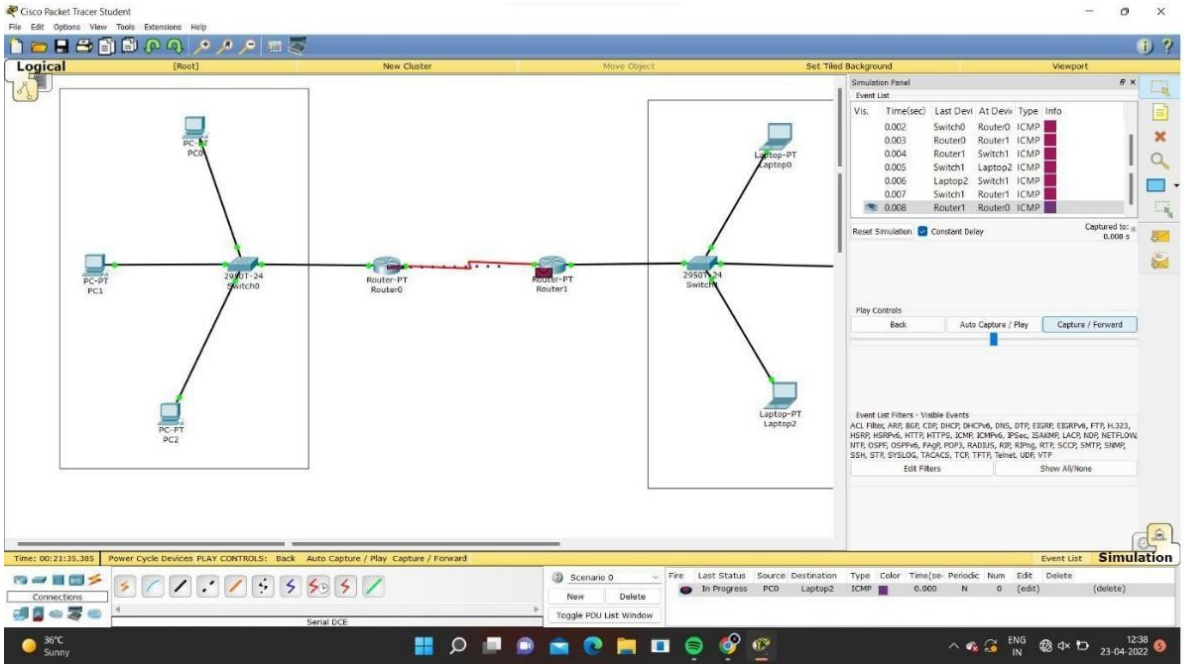

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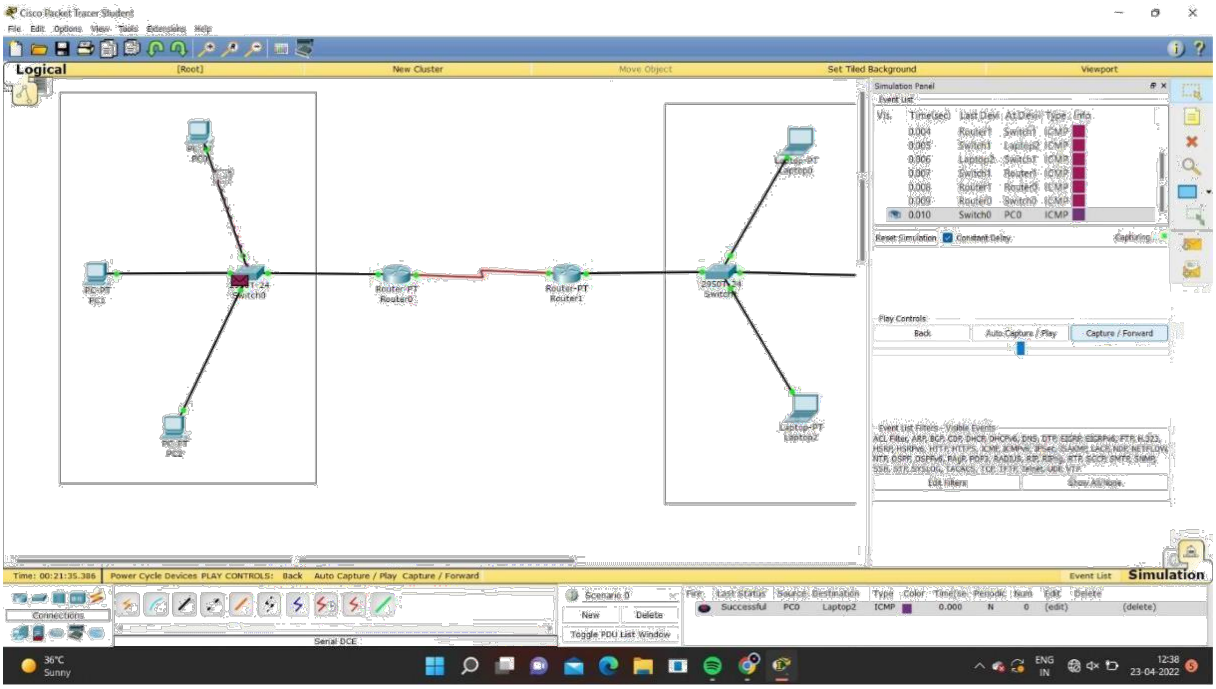
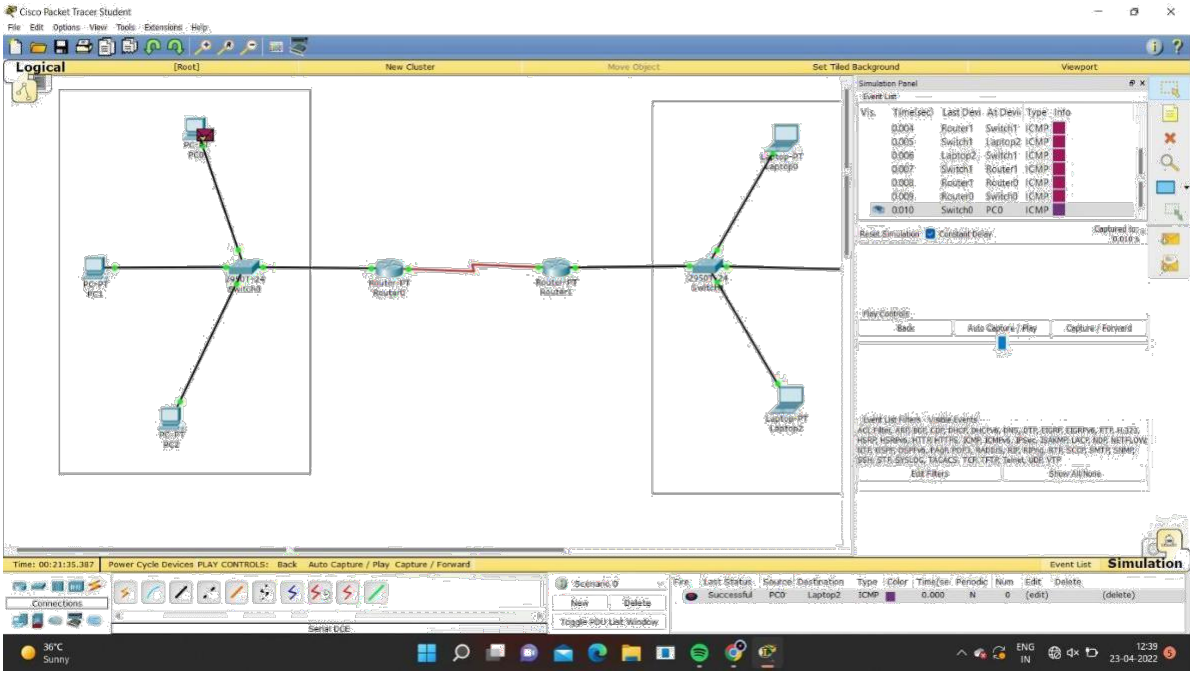

Cisco Packet Tracer Student
Logical
[Root]
New Cluster
Move Object
Set Tiled Background
Viewport
Simulation Panel
Event List
Vis. Time(sec) Last Dev At Dev Type Info
0.004 Router1 Switch1 ICMP
0.005 Switch1 Laptop2 ICMP
0.006 Laptop2 Switch1 ICMP
0.007 Switch1 Router1 ICMP
0.008 Router1 Router0 ICMP
0.009 Router0 Switch0 ICMP
0.010 Switch0 PC0 ICMP
Reset Simulation
Constant Delay
Play Controls
Back
Auto Capture / Play
Capture / Forward
Event List Filters - Visible Events
Edit Filters
Show All/None
Laptop-PT Laptop0
PC-PT PC3
2960-24TT Switch0
Router-PT Router0
Router-PT Router1
Laptop-PT Laptop2
PC-PT PC2
Time: 00:21:35.386
Power Cycle Devices PLAY CONTROLS: Back Auto Capture / Play Capture / Forward
Event List
Simulation
Connections
Serial DCE
Scenario 0
New
Delete
Toggle PDU List Window
Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete
Successful PC0 Laptop2 ICMP 0.000 N 0 (edit) (delete)
36°C
Sunny
ENG
IN
12:38
23-04-2022


Cisco Packet Tracer Student
Logical
[Root]
New Cluster
Move Object
Set Tiled Background
Viewport
Simulation Panel
Event List
Vis. Time(sec) Last Devi At Devi Type Info
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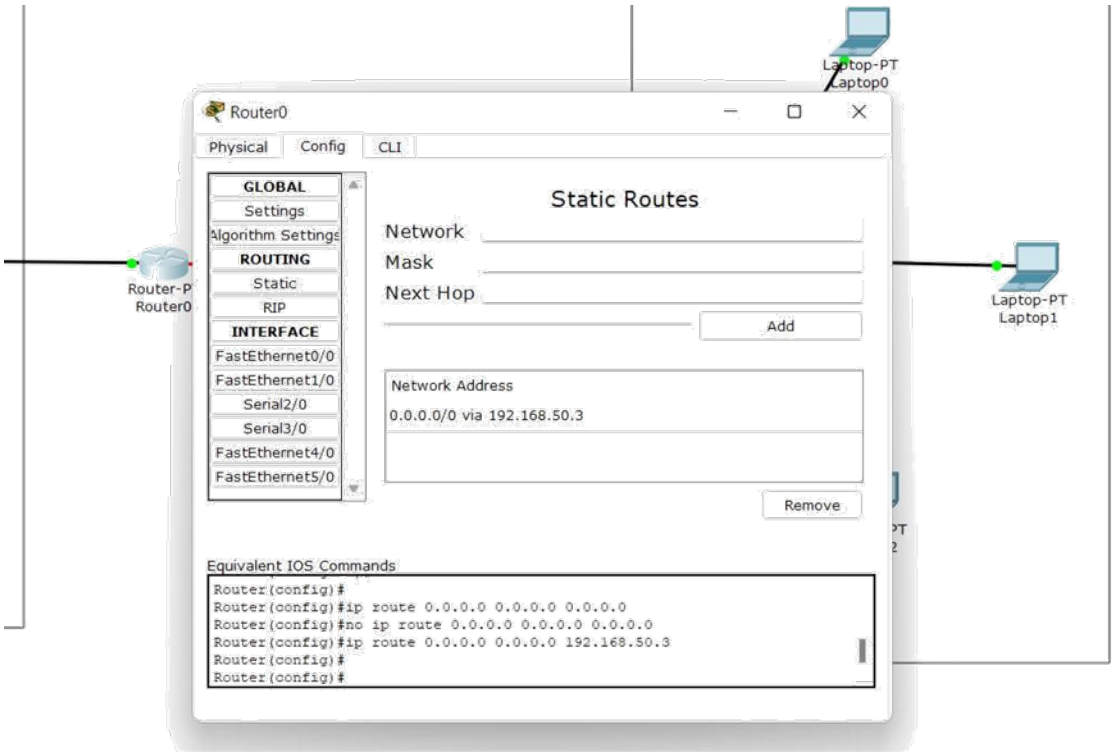
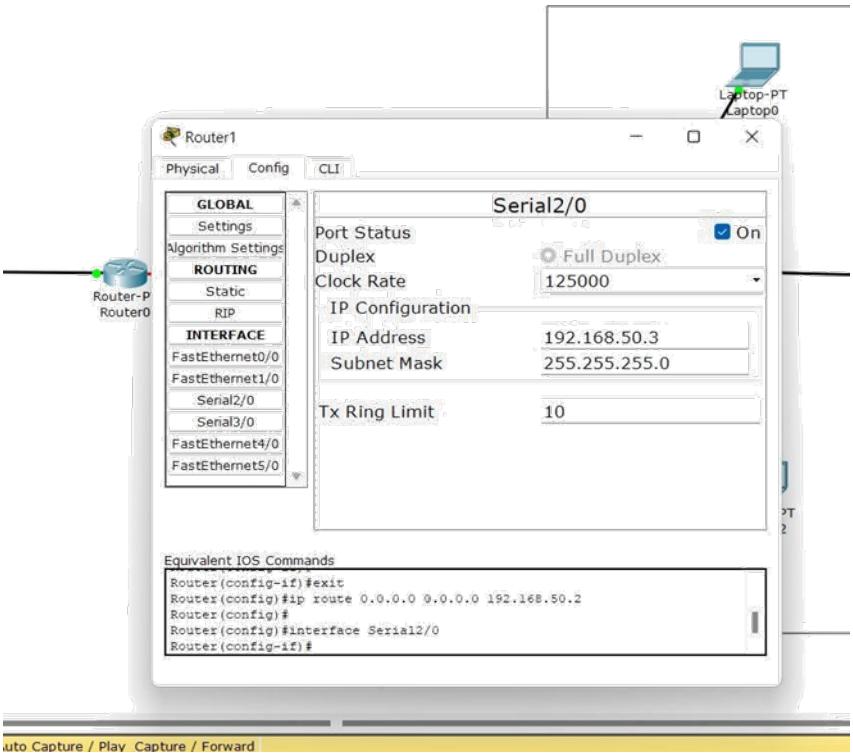
0.005 Switch1 Laptop2 ICMP
0.006 Laptop2 Switch1 ICMP
0.007 Switch1 Router1 ICMP
0.008 Router1 Router0 ICMP
0.009 Router0 Switch0 ICMP
0.010 Switch0 PC0 ICMP
Reset Simulation
Constant Delay
Play Controls
Back
Auto Capture / Play
Capture / Forward
Edit Filters
Show All/None
Time: 00:21:35.387
Power Cycle Devices PLAY CONTROLS: Back Auto Capture / Play Capture / Forward
Event List
Simulation
Connections
Serial DCE
Scenario 0
New
Delete
Toggle PDU List Window
Fire Last Status Source Destination Type Color Time(se Periodic Num Edit Delete
Successful PC0 Laptop2 ICMP 0.000 N 0 (edit) (delete)
36°C
Sunny
ENG
IN
12:39
23-04-2022


Laptop-PT
Laptop0
Router0
Physical
Config
CLI
GLOBAL
Settings
Algorithm Settings
ROUTING
Static
RIP
INTERFACE
FastEthernet0/0
FastEthernet1/0
Serial2/0
Serial3/0
FastEthernet4/0
FastEthernet5/0
Static Routes
Network
Mask
Next Hop
Add
Network Address
0.0.0.0/0 via 192.168.50.3
Remove
Equivalent IOS Commands
Router(config)#
Router(config)#ip route 0.0.0.0 0.0.0.0 0.0.0.0
Router(config)#no ip route 0.0.0.0 0.0.0.0 0.0.0.0
Router(config)#ip route 0.0.0.0 0.0.0.0 192.168.50.3
Router(config)#
Router(config)#
Router-P
Router0
Laptop-PT
Laptop1


Laptop-PT
Laptop0
Router1
Physical
Config
CLI
GLOBAL
Settings
Algorithm Settings
ROUTING
Static
RIP
INTERFACE
FastEthernet0/0
FastEthernet1/0
Serial2/0
Serial3/0
FastEthernet4/0
FastEthernet5/0
Serial2/0
Port Status
On
Duplex
Full Duplex
Clock Rate
125000
IP Configuration
IP Address
192.168.50.3
Subnet Mask
255.255.255.0
Tx Ring Limit
10
Router-P
Router0
Equivalent IOS Commands
Router(config-if)#exit
Router(config)#ip route 0.0.0.0 0.0.0.0 192.168.50.2
Router(config)#
Router(config)#interface Serial2/0
Router(config-if)#
uto Capture / Play Capture / Forward