PARSHVANATH CHARITABLE TRUST'S

A. P. SHAH INSTITUTE OF TECHNOLOGY

Department of Information Technology

(NBA Accredited)

Department of Information Technology

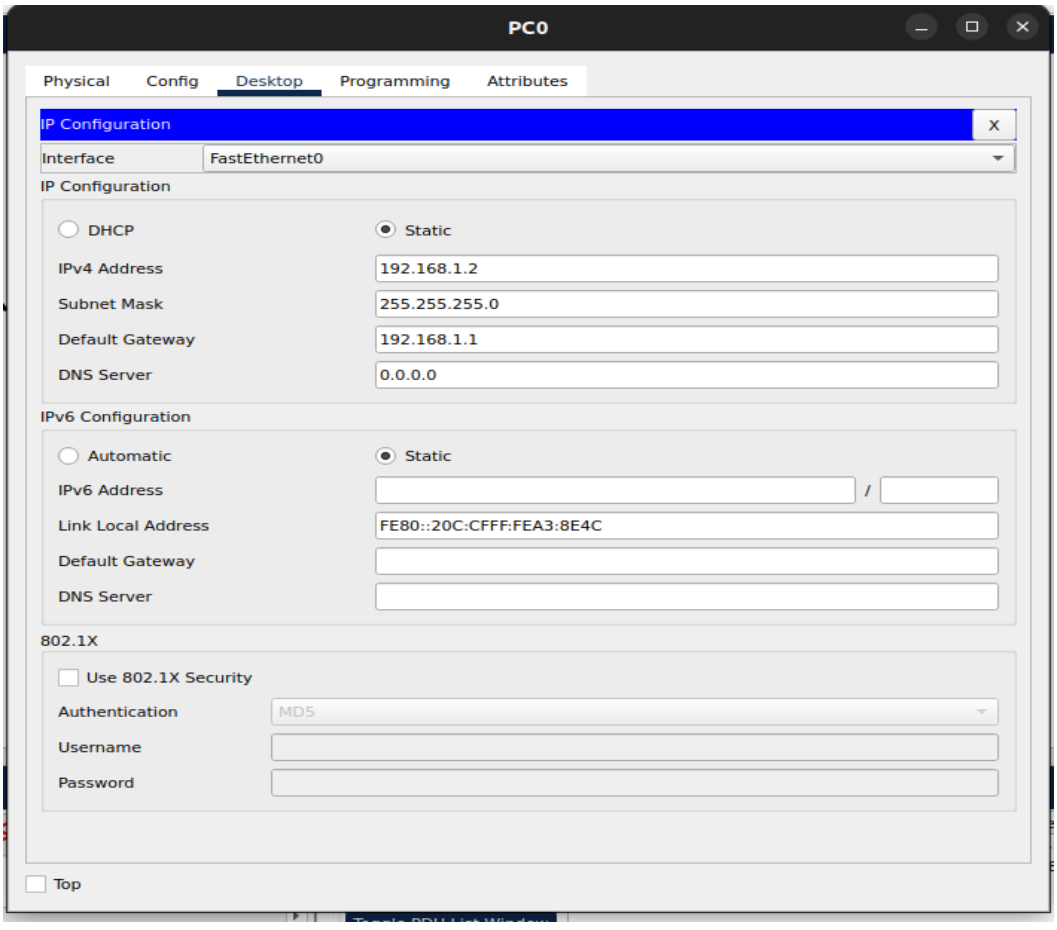
Academic Year: 2023-24
Semester: IV
Class / Branch: SE IT
Subject: Networking Lab
Name of Instructor: Prof.Jayshree Jha

Name of Student:Kartik J Patil
Student ID:22104023
Date of Performance:28/03/2024
Date of Submission:28/03/2024

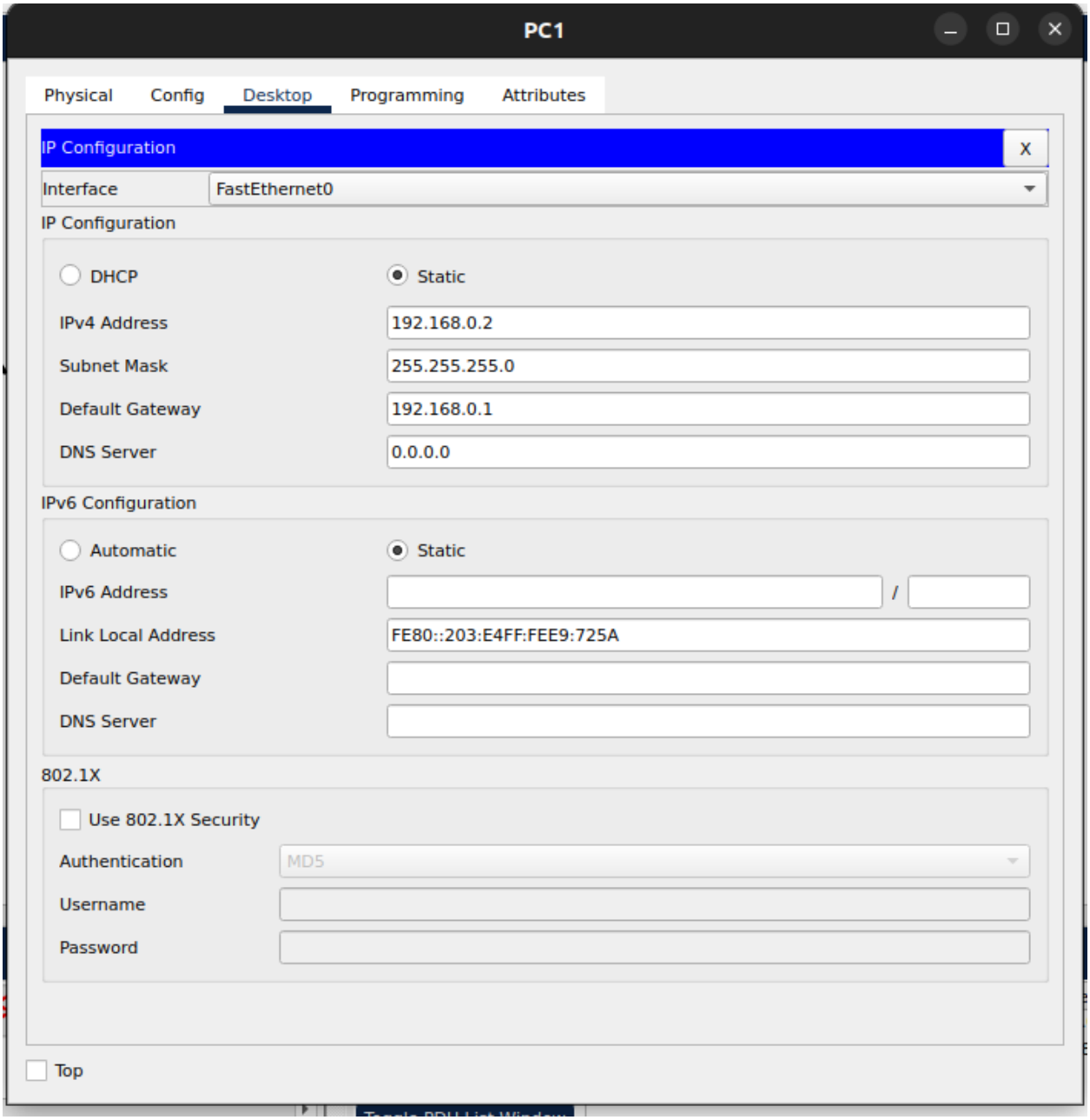
Experiment No. 09

Aim: To study use of CISCO packet tracer for designing organization network.

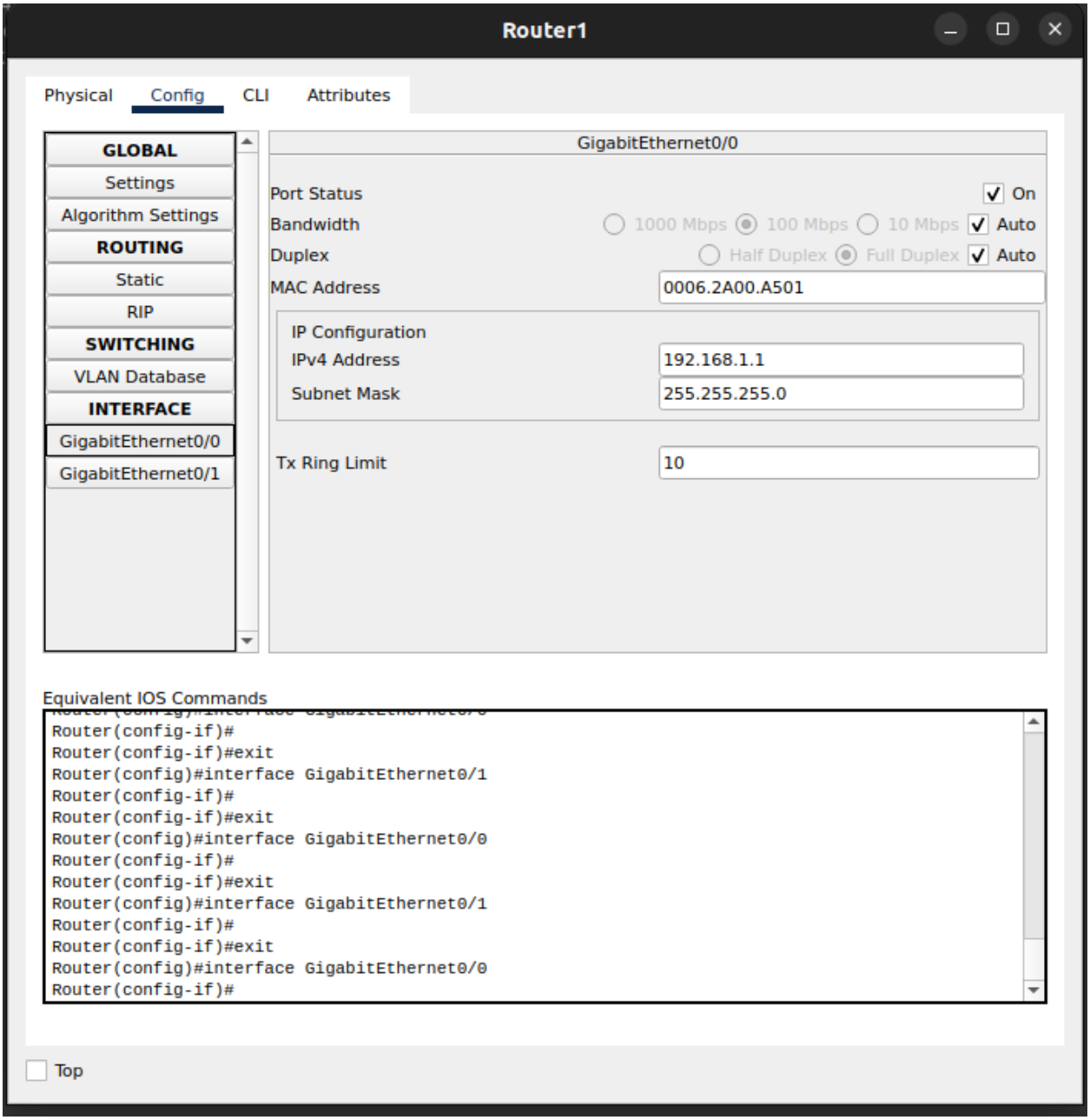
1)Pco

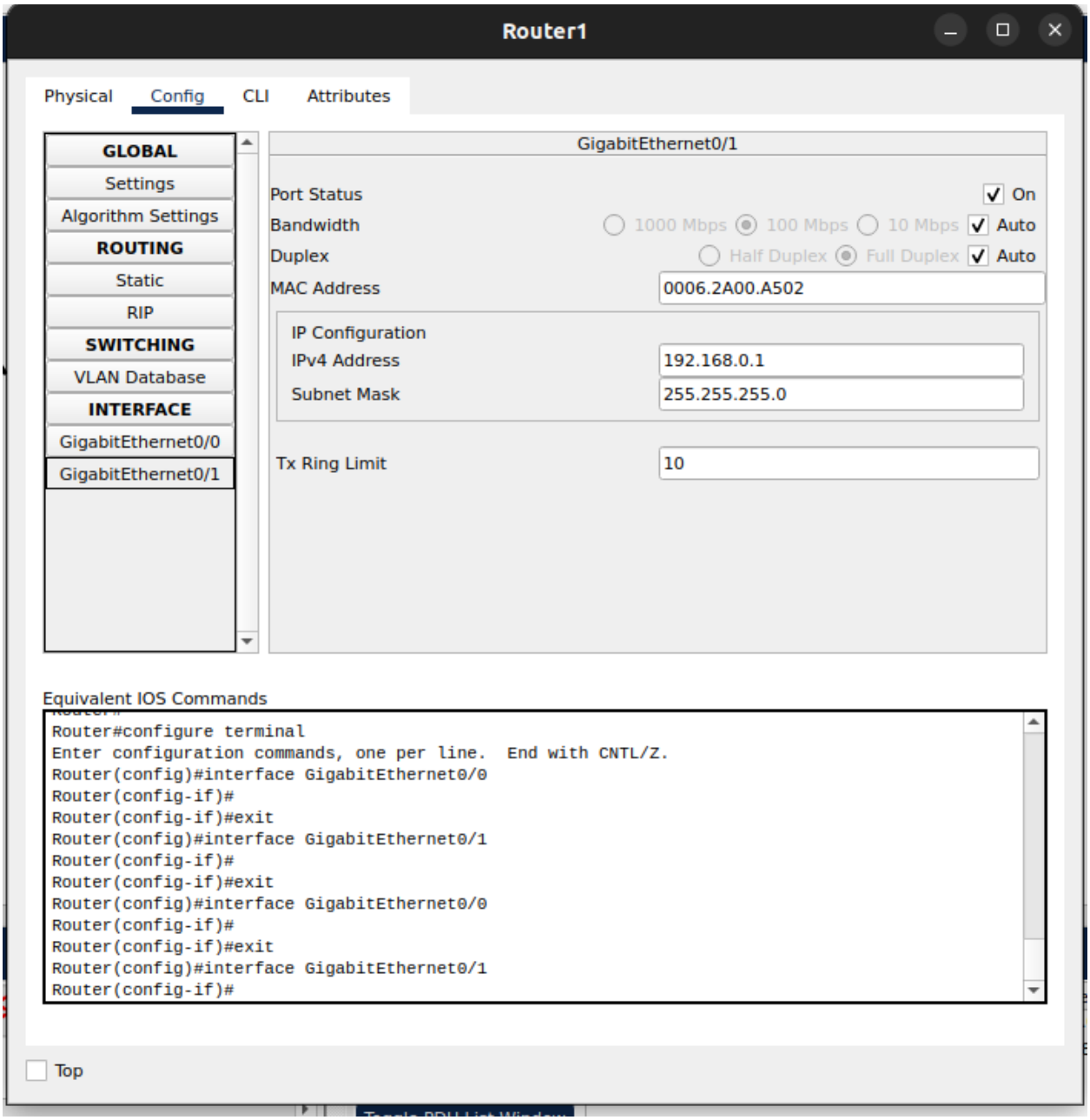


2)Pc1

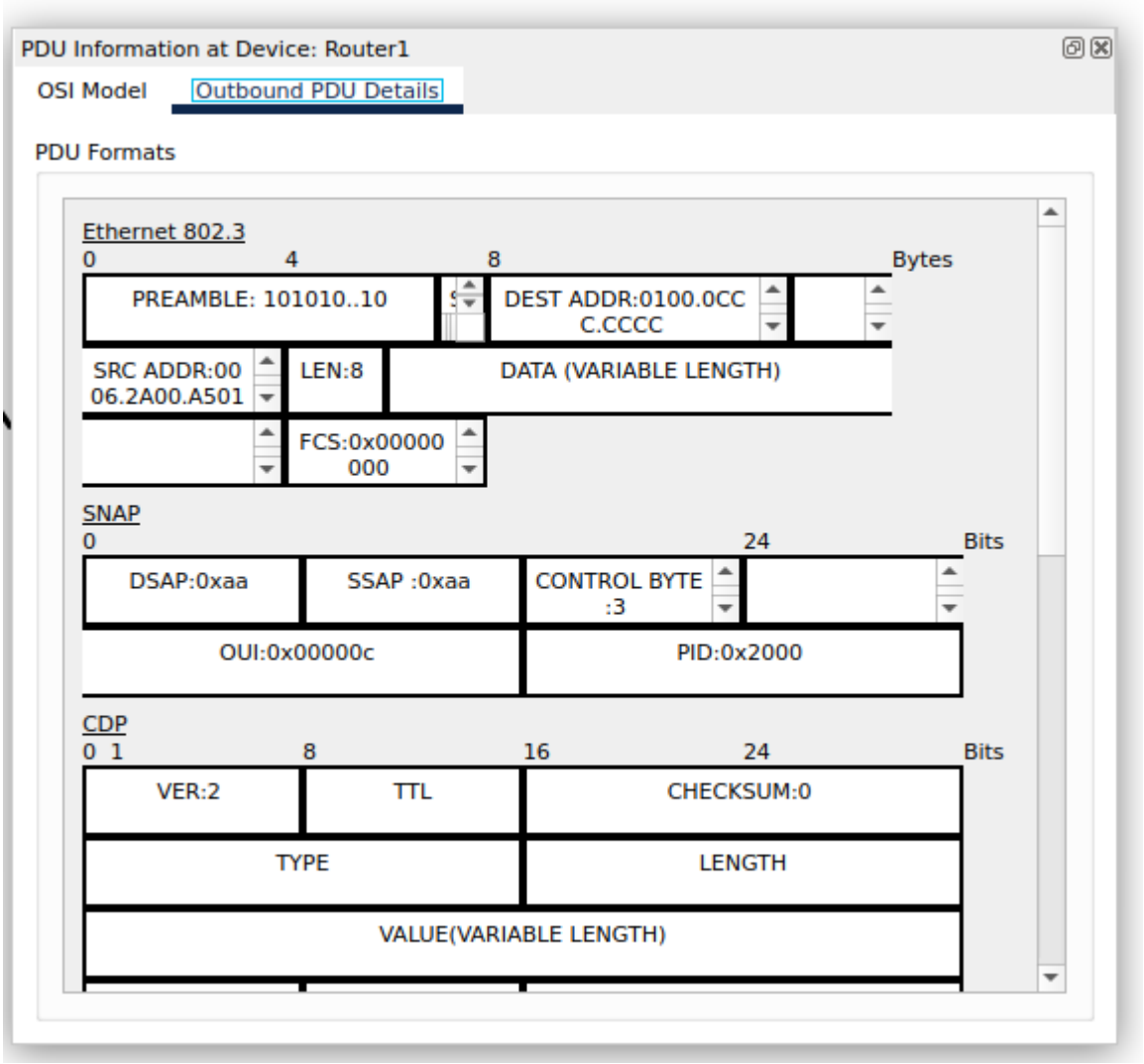

PC1
Physical
Config
Desktop
Programming
Attributes
IP Configuration
X
Interface
FastEthernet0
IP Configuration
DHCP
Static
IPv4 Address
192.168.0.2
Subnet Mask
255.255.255.0
Default Gateway
192.168.0.1
DNS Server
0.0.0.0
IPv6 Configuration
Automatic
Static
IPv6 Address
/
Link Local Address
FE80::203:E4FF:FEE9:725A
Default Gateway
DNS Server
802.1X
Use 802.1X Security
Authentication
MD5
Username
Password
Top

3)Router

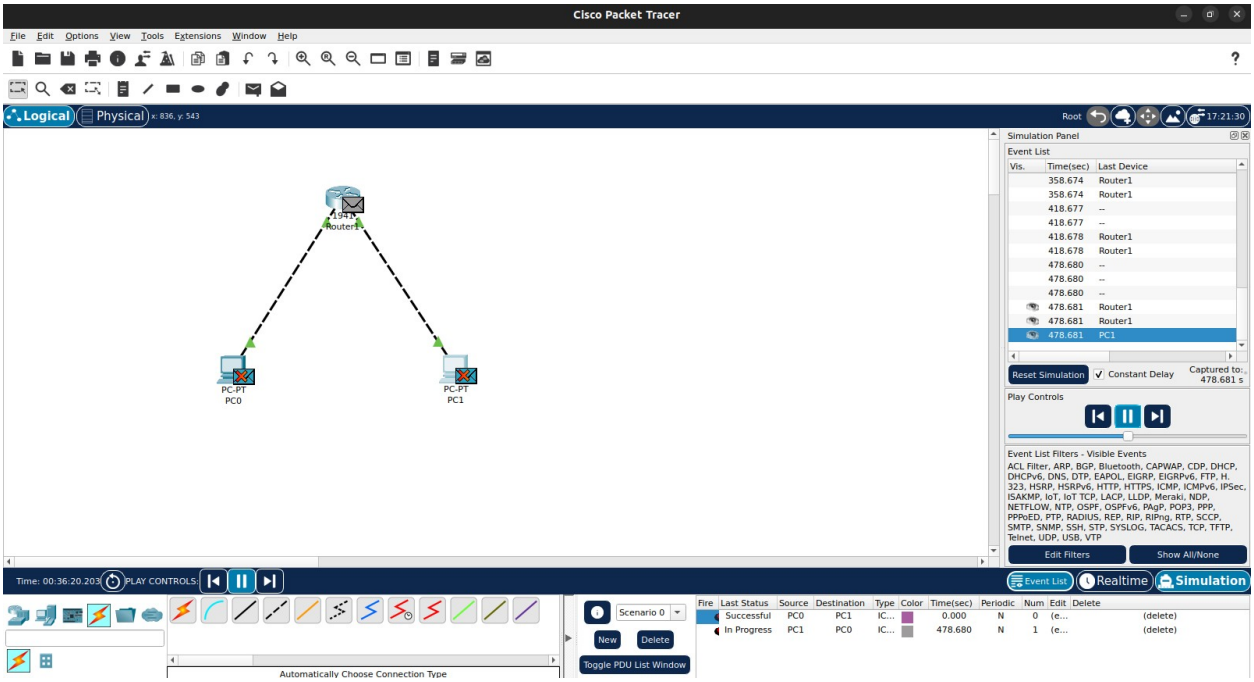

Router1
Physical
Config
CLI
Attributes
GLOBAL
Settings
Algorithm Settings
ROUTING
Static
RIP
SWITCHING
VLAN Database
INTERFACE
GigabitEthernet0/0
GigabitEthernet0/1
GigabitEthernet0/0
Port Status
On
Bandwidth
1000 Mbps
100 Mbps
10 Mbps
Auto
Duplex
Half Duplex
Full Duplex
Auto
MAC Address
0006.2A00.A501
IP Configuration
IPv4 Address
192.168.1.1
Subnet Mask
255.255.255.0
Tx Ring Limit
10
Equivalent IOS Commands
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/1
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/1
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/0
Router(config-if)#
Top


Router1
Physical
Config
CLI
Attributes
GLOBAL
Settings
Algorithm Settings
ROUTING
Static
RIP
SWITCHING
VLAN Database
INTERFACE
GigabitEthernet0/0
GigabitEthernet0/1
GigabitEthernet0/1
Port Status
On
Bandwidth
1000 Mbps
100 Mbps
10 Mbps
Auto
Duplex
Half Duplex
Full Duplex
Auto
MAC Address
0006.2A00.A502
IP Configuration
IPv4 Address
192.168.0.1
Subnet Mask
255.255.255.0
Tx Ring Limit
10
Equivalent IOS Commands
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface GigabitEthernet0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/1
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/1
Router(config-if)#
Top

4)PDU


PDU Information at Device: Router1
OSI Model
Outbound PDU Details
PDU Formats
Ethernet 802.3
0
4
8
Bytes
PREAMBLE: 101010..10
DEST ADDR:0100.0CC C.CCCC
SRC ADDR:00 06.2A00.A501
LEN:8
DATA (VARIABLE LENGTH)
FCS:0x00000 000
SNAP
0
24
Bits
DSAP:0xaa
SSAP :0xaa
CONTROL BYTE :3
OUI:0x00000c
PID:0x2000
CDP
0 1
8
16
24
Bits
VER:2
TTL
CHECKSUM:0
TYPE
LENGTH
VALUE(VARIABLE LENGTH)

5)Working



Conclusion: Hence we learner how to use of CISCO packet tracer for designing organization network.