


















# I N D E X

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STD: III<sup>rd</sup> year

CSE-B

SEC:                      ROLL NO. 220701122

S.No.	Date	Title	Page No.	Teacher's Sign/Remarks
1.	16/7/24	Study of various network commands used in linux & windows		
2.	23/7/24	Study of network cables		
3.	30/7/24	Experiments of CISCO PACKET TRACER (simulation tools)		
4.	6/8/24	Setup and configure a LAN using a switch and Ethernet cable		
5.	9/8/24	Experiments on packet capture tool; Wireshark		
6.	16/8/24	Error correction at data link layer (Hamming code)		
7.	23/8/24	Flow control at data link layer (Sliding window protocol)		
8.	10/9/24	Stimulate virtual LAN		
		Cisco Packet Tracer		
9.	30/9/24	Implementation of subnetting in CISCO Packet tracer		
10.	4/10/24	Internetworking using router, DHCP server and internet cloud		
11.	8/10/24	Stimulate static routing Protocol		
		Configuration using CISCO Packet & RIP		
12.	15/10/24	echo client TCP/UDP sockets chat client server TCP/UDP		
13.	22/10/24	write own Ping Problem		
14.	25/10/24	Raw sockets to implement		
		Packet Sniffing		
15.	29/10/24	weblizer tool		

Completed

Exp. no.

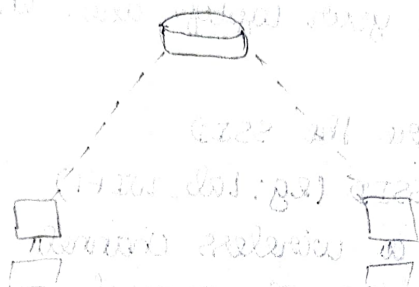
Practical-10

Date : 4/10/24

Aim

a) Internetworking with routers in CISCO packet tracer simulator

Design and configure a simple internetwork using a router



Procedure :

Step 1 (configuring Router):

Router> command line interface:

Router> enable

Router# config t

Enter configuration command. End with ctrl/z

Router(config)# interface FastEthernet 0/0

Router(config)# ip address 192.168.10.1 255.255.255.0

Router(config)# no shutdown

Step 2:- configuring PCs

1. Assign every PC in network

2. Assign the default gateway of PC0 as 192.168.10.1

3. Assign the default gateway PC1 as 192.168.20.1

Step 3

1. Connect FastEthernet 0 port of PC0 with FastEthernet 0/0

2. Connect FastEthernet 0/1 port of Router1





Exp.no : 106

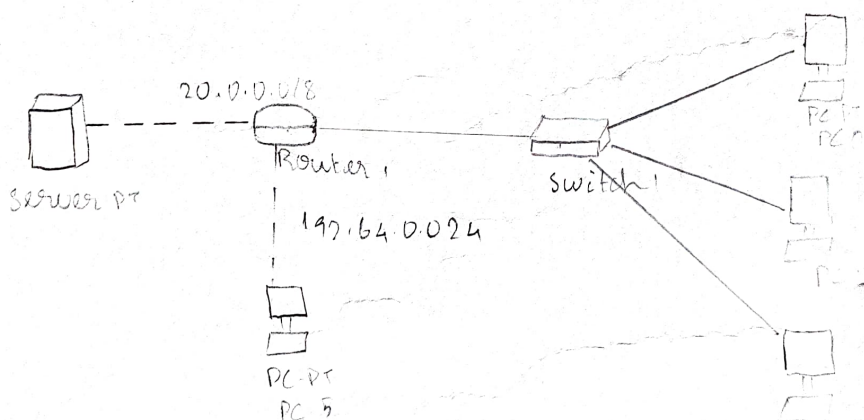
Date :

Aim:-

b) Design and configure an internetwork with wireless router, DHCP server and internet cloud  
Addressing Table

Device	Interface	IP address	Subnet mask	Default Gateway
PC	Ethernet	DHCP		192.168.0.1
Wireless Router	LAN	192.168.0.1	255.255.255.0	
Wireless router	Internet	DHCP		
Cisco.com server	Ethernet 0	208.67.220.220	255.255.255.0	
Laptop	wireless	DHCP		

DHCP server



Objectives

Part 1: Build a simple network in the logical topology workspace

Part 2: configure the network devices

Part 3: Test connectivity between network devices

Part 4: Save the file and close packet tracer

## student observation

- 1) write down the key features of configuring wireless router and DHCP server

\* wireless router: set SSID, enable security (WPA2/WPA3), select channel and configure MAC

\* DHCP server: define IP range, lease time, gateway, DNS, and assign static IPs for critical devices

- 2) What is the significance of DHCP server in internetworking

DHCP automate IP assignment, prevent conflicts and simplifies network setup especially in large network.

Result

The program is successfully executed and output is verified.