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Computer
Network Observation

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1.	13/7/2024	Basic Networking Commands.		
2.	24/7/2024	Study of different types of network cables.	1-8	24/7/24
3.	31/7/2024	Study of Packet tracer tool & its user interface	9-12	31/7/24
4.	05/8/2024	Setup and configuration of LAN network using cable. (1001)	13-14	05/8/24
5.	05/8/2024	Packet tracer tool: Wireshark	15-17	05/8/24
6.	21.8.2024	Implement error detection and correction using Hamming code & Code Correction	19-24	21/8/24
7.	02.09.2024	Sliding Window Protocol.	25-28	02/9/24
8a.	9.10.2024	Virtual LAN		
8b.	16.10.2024	Wireless LAN		
9.	18.10.2024	Subnetting in Cisco Packet Tracer		
10.	30.10.2024	Internetworking with router in Cisco		
11.	2.11.2024	Simulate static Routing		

Exp No: 11

Date:

Static Routing.

Aim:

a) Simulate the static Routing configuration using Cisco Packet Tracer.

b) Simulate RIP using Cisco packet tracer.

a). 1. Adding static Routes: Each router knows only the networks directly connected to it add static route to reach a network not directly connected.

Eg: Router 0, networks 10.0.0.0/8, 20.0.0.0/8, 40.0.0.0 are directly connected but 30.0.0.0/8, 50.0.0.0/8.

2). Creating main & Backup Routes.
Administrative Distance decides preference of routes. The lower the AD, the higher the performance.

3). Router Configurations:
Configure static routes on each router for networks not directly connected.

4). Verifying Router
Verify Routes by using Commanding
Show ip route static.

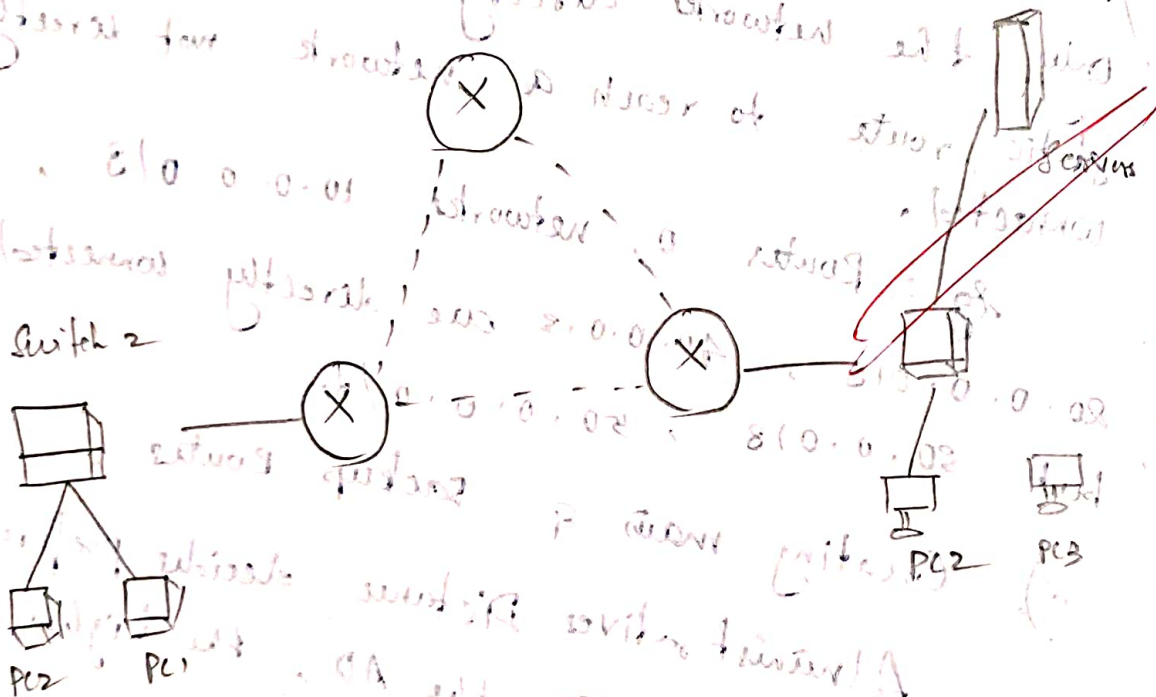
5). Testing Route Fail Over:

→ Test connectivity using `tracert` or `Ping` from a device on a connected network

→ Disconnected or "break" the link on the main route

6). Deleting a static Route

show ip route static



6).

1). Initial IP configuration for Devices

2). Assign IP addresses to Devices for PC's and Router

3). Enable & Configure Interfaces on Router

4). Configure RIP on Routers

5). Verify and Test Redundancy

— use `Ping` command on PC1

- Use trunk to the RIP redistributing traffic through an alternate route.

Bernie

100/100

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Result:

The static routing was simulated

using a row packet successfully