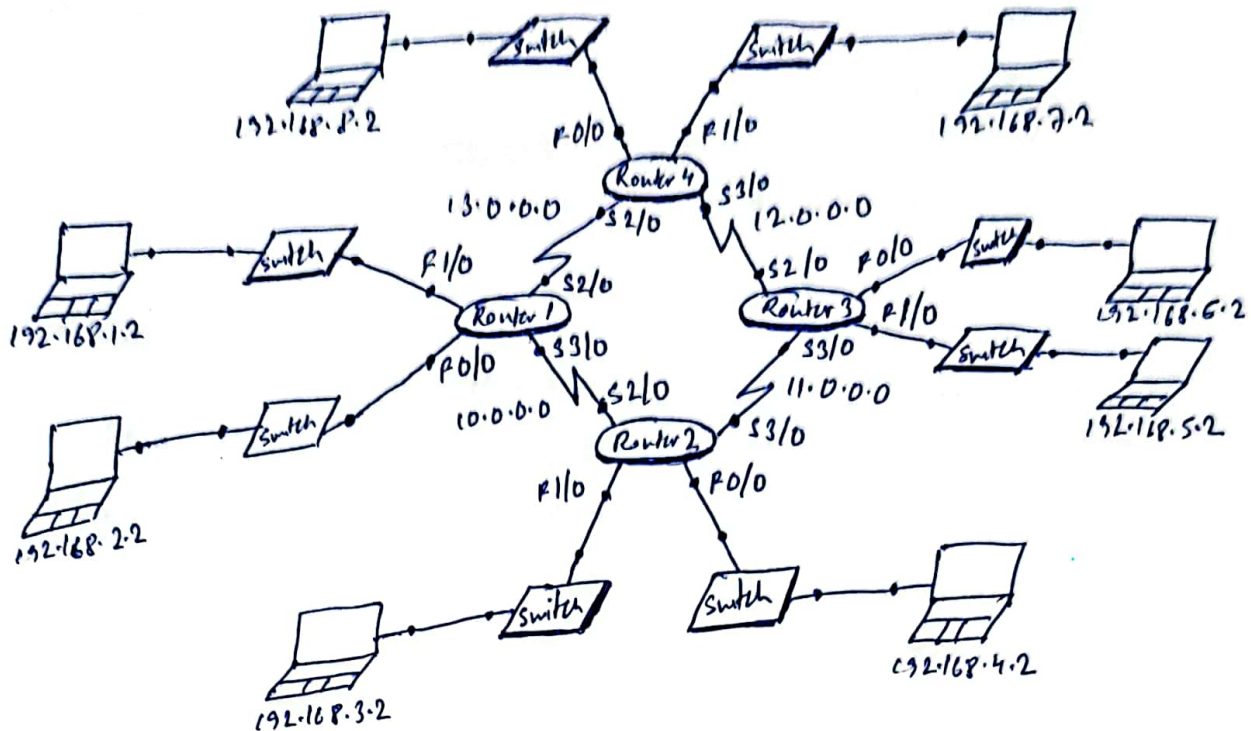


## Assignment-7

### 1. Diamond configuration in static routing with 8 LAN



→ Four routers are connected with each other in a circular way. Each router is connected with Two switch. And Each switch is connected with one PC.

→ ~~Router 1~~ Router 1

P0/0

IP Address

192.168.2.1

Subnet Mask

255.255.255.0

P1/0

192.168.1.1

255.255.255.0

S2/0

13.0.0.1

255.0.0.0

S3/0

10.0.0.1

255.0.0.0

→ Router 2

P0/0

IP Address

192.168.4.1

Subnet Mask

255.255.255.0

P1/0

192.168.3.1

255.255.255.0

S2/0

10.0.0.2

255.0.0.0

S3/0

11.0.0.1

255.0.0.0

→ Router 3

	IP Address	Subnet Mask
R0/0	192.168.6.1	255.255.255.0
R1/0	192.168.5.1	255.255.255.0
S2/0	<del>192.168.12.0</del> 12.0.0.1	255.0.0.0
S3/0	11.0.0.2	255.0.0.0

→ Router 4

	IP Address	Subnet Mask
R0/0	192.168.8.1	255.255.255.0
R1/0	192.168.7.1	255.255.255.0
S2/0	13.0.0.2	255.0.0.0
S3/0	12.0.0.2	255.0.0.0

→ Static Routes

	Network	Mask	Next Hop
Router 1	192.168.3.0	255.255.255.0	10.0.0.2
	192.168.4.0	255.255.255.0	10.0.0.2
	11.0.0.0	255.0.0.0	10.0.0.2
	192.168.5.0	255.255.255.0	11.0.0.2
	192.168.6.0	255.255.255.0	11.0.0.2
	192.168.7.0	255.255.255.0	13.0.0.2
	192.168.8.0	255.255.255.0	13.0.0.2
Router 2	192.168.1.0	255.255.255.0	10.0.0.1
	192.168.2.0	255.255.255.0	10.0.0.1
	192.168.5.0	255.255.255.0	11.0.0.2
	192.168.6.0	255.255.255.0	11.0.0.2
	12.0.0.0	255.0.0.0	11.0.0.2
	192.168.7.0	255.255.255.0	12.0.0.2
	192.168.8.0	255.255.255.0	12.0.0.2

	Network	Mask	Next Hop
	192.168.4.0	255.255.255.0	11.0.0.1
	192.168.7.0	255.255.255.0	12.0.0.2
	192.168.8.0	255.255.255.0	12.0.0.2
Router 3	19.0.0.0	255.0.0.0	12.0.0.2
	192.168.1.0	255.255.255.0	13.0.0.1
	192.168.3.0	255.255.255.0	11.0.0.1
	<sup>192</sup> <del>192</del> .168.2.0	255.255.255.0	13.0.0.1
	<del>192.168.2.0</del>	<del>255.255.255.0</del>	

	192.168.1.0	255.255.255.0	13.0.0.1
	192.168.2.0	255.255.255.0	13.0.0.1
	192.168.6.0	255.255.255.0	12.0.0.1
Router 4	192.168.5.0	255.255.255.0	12.0.0.1
	10.0.0.0	255.0.0.0	13.0.0.1
	192.168.3.0	255.255.255.0	10.0.0.2
	192.168.4.0	255.255.255.0	10.0.0.2

*Stan*  
28/9/23

→ Now we can send packets from any PC to another PC connected with different routers.

At first we will get 25% loss but at last we will get 0% loss.