EX NO: 1	
DATE:	DESIGN AND IMPLEMENT THE NETWORK TOPOLOGIES

#### AIM:

To design and implement the network topologies using NETSIM.

### **SOFTWARE REQIRED:**

NETSIM – Simulation Platform for Network

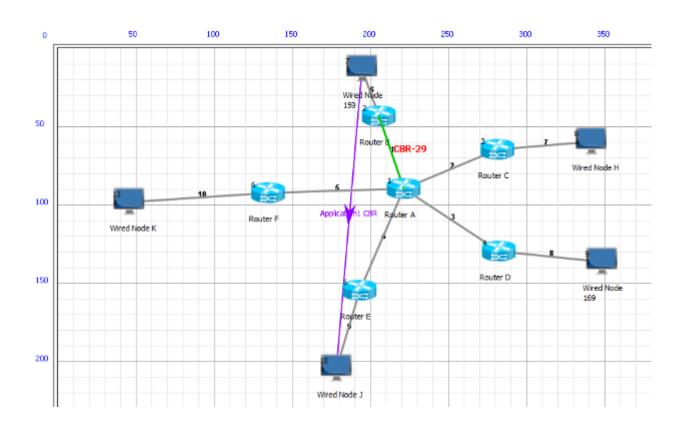
#### **PROCEDURE:**

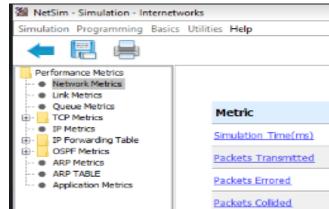
- Open the NETSIM software.
- Select the simulation  $\rightarrow$  Networks  $\rightarrow$  Internetworks
- Connect the nodes in a typical fashion for analysis
- Run the simulation
- Analyze and interpret the obtained network metrics

#### **RESULT:**

Thus the design and implementation of network topologies was done successfully.

Roll Number	21ECR169	<b>Course Code</b>	20ECL62
Name	RITHUVARSHINI T	Course Name	Data Communication and Internetworking Laboratory
Experiment	1	Experiment	DESIGN AND IMPLEMENT NETWORK TOPOLOGIES; STAR, MESH, BUS,
No.		Name	RING
Image caption	STAR TOPOLOGY		

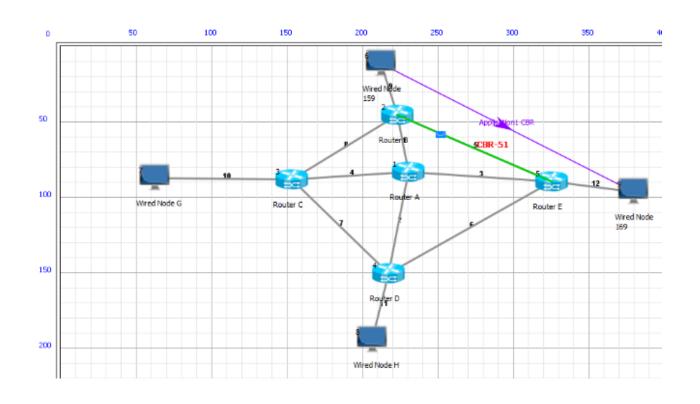




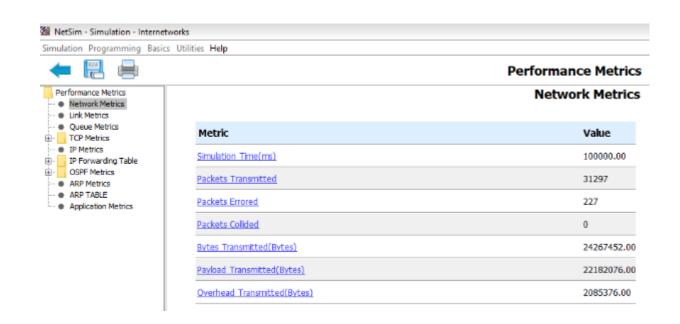
# Performance Metrics Network Metrics

Metric	Value
Simulation Time(ms)	10000.00
Packets Transmitted	3481
Packets Errored	24
Packets Colided	0
Bytes Transmitted(Bytes)	2458670.00
Payload Transmitted(Bytes)	2242212.00
Overhead Transmitted(Bytes)	216458.00

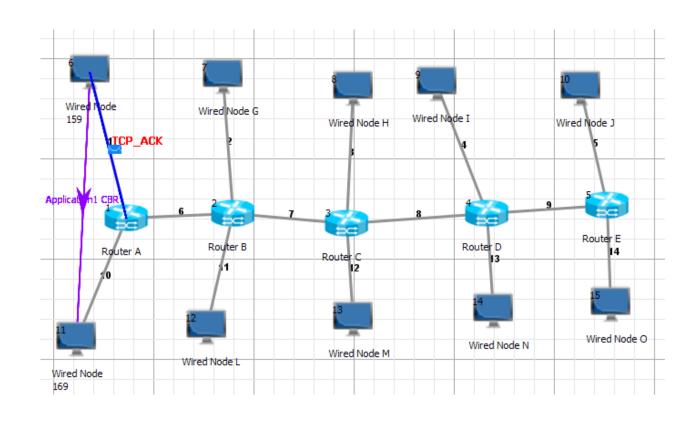
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No.	1	Name	RING
Image caption	MESH TOPOLOGY		



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No.	1	Name	RING
Image caption	MESH TOPOLOGY		



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Experiment	1	Experiment	DESIGN AND IMPLEMENT NETWORK TOPOLOGIES; STAR, MESH, BUS,
No.	1	Name	RING
Image caption	BUS TOPOLOGY		



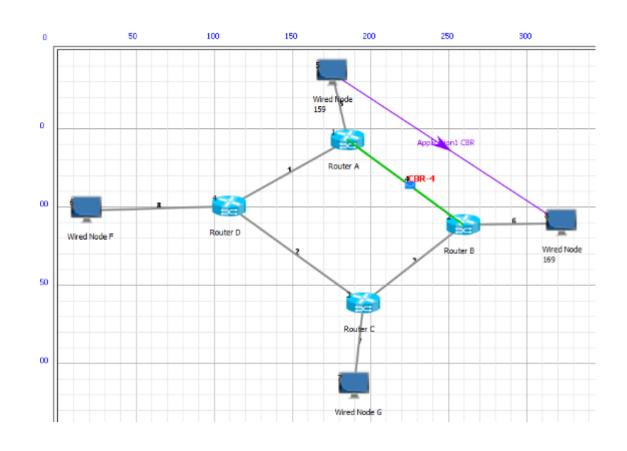
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Name	RITHUVARSHINI T	Course Name	Data Communication and Internetworking Laboratory
Experiment	1	Experiment	DESIGN AND IMPLEMENT NETWORK TOPOLOGIES; STAR, MESH, BUS,
No.	1	Name	RING
Image caption	BUS TOPOLOGY		

## **Performance Metrics**

## **Network Metrics**

Metric	Value
Simulation Time(ms)	100000.00
Packets Transmitted	21529
Packets Errored	123
Packets Collided	0
Bytes Transmitted(Bytes)	16280646.00
Payload Transmitted(Bytes)	14728232.00
Overhead Transmitted(Bytes)	1552414.00

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Experiment	1	Experiment	DESIGN AND IMPLEMENT NETWORK TOPOLOGIES; STAR, MESH, BUS,
No.	1	Name	RING
Image caption	RING TOPOLOGY		



Roll Number	21ECR169	<b>Course Code</b>	20ECL62
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Experiment No.	1	Experiment Name	DESIGN AND IMPLEMENT NETWORK TOPOLOGIES; STAR, MESH, BUS, RING
Image caption	RING TOPOLOGY	Name	KINO

