

Ex. No:05	<b>NETWORK TOPOLOGIES</b>
Reg.no	99220040378
Name	U.BAVESH
Section& Slot	S23 & slot-1

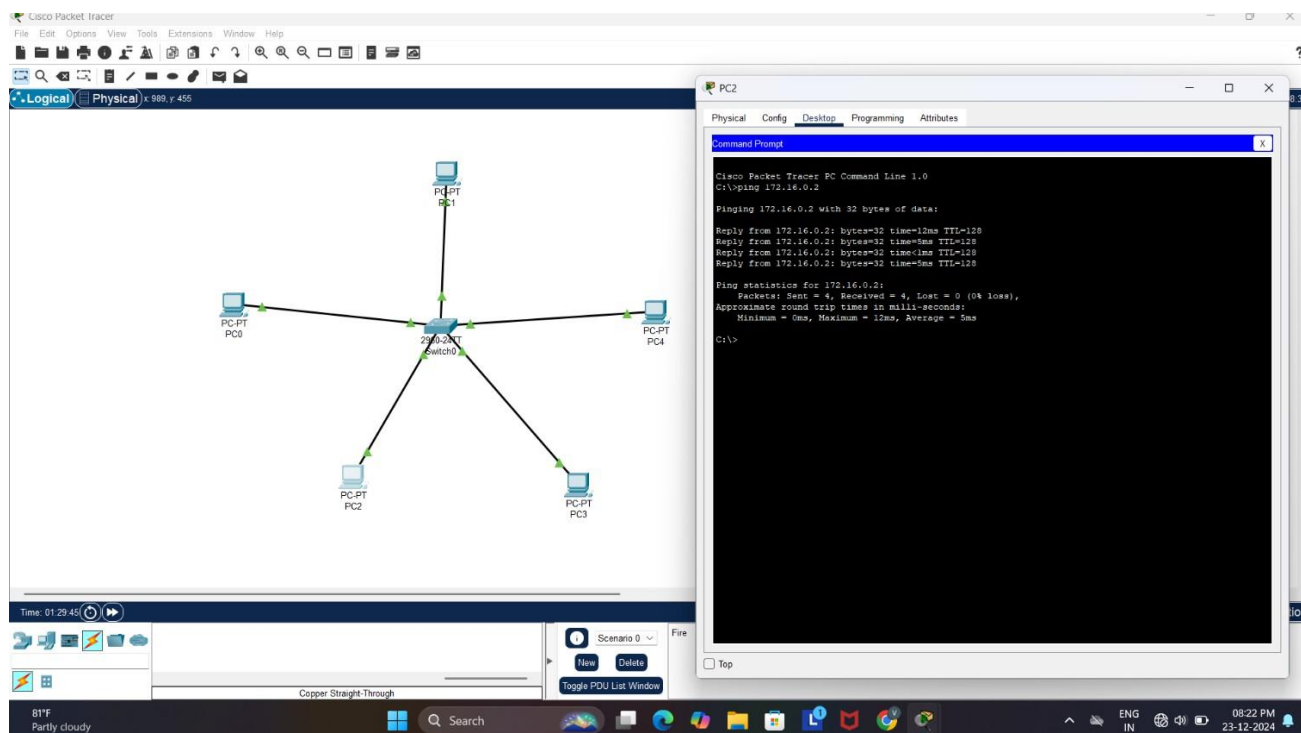
### Objective(s):

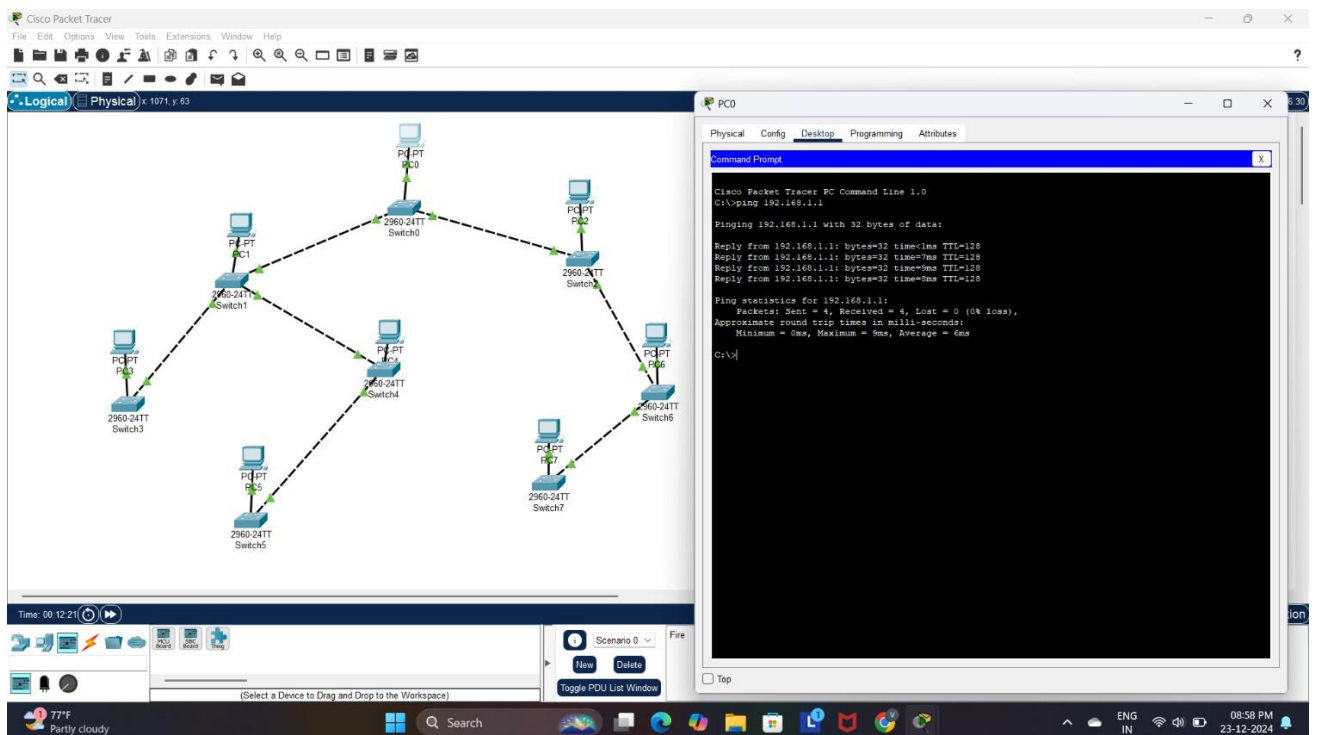
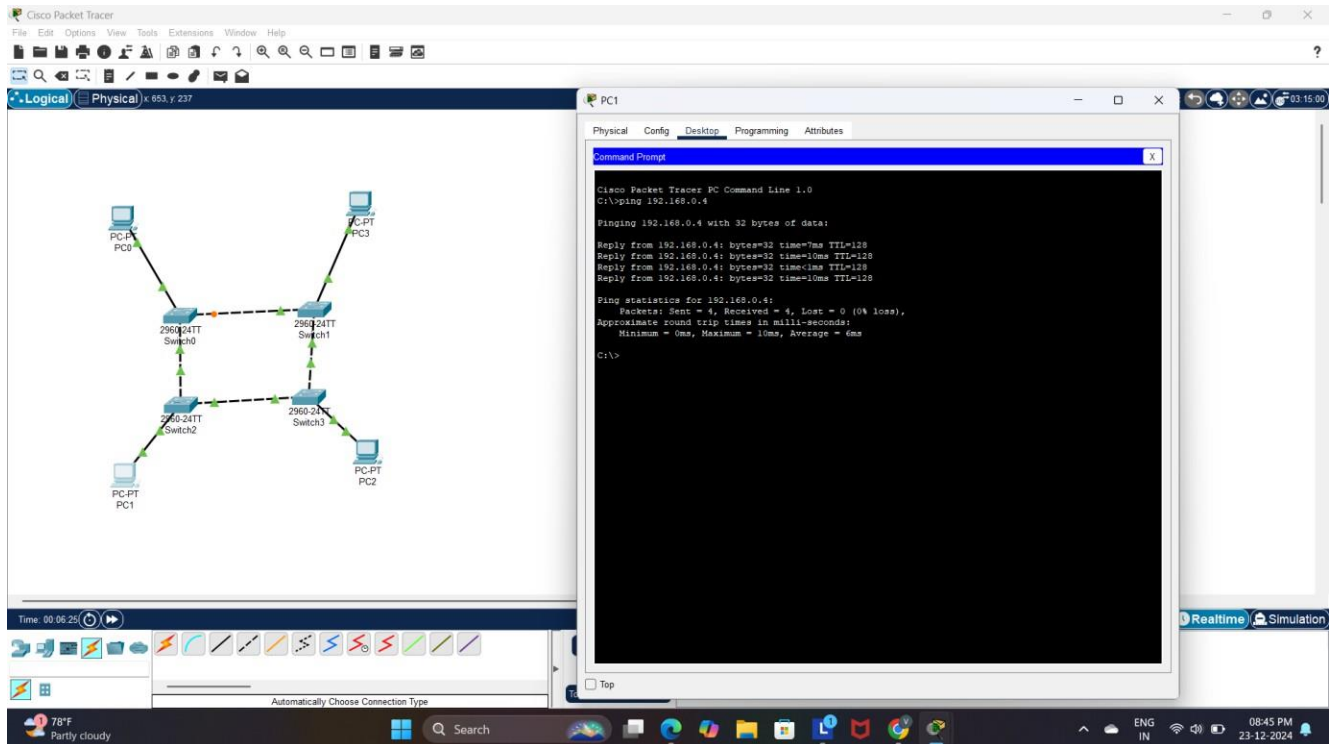
To design and implement different types of topologies

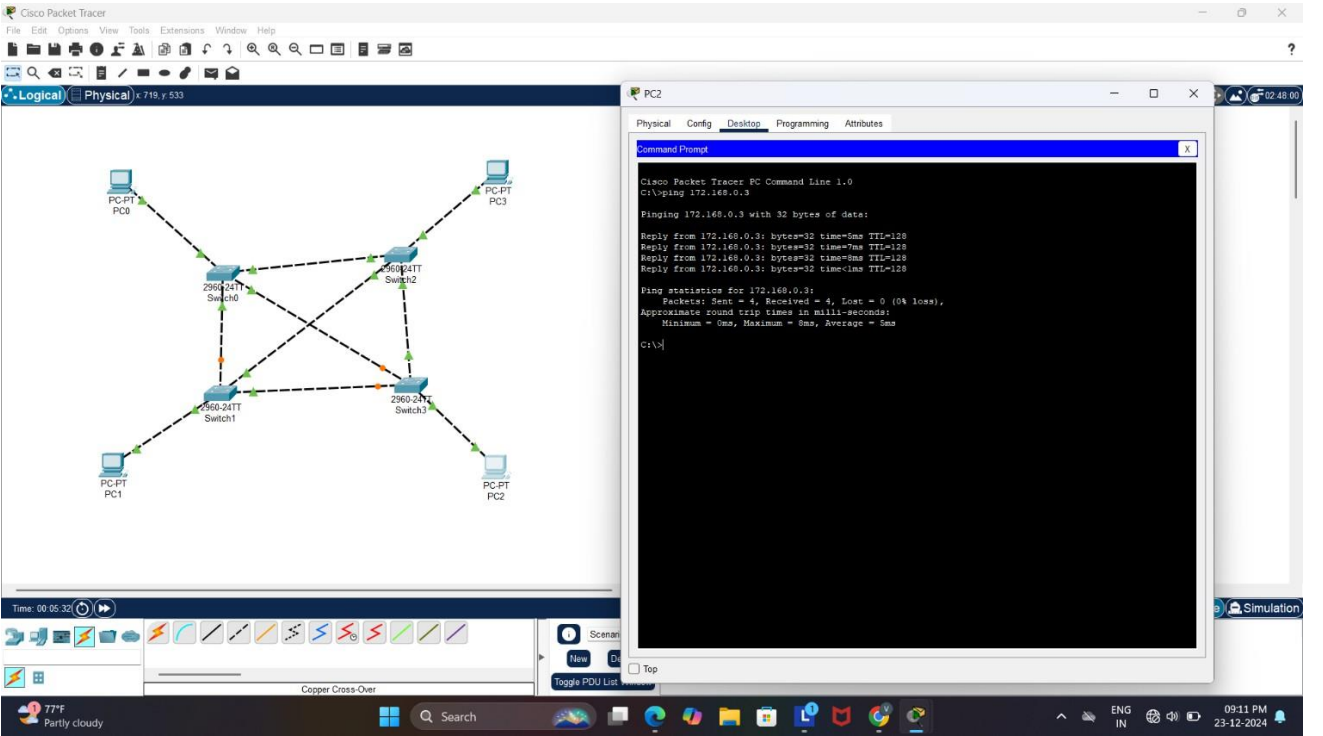
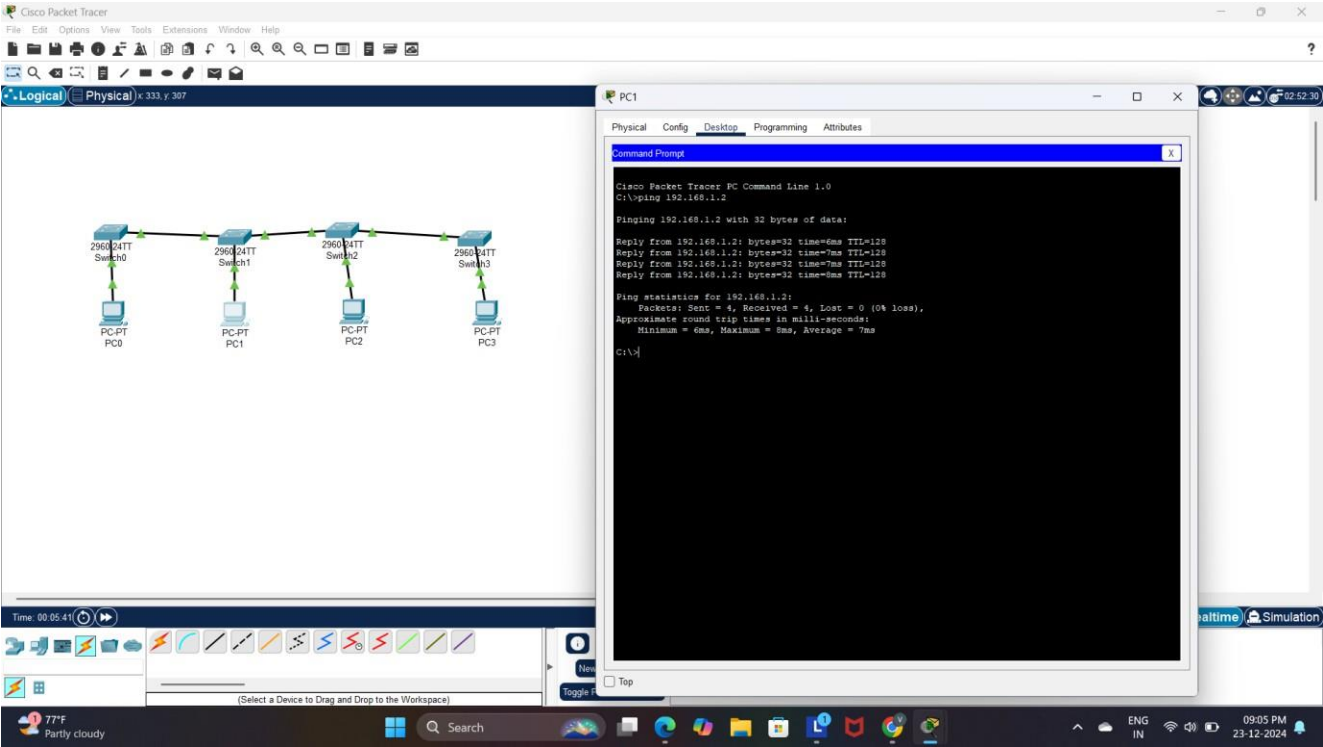
### Introduction:

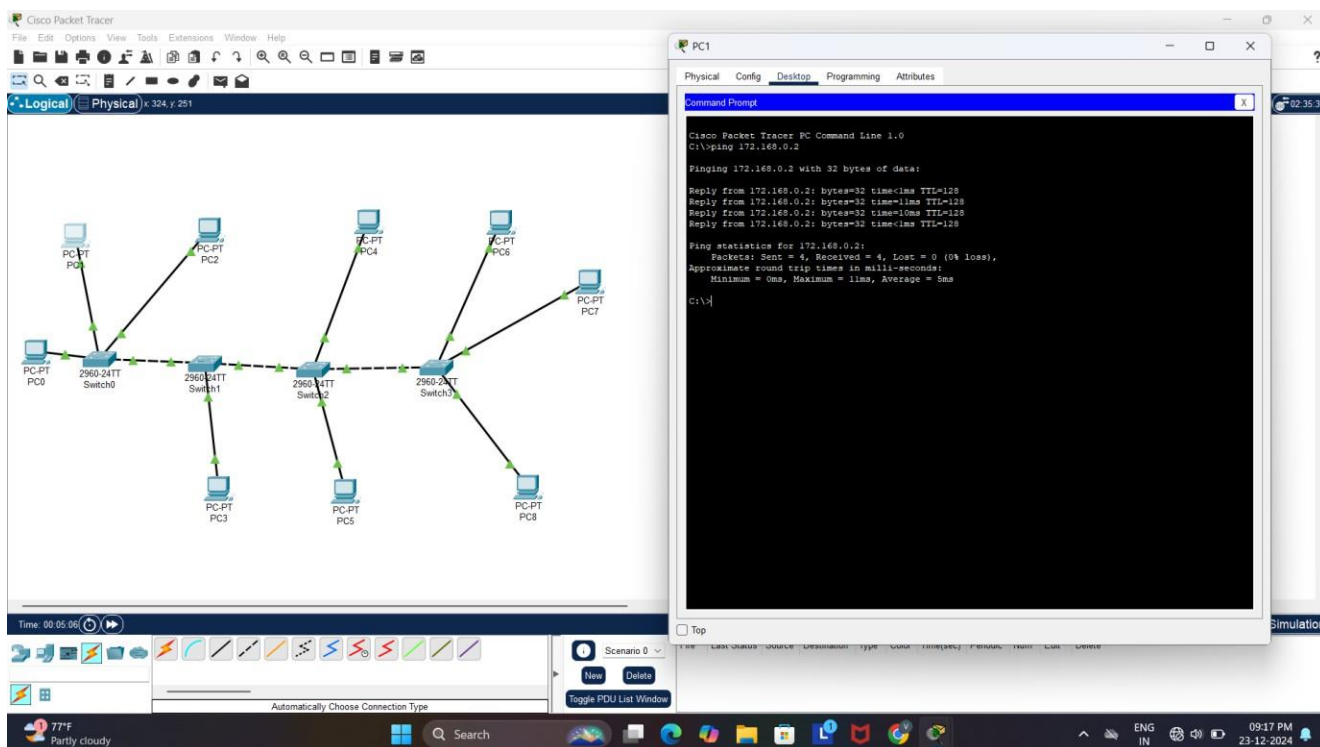
Network topologies, including bus, ring, star, mesh, and hybrid, each offer unique characteristics for network design and functionality. Bus topology connects all devices to a single central cable, while ring topology forms a circular data path. Star topology features a central hub for direct connections, and mesh topology ensures multiple data paths for high redundancy. Hybrid topology combines elements of these designs for flexibility and scalability. Understanding and implementing these topologies in Cisco Packet Tracer helps optimize network performance, manage traffic, and ensure network resilience. Each topology has its advantages and challenges, making them suitable for different networking scenarios.

### 1. Output Diagram:









Google Drive link of the packet tracer file (give view permission):

Link:

[https://docs.google.com/document/d/1NLYIanQvFT9Sa\\_lj9BW58zVQUTe1YiXz/edit?usp=drive\\_link&oid=113067472619022530375&rtpof=true&sd=true](https://docs.google.com/document/d/1NLYIanQvFT9Sa_lj9BW58zVQUTe1YiXz/edit?usp=drive_link&oid=113067472619022530375&rtpof=true&sd=true)

## CONCLUSION:

Implementing different network topologies in Cisco Packet Tracer is executed successfully.

## Rubrics for Experiment Assessment:

Rubrics	Good	Normal	Poor	Marks
<b>Creation of Topology (4)</b>	Created the topology, Identify the proper devices and making the connections (4)	Created the topology, Identify the proper devices, making the connections But missing some features (3)	Created wrong topology, Failed to Identify the proper devices and making connections (1)	
<b>Verify the connectivity (4)</b>	Verified the connectivity in all the levels (4)	Verified the connectivity at some levels (only some nodes) (2)	Verified the connectivity is not done. (1)	
<b>Timely Completion (2)</b>	Completed the lab before the allotted time (2)	Completed the lab after the deadline (1)	Did not submitted before grading (0)	
<b>Total</b>				