

Assignment: 2

Network Simulation Tool: The diagram is from Cisco Packet Tracer, a network simulation software. This network is simulation mode as indicated at the bottom right.

Network Devices: a) switches: switch: connects multiple PCs.

Switch 5: Connects a server and laptop.

End devices: PCs: - PC5, PC6, PC7, PC8, PC9, PC10, PC11, PC12. All connected to switch

Laptops: laptop1 and laptop2 are connected to switch 5.

Servers: server1 is connected to switch 5. It communicates with various devices in the network.

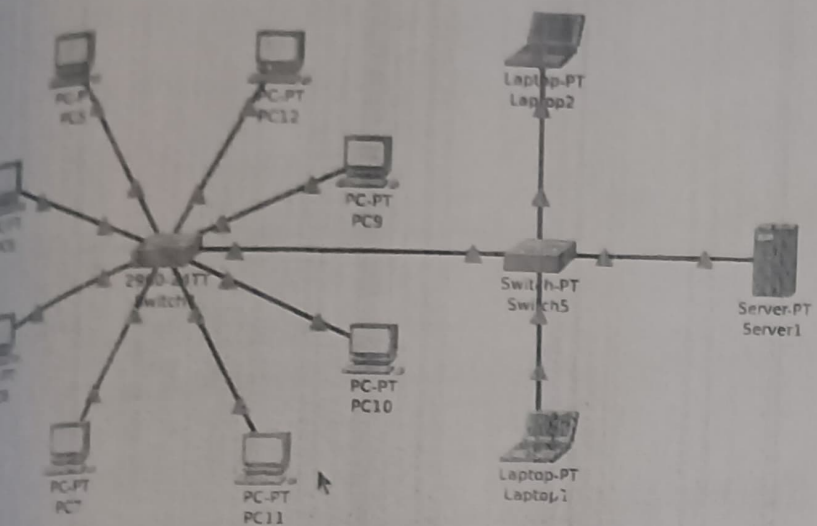
Network Connectivity: All devices are connected to the network using wired connections. Green triangle indicators on each connection show that the links are active and optional.

Packet Transmission and Status: The bottom panel shows PC6 packets being sent between devices. All transmissions are successful.

Packet Transmission Details:

Status	Source	Destination	Type	Time (sec)
Successful	PC5	server1	icmp	0.000
Successful	server1	PC11	icmp	0.0000
Successful	server1	icmp	laptop2	0.0000
Successful	server1	PC7	icmp	0.0000

Network Type: This setup represents a local Area Network. Switches are used to interconnect devices. The server likely provides services such as file storage, web hosting or database management.



Realtime Simulation

Line	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
0	Successful	PC5	Server1	ICMP		0.000	N	0	(edit)	(delete)
1	Successful	Server1	PC11	ICMP		0.000	N	1	(edit)	(delete)
2	Successful	Laptop1	Laptop2	ICMP		0.000	N	2	(edit)	(delete)
3	Successful	Server1	PC7	ICMP		0.000	N	3	(edit)	(delete)