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	IND Moderment-7
	LAB Assignment-1
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<u>. </u>	Roll no:-13
	· 사이트 역 기본에 보고 있다. 그 기본
	Title: Design Network (Use: Packet Tracer/GAS)
<u> </u>	Aim: Design Network: Design a simple network (LAN) with
	different topologies & test it using PING utility.
	Objectives:
61.556	1. To learn & understand the concept of LAN & test it
N editor	using PING command.
	2. To design a network using various topologies in cisco
	Packet Toaceo.
11/6	pro Alma contra esta area in esta de la contra della cont
i lo	Theory:
j	Definition of LAN with its advantages.
\longrightarrow	A local area network (LAN) is a collection of devices
10	connected together in one physical location such as a
. V.	building office or home. A lan can be small or large,
	sanging from a home network with one user to an
400	enterprise network with thousands of users & devices in an
	office or school
· · · · · · · · · · · · · · · · · · ·	Advantaged:
	D'Hardware & software can be shated.
	2) Does not cost too much.
	3) Poluate ownership
	4) separate component.

2 Explanation of various network topologies. 1 mesh topology: Every device is connected to another device via a posticular channel. In mesh Topology, the protocols used are AHCP, DHCP, etc. In star topology, all the devices are connected to a single hub through a cable. This hub is the central node & an other nodel are connected to central node 3) Bus Topology Bus topology is a network type in which every computer & network device is connected to a single cable. Il transmit the data from one end to another in a single disection. The forms a sing connecting devices with exactly two neighbouring devices. with exactly two A number of repeaters one used for Ring topology with a longe number of nodes, because if someone wont to send date to the last node in the sing topology. Student's Observations: Thus we have designed a simple network (LAH) with different topologies & tested it using PING topology

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	Explain the use Ping utility. Command with an to
→ ·	The ping command sends one datagram per second & companies one line of our for every response received. The ping command calculated round to pip time & packet loss starties & display a brief summary on completion. The ping command completes when the program times of out or on receipt of a SIGHIHT signal. eg) To check a network connection to host canopus & specify the number of echo requests to send enter ping-cr canopus.
<u>a</u>]	Compose vasious types of LAN, WAHR MAN. LAN. DIAN is a polonost with the composer of the composer various types of LAN, WAHR MAN.
	Omputed in a given geographical area.
	2) LAN is acronym for local area network.
	3) LAN is private, Hospitals, homes, schools, offices, etc may
\rightarrow	MAN
	1) MAN is acronym for metropolitan Area retwork.
	2) MAN is compatively wides network that covers longe
	regions-like towns cities etc.
	3) man is both paruale or public.
	haw .
	DIMAN is acronym for wide Area Metwook.
	2) MAN network spans to an even larger locality, it
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	has capacity to connect various count countries 3) WAN is both private or public	together
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