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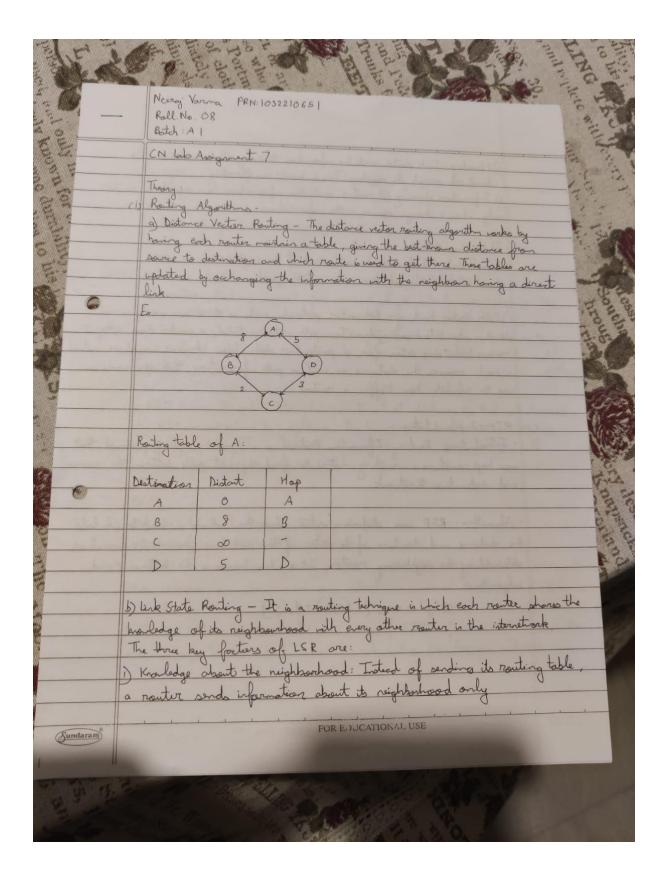
Title: Configure RIP Routing Protocol: (Use: Packet Tracer/GNS)

**Aim:** Set up a network - configure interfaces, IP addresses and routing protocols (RIP,OSPF,EIGRP,BGP).

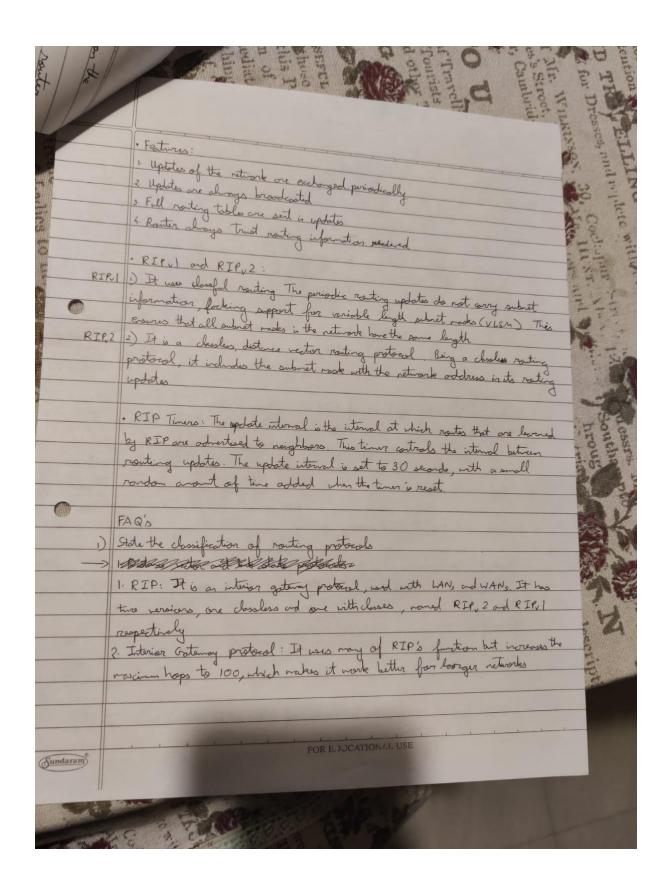
## **Objectives:**

To understand and implement routing protocols RIP in Cisco Packet Tracer

Writeup:



2) Planding: Each router sends the information to every other neuter on the international occupt its reighbors. This is known as flooding 3) Information sharing: A router sends the information to every other route only when a change occurs in the information It has two states -· Initial state - Each rode brono the cost of the reighbors · Firal state - Each node from the entire graph c) Path Vector Routing - Path vector protocols domains also autonomous systems. In a path vec system. In a path vector protocol, a router does recine tedistance vector for a porticular destination from its neighb node recines the distance as well as patrinformation, that the node use to calculate how traffic is routed · Introduction: Routing Information Protocol is a dynamic routing protocol that uses hop count as a routing metric to find the best poth between the source and dedination 12 retwork the distance and direction of the vector of the next hop from the information obtained by the neighboring router. It is also from as the Bellman-Ford dx(y) = min, {((x, v) +d,(y)}



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	4. Open shortest path first: Uses the SPF algorithm to enoure efficient					
	transmission of data less Dighestra's algorithm to resolubote pathogs					
5	5. Enterior Catenay Protocal: It mintains closely located returned databases to					
2	route the different pathways data right take to reach to destination  6. Border Cateury Protocol: It uses the best path selection algorithm from					
4	o. you	ming data ankan	e transfers making	g it a distance vector protoco	d as	
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	7. In	ediate system-to-	immediate system:	It is a link state, interior gatarre	y ad	
	dassle	os protosal - is con	monly used to send	and share IP routing informat	in or the gray	
	iden	et. It was an al	tered version of	Diskstora's algorithm	7 6	
	1			and the second	1.03	
2) Escapair some key features of RIP						
RIP was a modified hop count as a way to determine returne distance. By						
default, if a router's neighbor and a destination network and can deliver						
pockets directly to the destination network without wang any other routers, that route has one hop.						
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Screenshots:

