Objectives: Is understand and implement routing protects - Distance vector nouting : A distance - vector nouting CDVR) which each router shares its neighbourhoods knowledge Path vector routing: A path-vector routing protect is distance vector router protocol. Routels running Aim: Set-up a network-configure interfaces, IP addiesses - Link state routing: Link state routing is a method in grouper inform its neighbours the path routing-update the distance vector rowber protocol send all or a y updates of the network are exchanged pertodically every other router in the inter-network RIP (Earthing 10th mation Protocol) Implementation: a network routing protecol which maintains information that gets updated alynamically. and routing protocols (RIP, OSPE, EIGEP, BGP). THE : Configuring RIP rowing protocol partion of their routing tables in 2) updates are always & broadcast messages to their neighbows. topology changes periodically. In Cisco Packet Tracer. protocol requires that a Key features of RIP Lab Assignment - 7 1) Routing Algorithms: Theory: Devanshy Surana 1632210755

	Date
5)	Full routing tables are sent in updates
	Difference between RIP NI and RIP NZ.
_	sends update as broadcast
	Broadcast at 259.255.255.255
-	Doesn't support authentication of updated messages.
	Drowth .
	RIP V2
	sends update as multicast
	Multicast at 224.0.0.9.
-	Support authentication of RIPV2 update message. Classless protocol updated supports classful.
1 1 1	RIP timers: - The timer controls the interval between
A. T. Cal	routing updates.
	Allert 19-19-19 19 to 19 19 19 19 19 19 19 19 19 19 19 19 19
	Students Observation:
	Thus we have set up a network-configure interfaces, IP
+, -,	addresses and routing protocols.
	To all
	FAQ's
Ans I)	Routing Protocol
	lalac di a la l
	Inter domain
	Path vector Distance vector Link state
	J. State veget
	Bap RIP OSPF
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Ans 2)	RIP (18ES a distance vector algorithm to decide which path to put a packet on to getto its destination Each RIP router maintains a routing table, which is a list of all the clestinations the router knows how to reach. Each router broadcasts its entire routing table to its closest destination neighbours every so sec.
Ans 3)	Ans 3) The message format is used to share information among different outers. The RIP contains the following fields in a message:
	Forming Network Address All 0's All 0's All 0's All 0's
0	Command: It is an 8-bit Reld that is used for request or reply. The value of the request is I and reply is 2. Version: Version means that which version of the probal was using suppose we are using the probable of version I.
	Reserved: This is a reserved Reld, so it is called filled with zeroes. Family: It is a K-bit Field. He we are using the TCP/IP family .30 we put 2 yelve in this field
3	Versign then we use 4 bytes, and the other 10 bytes are a zeroes. Zeroes. Distance: This, specifies the hap, count, i.e. the number of haps.