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ALGORITHM & CODE:	AND	Forc	the subm	et.		
	To creeate a boroadcourt tree fore a submet of hosts, let's go through an emoumprie with some specific details, including the IP address, submet mask, and the general Process to obtain the boroadcoust tree. Enample Submet: let's assume a network with the following details: 'IP Address: IAR. 168. 1.0 · Submet mask: 255. 255. 0 (Which corresponds to a /24 submet). This gives us a network with a reangle of 2561P					
	addresses (from 192.168.1.0 to 192.168.1.255) coherce the first address 15 other notwork address and the belast orderess 15 the broadcorst address.					
	Step by Step Pareak Doeon: -					
	1. Calculate Network Details: Network Address: 192. 168.1.0 Pirest usable 1P Address (Host Range Stard): 192.168.1.1					
IPUT GIVEN						
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LEM STATEMENT					MANAGE AND	
ORITHM & CODE:	· lost usuble IP address (Host Range Fnd): 192. 168. 1.254 . Broadcast These Concept: A broadcast tree is typically construeted to represent how broadcast Packets (e.g. APP reequests on DHCP discovery mes soughs) are forwarded across a network. The tree shows the relationships between switches reacters, and hosts that would receive the broadcast. In this simple emample, all hosts to the Pa. 168. 1.0/24 Subnet would receive broadcast treation. If this network is using a single switch (no VIAN segmentation), all hosts in the subnet will be in the Same broadcast domain. The broadcast message would be forwarded for all the hosts in the Subnet, which means all devices in the rearge from 192. 168. 1.1 to 192. 168. 1.25 about the box on the paradcast.					
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BLEM STATEMENT					
CODE:	3. Visualizing th	ie Broodeast Tro	eo :		
	The root Broadcoest Address All hosts arce branches If there routes, the tree propergate between Quample of a si let's assume of Switch in the ne I Broadcoest (192.168. 1 192.168. 1 105+1 (192.168.1.1 Gach device	of the broaders (198.168.1.21 from 192.168.1. of this tree we were multi- ee would also en those device mple Broadcoest all devices are twork: Address 1.255) Hosta (192.168.1.	1 to 192.16. The Switch Show how es. Tree: Connected to 12) Host was a brood	8.1.254 02. OTT broadcost 0 a Singal	
INPUT GIVEN					
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THE TABLE	Branch:	Semester :		Page No.	Prog No.
BLEM STATEMENT					
ORITHM & CODE:	How the procederest message Travels. 1. The broadcast message is sent from one host (e.g., 192.168.1.1) to 192.168.1.255. 2. The groiten. which doesn't perform filtering based on paddresses, sends the message to all other devices				
INPUT GIVEN	in the Gubnet. 8. All devices in the Gubnet (from 192.168.1.1 to 192.168.1.254) receive the breadcast message. Conclusion: The breadcast tree for this subnet is a simple of the breadcast 192.168.1.1 Structure where all hosts in the reage 192.168.1.1 Glomaio and will receive any breadcast message domaio and will receive any breadcast tree becomes more recuters or wints) the breadcast tree becomes more compleme, with multiple breanches representing difference and teauters forewarding bread coast tree gegments and teauters forewarding bread coast tree gegments and teauters forewarding bread coast tree.				
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