Assignment -04

- => Title: DHCP.
- Problem Statement: Initialising and Configure DMCP server and write a Program (C/C++/Pythin/Tava) to install software on sende machine.
- Dijective: To understand DMCP and its
 configuration on a Scrien
- Outcome One will be able to dynamically / automatically assign If address to machines in a notwook.
- =) Theory
- DMCP stends for dyenamic Mast Configuration Ponduces
 - It is wed to dyenomically fautomatically assign IP address to hards in a notwerk.
 - when a network is consisting of a large number of houts, assigning IP addresses minuelly is not feasible.
 - The a Once bused network, Ellowing ports are assigned

 17 Server: 57

 27 Chest: 58.

Page No.			
Date	1	1	

=> In DACP, chent & Sarvar exchange & message to
establish a connection & this process is called DORA: Steps in DORA 1) Discover -> generated by clost michie to check Los any server in the Network. -) message is broadcasted by hast & host with post 87 accepts it. 2) Offer -> The sener responds by sending a massage specifying the IP address assigned to the host 3) Request -> The chart responds with a request message to see whether the IP used by any other harb 1) Acknowledge -> In response to the regret the server birds the IP address with the client IP & the client obtains the IP address # Advantages · Centralised Minegement of IP Adverses. · Easy do add new Chests.

IP Address rewed.

		and the state of the state of	
Page N	0.		
F.L.			
Date	/		

Agreement - Company of the Agreement of	Cate / /
	· Simple Configuration of DMCP Server
#	Test Cases
	Input Expected Olp Actual Olp
3)	Server gives IP: 192.168.1.1
->	Client 1 rayusts IP assigned Success for IP wing DMCP 192.188.1.2
-)	Chest 2 requests IP assigned Success for TP dyanamically 192.168.1.3
#	Condusion
	Thus, we were able to awign the IP addresses dynnerically wing DMCP configuration on a Server.