Assignment - WIII.

Ittle: DHS DOOKUP

Problem statement !-

Given an IP address Poput, it should networn URL & vicencesea.

Objective 1-

- To leave the concept of DHS lookup.

- To steedy the inet address for getting respective ip address or UPL.

Outcome :-

emplement DMS lookup for an IP address & meturen & responsive up & viaversa

8/W 4 H/W L

64-61+05, JOK 1-8/ Python 3.8

Theory !-

DNS (Domain Name Service)

The domain name service resolve

the names of intermet sites with their

underlying IP addressing adding efficiency

of even scennity in the process.

- DHS Ps a hierarchical & decentralized haming system for computers, services or other resources connected to the internet or a private netiente. - It associates various information each of the participating entities - The domain name system delegates the nesponsibility of assigning domain names - DNS message formet: The DNS projectol uses too topes of DNS messages queires both have the same format. Each message consist of a headers & four sections. 1 question 3 authority (9) an dolditional space Donain vaner Danain vane an Edentification String that define a real of adminstration autoromy, authority or control within the griternet.

Domain varies & are formed by the rules & procedures of domain have spetern (DIAS)

Domains such as am, info, net, edu, org, mil, etc.
ex como example com.

Friet Address 1-

. Inel addirec close viprogents an JP address. An JP address: An JP address is represented by 32 bit or 128 bit unegoned number. An Protonce of and Addresses represents the IP address with the corresponding hast name

Method:
I public static Fret Address getBy Hame (
8thing host)

It referens hostName.

2) public string gethost Address ()
It returns the IP address in string

3) public string gethostName() It returns the host name, of IP DNS lookup to the process of A DNS lookup to the process of sending a quary for specific domain on IP of getting the record that amesponds to the conclusion:

Conclusion:

We have successfully implemented the DNS lookup to also leasent the concept of domain name system.