## Assignment og



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3/1	transfer & payoup of manufacture of
	Title: DNS Lookup
worth	pater all particulars at extribution or
	Problem statement wribe a program for DNS lookup:
	given an IP address input, of should return upl
	& vice versa.
T 1 3 1	PMS sownalu songs
15 Triding	Prerequisibles and a so hadronshing is ma
gran b	Application layer: Roles & Protocols
N. S. Danner	Jocket Programming mind winners
	James al al al
	learning objectives of hollow something
	Students will be able to understand working of onls
	stone protocolation go and that ad to the region
	Theory: walter washington in harmy
	Theory: pres;
	- Pomain Nane system is the default non resolution
	service used by Microsoff windows gerver 2003
	refunk.
	- ons is the part of the windows server 2003 xp/xp
	protocol sube & all grette network concertions
	are by default contrigured with the IP address
	of ab least one pres server in order to persorm
	nave resolution on the network.
and Ind	pri Aschil ecture and had been for
2 2 1/DIX	- A hierarchical destributed database fan associated
	set of protocols that defines:
	and of feeting.

& a mechanism for quering & updating the databasi > a wechausing for replicating the information In the database among servers. es A schema of the detabase. PNS pomaru names: Drus is implemented as a hierarchical of dustributed dis containing various types of data, including host domain names The names in the DNS db form a hierarchical tree structure called the domain nomespace Pomain names consiste of individual labels separated by dots, for eg. mydomain. google.com managed by regulation authority ov mit net long. google my domain the limbs and see managed by google. Types of DNS domain names: Roof, top level, severed Level, Subdomain, how on resource name de la landa de



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	working of DNS lookup:
	pris translates your familiar domain name
	(wiw.googly.com) into an sp address your browser
	Con use. (173. 194.33.179).
	All the same of th
	2 Koot NS
	end usa - PNS 23 g
	8 Kesolver 5 112 MS
	T Grood e NC
	end user I PMS I 3 q  Resolver. I TID MS  Grouple Web Sorver. 7 Google MS
	Step 2: DNP Revolves Herative Query to Roof Graver
	Steps: Rook Server Responce.
	Steps: Nos Resolver if exative Query to TID Server
	Steps: TLD Sower Response
	Steps: DNS Resolver Herative Query to google.com NS
•	Sopt: Gooderon Ns response
	step 8: pur recover response to as
	etepg: Brasier stoots top hondshake
	Conduson Sweetelly implemented a program for
	DNS lookup that resolves UPL for given \$10 &
	Vice-versa.

```
■ Console 🖾
<terminated > DNS [Java Application] C:\Program Files\Java\jdk-17.0.1\bin\javaw.exe (2
        1.to enter host name
        2.to enter IP address
: 1
Enter host name: www.google.com
IP Address: 142.250.195.100
Host Name: www.google.com
Host name and IP address: www.google.com/142.250.195.100
□ Console ¤
  <terminated> DNS [Java Application] C:\Program Files\Java\jdk-17.0.1\bin\javaw.exe (26-Nov-2021
   Choose:
          1.to enter host name
          2.to enter IP address
. : 2
  Enter IP Address: 142.250.192.100
  Host Name: bom12s17-in-f4.1e100.net
  IP Address: 142.250.192.100
  Host name and IP address: bom12s17-in-f4.1e100.net/142.250.192.100
```