Assignment - A8

- · Title : DNS lookup.
- · Problem Statement: Usite a program for ONS lookup

 Given an IP address inpub, it should return

 URL and vice versa (we Java/Python)
- · Objective: (i) To understand working of DNS.

 (ii) To convert IP input to URL.
- · Outcome: To able to understand working of DNS lookup
- · Requirements: Windows / Linux, Java JOK, Vival Studio
 - · Theory

DNS

-> (i) Doman Nume System is the defealt name resolution, service wed in a window ricourant god.

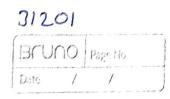
server 2003 network

(i) DNS (Donain Name Sence) is a sence service

provided by TSP to the wron to search

for the TP of the destination secret way

the site URL.



DNS Domain Name

- (i) Dangin Name System is implemented as a hierarchial and distributed database containing.

 Various types of data, including host, names of data, including host, names
- (i) The names in DNS database form a hierarchial tree structure called Domain-nume-space.

 Domain name consists of individual labels separated by the data (Ey: google.com)

DNJ - Name hierarchy

mirrored by microsoft

Steps

- D ON service queses to DNS resolver.

 D DNS resolver sterative, queen to root serve.

 B Rout Server Responses
- O DNS resolver iterates query to the TCP

5.	TCP Server Responses
1	DNJ Rewher iterate query de Gouglace
3	Gouyle: con NS resporse
	DNS resolver response to OS.
5.	Drovser ochers TCP handstake
7	
#	Test - Coses
	Description Input Output Roult
•	Most-name to wurgogle. Il addocu Success
	TP con 192.25.78.36.
•	Il to not Il address Mart-none: Success
	nume 8.8.8.8 dns gogle
#	Conclusion
	I understand the DNJ concept and also
	implemented it.
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