

EX.NO:9a Applications using TCP and UDP Sockets (like DNS)

AIM

To write a java program for DNS application.

CONCEPT

1. The DNS client program sends a request to a DNS server to map the e-mail address to the corresponding IP address.
2. When the Internet was small, mapping was done by using a host file. The host file had only two columns: name and address.
3. The host that needs mapping can contact the closest computer holding the needed information. This method is used by the Domain Name System (DNS).

ALGORITHM

Server

- Step1: Start the program.
- Step2: Create the socket for the server.
- Step3: Bind the socket to the port.
- Step4: Listen for the incoming client connection.
- Step5: Receive the IP address from the client to be resolved.
- Step6: Get the domain name for the client.
- Step7: Check the existence of the domain in the server.
- Step8: If domain matches then send the corresponding address to the client.
- Step9: Stop the program execution

Client

- Step1: Start the Program
- Step2: Create the socket for the client.
- Step3: Connect the socket to the Server.
- Step4: Send the host name to the server to be resolved.
- Step5: If the server corresponds then print the address and terminate the process

SOURCE CODE

// UDP DNS Server

Udpdnsserver.java

```
import java.io.*;
import java.net.*;
public class udpdnsserver
{
    private static int indexOf(String[] array, String str)
    {
        str = str.trim();
        for (int i=0; i < array.length; i++)
        {
            if (array[i].equals(str)) return i;
        }
        return -1;
    }
}
```

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ML Morrison



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