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EXPERIMENT: 23

AIM: To develop a client that contacts a given DNS server to resolve a given hostname.

ALGORITHM :

Step 1. Find the host name by using gethostbyname()

Step 2. The host name is followed by the list of alias names

Step 3. Pointer points to the array of pointers to the individual address

Step 4. For each address call the inet_ntop() and print the returned string

PROGRAM

```
#include<stdio.h>

#include<netdb.h>

#include<arpa/inet.h>

#include<netinet/in.h>

int main(int argc,char**argv)

{ char h_name;

int h_type;

struct hostent *host;

struct in_addr h_addr;

if(argc!=2)

{ fprintf(stderr,"USAGE:nslookup\n");

}

if((host=gethostbyname(argv[1]))==NULL)

{

fprintf(stderr,"(mini)nslookup failed on %s\n",argv[1]); }
```

```
h_addr.s_addr=*((unsigned long*)host->h_addr_list[0]);

printf("\n IP ADDRESS=%s\n",inet_ntoa(h_addr));

printf("\n HOST NAME=%s\n",host->h_name);

printf("\nADDRESS LENGTH =%d\n",host->h_length);

printf("\nADDRESS TYPE=%d\n",host->h_addrtype);

printf("\nLIST OF ADDRESS=%s\n",inet_ntoa(h_addr_list[0]));

}
```

OUTPUT:

```
[it28@localhost ~]$ vi dns.c

[it28@localhost ~]$

cc dns.c [it28@localhost ~]$

./a.out 90.0.0.36

 IP ADDRESS=90.0.0.36

 HOST NAME=90.0.0.36

ADDRESS LENGTH =4

ADDRESS TYPE=2

 LIST OF ADDRESS=90.0.0.36
```