AIM: **To write a C program to develop a DNS client server to resolve the given hostnam**e.

ALGORITHM:

1. Create a new file. Enter the domain name and address in that file.

2. To establish the connection between client and server.

3. Compile and execute the program.

4. Enter the domain name as input.

5. The IP address corresponding to the domain name is display on the screen

6. Enter the IP address on the screen.

7. The domain name corresponding to the IP address is display on the screen.

8. Stop the program.

Program :

```
#include<stdio.h>
#include<stdlib.h>
#include<errno.h>
#include<netdb.h>
#include<sys/types.h>
#include<sys/socket.h>
#include<netinet/in.h>
int main(int argc,char *argv[1])
{
struct hostent *hen;
if(argc!=2)
```

```
{
fprintf(stderr,"Enter the
hostname \n"); exit(1);
}
hen=gethostbyna
me(argv[1]);
if(hen==NULL)
{
fprintf(stderr,"Host not found \n");
}
printf("Hostname is %s \n",hen->h_name);
printf("IP address is %s \n",inet_ntoa(*((struct in_addr *)hen->h_addr)));
}
```

OUTPUT

Thus the above program udp performance using domain name server was executed and successfully.

Outcome:

To understand the DNS client server for resolving the hostname.