**AIM:** To implement ARP using UDP

**Code:**

#include<stdio.h>

#include<string.h>

#include <stdlib.h>

int main()

{

char ip[10][20]={"192.168.0.64","192.168.0.60","192.168.0.68","132.147.3.3"};

char et[10][20]={"00\_A8\_00\_40\_8E\_F5","00\_16\_17\_31\_8e\_22","00\_16\_17\_31\_8E\_F7","00\_16\_17\_31\_8E\_08"};

char ipaddr[20],etaddr[20];

int i,op;

int x=0,y=0;

while(1)

{

printf("\n\n 1.ARP \n 2.RARP \n 3.EXIT\n");

printf("\n enter the choice \n");

scanf("%d",&op);

switch(op)

{

case 1:

printf("\n enter ip address\n");

scanf("%s",ipaddr);

for(i=0;i<=20;i++)

{

if(strcmp(ipaddr,ip[i])==0)

{

printf("Ethernet address is \n %s",et[i]);

x=1;

} }

if(x==0)

printf("invalid ip address \n");

x=0;

break;

case 2:

printf("enter ethernet address \n");

scanf("%s",etaddr);

for(i=0;i<=20;i++)

{

if(strcmp(etaddr,et[i])==0)

{

printf("IP address is \n %s",ip[i]);

y=1;

} }

if(y==0)

printf("Invalid ethernet address \n");

y=0;

break;

case 3:

exit(0);

} } }

**Output:**