

PROGRAM:

```
#include<stdio.h>

#include<conio.h>

#include<string.h>

#include<process.h>

void main()

{

char ip[20][20]={"192.43.24.67","192.56.72.5","145.57.32.7"};

char et[20][20]={"00.00.A8.00","14.E3.56.9","A6.45.7.D3"};

char ipadd[20],etadd[20];

int i,op;

int x=0,y=0;

clrscr();

while(1)

{

printf("\n1.ARP\n2.RARP\n3.EXIT");

printf("\n Enter your choice:");

scanf("%d",&op);

switch(op)

{

case 1: printf("Enter the IP address:");

scanf("%s",ipadd);

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

{

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

{

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

x=1;

}

}

}
```

```

if(x==0)

printf("\n Invalid address");

x=0;

break;

case 2:

printf("\n Enter the Ethernet address:");

scanf("%s",etadd);

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

{

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

{

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

y=1;

}

}

if(y==0)

printf("\n Invalid address");

y=0;

break;

case 3:

exit(0);

}}}

```

OUTPUT:

```

1. ARP
2. RARP
3. EXIT
Enter your choice: 1
Enter the IP address: 192.43.24.67
Ethernet address is 00.00.A8.00
1. ARP
2. RARP
3. EXIT
Enter your choice: 2

```

Enter the Ethernet address: 00.00.A8.00

IP address is 192.43.24.67

1. ARP
2. RARP
3. EXIT

Enter your choice: 3