

CN LAB – Expt 10

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CSE-K1

Code :

```
#include<stdio.h>
```

```
#include<string.h>
```

```
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);
} } }

```

```

Psaravanan:~/environment/RA1911026010058/EX10 $ cc arp.c -o arp
arp.c:4:1: warning: return type defaults to 'int' [-Wimplicit-int]
main()
^~~~~~
Psaravanan:~/environment/RA1911026010058/EX10 $ cc arp.c -o arp
arp.c:4:1: warning: return type defaults to 'int' [-Wimplicit-int]
main()
^~~~~~
arp.c: In function 'main':
arp.c:47:1: warning: implicit declaration of function 'exit' [-Wimplicit-function-declaration]
exit(0);
^~~~~~
arp.c:47:1: warning: incompatible implicit declaration of built-in function 'exit'
arp.c:47:1: note: include '<stdlib.h>' or provide a declaration of 'exit'
Psaravanan:~/environment/RA1911026010058/EX10 $ ./arp

1.ARP
2.RARP
3.EXIT

enter the choice
1

enter ip address
132.147.3.3
Ethernet address is
00_16_17_31_8E_08

1.ARP
2.RARP
3.EXIT

enter the choice
2
enter ethernet address
00_16_17_31_8E_F7
IP address is
192.168.0.68IP address is
8e_22

1.ARP
2.RARP
3.EXIT

enter the choice
3
Psaravanan:~/environment/RA1911026010058/EX10 $

```