

Exp-10

Priyabrat Routray

RA1911027010078

CSE-BD-N2

Program:

```
#include<stdio.h>

#include<string.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:

return 0;

} } }

```

OUTPUT:-

The screenshot shows an AWS Cloud9 IDE environment. The browser tabs at the top include "18CSC302J DAY 2 LAB N2 SE...", "Meet - gba-ijsp-utv", "Environments shared with yo...", "18CSC302J Batch 2/DAY 2/H...", and "arp ip address - Google Search". The address bar shows the URL: `us-west-1.console.aws.amazon.com/cloud9/ide/ab7073db400d4ecd932417a93f5c780b`.

The IDE interface includes a menu bar (File, Edit, Find, View, Go, Run, Tools, Window, Support, Preview, Run), a toolbar, and a sidebar with a file explorer. The file explorer shows a directory structure with folders like `RA1911027010073` through `RA1911027010078`, and files like `exp3-tcp`, `exp4-udp`, `exp5-timeserver`, `exp6-half-duplex`, `exp7-full_duplex`, `exp8-FTP`, `exp9-remote_comr`, `exp10-ARP`, `program`, and `program.c`.

The main editor window shows the code for `program.c` and the terminal output. The terminal shows the following commands and output:

```
Ameenapriyadarshini:~/environment/RA1911027010078/exp10-ARP $ cc -o program program.c
Ameenapriyadarshini:~/environment/RA1911027010078/exp10-ARP $ ./program

1.ARP
2.RARP
3.EXIT

enter the choice
1

enter ip address
192.168.0.60
Ethernet address is
00_16_17_31_8e_22

1.ARP
2.RARP
3.EXIT

enter the choice
2
enter ethernet address
00_16_17_31_8e_22
IP address is
```

The bottom status bar shows "AWS: (not connected)" and the system tray includes icons for network, volume, and battery, along with the time "11:26".