Exercise: 10 ARP IMPLEMENTATION USING UDP

Code:

```
#include <stdio.h>
#include <stdlib.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_1
7_31_8E_08"};
   char ipaddr[20], etaddr[20];
   int i, op;
   int x = 0, y = 0;
       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]);
            if (x == 0)
               printf("invalid ip address \n");
           break;
            printf("enter ethernet address \n");
            scanf("%s", etaddr);
                if (strcmp(etaddr, et[i]) == 0)
                   printf("IP address is \n %s", ip[i]);
                   y = 1;
            if (y == 0)
               printf("Invalid ethernet address \n");
           break;
           exit(0);
```

Output:

