```
#include <stdio.h>
#include <winsock2.h>

#define PORT_NUM 3800
#define MAXLEN 256

struct cal_data
{
    int left_num;
    int right_num;
    char op;
    int result;
    short int error;
};

int main(int argc, char **argv)
{
    SOCKET sockfd;
    WSADATA wsaData;
    struct sockaddr_in addr;
    struct cal_data sdata, recvaddr;

    char msg[MAXLEN];
    int left_num;
    int right_num;
    int addrlen;

    char op[2];

    if(argc !=2)
    {
        printf("Usage : %s [ip address]₩n", argv[0]);
        return 1;
    }

    if(WSAStartup(MAKEWORD(2,2), &wsaData) != NO_ERROR)
    {
        return 1;
    }

    if((sockfd = socket(AF_INET,SOCK_DGRAM, 0)) == INVALID_SOCKET)
        {
        return 1;
        }
    memset((void *)&addr, 0x00, sizeof(addr));
    addr.sin_family = AF_INET;
    addr.sin_addr.s_addr = inet_addr(argv[1]);
```

```
    addr.sin_port = htons(PORT_NUM);

    while(1)
    {
        printf("> ");
        fgets(msg, MAXLEN-1, stdin);
        if(strncmp(msg, "quit₩n",5) == 0)
        {
            break;
        }
        sscanf(msg, "%d%[^0-9]%d", &left_num, op, &right_num);
        memset((void *)&sdata, 0x00, sizeof(sdata));
        sdata.left_num = htonl(left_num);
        sdata.right_num = htonl(right_num);
        sdata.op = op[0];

        addrlen = sizeof(addr);
        sendto(sockfd, (char *)&sdata, sizeof(sdata), 0,
                    (struct sockaddr *)&addr, addrlen);

        recvfrom(sockfd, (char *)&sdata, sizeof(sdata), 0, (struct sockaddr
*)&recvaddr, &addrlen);
        printf( "%d %c %d = %d₩n", ntohl(sdata.left_num), sdata.op,
ntohl(sdata.right_num), ntohl(sdata.result));
    }
    closesocket(sockfd);
    WSACleanup( );
    return 0;
}
```