```c
#include <sys/types.h>
#include <sys/socket.h>
#include <stdio.h>
#include <netinet/in.h>
#define MAXLINESIZE 100
#define SERV_PORT 8000


int main(int argc, char** argv)
{
    int sockfd;
    struct sockaddr_in servaddr, cliaddr;
    int n;
    socklen_t len;
    char mesg [MAXLINESIZE];

    /*Create socket*/
    sockfd = socket(AF_INET,SOCK_DGRAM,0);

    /*Initialize socket address structure*/
    bzero(&servaddr,sizeof(servaddr));
    servaddr.sin_family = AF_INET;
    servaddr.sin_addr.s_addr = htonl(INADDR_ANY);
    servaddr.sin_port = htons(SERV_PORT);

    /*bind socket address to the socket*/
    bind(sockfd,(struct sockaddr*)&servaddr,sizeof(servaddr));

    for(; ; )
    {
    len=sizeof(cliaddr);
    /*wait for datagram to arrive, receive a datagram*/
    n=recvfrom(sockfd,mesg,MAXLINESIZE,0,(struct sockaddr*)&cliaddr,&len);
    /*send back the datagram to the client from which it arrived*/
    sendto(sockfd,mesg,n,0,(struct sockaddr*)&cliaddr,len);
    }
}




ECHOUDPCLIENT

#include <sys/types.h>
#include <sys/socket.h>
#include <stdio.h>
#include <netinet/in.h>
#define MAXLINE 100
#define SERV_PORT 8000


int main(int argc, char** argv)
{
    int sockfd;
    struct sockaddr_in servaddr;
    int n;
    char sendline[MAXLINE],recvline[MAXLINE];

    if(argc!=2)
    {
    fprintf(stderr,"Usage: %s IP-Address\n",argv[0]);
    exit(-1);
    }

    /*Initialize socket address structure*/
    bzero(&servaddr,sizeof(servaddr));
    servaddr.sin_family = AF_INET;
```

```c
70        if(inet_pton(AF_INET,argv[1], &servaddr.sin_addr)<0)
71            fprintf(stderr,"Error in inet_pton");
72        servaddr.sin_port = htons(SERV_PORT);
73
74        /*Create socket*/
75        sockfd = socket (AF_INET,SOCK_DGRAM,0);
76        while(fgets(sendline,MAXLINE,stdin)!=NULL)
77        {
78        /*Send the message to the server*/
79        sendto(sockfd,sendline,strlen(sendline),0,(struct
           sockaddr*)&servaddr,sizeof(servaddr));
80        /*wait for response and receive the response*/
81        n = recvfrom(sockfd,recvline,MAXLINE,0,NULL,NULL);
82        recvline[n] = 0;
83        /*Display what the server sent in reply*/
84        fputs(recvline,stdout);
85        }
86    }
87
88
89
90
```