## Server Client chat server

## Server side:

```
#include <stdio.h>
#include <unistd.h>
#include <arpa/inet.h>
#include <stdlib.h>
int main(int x, char* argv[]) {
        char buf[100];
        struct sockaddr_in server, client;
        int s_check, c_check;
        s_check = socket(AF_INET, SOCK_STREAM, 0);
        server.sin family = AF INET;
        server.sin_addr.s_addr = INADDR_ANY;
        server.sin_port = htons(atoi(argv[1]));
        bind(s_check, (struct sockaddr*)&server, sizeof(server));
        listen(s_check, 1);
        int size = sizeof(client);
        c_check = accept(s_check, (struct sockaddr*)&client, &size);
        do
        {
                memset(buf,'\0',100);
                printf("Enter the string:");
                fflush(stdin);
                scanf("%s",buf);
                send(c_check, buf, 100, 0);
                printf("\nClient IP address is: %s\n", inet_ntoa(client.sin_addr));
                recv(c_check, buf, 100, 0);
                printf("\nRecieved data is : %s\n", buf);
        }while(strcmp(buf,"bye")!=0);
        close(c check);
        close(s_check);
return(0);
```

## **Client Side:**

```
#include <stdio.h>
#include <unistd.h>
#include <arpa/inet.h>
#include<stdlib.h>
int main(int x, char * argv[]) {
        struct sockaddr_in client;
        int c check;
        char buf[100];
        c_check = socket(AF_INET, SOCK_STREAM, 0);
        client.sin_family = AF_INET;
        client.sin_addr.s_addr = inet_addr(argv[1]);
        client.sin_port = htons(atoi(argv[2]));
        connect(c_check, (struct sockaddr*)&client, sizeof(client));
        do{
        recv(c_check, buf, 100, 0);
        printf("\n codeword recv from sender is %s \n",buf);
        printf("Enter the string :");
        fflush(stdin);
        scanf("%s",buf);
        send(c_check, buf, 100, 0);
        }while(strcmp(buf,"bye")!=0);
        close(c_check);
return(0);
```