**Client**

#include <stdio.h>

#include <stdlib.h>

#include <unistd.h>

#include <string.h>

#include <sys/types.h>

#include <sys/socket.h>

#include <arpa/inet.h>

#include <netinet/in.h>

#define PORT 8080

#define MAXLINE 1024

// Driver code

int main() {

int sockfd;

char buffer[MAXLINE];

char \*hello = "Hello from client";

struct sockaddr\_in servaddr;

// Creating socket file descriptor

if ( (sockfd = socket(AF\_INET, SOCK\_DGRAM, 0)) < 0 ) {

perror("socket creation failed");

exit(EXIT\_FAILURE);

}

memset(&servaddr, 0, sizeof(servaddr));

// Filling server information

servaddr.sin\_family = AF\_INET;

servaddr.sin\_port = htons(PORT);

servaddr.sin\_addr.s\_addr = INADDR\_ANY;

int n, len;

sendto(sockfd, (const char \*)hello, strlen(hello),MSG\_CONFIRM, (const struct sockaddr \*)&servaddr,sizeof(servaddr));

printf("Hello message sent.\n");

n = recvfrom(sockfd, (char \*)buffer, MAXLINE,MSG\_WAITALL, (struct sockaddr \*) &servaddr,&len);

buffer[n] = '\0';

printf("Server : %s\n", buffer);

close(sockfd);

return 0;

}

**Server**

#include <stdio.h>

#include <stdlib.h>

#include <unistd.h>

#include <string.h>

#include <sys/types.h>

#include <sys/socket.h>

#include <arpa/inet.h>

#include <netinet/in.h>

#define PORT 8080

#define MAXLINE 1024

// Driver code

int main() {

int sockfd;

char buffer[MAXLINE];

char \*hello = "Hello from server";

struct sockaddr\_in servaddr, cliaddr;

// Creating socket file descriptor

if ( (sockfd = socket(AF\_INET, SOCK\_DGRAM, 0)) < 0 ) {

perror("socket creation failed");

exit(EXIT\_FAILURE);

}

memset(&servaddr, 0, sizeof(servaddr));

memset(&cliaddr, 0, sizeof(cliaddr));

// Filling server information

servaddr.sin\_family = AF\_INET; // IPv4

servaddr.sin\_addr.s\_addr = INADDR\_ANY;

servaddr.sin\_port = htons(PORT);

// Bind the socket with the server address

if ( bind(sockfd, (const struct sockaddr \*)&servaddr,sizeof(servaddr)) < 0 )

{

perror("bind failed");

exit(EXIT\_FAILURE);

}

int len, n;

len = sizeof(cliaddr); //len is value/result

n = recvfrom(sockfd, (char \*)buffer, MAXLINE,MSG\_WAITALL, ( struct sockaddr \*) &cliaddr,&len);

buffer[n] = '\0';

printf("Client : %s\n", buffer);

sendto(sockfd, (const char \*)hello, strlen(hello),MSG\_CONFIRM, (const struct sockaddr \*) &cliaddr,len);

printf("Hello message sent.\n");

return 0;

}