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// Server side implementation of UDP client-server model
#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 ) {</pre>
                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 )</pre>
        {
                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
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\*) &cliaddr,&len);

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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;
}
// Client side implementation of UDP client-server model
#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 ) {</pre>
                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
```

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*) &servaddr,&len);
    buffer[n] = '\0';
    printf("Server : %s\n", buffer);

    close(sockfd);
    return 0;
}
```

akhilbinu@AKHIL-LENOIPAD:/mmt/c/Users/akhil/Documents/udp\$ gcc UDPClient.c akhilbinu@AKHIL-LENOIPAD:/mmt/c/Users/akhil/Documents/udp\$ ./a.out Hello message sent.

Server : Hello from server akhilbinu@AKHIL-LENOIPAD:/mmt/c/Users/akhil/Documents/udp\$ |

akhilbinu@AKHIL-LENOIPAD:/mnt/c/Users/akhil/Documents/udp\$ gcc UDPServer.c akhilbinu@AKHIL-LENOIPAD:/mnt/c/Users/akhil/Documents/udp\$ ./a.out Client : Hello from client Hello message sent. akhilbinu@AKHIL-LENOIPAD:/mnt/c/Users/akhil/Documents/udp\$