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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 by 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 )</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 *) &cliaddr,
                &len);
   buffer[n] = ' \setminus 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");
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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
#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] = ' \setminus 0';
    printf("Server : %s\n", buffer);
   close(sockfd);
   return 0;
/*
```

Output:
\$ ./server

Client: Hello from client

Hello message sent.

\$ ./client

Hello message sent.

Server: Hello by server

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