Kalinga Institute of Industrial Technology

CN LAB-11.8.21

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1. IMPLEMENT UPD SOCKET TO SEND A MASSAGE FROM CLIENT AND DISPLAY IT IN SERVER (MASSAGE WILL BE YOUR NAME WITH ROLL NUMBER)

Server.c

```
#include <stdio.h>
#include <stdlib.h>
#include <unistd.h>
#include <errno.h>
#include <string.h>
include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
#include <arpa/inet.h>
#define MYPORT 4952 // the port users will be connecting to
define MAXBUFLEN 200
int main()
int sockfd,x_534;
struct sockaddr_in my_addr; // my address information
struct sockaddr_in their_addr; // connector's address information
socklen_t addr_len;
int numbytes;
char buf[MAXBUFLEN];
if ((sockfd = socket(AF_INET, SOCK_DGRAM, 0)) == -1) {
perror("socket");
exit(1);
my_addr.sin_family = AF_INET; // host byte order
ny_addr.sin_port = htons(MYPORT); // short, network byte order
ny_addr.sin_addr.s_addr = INADDR_ANY; // automatically fill with my IP
if (bind(sockfd, (struct sockaddr *)&my_addr, sizeof my_addr) == -1) {
perror("bind");
addr_len = sizeof their_addr;
recvfrom(sockfd, &x_534, sizeof(x_534) , 0,
(struct sockaddr *)&their_addr, &addr_len);
recvfrom(sockfd, buf, sizeof(buf) , 0,
(struct <mark>sockaddr *</mark>)&their_addr, &addr_len);
return 0;
```

Client.c

```
#include <stdio.h>
#include <stdlib.h>
#include <unistd.h>
#include <errno.h>
#include <string.h>
#include <sys/types.h>
#include <sys/types.h>
#include <sys/socket.h>
#include <sys/socket.h>
#include <netinet/in.h>
#include <arpa/inet.h>
#include <netdb.h>
#define SERVERPORT 4952 // the port users will be connecting to
int main()
```

```
int sockfd,x_534;
struct sockaddr_in their_addr; // connector's address information
int numbytes;
char arg[30];
if ((sockfd = socket(AF_INET, SOCK_DGRAM, 0)) == -1) {
perror("socket");
their_addr.sin_family = AF_INET; // host byte order
their_addr.sin_port = htons(SERVERPORT); // short, network byte order
their_addr.sin_addr.s_addr = inet_addr("127.0.0.1");
printf("Enter roll no\n");
scanf("%d",&x_534);
sendto(sockfd, &x_534, sizeof(x_534), 0,
(struct sockaddr *)&their_addr, sizeof their_addr);
printf("\nEnter name\n");
scanf("%s",arg);
(struct sockaddr *)&their_addr, sizeof their_addr);
printf("sent");
```

OUTPUT:

