Tcps.c

```
#include"sys/socket.h"
#include"netinet/in.h"
#include"stdio.h"
#include"string.h"
#include"stdlib.h"
int main()
{
       char buf[100];
       int k;
       socklen t len;
       int sock_desc,temp_sock_desc;
       struct sockaddr_in server,client;
       sock_desc=socket(AF_INET,SOCK_STREAM,0);
       if(sock_desc==-1)
       printf("error in socket creation");
       server.sin_family=AF_INET;
       server.sin addr.s addr=INADDR ANY;
       server.sin_port=3003;
       client.sin_family=AF_INET;
       client.sin_addr.s_addr=INADDR_ANY;
       client.sin_port=3003;
       k=bind(sock_desc,(struct sockaddr*)&server,sizeof(server));
       if(k==-1)
       printf("error in binding");
       k=listen(sock_desc,5);
       if(k==-1)
       printf("error in listening");
       len=sizeof(client);
       temp_sock_desc=accept(sock_desc,(struct_sockaddr*)&client,&len);
       if(temp_sock_desc==-1)
       printf("error in temporary socket creation");
       k=recv(temp_sock_desc,buf,100,0);
       if(k==-1)
       printf("error in receiving");
       printf("message got from client is: %s",buf);
       close(temp_sock_desc);
       return 0;
}
```

```
tcpc.c
```

```
#include"sys/socket.h"
#include"netinet/in.h"
#include"stdio.h"
#include"string.h"
#include<stdlib.h>
int main()
{
       char buf[100];
       int k;
       int sock_desc;
       struct sockaddr_in client;
       sock_desc=socket(AF_INET,SOCK_STREAM,0);
       if(sock_desc==-1)
       printf("error in socket creation");
       client.sin_family=AF_INET;
       client.sin_addr.s_addr=INADDR_ANY;
       client.sin_port=3003;
       k=connect(sock_desc,(struct sockaddr*)&client,sizeof(client));
       if(k==-1)
       printf("error in connecting to server");
       printf("\nEnter data to be send:");
       fgets(buf,100,stdin);
       k=send(sock_desc,buf,100,0);
       printf("error in sending");
       close(sock_desc);
       return 0;
}
```

```
udps.c
#include <stdio.h>
#include <string.h>
#include <unistd.h>
#include <sys/types.h>
#include <arpa/inet.h>
#include <sys/socket.h>
#include <netinet/in.h>
#define PORT 5000
#define MAXLINE 1000
int main()
{
       char buffer[MAXLINE];
       char message[MAXLINE];
       int sockfd, len;
       struct sockaddr_in servaddr, cliaddr;
       bzero(&servaddr, sizeof(servaddr));
       sockfd = socket(AF_INET, SOCK_DGRAM, 0);
       servaddr.sin_addr.s_addr = htonl(INADDR_ANY);
       servaddr.sin_port = htons(PORT);
       servaddr.sin_family = AF_INET;
       bind(sockfd, (struct sockaddr*)&servaddr, sizeof(servaddr));
       len = sizeof(cliaddr);
       int n = recvfrom(sockfd, buffer, sizeof(buffer), 0, (struct sockaddr*)&cliaddr, &len);
       buffer[n] = '\0';
       puts(buffer);
       printf("Enter response message: ");
       fgets(message, sizeof(message), stdin);
       sendto(sockfd, message, strlen(message), 0, (struct sockaddr*)&cliaddr, sizeof(cliaddr));
       return 0;
}
```

```
udpc.c
```

```
#include <stdio.h>
#include <string.h>
#include <sys/types.h>
#include <arpa/inet.h>
#include <sys/socket.h>
#include <netinet/in.h>
#include <unistd.h>
#include <stdlib.h>
#define PORT 5000
#define MAXLINE 1000
int main()
{
       char buffer[MAXLINE];
       char message[MAXLINE];
       int sockfd, n;
       struct sockaddr_in servaddr;
       bzero(&servaddr, sizeof(servaddr));
       servaddr.sin_addr.s_addr = inet_addr("127.0.0.1");
       servaddr.sin_port = htons(PORT);
       servaddr.sin_family = AF_INET;
       sockfd = socket(AF_INET, SOCK_DGRAM, 0);
       if (connect(sockfd, (struct sockaddr *)&servaddr, sizeof(servaddr)) < 0)
              {
                     printf("\nError: Connect Failed\n");
                     exit(0);
       printf("Enter message to send: ");
       fgets(message, sizeof(message), stdin);
       sendto(sockfd, message, strlen(message), 0, (struct sockaddr *)NULL, sizeof(servaddr));
       recvfrom(sockfd, buffer, sizeof(buffer), 0, (struct sockaddr *)NULL, NULL);
       printf("Response from server: %s\n", buffer);
       close(sockfd);
       return 0;
}
```

multis.c

```
#include<stdio.h>
#include<stdlib.h>
#include<sys/types.h>
#include<sys/socket.h>
#include<string.h>
#include<netinet/in.h>
#define PORT 4444
#define BUF_SIZE 2000
#define CLADDR_LEN 100
void main()
{
       struct sockaddr_in addr,cl_addr;
       int sockfd,len,ret,newsockfd;
       char buffer[BUF_SIZE];
       pid_t childpid;
       char clientAddr[CLADDR_LEN];
       sockfd=socket(AF_INET,SOCK_STREAM,0);
       if(sockfd<0)
              {
                     printf("ERROR CREATING SOCKET\n");
                     exit(1);
       printf("SOCKET CREATED\n");
       memset(&addr,0,sizeof(addr));
       addr.sin family=AF INET;
       addr.sin_addr.s_addr=INADDR_ANY;
       addr.sin_port=PORT;
       ret=bind(sockfd,(struct sockaddr *)&addr,sizeof(addr));
       if(ret<0)
                     printf("error binding!\n");
                     exit(1);
       printf("binding done...\n");
       printf("waiting for a connection...\n");
       listen(sockfd,5);
       for(;;)
              {
                     len=sizeof(cl_addr);
                     newsockfd=accept(sockfd,(struct sockaddr *)&cl_addr,&len);
                     if(newsockfd<0)
                            {
                                   printf("error accepting connection!\n");
                                   exit(1);
                     printf("connection accepted...\n");
                     inet_ntop(AF_INET,&(cl_addr.sin_addr),clientAddr,CLADDR_LEN);
                     if((childpid=fork())==0)
                                   close(sockfd);
```

```
for(;;)
                                                  memset(buffer,0,BUF_SIZE);
                                                  ret=recv(newsockfd,buffer,BUF_SIZE,0);
                                                  if(ret<0)
                                                                 printf("error receiving data!\n");
                                                                 exit(1);
                                                  printf("received data from %s:%s\
n",clientAddr,buffer);
                                                  ret=send(newsockfd,buffer,BUF_SIZE,0);
                                                  if(ret<0)
                                                                 printf("error sending data!\n");
                                                                 exit(1);
                                                  printf("sent data to %s:%s\n",clientAddr,buffer);
                                           }
                     close(newsockfd);
              }
}
```

multic.c

```
#include"stdio.h"
#include"stdlib.h"
#include"sys/types.h"
#include"sys/socket.h"
#include"string.h"
#include"netinet/in.h"
#include"netdb.h"
#define PORT 4444
#define BUF_SIZE 2000
int main(int argc,char**argv)
{
       struct sockaddr_in addr,cl_addr;
       int sockfd,ret;
       char buffer[BUF_SIZE];
       struct hostent * server;
       char * serverAddr;
       if(argc<2)
                     printf("usage: client<ip address>\n");
                     exit(1);
       serverAddr=argv[1];
       sockfd=socket(AF_INET,SOCK_STREAM,0);
       if(sockfd<0)
              {
                     printf("error creating socket!\n");
                     exit(1);
       printf("Socket created...\n");
       memset(&addr,0,sizeof(addr));
       addr.sin_family=AF_INET;
       addr.sin_addr.s_addr=inet_addr(serverAddr);
       addr.sin_port=PORT;
       ret=connect(sockfd,(struct sockaddr *)&addr,sizeof(addr));
       if(ret<0)
                     printf("error connecting to the server!\n");
                     exit(1);
       printf("Connected to the server...\n");
       memset(buffer,0,BUF_SIZE);
       printf("enter your message(s):");
       while(fgets(buffer,BUF_SIZE,stdin)!=NULL)
                     ret=send(sockfd,buffer,BUF_SIZE,0);
                     if(ret<0)
                                    printf("Error sending data!\n\t-%s",buffer);
                     ret=recv(sockfd,buffer,BUF_SIZE,0);
```

```
gobackn_s.c
#include<stdio.h>
#include<string.h>
#include<sys/types.h>
#include<netinet/in.h>
#include<netdb.h>
#include<unistd.h>
struct frame
{
       int packet[40];
};
struct ack
       int acknowledge[40];
};
int main()
       int serversocket:
       struct sockaddr in serveraddr, clientaddr;
       socklen t len;
       struct frame f1:
       int windowsize, totalpackets, totalframes, i = 0, j = 0, framesend=0, framesreceived = 0, k, l,
buffer;
       struct ack acknowledgement;
  char req[50];
  serversocket = socket(AF_INET, SOCK_DGRAM, 0);
  bzero((char*)&serveraddr,sizeof(serveraddr));
  serveraddr.sin family = AF INET;
  serveraddr.sin_port = htons(5018);
  serveraddr.sin_addr.s_addr=INADDR_ANY;
  bind(serversocket,(struct sockaddr*)&serveraddr,sizeof(serveraddr));
  bzero((char*)&clientaddr,sizeof(clientaddr));
  len=sizeof(clientaddr);
  printf("\nWaiting for client connection");
  recvfrom(serversocket, req, sizeof(req), 0, (struct sockaddr*)&clientaddr, &len);
  printf("\nSending request for window size\n");
  sendto(serversocket, "REQUEST FOR WINDOW SIZE", sizeof("REQUEST FOR WINDOW
SIZE"), 0, (struct sockaddr*)&clientaddr,sizeof(clientaddr));
  printf("waiting for th window size\n");
  recvfrom(serversocket, (char*)&windowsize, sizeof(windowsize), 0, (struct
sockaddr*)&clientaddr, &len);
  printf("\n The window size obtained as :\t %d \n",windowsize);
  printf("\nObtaining packets from network layer\n");
  printf("\nTotal packets obtained: %d\n",(totalpackets=windowsize*5));
  printf("\nTotal frames or windows to be transmitted: %d\n",(totalframes=5));
  printf("\n sending total number of packets\n");
  sendto(serversocket, (char*)&totalpackets, sizeof(totalpackets), 0, (struct sockaddr*)&clientaddr,
sizeof(clientaddr));
  recvfrom(serversocket, req, sizeof(req), 0, (struct sockaddr*)&clientaddr, &len);
```

```
printf("\nSending total number of frames\n");
  sendto(serversocket, (char*)&totalframes, sizeof(totalframes), 0, (struct sockaddr*)&clientaddr,
sizeof(clientaddr));
  recvfrom(serversocket, reg, sizeof(reg), 0, (struct sockaddr*)&clientaddr, &len);
  printf("\nPress Enter to start the process\n");
  fgets(req,2,stdin);
  while(i<totalpackets)
              bzero((char*)&f1,sizeof(f1));
              printf("\nInitializing the transmit buffer\n");
              printf("\nThe frame to be send is %d with packets:",framesend);
              buffer=1:
              j=0;
              while(j<windowsize && i<totalpackets)</pre>
                             printf("%d",i);
                             f1.packet[j]=i;
                             j++;
                             i++:
              printf("sending frame %d\n",framesend);
              sendto(serversocket, (char*)&f1, sizeof(f1), 0, (struct sockaddr*)&clientaddr,
sizeof(clientaddr));
              printf("Waiting for the acknowledgement\n");
              recvfrom(serversocket, (char*)&acknowledgement, sizeof(acknowledgement), 0,
(struct sockaddr*)&clientaddr, &len);
              i=0;
              k=0;
              l=buffer;
              while(j<windowsize && l<totalpackets)</pre>
                             if(acknowledgement.acknowledge[j]==-1)
                                            printf("\nNegative acknowledgement received for
packet: %d\n",f1.packet[j]);
                                            printf("\nRetransitting from packet: %d\
n",f1.packet[j]);
                                            i=f1.packet[i];
                                            k=1;
                                            break;
                             if(k==0)
                                            printf("\nPositive acknowledgement received for all
packets, within the frame :%d\n",framesend);
                              framesend++;
                              printf("\nPress enter to proceed\n");
                              fgets(req,2,stdin);
              printf("\nAll frames sends successfully\n closing connection with the client\n");
              close(serversocket);
```

}

```
gobackn_c.c
#include <stdio.h>
#include <sys/types.h>
#include <netinet/in.h>
#include <netdb.h>
#include <string.h>
#include <unistd.h>
struct frame {
  int packet[40];
};
struct ack {
  int acknowledge[40];
};
int main() {
  int clientsocket;
  struct sockaddr_in serveraddr;
  socklen t len;
  struct hostent *server:
  struct frame f1;
  int windowsize, totalpackets, totalframes, i = 0, j = 0, framesreceived = 0, k, l, buffer;
  struct ack acknowledgement;
  char req[50];
  clientsocket = socket(AF_INET, SOCK_DGRAM, 0);
  if (clientsocket < 0) {
    perror("ERROR opening socket");
    exit(1);
  bzero((char*)&serveraddr, sizeof(serveraddr));
  serveraddr.sin_family = AF_INET;
  serveraddr.sin_port = htons(5018);
  server = gethostbyname("127.0.0.1");
  if (server == NULL) {
    fprintf(stderr, "ERROR, no such host\n");
    exit(0);
  }
  bcopy((char*)server->h_addr, (char*)&serveraddr.sin_addr.s_addr, sizeof(server->h_addr));
  printf("Sending request to the server\n");
  sendto(clientsocket, "HI IAM CLIENT", strlen("HI IAM CLIENT"), 0, (struct
sockaddr*)&serveraddr, sizeof(serveraddr));
  printf("\nWaiting for reply\n");
  recvfrom(clientsocket, req, sizeof(req), 0, (struct sockaddr*)&serveraddr, &len);
```

```
printf("\nThe server has to send:\t%s\n", req);
  printf("\nEnter the window size\n");
  scanf("%d", &windowsize);
  printf("\nSending window size\n");
  sendto(clientsocket, (char*)&windowsize, sizeof(windowsize), 0, (struct sockaddr*)&serveraddr,
sizeof(serveraddr));
  printf("\nWaiting for the server response\n");
  recvfrom(clientsocket, (char*)&totalpackets, sizeof(totalpackets), 0, (struct
sockaddr*)&serveraddr, &len);
  printf("\nTotal packets are :\t%d\n", totalpackets);
  sendto(clientsocket, "RECEIVED", strlen("RECEIVED"), 0, (struct sockaddr*)&serveraddr,
sizeof(serveraddr));
  recvfrom(clientsocket, (char*)&totalframes, sizeof(totalframes), 0, (struct
sockaddr*)&serveraddr, &len);
  printf("\nTotal number of frames or windows are:\t%d\n", totalframes);
  sendto(clientsocket, "RECEIVED", strlen("RECEIVED"), 0, (struct sockaddr*)&serveraddr,
sizeof(serveraddr));
  printf("\nStarting the process of receiving\n");
  while (i < totalpackets) {
    printf("\nInitializing the received buffer\n");
    printf("\nThe expected frame is %d with packets:", framesreceived);
    i = 0;
    buffer = i;
    while (j < windowsize \&\& i < totalpackets) {
       printf("%d", i);
       i++;
       j++;
     }
    printf("\nWaiting for the frame\n");
    recvfrom(clientsocket, (char*)&f1, sizeof(f1), 0, (struct sockaddr*)&serveraddr, &len);
    printf("\nReceived frame %d\n\nEnter -1 to send negative acknowledgement for the following
packets\n", framesreceived);
    j = 0;
    i = buffer;
    k = 0;
    l = buffer;
    while (j < windowsize && i < totalpackets) {
       printf("\nPacket:%d\n", f1.packet[j]);
       scanf("%d", &acknowledgement.acknowledge[j]);
       if (acknowledgement.acknowledge[i] == -1) {
         if (k == 0) {
            i = f1.packet[j];
```

```
k = 1;
}

j++;
l++;
}

framesreceived++;
sendto(clientsocket, (char*)&acknowledgement, sizeof(acknowledgement), 0, (struct sockaddr*)&serveraddr, sizeof(serveraddr));
}

printf("\nAll frames received successfully\nClosing connection with the server\n");
close(clientsocket);
return 0;
}
```

selectiver_s.cpp

```
#include<iostream>
#include<stdio.h>
#include <strings.h>
#include<sys/types.h>
#include<netinet/in.h>
#include<netdb.h>
#define cls() printf("33[H33[J")
struct frame
{
int packet[40];
};
struct ack
{
int acknowledge[40];
};
int main()
int serversocket;
sockaddr_in serveraddr,clientaddr;
socklen_t len;
int windowsize,totalpackets,totalframes,framessend=0,i=0,j=0,k,l,m,n,repacket[40];
ack acknowledgement;
frame f1;
char req[50];
serversocket=socket(AF_INET,SOCK_DGRAM,0);
bzero((char*)&serveraddr,sizeof(serveraddr));
```

```
serveraddr.sin family=AF INET;
serveraddr.sin port=htons(5018);
serveraddr.sin_addr.s_addr=INADDR_ANY;
bind(serversocket,(sockaddr*)&serveraddr,sizeof(serveraddr));
bzero((char*)&clientaddr,sizeof(clientaddr));
len=sizeof(clientaddr);
printf("\nWaiting for client connection.\n");
recvfrom(serversocket,reg,sizeof(reg),0,(sockaddr*)&clientaddr,&len);
printf("\nThe client connection obtained.\t%s\n",req);
printf("\nSending request for window size.\n");
sendto(serversocket,"REQUEST FOR WINDOWSIZE.",sizeof("REQUEST FOR
WINDOWSIZE."),0,(sockaddr*)&clientaddr,sizeof(clientaddr));
printf("\nWaiting for the windowsize.\n");
recvfrom(serversocket,(char*)&windowsize,sizeof(windowsize),0,(sockaddr*)&clientaddr,&len);
cls();
printf("\nThe windowsize obtained as:\t%d\n",windowsize);
printf("\nObtaining packets from network layer.\n");
printf("\nTotal packets obtained:\t%d\n",(totalpackets=windowsize*2));
printf("\nTotal frames or windows to be transmitted:\t%d\n",(totalframes=2));
printf("\nSending total number of packets.\n");
sendto(serversocket,(char*)&totalpackets,sizeof(totalpackets),0,
(sockaddr*)&clientaddr,sizeof(clientaddr));
recvfrom(serversocket,reg,sizeof(reg),0,(sockaddr*)&clientaddr,&len);
printf("\nSending total number of frames.\n");
```

```
sendto(serversocket,(char*)&totalframes,sizeof(totalframes),0,
(sockaddr*)&clientaddr,sizeof(clientaddr));
recvfrom(serversocket,req,sizeof(req),0,(sockaddr*)&clientaddr,&len);
printf("\nPRESS ENTER TO START THE PROCESS.\n");
fgets(req,2,stdin);
cls();
j=0;
l=0;
while( l<totalpackets)</pre>
{
 bzero((char*)&f1,sizeof(f1));
 printf("\nInitialising the transmit buffer.\n");
 printf("\nThe frame to be send is %d with packets:\t",framessend);
 for(m=0;m< j;m++)
 {
 printf("%d ",repacket[m]);
 f1.packet[m]=repacket[m];
 }
 while(j<windowsize && i<totalpackets)</pre>
 {
 printf("%d ",i);
 f1.packet[j]=i;
 i++;
 j++;
```

```
}
 printf("\nSending frame %d\n",framessend);
 sendto(serversocket,(char*)&f1,sizeof(f1),0,(sockaddr*)&clientaddr,sizeof(clientaddr));
 printf("\nWaiting for the acknowledgement.\n");
 recvfrom(serversocket,(char*)&acknowledgement,sizeof(acknowledgement),0,
(sockaddr*)&clientaddr,&len);
 cls();
 j=0;
 k=0;
 m=0;
 n=l;
 while(m<windowsize && n<totalpackets)
 {
 if(acknowledgement.acknowledge[m]==-1)
 {
  printf("\nNegative acknowledgement received for packet: %d\n",f1.packet[m]);
  k=1;
  repacket[j]=f1.packet[m];
  j++;
 }
 else
 {
  l++;
 }
 m++;
 n++;
 }
```

```
if(k==0)
{
printf("\nPositive acknowledgement received for all packets within the frame: %d\n",framessend);
}

framessend++;
printf("\nPRESS ENTER TO PROCEED.....\n");
fgets(req,2,stdin);
cls();
}
printf("\nAll frames send successfully.\n\nClosing connection with the client.\n");
//close(serversocket);
}
```

selectiver_c.cpp

```
#include<iostream>
#include<stdio.h>
#include <strings.h>
#include<sys/types.h>
#include<netinet/in.h>
#include<netdb.h>
#define cls() printf("33[H33[J")
                              //structure definition for accepting the packets.
struct frame
{
int packet[40];
};
               //structure definition for constructing the acknowledgement frame
struct ack
{
int acknowledge[40];
};
int main()
int clientsocket;
sockaddr_in serveraddr;
socklen_t len;
hostent * server;
frame f1;
int windowsize,totalpackets,totalframes,i=0,j=0,framesreceived=0,k,l,m,repacket[40];
ack acknowledgement;
```

```
char req[50];
 clientsocket=socket(AF INET,SOCK DGRAM,0);
 bzero((char*)&serveraddr,sizeof(serveraddr));
serveraddr.sin_family=AF_INET;
serveraddr.sin_port=htons(5018);
server=gethostbyname("127.0.0.1");
bcopy((char*)server->h_addr,(char*)&serveraddr.sin_addr.s_addr,sizeof(server->h_addr));
                             //establishing the connection.
printf("\nSending request to the client.\n");
sendto(clientsocket,"HI I AM CLIENT.", sizeof("HI I AM CLIENT."),0,
(sockaddr*)&serveraddr,sizeof(serveraddr));
 printf("\nWaiting for reply.\n");
recvfrom(clientsocket,req,sizeof(req),0,(sockaddr*)&serveraddr,&len);
printf("\nThe server has send:\t%s\n",req);
                             //accepting window size from the user.
printf("\nEnter the window size:\t");
scanf("%d",&windowsize);
                             //sending the window size.
printf("\n\nSending the window size.\n");
sendto(clientsocket,(char*)&windowsize,sizeof(windowsize),0,
(sockaddr*)&serveraddr,sizeof(serveraddr));
cls();
                             //collecting details from server.
printf("\nWaiting for the server response.\n");
recvfrom(clientsocket,(char*)&totalpackets,sizeof(totalpackets),0,(sockaddr*)&serveraddr,&len);
printf("\nThe total packets are:\t%d\n",totalpackets);
```

```
sendto(clientsocket, "RECEIVED.", sizeof("RECEIVED."), 0,
(sockaddr*)&serveraddr,sizeof(serveraddr));
 recv from (clients ocket, (char*) \& total frames, size of (total frames), 0, (sock addr*) \& server addr, \& len); \\
printf("\nThe total frames/windows are:\t%d\n",totalframes);
sendto(clientsocket, "RECEIVED.", sizeof("RECEIVED."), 0,
(sockaddr*)&serveraddr,sizeof(serveraddr));
                               //starting the process.
printf("\nStarting the process of receiving.\n");
j=0;
l=0;
while(l<totalpackets)
{
                                //initialising the receive buffer.
 printf("\nInitialising the receive buffer.\n");
 printf("\nThe expected frame is %d with packets: ",framesreceived);
   for(m=0;m< j;m++)
 {
                          //readjusting for packets with negative acknowledgement.
  printf("%d ",repacket[m]);
 }
 while(j<windowsize && i<totalpackets)</pre>
 {
  printf("%d ",i);
  i++;
  j++;
 }
 printf("\n\nWaiting for the frame.\n");
                              //accepting the frame.
```

```
recvfrom(clientsocket,(char*)&f1,sizeof(f1),0,(sockaddr*)&serveraddr,&len);
 printf("\nReceived frame %d\n\nEnter -1 to send negative acknowledgement for the following
packets.\n",framesreceived);
                             //constructing the acknowledgement frame.
 j=0;
 m=0;
 k=l;
 while(m<windowsize && k<totalpackets)</pre>
 {
  printf("\nPacket: %d\n",f1.packet[m]);
                            //accepting acknowledgement from the user.
  scanf("%d",&acknowledgement.acknowledge[m]);
  if(acknowledgement.acknowledge[m]==-1)
  {
  repacket[j]=f1.packet[m];
  j++;
  }
  else
  {
  ]++;
  }
  m++;
  k++;
 }
 framesreceived++;
```

//sending acknowledgement to the server.

```
sendto(clientsocket,(char*)&acknowledgement,sizeof(acknowledgement),0,
(sockaddr*)&serveraddr,sizeof(serveraddr));

cls();
}
printf("\nAll frames received successfully.\n\nClosing connection with the server.\n");
//close(clientsocket);
}
```