LAB ASSIGNMENT-3 (28.07.2021)

NAME: RUDRASKH MISHEA ROLL NO: 1906649 SECTION: 17-8 DATE: 28-07-21

QUESTION Write a sender and receiver program in Caring connection less socket. Both of them will exchange mersage with each other contineously. If any one receives the "exit" message from the other end then both of them will close, the connection CASSUME both client and server are running within the same host).

SOLUTION:

SERVER COPE:

```
# include (string is)
           # Indude (sys/saket n)
           # include < sys type ns
          # define MAX 80
          # define port 8080
         # define SA Smuct sock addr.
void func (the socked)
   { char buff [MAX];
      ine no
      for (;)
   L bzero (ban, MA);
       read (socked, buff, size of (buff));
       PRINCE ( FROM Client : " SH TO Client : " buff);
       b zero Chutt, MAX )
       n= 0,
       white ((but + con) = getchar () ! = 10);
      work (sak fd, bull, size of (bull));
    it ( street ( exit, buff, 4) == 0) {
           Parout (" server Oit ... \n");
          break ;
```

anclude (sedion)

include <netinet/in:n>
include <netdb:n>
include <sed!b n>

```
NAME: RUDRASISTI MISHPA
I've main ()
                                                    ROLL NO: 1906649
                                                     SECTION: IT-8
     inte società, connità, len;
     Struct sockaddr_in servaddr, clig
      SOCK +d = SOCKER (AF INEL SOCK_STREAM, O);
      " + (sock fd == -1)
       { point ( socket creation failed . In ");
       } exit (0);
cise
   point (" socuet succentully created . In");
   bzero (& servaddr, size of (servaddr));
  servador. sin - family - AF_INET;
   serradd. sin_addr.s_addr = monicin ADDR_ANY);
   Servaddr. sin-port = heons (PORT);
 If (Gind (socked, (SA*) & servadd, size of (servadd))) 1=0) {
     exit(0);
   elle
      print (" somet succentually binded ... In");
   if ((1:sten (sacked, 9)) !=0) {
      point + (" list en tailed . _ In");
      exi+ (0);
   elle
      point + ("server historing ... \n");
   len = size of ali);
   connex = accept (socket d, (sx +) & cli & len);
 it (counta(0)
  f print ("server accept tailed ... In");
     exit (0);
 elic
     Print + (" server accept me client ... In");
     func (conned);
     close (sock fd);
```

```
CHENT-CODE:
                                                                                                                                                               NAME: RODRASISH MISHRA
                     ALL APTOCATES SPEEDING
                                                                                                                                                               ROLL NO: 1706617
                      # Include < SHO! hs
                                                                                                                                                                SECTION: IT-8
                     to touluse carte m
                     # Include (suring -n)
                     # include ( sys /socree n)
                    # define MAX 80
                    + define rort 8000
                   # define SA Struct Sockaddr
void func (int socked)
                                char buff [MAX];
                                into no
                               for (si)
                        1 bzero (buff, size of (bufd);
                              print ("Enter the string; ");
                             while ((buff [m+] = getchar())!='\n');
                             write (society, buff, sizeot (buff));
                              bzero Chutt, size at Chutt);
                              read (socked , buff, size of (buff)}
                       it (( struct (but, "exit", +)) == 0)
                             { pot nut (" Client Exit ... No");
                               1 break;
                     int main ()
                        The socked conned;
                        Struct sociadarin servaddicis
                       SOCK Fd = SUCKET CAF_INET, SOCK_STROM, 03
                 it (socreta == -1) { Print ("socret creation failed ... \n");
                else
                           Poton + ( " so curet succentally created .. \n");
       Servaddr Sin-fantis = AF - INET;

Servaddr Sin-fantis = AF - INET;

Servaddr Sin-addr S-addr = inex-addr ("127.0.0.1");

14 (connect (South Connect (South C
        if (connect (società, (SA+) & servadar, sizeo+ (servadar))!=0)
                   & porner ("connection with the server lasted ... in");
    elic
                  postnet Commected to the server ... In ),
   fur ( sock +d);
   close (Sock +d);
```

