LAB - 04

```
Persistent connection
```

exit(1);

```
Server-c
#include < stdio.h>
# Include LStdlib.h>
#include < cys/types-h>
#Include esystacket. ht
#include < string. h>
# include carpalinet. h>
#include < unistd.h>
#include < netinet/in. h>
# define PORT 8369
#define BUF_SIZE 2000
#define CLADDRIEN 100
void main ()
   struct sockaddrin addr. cl-addr;
   int socked, len, ret, newsocked;
   char buffer[BUF_SIZE];
   Pid-t childpid;
    char dientaddrt CLADDR-LENJ;
    Char send-message [BUF-SIZE] = "HTTP/1.1 200 Done in server:
     local server in connection: close in Hello from server in";
    char msg [BUF-SIZE] = "GET/Message;";
     char print-message [BUF_SIZE] : "http://lnuser-agent: client
                                        in connection; closeln';
     SOCKED = SOCKED (AF-INET, SOCK_STREAM, 0);
      if (sockfd 20)
        print (- Error creating socket in");
```

```
printy ( sacketereated .. In"):
memset (raddr, O, sizeofladdrs);
addr. sin_family = AF_INET;
 addr. sinaddr. sin_addr = INADDR_ANY;
 addr. Inport = PORT;
 ret = bind cooked, (struct sockadar *) 2 addr, sizeof(addr));
 "fcret 20)
    printf (" Error binding (n");
   exit(1);
  Printf ( Binding done ... \n");
  printf( waiting for a conhection ... \n");
   listen(sockfd, 5);
   for (;;) &
      len: size of (cl-addr):
      newsocked = accept (socked, (struct cockeder*)
                      & cl-addr, >len);
       if (newsocked <0)
          printf(' Error accepting connectionin's;
       print (' connection accepted . \n');
       Pret_ntop (AF_INET, & (Cl_addr.sin_addr), clientAddr,
                                              CLADDR_LEN);
       if ((childpid = fork()) == 0)
        close(sockfd);
        for(;;) ?
           manset (buffer, O, BUF-SIZE);
           ret = recription (newsackfd, buffer, BUF_SIZE, O,
                   (struct sockaddr *), &chiaddr, sten);
          if (ret 20)
             print(: Error receiving data. \n");
             exit(1);
```

```
Print( ' Received data from %s: "/os in", client Addr, buffer);
    Print ( 1 905", msq ))
    prints (1900", buffer);
     Print( "%s", print_mossage);
     ret = send to (new socked, buffer, BUF-97E, O, (struct cockedobr*)
                  act-addr, len);
     Pa (retro)
       Print ( 'Error sending data (n");
      exi+(0);
      Printf ( send data to 10 s: "1.5 \n", client Addr, buffer);
    close (newsockfd);
client-c
#Include < stdio. h>
#Include < Stdlib. h>
#Include Lays/types-h>
#Include (sys/socket-h>
Hinclude <string. h>
#Include Larpa/Inet.h>
#include < notinot lin . h>
# Include < notab. h>
# define PORT 8369
# define BUF_SIZE 2000
int man (intage, char ** argv)
   struct sockeddr-in addr, claddr;
   int sockfd, ret;
   char buffer EBUF_SIZEJ;
    Struct hostent * server;
    char * somerAddr:
```

```
if carge 42)
 print ( susage : client 1 9p address > (n');
 exit(1);
ServarAddr = arg vt 13;
Socked = QOCKED CAF_INET, SOCK_STREAM, 0);
if (cocked < 0)
   printle From creating socket in";
   exit(1):
 Print+('socket created...\n");
 menset ( > addr, o, size of caddr));
  addr-sin-family : AF-INET;
  addr. sinaddr.s-addr = Fret-addreserverAddr);
  addr.sin-port = PORT;
  ret = connect (socked, (struct sockaddr*) , addr, sizect
  ff (ret < 0)
     Print ( Error connecting to the senerin");
     ex 1+(1);
   Print ( connected to the sorver ... \n");
   menset (buffer, O, BUF_SIZE );
    printf ( 'Enter your message (s): ");
    write (fgets (buffer, BUF- SIZE, stdin) } = NULL)
      ret = send+ocsock+d, buffer, BUF_SIZE, O,
                   (etruct sockaddr*) reddr, size of (addr));
     If (ret co)
       print('Error sending data (n(+-%s', buffer);
```

```
ret = recriftom (socked, buffer, BUFSIZE, O, NULL, NULL);
     Pf (rot (0)"
       Printf ( 1 Error receiving data (n');
     else
       Print( Received: ");
        spets (buffer, stdout);
        Print(-1/n");
     return o;
3
OUTPUT:
Server:
Socket created ...
Birding done ...
waiting for a convodion ...
connection accepted ...
Received data from 127.0.0.1: Heyy!
GET/message: Heyy!
MAP/1.1
User-agent: client
connection: close
Sont data to 127.0.0.1; fleyy!
Received data from 127.0.0.1: I am sachin Raghul
CIETI message: Iam Sachin Ragher
nttp/1-1
Vser-agent: dient
connection; close
Sent data to 127.0.0.1: I am sachin pagnul
Received data from 127.0.0.1; Bye Exiting
```

client:

socket created ...

conveded to the server ...

Enter your message (c): Heyy!

Received: HTTP/1.1 200 Done

Server: localserver

connection: close

Hello from server

I am sachin Raghul

Received: HTTP/1.1 200 Done

server; localserver

connection: close

Hello from Server.

Bye Exiting

Received: HTTP/1.1 200 Done

server: local server

correction : close

Hello from server.