Ext No: 0 ,

RAIDIIO29010107 J1 Section

INCLINENTATION OF FILE TRANSFER PROTOCOL

hiven Requirement

AIM: To implement the FTP application, where the client on establishing a connection with the Server sends the name of the jule it wishes to access hemotely the name of the jule it wishes to access hemotely the name. Hen sends the contents of the file the server then sends the contents of the file to the dient where it is stored.

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METHODOLOGY:

Server:

· Include nesecony header files.

· breate a socket using formly AF_INET

Type as SOCK_STREAM.

- · Intalize server address to During the legena function
- · Assign the stor-family to AF-INET, sin-adds to INDOR-ANY, sin-post to dynamically assigned post number.
- · find the board host address to the oochet for connection request from the client
- i recept connection request from he client using except fundion.
- e within an infinite loop, receive filenem from me Went.

. open he gree , read me file contents to a lufer and send the toyser to the dient.

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client.

all the same and a second of the . Include the necessary header files.

- · Create a socket using socket function with Jamey AF-INET type as SOCK-STREAM.
- · Inhabize the server address to a using the bzeso function.
- · Aring the nin-formy to AF-INET
- · Get me server IP Address and port number from me
- vonode.

 Voing get host by nome junction assign it to a hobert structure and assign it to pin-addr of the sener over don its fairly = E. ME). address structure.
- · Within an inpute look, and the name of the file to be wiewed to the server.
- · Recleve the jile contents, store It in the jile and print it in the rande.

SERVER.C:

include 2 sys / hype h's

include & mys / nocket. h)

include Lys 1 stat. h>

include Larga linet. h>

include & netinet lin. h}

include & netdl.h).

```
# include (unistd. h)
                      The the state of the the
 # include < stdie h >.
                    they are the to the first.
 # include Lotning. h>
 int main ( mt auge, than *argv[])
                       only eques homes no - in got
 int od, ad, mise;
    Nruct nockaddr_in servaddr, cheaddr;
 socklen-todilen; of all whose sure and soloning
    elilen = nije of (dioddh) in it plinof in
 struct state of good some mediated at me is the
file *ff;
    bsero (& survaddr, Mzea) (servaddr));
   servador. vin - jourly = AF-INBT. souls with with
   servuddr. pin-addres + addre Hord (INADDR_ ANY).
    servoid. in-port = htas (903);
    od = nother (AF-INET, SOUX STREMO);
    und lod, lotnuck sockodde") to servadar, size of lornodde)
    listen (sd, s);
     printt ("0/0 D/n", "Server is running.");
    add = accept (nd, ( Monte sockador) & dickador, v dien);
      while (1) {
         byero (buff , mize of (buff)),
                                            d.
         bzera (luff, rize of tyle);
                                            in william
         the = Jopen (buff , rize of (wyf), 0);
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stat (uff, &n);
      Nige = n. M. - Mige i man and a mine and deliver
      freed ( file, size of Chile) 11, tp);
      send (ad, file, rize of (tite), 0);
                                                (1) Skilw
           perter some their the the street)
Client.c
                       it that i was not from I took I'm
 A include Knys / type hat have a stable to
 # include Loys ( nochet . h >
                         A. T. " " TOF 6-1/2
 # include < netinet / in . h>.
It include Larpalinet h)
                          part Proper Hers
# include Lnetalle. 4)
H include Lotato. L.Z.
# include Lunistd. h>
                                         Desture C;
 internain (int arge, war *argv [])
      into od, cd;
      Nruit - sockoddr-in servaddr, diaddr;
      socklen_t cliden;
      char buff [100], tike [10000];
      struck hostert "h;
      h = gethorthymone (argv (1));
      tzero (knernadda, nizeof (nernadda));
      servadde. infamily = h -> h-addrtyhe;
     menicky (chant) & servedde . sin-addr. saddr-list[0],
       has helength );
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```
servaddr. sin_port : htms (9053)
od = pocket (AF_INET, SOCK_STREAH, D);

Cd = connect (Nd, struct pockedent) & servedent, nize of Couraday;
while (1)
        prints ("060/m", 'Enter the File Name!);
        scory ("10/. s/m", luff)
        send ( od, buff, Noten (buff) +1,0);
        print ("01.1 \n", "File output")
        new (nd, tile, ingeof (tile), 0);
        print ("0100", tide);
                                     a to deade in whole is in
                                      I had hother his
     return 0;
                                     Ky Johnson with the
                      (C. Ming wat " show you will wise of
 Result: The FTP protocol is implement with socket programming
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