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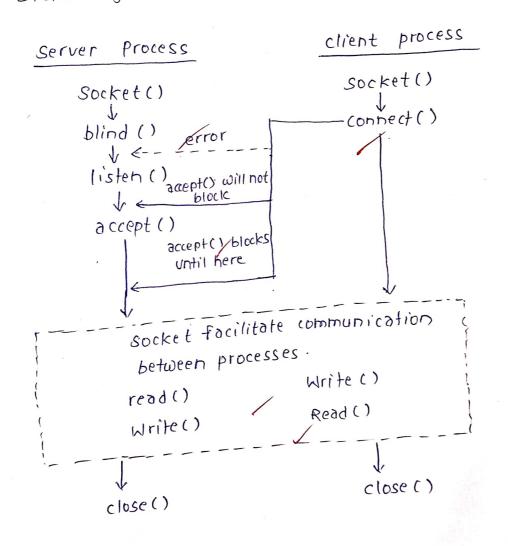
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| SIGNMENT OF PARTMENT | Computer Networks Lab |
| ATE OF EXPERIMENT / ROJECT | 28/4/2022 |
| ATE OF SUBMISSION | |
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| | socket program to get the current date & time |
| TITLE | to get the current date & |
| OBJECT | Socket program to get the current date & time from the Server |

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Objective: To Write a Socket program to get the current date & time from the server.

Introduction:

socket programming is a way of connecting two nodes on a network to communicate with each other One Socket (node) listens on a particular port at an IP, While others socket reaches out to the other to form a connection. server forms the listener socket while client reaches out to the server. State diagram for server & client.



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code
   Data client
   import java.io. *;
    import java . het .*;
    class Date Client {
       public static void main (String args[]) throws Exception
       Socket Soc = new Socket (Inet Address. get Local Host (), 5217);
    Buffered Reader in = new Buffered Reader (new Input Stream Reader
                         (soc.getsnputstream()));
       System. out . println (in . readline());
    Data Server:
     import java . net . * ;
     import java .io. *;
     import java · util·*;
     class DateServer {
     public Static void main (string args []) throws Exception }
         Server Socket s = new Server Socket ($217);
        while (true) }
              System.out. println ("Waiting for connection ...")
              Socket soc = s. accept();
              Data OutputStream out = new Data OutputStream
                                    (soc.get output stream());
              Out · write Bytes ("Server Date: "+ (new · Datei)
                                 · tostring () + " \n");
                  out ·close();
                  Soc. close();
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Result:

- First compile the client code on console and then compile the server code on different console.
- , Run the Server code, after that client code Now the client console shows the time and date of the Server machine.

Server Date: Thu Apr 28 11:35:42 IST 2022

Discussion:

Socket programming shows how to use socket API's to established communication links between remote and local processes. Typically it is an inter process communication technique

- O pipes
- message queues
- (ii) shared Memory.

After creation of the socket, bind function birds the socket to the addresses and port number. We bind the server with the localhost.

So, Finally after establishing the connection We got the Server date.

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