**Date-Time Server and Client program in JAVA**

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| [Server-Client Visualization](http://3.bp.blogspot.com/-_h4s7PyjIjg/VgD9FP_Ch4I/AAAAAAAAH_g/T66Rh3bjNa0/s1600/Server-client-01.jpg) |
| Server-Client Visualization |

Networking is very powerful area which allows different machines to get connected. Human life became very easy through the networking concepts. Lets start the discussion of the same with understanding basics of the Networking & How to do it in JAVA.

Networking allows communication between 2 or more computers. The diagram shown here is just for example to get an idea of how networking is done. Only one Server & 8 Clients are shown in the diagram. Clients makes requests to Server & Server serves those requests.

1. Write a program to display the server’s date and time details at theclient end.

import java.net.\*;

import java.io.\*;

import java.util.Date;

/\*\*

\*

\* @author

\*/

public class JavaApplication7{

/\*\*

\* @param args the command line arguments

\*/

public static void main(String[] args)throws IOException {

// TODO code application logic here

//Step 1. Reserve a port number on the Server to offer this service

ServerSocket ss= new ServerSocket(5000);

//(Optional)To confirm Server Reserved specified port or not

System.out.println("The Server has reserved port No.: "+ss.getLocalPort()+" for this Service");

//Step 2. Now create a Client Socket on Server for Bidirectonal Communication.

//Socket is created only when client communicates with the server

Socket cs=ss.accept();

//To confirm Server communicated through the socket or not

System.out.println("Client with IP Address "+cs.getInetAddress()+" has communicated via port No.: "+cs.getPort());

Date d=new Date();

String s="Current Date & Time on Server is:"+d;

//Send String s to client via client socket

PrintWriter toclient=new PrintWriter(cs.getOutputStream(),true);

toclient.print(s);

toclient.close();

cs.close();

ss.close();

}

}

import java.net.\*;

import java.io.\*;

/\*\*

\*

\* @author

\*/

public class NewClass

{

/\*\*

\* @param args the command line arguments

\*/

public static void main(String[] args) throws UnknownHostException,IOException {

// TODO code application logic here

//Step 1. Create a client socket to connect to Server

Socket cs= new Socket("LocalHost",5000);

//To confirm Client is communicating through the port

System.out.println("Client "+cs.getInetAddress()+" is communicating from port No.: "+cs.getPort());

//Receive Date Sent by Server

BufferedReader fromserver=new BufferedReader(new InputStreamReader(cs.getInputStream()));

System.out.println(fromserver.readLine());

fromserver.close();

cs.close();

}

}