

socket programming

by C K

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```
package client;
```

Article Error (ETS)

```
import java.io.DataInputStream; //reads information from the stream
```

```
import java.io.DataOutputStream; //enables software to take use of the input stream for reading simple data
```

```
import java.io.IOException; //When an input or output operation fails or is misinterpreted, // an input/output exception (I/O) is thrown.
```

```
import java.net.Socket; //The ServerSocket Class is for implementing the server's end of a // client/server Socket Connection in a platform-independent manner.
```

```
import java.net.UnknownHostException; //Since each instance of the socket class is uniquely // bound to a single distant host, establishing a connection to a different host requires the creation of a new socket object.
```

```
//Perform the necessary setup on the input stream as well as socket
```

Article Error (ETS)

```
public class Client {
```

Article Error (ETS)

```
//Set the output and input streams just on socket to their default values.
```

```
private Socket socket = null; //assigns the null vale to the socket
```

Dup. (ETS)

```
private DataInputStream input = null; //data input stream is assigned a null value
```

```
private DataOutputStream out = null; // the same proceed is repeated to the same
```

```
// constructor for entering the port number and the ip address
```

```
public Client(String address, int port) {
```

Article Error (ETS)

```

try { //it will utilize available address and port

    socket = new Socket(address, port); // will create a new socket and address

    System.out.println("connected");// when the connection is established his message will be
    displayed

    System.out.println("hello world");// also this will be displayed

    input = new DataInputStream(System.in);

    // sends output to the socket

    out = new DataOutputStream(socket.getOutputStream()); // this will send output from the client

} catch (UnknownHostException u) { //will try to connect with available host server

    System.out.println(u); // it will display the connection message after connection

} catch (IOException i) { // tries to catch errors if may arise

    System.out.println(i); // prints the error catched

} // message that will be read from the input string

String line = "";

// continue reading until the word "Over" is entered.

//and until the connection is disconnected

while (!line.equals("Over")) {

    try {

        line = input.readLine();

        out.writeUTF(line); // use the encoding method

    } catch (IOException i) { // tries to catch any error if they may occur

        System.out.println(i); // prints the errors

    }

}

```

```

// pull the plug on the connection.

// after the connection is broken or if the client decides to close

try {

    input.close(); //closes the input

    out.close(); //closes the output

    socket.close(); //closes the socket

} catch (IOException e) {
    System.out.println(e);
}

}

public static void main(String args[]) {
    Client client = new Client("127.0.0.1", 5000);
}
}

```

Task 2

Set the output and input streams just on socket to their default values.

socket programming

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