socket programming

Submission date: 05-Oct-2022 04:47AM (UTC-0400)

Submission ID: 1917204565

File name: package_client.docx (13.96K)

Word count: 419

Character count: 2361

```
package client;
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```

new socket object.

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

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

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```

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

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

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) {

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```
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) { //wil 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); //prits 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 enconding 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 |) {
    Proper Nouns (ES)

    System out.println(1);
    Article Error (Proper Nouns (ES)

}

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.

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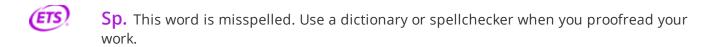
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