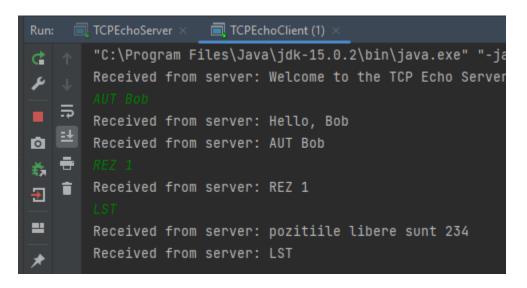
Tema 1

Am reusit sa fac un sistem distribuit care creaza si inchide conexiuni, rezerva locurile de autobus pentru utilizatori si listeaza pozitiile libere.

Am creat o clasa server, in care folosind ServerSocket creez un server socket ce primeste conexiuni, apoi intr-un fir de executie ce foloseste metodele dataOutputStream si dataInputStream trimit si prrimesc mesaje de la client. Daca mesajul clientului incepe cu anumite comenzi. Precum "AUT", serverul va face anumite modificari asupra unui vector.

Clasa client se conecteaza la server si trimite/primeste mesaje.



```
Run: TCPEchoServer × TCPEchoClient (1) ×

Server created on port 3005

Awaiting client connection...

Client connected from /127.0.0.1

You typed: AUT Bob

You typed: REZ 1

Bob

You typed: LST

pozitiile libere sunt234
```

```
String loc;
DataOutputStream(clientSocket.getOutputStream());
                    Persoana = input.substring(4);
                    dataOutputStream.writeUTF("Hello, " + Persoana);
```

```
dataInputStream.close();
    dataQutputStream.close();
    serverSocket.close();
} else if (input.equals("LST")) {
    int poz = 0;
    for (int i = 0; i < rezervat.length; i++) {
        if (rezervat[i] == 0)
            poz = poz * 10 + i;
    }
    dataQutputStream.writeUTF("pozitiile libere sunt " +
poz);

System.out.println("pozitiile libere sunt" + poz);

}

// write data back to client
    dataQutputStream.writeUTF(input);

}

catch (IOException e) {
    System.out.println("Client disconnected from server");
}

try {
    serverSocket.close();
} catch (Exception e) {
}
}</pre>
```

CLIENT

```
package org.example;
import java.net.*;
import java.io.*;
class TCPEchoReader extends Thread {
    public TCPEchoReader(DataInputStream input) {
        dataInputStream = input;
        active = true;
```

```
String address = "localhost";
    System.out.println("Problems initialising: " + e);
    socket.close();
```