Write a program using TCP socket for wired network for following a.Calculator

Client Side

```
import java.io.*;
import java.net.*;
import java.util.*;
public class ClientCal {
 public static void main(String[] args) throws IOException {
   // fetching address of localhost
   InetAddress addr = InetAddress.getLocalHost();
   Scanner inp = new Scanner(System.in);
   // establishing socket connection
   Socket sock = new Socket(addr, 6666);
   // to send and receive data through streams
   DataInputStream inpStrm = new DataInputStream(sock.getInputStream());
   DataOutputStream outpStrm = new DataOutputStream(sock.getOutputStream());
   try {
    while (true) {
      System.out.println("Type 1 for Addition");
                 System.out.println("Type 2 for Subtraction");
                 System.out.println("Type 3 for Multiplication");
                 System.out.println("Type 4 for Division");
      System.out.println("Enter your choice: ");
      int oprtr = inp.nextInt();
      // Type 0 for cut the connection
      if (oprtr == 0) {
        break;
      }
      // sending the operator for operation
```

```
outpStrm.writeInt(oprtr);

// reading result from server

String res = inpStrm.readUTF();

System.out.println("Your Result for the given operation = " + res);

}

// to handle exception

catch(Exception exp) {

System.out.println(exp);

}

}
```

Server Side

```
import java.io.*;
import java.net.*;
import java.util.*;
public class ServeCalc {
 public static void main(String args[]) throws IOException {
   // establishing the socket connection
   ServerSocket Serve = new ServerSocket(6666);
   Socket sock = Serve.accept();
   // to send and receive data through streams
   DataInputStream inpStrm = new DataInputStream(sock.getInputStream());
   DataOutputStream outpStrm = new DataOutputStream(sock.getOutputStream());
   try {
    while (true) {
      // reading input from client
      int oprtr = inpStrm.readInt();
      System.out.println("Client has requested for " + oprtr + " operation");
```

```
int res = 0;
   int data1 = 15;
   int data2 = 5;
   switch(oprtr) {
           case 1:
            res = data1 + data2;
      outpStrm.writeUTF(Integer.toString(res));
                   break;
           case 2:
                  res = data1 - data2;
      outpStrm.writeUTF(Integer.toString(res));
                   break;
           case 3:
                  res = data1 * data2;
      outpStrm.writeUTF(Integer.toString(res));
                   break;
           case 4:
                  res = data1 / data2;
      outpStrm.writeUTF(Integer.toString(res));
                   break;
           default:
                 outpStrm.writeUTF(" You have given invalid choice! ");
                   break;
   }
   System.out.println("Result sent to the client...");
 }
// to handle exception
catch(Exception exp) {
 System.out.println(exp);
```

}

}

}
}