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```
01 // TCPClient.java
02 // A client program implementing TCP socket
03 import java.net.*;
04 import java.io.*;
05
06 public class TCPClient {
07     public static void main (String args[])
08     { // arguments supply message and hostname of destination
09         Socket s = null;
10         try{
11             int serverPort = 6880;
12             String ip = "localhost";
13             String data = "Hello, How are you?";
14
15             s = new Socket(ip, serverPort);
16             DataInputStream input = new DataInputStream( s.getInputStream());
17             DataOutputStream output = new DataOutputStream( s.getOutputStream());
18
19             //Step 1 send length
20             System.out.println("Length"+ data.length());
21             output.writeInt(data.length());
22             //Step 2 send length
23             System.out.println("Writing.....");
24             output.writeBytes(data); // UTF is a string encoding
25
26             //Step 1 read length
27             int nb = input.readInt();
28             byte[] digit = new byte[nb];
29             //Step 2 read byte
30             for(int i = 0; i < nb; i++)
31                 digit[i] = input.readByte();
32
33             String st = new String(digit);
34             System.out.println("Received: "+ st);
35         }
36         catch (UnknownHostException e){
37             System.out.println("Sock:"+e.getMessage());}
38         catch (EOFException e){
39             System.out.println("EOF:"+e.getMessage()); }
40         catch (IOException e){
41             System.out.println("IO:"+e.getMessage());}
```

```
42     finally {  
43         if(s!=null)  
44             try {s.close();  
45                 }  
46             catch (IOException e) {/*close failed*/}  
47     }  
48 }  
49 }
```