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```

```
Client:
```

```
package src.homework1;
// SimpleClient.java: A simple client program.
import java.net.*;
import java.io.*;
import java.util.Scanner;
public class SimpleClient -
   public static void main(String args[]) throws
IOException {
        // Open your connection to a server, at port 32000
        // change the host to the IP of the machine you
want to connect with
        Socket s1 = new Socket("127.0.0.1", 32000);
        OutputStream slout = s1.getOutputStream();
        DataOutputStream dos = new DataOutputStream
(slout);
        // Send a string!
        Scanner input = new Scanner(System.in);
        System.out.println("Enter text: This is my text to
be changed by the SERVER <enter>");
        String inputStr = input.nextLine();
        // truncate length of characters over 80
```

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        if(inputStr.length() > 80){
            inputStr = inputStr.substring(0,
Math.min(inputStr.length(), 80));
        dos.writeUTF(inputStr)
        // Get an input file handle from the socket and
read the input
        InputStream s1In = s1.getInputStream();
        DataInputStream dis = new DataInputStream(s1In)
        String st = dis.readUTF();
        System.out.println("Response from server: " + st)
        // When done, just close the connection and exit
        dis.close();
        slin.close();
        dos.close();
        slout.close();
```

s1.close();

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```
Server:
package src.homework1;
// SimpleServer.java: A simple server program.
import java.net.*;
import java.io.*;
public class SimpleServer
    public static void main(String args[]) throws
IOException {
        // Register service on port 32000
        ServerSocket s = new ServerSocket(32000);
        Socket s1 = s.accept(); // Wait and accept a
connection
        // get input from client
        InputStream s1In = s1.getInputStream();
        DataInputStream dis = new DataInputStream(s1In);
        String st = dis.readUTF();
        // reverse the order and case
        StringBuilder result = new StringBuilder()
        for(char ch: st.toCharArray()){
```

if(Character.isLowerCase(ch))

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```
// Get a communication stream associated with the
socket

OutputStream slout = s1.getOutputStream();

DataOutputStream dos = new DataOutputStream
(slout);

// Send a string
dos.writeUTF(resultStr);
```

```
// Close the connection, but not the server socket
dis.close();
slIn.close();
dos.close();
slout.close();
sl.close();
}
```

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