Client-Server Communication Assignment

Your task is to modify your Java application from Lab 9.

The objective is the same, the desired output is the same. See the image below for reference.

However, this time, we will use symmetric encryption.

The first task is to generate a shared secret key on the server side. Once the connection has been established, the server will send the secret key over to the client.

Then, all communication between the two sides will proceed identically to Lab 9. However, any time a piece of data is sent, it should be encrypted with the secret key, and decrypted on the other side.