

# Client

```
import java.rmi.registry.*;
import java.util.*;

public class client {
    public static void main(String[] args) {

        String cUser;
        String cPassword;

        try {
            Registry registry =
LocateRegistry.getRegistry("localhost");
            login stub = (login) registry.lookup("login");
            Scanner input = new Scanner(System.in);
            while (true) {
                System.out.println("Enter the Client message");
                String message = input.nextLine();
                stub.sendMessage(message);
                message = stub.getMessage();
                System.out.println(message);

                System.out.println("Enter username : ");
                cUser = input.nextLine();
                System.out.println("Enter password : ");
                cPassword = input.nextLine();
                stub.verifyLogin(cUser,cPassword);
                if (stub.verifyLogin(cUser,cPassword) == 1)
                {
                    System.out.println("Enter new username : ");
                    cUser = input.nextLine();
                    System.out.println("Enter new password : ");
                    cPassword = input.nextLine();
                    stub.modifyLogin(cUser,cPassword);

                    System.out.println(stub.getPassword());
                }
                else {
                    System.out.println("Wrong. Try again");
                }
            }
        }
    }
}
```

```

    }
    catch (Exception e) {
        System.out.println(e);
    }
}
}

```

## Server

```

import java.rmi.RemoteException;
import java.rmi.server.UnicastRemoteObject;
import java.rmi.registry.LocateRegistry;
import java.rmi.registry.Registry;
import java.util.*;

public class server implements login {

    public String username = "RMI";
    public String password = "DIT";

    public void sendMessage(String s) throws RemoteException {
        System.out.println("Client says " + s);
    }

    public String getMessage() throws RemoteException {
        Scanner input = new Scanner(System.in);
        System.out.println("Enter the Server message : ");
        return input.nextLine();
    }

    public int verifyLogin(String username1, String password1) {
        if (Objects.equals(username1, username) &&
Objects.equals(password1, password)) {
            return 1;
        }
        else {
            return 0;
        }
    }

    public void modifyLogin(String username2, String password2) {

```

```

        Scanner input = new Scanner(System.in);
        System.out.println("Enter the new username : ");
        username = input.nextLine();
        input.close();

        Scanner input2 = new Scanner(System.in);
        System.out.println("Enter the new password : ");
        password = input2.nextLine();
        input2.close();

        System.out.println("Details successfully changed!");
    }

    public String getPassword() {
        System.out.println("Current password is " + password);
        return null;
    }

    public static void main(String[] args) {
        try {
            server obj = new server();
            login stub = (login)
UnicastRemoteObject.exportObject(obj, 0);
            Registry registry = LocateRegistry.getRegistry();
            registry.bind("login", stub);
            System.out.println("Server is Running");
        }
        catch (Exception e) {
            System.out.println(e);
        }
    }
}

```

## Login

```

import java.rmi.*;
public interface login extends Remote {
    void sendMessage(String text) throws RemoteException;
    String getMessage() throws RemoteException;
    int verifyLogin(String username, String password) throws
RemoteException;
}

```

```
void modifyLogin(String username, String password) throws  
RemoteException;  
String getPassword() throws RemoteException;  
}
```

## Output

Even when trying to run the code provided for us, I would still get same error which I was unable to fix. It is some issue when using LocateRegistry and setting IP address to connect to.

```
java.rmi.ConnectException: Connection refused to host: 192.168.56.1; nested exception is:  
java.net.ConnectException: Connection refused: connect
```