Name: Sakshi Sayankar

Roll No.: 67

**Client.java:**

import java.rmi.Naming;

import java.rmi.RemoteException;

import java.rmi.registry.LocateRegistry;

import java.rmi.registry.Registry;

import java.util.Scanner;

public class Client implements Runnable {

private Service service;

public Client(Service service) {

this.service = service;

}

public void run() {

Scanner scanner = new Scanner(System.in);

while (true) {

System.out.print("Enter message: ");

String message = scanner.nextLine();

try {

service.receiveMessage(message);

} catch (RemoteException e) {

System.out.println("Client exception: " + e.toString());

e.printStackTrace();

}

}

}

public static void main(String[] args) {

try {

Registry registry = LocateRegistry.getRegistry(1099);

Service service = (Service) Naming.lookup("rmi://localhost/Service");

Client client = new Client(service);

Thread thread = new Thread(client);

thread.start();

} catch (Exception e) {

System.out.println("Client exception: " + e.toString());

e.printStackTrace();

}

}

}

**Server.java:**

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import java.rmi.Naming;

import java.rmi.RemoteException;

import java.rmi.registry.LocateRegistry;

import java.rmi.registry.Registry;

import java.rmi.server.UnicastRemoteObject;

import java.util.ArrayList;

public class Server implements Service {

private ArrayList<String> messages = new ArrayList<>();

public Server() throws RemoteException {

UnicastRemoteObject.exportObject(this, 0);

}

public void receiveMessage(String message) throws RemoteException {

System.out.println("Received message: " + message);

messages.add(message);

}

public static void main(String[] args) {

try {

Server server = new Server();

Registry registry = LocateRegistry.createRegistry(1099);

Naming.rebind("rmi://localhost/Service", server);

System.out.println("Server ready");

} catch (Exception e) {

System.out.println("Server exception: " + e.toString());

e.printStackTrace();

}

}

}

interface Service extends java.rmi.Remote {

void receiveMessage(String message) throws RemoteException;

}Bottom of Form



