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// File: ConcatenatorImpl.java

import java.rmi.server.UnicastRemoteObject;
import java.rmi.RemoteException;

// Implementation of the interface
public class ConcatenatorImpl extends UnicastRemoteObject implements Concatenator {

    protected ConcatenatorImpl() throws RemoteException {
        super();
    }

    @Override
    public String concatenate(String a, String b) throws RemoteException {
        return a + b;
    }
}
```

```
// File: Concatenator.java

import java.rmi.Remote;
import java.rmi.RemoteException;

// Remote interface
public interface Concatenator extends Remote {
    String concatenate(String a, String b) throws RemoteException;
}
```

```
// File: Server.java

import java.rmi.Naming;
import java.rmi.registry.LocateRegistry;

public class Server {
    public static void main(String[] args) {
        try {
            // Start the RMI registry
            LocateRegistry.createRegistry(1099);

            // Create and bind the remote object
            ConcatenatorImpl obj = new ConcatenatorImpl();
            Naming.rebind("Concatenator", obj);

            System.out.println("Server is ready. RMI Object bound as
'Concatenator'.");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

```
// File: Client.java

import java.rmi.Naming;
import java.util.Scanner;

public class Client {
    public static void main(String[] args) {
        try {
            Scanner scanner = new Scanner(System.in);

            // Lookup the remote object
            System.out.print("Enter the RMI URL (e.g., rmi://localhost/Concatenator):");
            ");

            String url = scanner.nextLine();
            Concatenator concat = (Concatenator) Naming.lookup(url);

            System.out.print("Enter first string: ");
            String s1 = scanner.nextLine();

            System.out.print("Enter second string: ");
            String s2 = scanner.nextLine();

            String result = concat.concatenate(s1, s2);
            System.out.println("Concatenated string: " + result);

        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```