

```
/*
```

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Batch : B4

```
*/
```

```
// Aim : Program for distributed application using RMI
```

### **Server.java**

```
import java.sql.*;
```

```
// import java.sql.Connection;
```

```
import java.rmi.*;
```

```
import java.rmi.Naming.*;
```

```
import java.rmi.server.*;
```

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

```
import java.util.Vector;
```

```
interface DBInterface extends Remote {
```

```
    public String input(String name1, String name2) throws RemoteException;
}
```

```
public class Server extends UnicastRemoteObject implements DBInterface {
```

```
    int flag = 0, n, i, j;
```

```
    String name3;
```

```
    ResultSet r;
```

```
    public Server() throws RemoteException {
```

```
        try {
```

```
            System.out.println("Initializing Server\nServer Ready");
```

```
        }
```

```
        catch (Exception e) {
```

```
            System.out.println("ERROR: " + e.getMessage());
```

```
        }
```

```
    }
```

```
    public static void main(String[] args) {
```

```
        try {
```

```
            Server rs = new Server();
```

```

java.rmi.registry.LocateRegistry.createRegistry(1030).rebind(
    "DBServ", rs);
}
catch (Exception e) {
    System.out.println("ERROR: " + e.getMessage());
}
}
public String input(String name1, String name2){
    try {
        name3 = name1.concat(name2);
    }
    catch (Exception e) {
        System.out.println("ERROR: " + e.getMessage());
    }
    return name3;
}
}

```

### **Client.java**

```

import java.sql.*;
import java.rmi.*;
import java.io.*;
import java.util.*;
import java.util.Vector.*;
import java.lang.*;
import java.rmi.registry.*;

public class Client {
    static String name1, name2, name3;

    public static void main(String args[]) {
        Client c = new Client();
        BufferedReader b = new BufferedReader(new InputStreamReader(System.in));
        int ch;
        try {
            Registry r1 = LocateRegistry.getRegistry("localhost", 1030);
            DBInterface DI = (DBInterface) r1.lookup("DBServ");

```

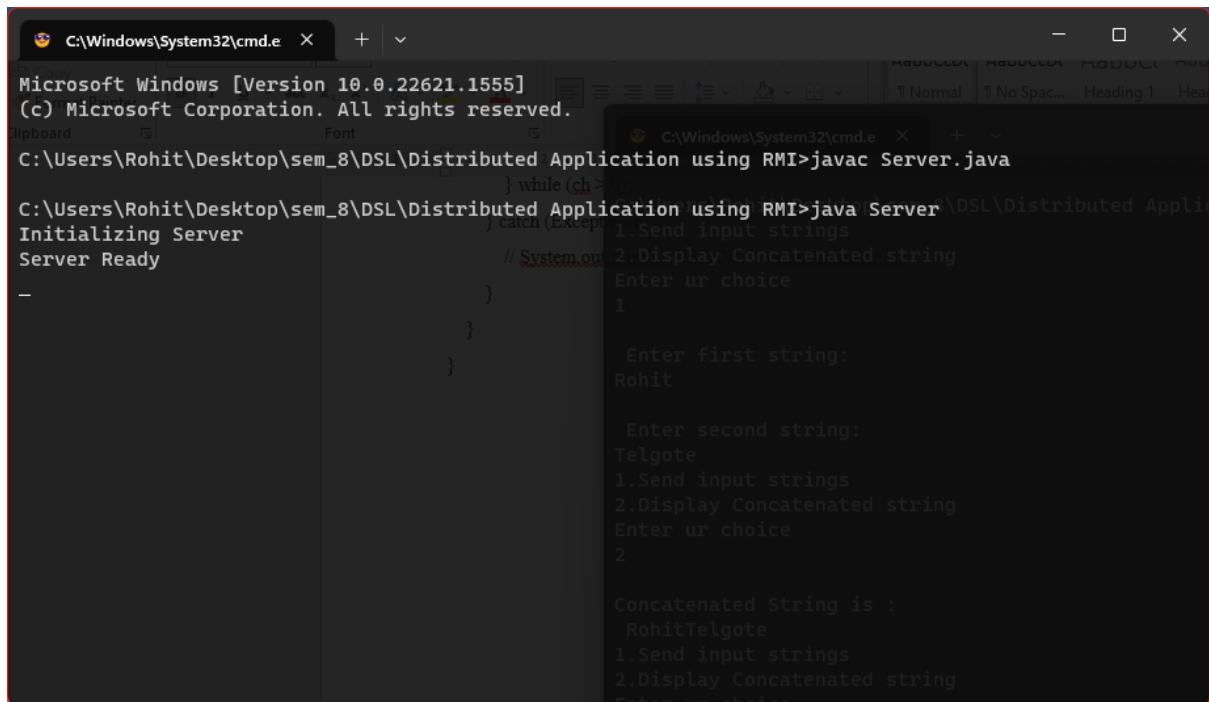
```

do {
    System.out.println("1.Send input strings\n2.Display Concatenated string\nEnter ur choice");
    ch = Integer.parseInt(b.readLine());
    switch (ch) {
        case 1:
            System.out.println(" \n Enter first string:");
            name1 = b.readLine();
            System.out.println(" \n Enter second string:");
            name2 = b.readLine();
            name3 = DI.input(name1, name2);
            break;
        case 2:
            // display
            System.out.println("\nConcatenated String is : ");
            int i = 0;
            System.out.println(" " + name3 + "");
            break;
    }
} while (ch > 0);
} catch (Exception e) {
    // System.out.println("ERROR: " + e.getMessage());
}
}
}

```

Output :

Server.java



```
Microsoft Windows [Version 10.0.22621.1555]
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C:\Users\Rohit\Desktop\sem_8\DSL\Distributed Application using RMI>javac Server.java

C:\Users\Rohit\Desktop\sem_8\DSL\Distributed Application using RMI>java Server
Initializing Server
Server Ready

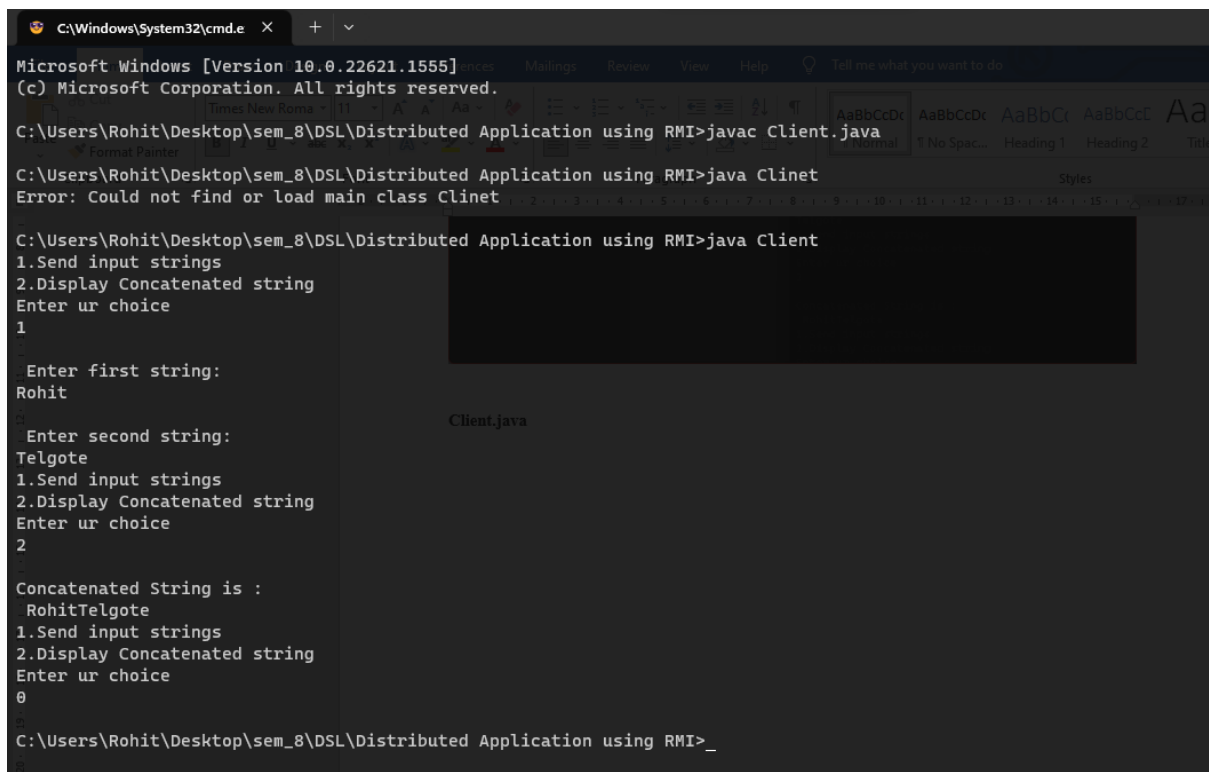
1.Send input strings
2.Display Concatenated string
Enter ur choice
1

Enter first string:
Rohit

Enter second string:
Telgote
1.Send input strings
2.Display Concatenated string
Enter ur choice
2

Concatenated String is :
RohitTelgote
1.Send input strings
2.Display Concatenated string
Enter ur choice
```

Client.java



```
Microsoft Windows [Version 10.0.22621.1555]
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C:\Users\Rohit\Desktop\sem_8\DSL\Distributed Application using RMI>javac Client.java

C:\Users\Rohit\Desktop\sem_8\DSL\Distributed Application using RMI>java Client
Error: Could not find or load main class Client

C:\Users\Rohit\Desktop\sem_8\DSL\Distributed Application using RMI>java Client
1.Send input strings
2.Display Concatenated string
Enter ur choice
1

Enter first string:
Rohit

Enter second string:
Telgote
1.Send input strings
2.Display Concatenated string
Enter ur choice
2

Concatenated String is :
RohitTelgote
1.Send input strings
2.Display Concatenated string
Enter ur choice
0

C:\Users\Rohit\Desktop\sem_8\DSL\Distributed Application using RMI>_
```