

Client.java

```
Client.java x
2  import java.util.Scanner;
3
4  public class Client {
5      public static void main(String args[]) {
6          try {
7              Scanner s = new Scanner(System.in);
8              System.out.println("Enter the Server address : ");
9              String server = s.nextLine();
10             ServerInterface si = (ServerInterface) Naming.lookup("rmi://" + server + "/Server");
11             System.out.println("Enter first string : ");
12             String first = s.nextLine();
13             System.out.println("Enter second string : ");
14             String second = s.nextLine();
15             System.out.println("Concatenated String : " + si.concat(first, second));
16             s.close();
17         } catch (Exception e) {
18             System.out.println(e);
19         }
20     }
21 }
```

Server.java

```
Client.java x Server.java x
1  import java.rmi.*;
2  import java.net.*;
3
4  public class Server {
5      public static void main(String[] args) {
6          try {
7              Servant s = new Servant();
8              Naming.rebind("Server", s);
9          } catch (Exception e) {
10             System.out.println(e);
11         }
12     }
13 }
```

ServerInterface.java

```
Client.java x Server.java x ServerInterface.java x
1  import java.rmi.*;
2
3  public interface ServerInterface extends Remote {
4      String concat(String a, String b) throws RemoteException;
5  }
```

Servant.java

```
Client.java x Server.java x ServerInterface.java x Servant.java x
1 import java.rmi.RemoteException;
2 import java.rmi.server.UnicastRemoteObject;
3 import java.rmi.*;
4 import java.rmi.server.*;
5
6 public class Servant extends UnicastRemoteObject implements ServerInterface {
7     protected Servant() throws RemoteException {
8         super();
9     }
10
11     @Override
12     public String concat(String a, String b) throws RemoteException {
13         return a + b;
14     }
15 }
```

Output

```
Administrator: Command Prompt - java Server
Microsoft Windows [Version 10.0.26100.3476]
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C:\Windows\System32>cd
C:\Windows\System32>cd C:\Users\payal\Downloads\DS_Lab\DS1
C:\Users\payal\Downloads\DS_Lab\DS1>javac *.java
C:\Users\payal\Downloads\DS_Lab\DS1>java Client
C:\Users\payal\Downloads\DS_Lab\DS1>javac *.java
C:\Users\payal\Downloads\DS_Lab\DS1>start rmiregistry
C:\Users\payal\Downloads\DS_Lab\DS1>java Server

Administrator: Command Prompt
Microsoft Windows [Version 10.0.26100.3476]
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C:\Windows\System32>java Client
Error: Could not find or load main class Client
Caused by: java.lang.ClassNotFoundException: Client

C:\Windows\System32>cd C:\Users\payal\Downloads\DS_Lab\DS1
C:\Users\payal\Downloads\DS_Lab\DS1>java Client
Enter the Server address :
localhost
Enter first string :
Krishna
Enter second string :
Pensalwar
Concatenated String : KrishnaPensalwar
C:\Users\payal\Downloads\DS_Lab\DS1>

C:\Program Files\Microsoft\jdk-17.0.147-hotspot\bin\rmiregistry.exe
WARNING: A terminally deprecated method in java.lang.System has been called
WARNING: System::setSecurityManager has been called by sun.rmi.registry.RegistryImpl
WARNING: Please consider reporting this to the maintainers of sun.rmi.registry.RegistryImpl
WARNING: System::setSecurityManager will be removed in a future release
```