

Implementation of Remote Method Invocation in Java:**Code:****Interface Class:**

```
import java.rmi.*;

public interface RemoteClassInterface extends Remote {
    public void remoteClassMethod(String data) throws RemoteException;
}
```

Server Side:

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

public class ServerSide {
    public static void main(String args[]) {
        try {
            RemoteClassInterface rc = new RemoteClass();

            LocateRegistry.createRegistry(8080);

            Naming.rebind("rmi://localhost:8080/lab", rc);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}

class RemoteClass extends UnicastRemoteObject implements RemoteClassInterface {
    RemoteClass() throws RemoteException {
        super();
    }

    public void remoteClassMethod(String data) {
        System.out.println("Inside the remote mehtod.");
        System.out.println("The data received is "+data);
    }
}
```

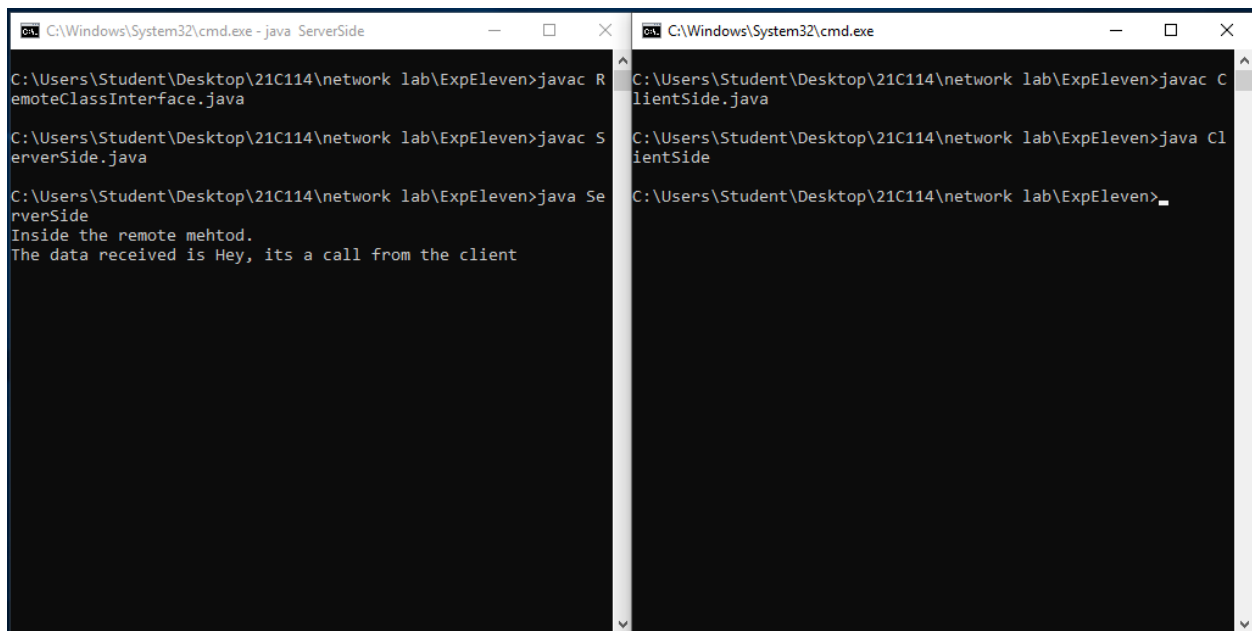
Client Side:

```
import java.rmi.*;

public class ClientSide {
    public static void main(String args[]) {
        String dataFromClient = "Hey, its a call from the client";

        try {
            RemoteClassInterface rc =
(RemoteClassInterface)Naming.lookup("rmi://localhost:8080/lab");

            rc.remoteClassMethod(dataFromClient);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

Output:

```
C:\Windows\System32\cmd.exe - java ServerSide
C:\Users\Student\Desktop\21C114\network lab\ExpEleven>javac R
emoteClassInterface.java
C:\Users\Student\Desktop\21C114\network lab\ExpEleven>javac S
erverSide.java
C:\Users\Student\Desktop\21C114\network lab\ExpEleven>java Se
rverSide
Inside the remote mehtod.
The data received is Hey, its a call from the client

C:\Windows\System32\cmd.exe
C:\Users\Student\Desktop\21C114\network lab\ExpEleven>javac C
lientSide.java
C:\Users\Student\Desktop\21C114\network lab\ExpEleven>java Cl
ientSide
C:\Users\Student\Desktop\21C114\network lab\ExpEleven>
```