**Practical 5**

**RMI**

***Code:***

*Hello.java:-*

import java.rmi.Remote;

import java.rmi.RemoteException;

public interface Hello extends Remote{

String sayHello() throws RemoteException;

}

*HelloImpl.java:*

import java.rmi.server.UnicastRemoteObject;

import java.rmi.RemoteException;

public class HelloImpl extends UnicastRemoteObject implements Hello{

protected HelloImpl() throws RemoteException{

super();

}

@Override

public String sayHello() throws RemoteException{

return "Hello, RM! World!";

}

}

*Server.java:*

import java.rmi.registry.LocateRegistry;

import java.rmi.registry.Registry;

public class Server

{

public static void main(String[] args){

try{

HelloImpl obj= new HelloImpl();

//Create registryon port 1099

Registry registry=LocateRegistry.createRegistry(1099);

//Bind the remote object in registry

registry.rebind("HelloService",obj);

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

}

catch(Exception e){

System.err.println("Server Exception"+e.toString());

e.printStackTrace();

}

}

}

*Client.java:*

import java.rmi.registry.LocateRegistry;

import java.rmi.registry.Registry;

public class Client{

public static void main(String[] args){

try{

Registry registry=LocateRegistry.getRegistry("localhost",1099);

Hello stub=(Hello)registry.lookup("HelloService");

String response=stub.sayHello();

System.out.println("Response:"+response);

}

catch(Exception e){

System.err.println("Client Exception"+e.toString());

e.printStackTrace();

}

}

}

***Output:***

