**[ 2CEIT603: CLOUD COMPUTING]**

Practical: 2



**AIM-Implement Remote Method Invocation in JAVA.**

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**SampleServerImpl.java**

import java.rmi.\*;

import java.rmi.server.\*;

import java.rmi.registry.\*;

public class SampleServerImpl extends UnicastRemoteObject

implements SampleServer

{

SampleServerImpl() throws RemoteException

{

super();

}

/\* SampleServerImpl.java \*/

public static void main(String args[])

{

try

{

// System.setSecurityManager(new RMISecurityManager());

//set the security manager

//create a local instance of the object

SampleServerImpl Server = new SampleServerImpl();

//put the local instance in the registry

Naming.rebind("SAMPLE-SERVER" , Server);

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

}

catch (java.net.MalformedURLException me) {

System.out.println("Malformed URL: " + me.toString()); }

catch (RemoteException re) {

System.out.println("Remote exception: " + re.toString()); }

}

public int sum(int a,int b) throws RemoteException

{

return a + b;

}

}

**SampleClient.java**

import java.rmi.\*;

import java.rmi.server.\*;

public class SampleClient

{

public static void main(String[] args)

{

try

{

System.out.println("Security Manager loaded");

String url = "//localhost/SAMPLE-SERVER";

SampleServer remoteObject = (SampleServer)Naming.lookup(url);

System.out.println("Got remote object");

System.out.println(" 1 + 2 = " + remoteObject.sum(1,2) );

}

catch (RemoteException exc) {

System.out.println("Error in lookup: " + exc.toString()); }

catch (java.net.MalformedURLException exc) {

System.out.println("Malformed URL: " + exc.toString()); }

catch (java.rmi.NotBoundException exc) {

System.out.println("NotBound: " + exc.toString());

}

}

}

**SampleServer.java**

import java.rmi.\*;

public interface SampleServer extends Remote

{

public int sum(int a,int b) throws RemoteException;

}

