EchoApp.idl

module EchoApp {

interface Echo {

string echoString();

};

};

EchoServer.java

import **EchoApp**.**EchoPOA**;

public class **EchoServer** extends **EchoPOA** {

@**Override**

public **String** **echoString**() {

return "Hello World!!!!!!!";

}

}

Server.java

import **EchoApp**.**Echo**;

import **EchoApp**.**EchoHelper**;

import **org**.**omg**.**CORBA**.**ORB**;

import **org**.**omg**.**CosNaming**.**NameComponent**;

import **org**.**omg**.**CosNaming**.**NamingContextExt**;

import **org**.**omg**.**CosNaming**.**NamingContextExtHelper**;

import **org**.**omg**.**PortableServer**.**POA**;

import **org**.**omg**.**PortableServer**.**POAHelper**;

public class **Server** {

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

try{

*// create and initialize the ORB*

**ORB** orb = **ORB**.**init**(args, null);

*// get reference to rootpoa & activate the POAManager*

**POA** rootpoa = **POAHelper**.**narrow**(orb.**resolve\_initial\_references**("RootPOA"));

rootpoa.**the\_POAManager**().**activate**();

*// create servant*

**EchoServer** server = new **EchoServer**();

*// get object reference from the servant*

**org**.**omg**.**CORBA**.**Object** ref = rootpoa.**servant\_to\_reference**(server);

**Echo** href = **EchoHelper**.**narrow**(ref);

**org**.**omg**.**CORBA**.**Object** objRef = orb.**resolve\_initial\_references**("NameService");

**NamingContextExt** ncRef = **NamingContextExtHelper**.**narrow**(objRef);

**NameComponent** path[] = ncRef.**to\_name**( "ECHO-SERVER" );

ncRef.**rebind**(path, href);

**System**.out.**println**("Server ready and waiting ...");

*// wait for invocations from clients*

orb.**run**();

}

catch (**Exception** e) {

**System**.err.**println**("ERROR: " + e);

e.**printStackTrace**(**System**.out);

}

**System**.out.**println**("Exiting ...");

}

}

Client.java

import **EchoApp**.**Echo**;

import **EchoApp**.**EchoHelper**;

import **org**.**omg**.**CORBA**.**ORB**;

import **org**.**omg**.**CORBA**.**ORBPackage**.**InvalidName**;

import **org**.**omg**.**CosNaming**.**NamingContextExt**;

import **org**.**omg**.**CosNaming**.**NamingContextExtHelper**;

import **org**.**omg**.**CosNaming**.**NamingContextPackage**.**CannotProceed**;

import **org**.**omg**.**CosNaming**.**NamingContextPackage**.**NotFound**;

public class **Client** {

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

try {

*// create and initialize the ORB*

**ORB** orb = **ORB**.**init**(args, null);

**org**.**omg**.**CORBA**.**Object** objRef = orb.**resolve\_initial\_references**("NameService");

**NamingContextExt** ncRef = **NamingContextExtHelper**.**narrow**(objRef);

**Echo** href = **EchoHelper**.**narrow**(ncRef.**resolve\_str**("ECHO-SERVER"));

**String** hello = href.**echoString**();

**System**.out.**println**(hello);

} catch (**InvalidName** invalidName) {

invalidName.**printStackTrace**();

} catch (**CannotProceed** cannotProceed) {

cannotProceed.**printStackTrace**();

} catch (**org**.**omg**.**CosNaming**.**NamingContextPackage**.**InvalidName** invalidName) {

invalidName.**printStackTrace**();

} catch (**NotFound** notFound) {

notFound.**printStackTrace**();

}

}

}



