CORBA

//reversemodule module ReverseModule

{

interface Reverse

{

string reverse\_string(in string str);

};

};

// ReverseImpl// Contains the implementation of the methods defined in the IDL file. import ReverseModule.ReversePOA;

import java.lang.String;

class ReverseImpl extends ReversePOA

{

ReverseImpl()

{

super();

System.out.println("Reverse Object Created");

}

public String reverse\_string(String name)

{

StringBuffer str=new StringBuffer(name); str.reverse();

return (("Server Send "+str));

}

}

# // Server

import ReverseModule.Reverse; import org.omg.CosNaming.\*;

import org.omg.CosNaming.NamingContextPackage.\*; import org.omg.CORBA.\*;

import org.omg.PortableServer.\*; class ReverseServer

{

public static void main(String[] args)

{

try

{

// initialize the ORB

org.omg.CORBA.ORB orb = org.omg.CORBA.ORB.init(args,null);

// initialize the BOA/POA

POA rootPOA = POAHelper.narrow(orb.resolve\_initial\_references("RootPOA")); rootPOA.the\_POAManager().activate();

// creating the calculator object ReverseImpl rvr = new ReverseImpl();

// get the object reference from the servant class org.omg.CORBA.Object ref = rootPOA.servant\_to\_reference(rvr);

System.out.println("Step1");

Reverse h\_ref = ReverseModule.ReverseHelper.narrow(ref); System.out.println("Step2");

org.omg.CORBA.Object objRef = orb.resolve\_initial\_references("NameService"); System.out.println("Step3");

NamingContextExt ncRef = NamingContextExtHelper.narrow(objRef);

System.out.println("Step4"); String name = "Reverse";

NameComponent path[] = ncRef.to\_name(name); ncRef.rebind(path,h\_ref);

System.out.println("Reverse Server reading and waiting ");

orb.run();

}

catch(Exception e)

{

e.printStackTrace();

}

}

}

# // Client

import ReverseModule.\*; import org.omg.CosNaming.\*;

import org.omg.CosNaming.NamingContextPackage.\*; import org.omg.CORBA.\*;

import java.io.\*;

class ReverseClient

{

public static void main(String args[])

{

Reverse ReverseImpl=null; try

{

// initialize the ORB

org.omg.CORBA.ORB orb = org.omg.CORBA.ORB.init(args,null); org.omg.CORBA.Object objRef = orb.resolve\_initial\_references("NameService"); NamingContextExt ncRef = NamingContextExtHelper.narrow(objRef);

String name = "Reverse";

ReverseImpl = ReverseHelper.narrow(ncRef.resolve\_str(name)); System.out.println("Enter String=");

BufferedReader br = new BufferedReader(new InputStreamReader(System.in)); String str= br.readLine();

String tempStr= ReverseImpl.reverse\_string(str);

System.out.println(tempStr);

}

catch(Exception e)

{

e.printStackTrace();

}

}

}

# //output

(base) itl1@itl1-OptiPlex-390:~/reverse$ ls

ReverseClient.java ReverseImpl.java ReverseModule.idl ReverseServer.java (base) itl1@itl1-OptiPlex-390:~/reverse$ idlj -fall ReverseModule.idl

ReverseModule.idl (line 5): Expected one of `in' `out' `inout'; encountered `<identifier>'. string reverse\_string(instring str); ^

(base) itl1@itl1-OptiPlex-390:~/reverse$ idlj -fall ReverseModule.idl (base) itl1@itl1-OptiPlex-390:~/reverse$ ls

ReverseClient.java ReverseModule ReverseServer.java ReverseImpl.java ReverseModule.idl

(base) itl1@itl1-OptiPlex-390:~/reverse$ javac \*.java ReverseModule/\*.java Note: ReverseModule/ReversePOA.java uses unchecked or unsafe operations. Note: Recompile with -Xlint:unchecked for details.

(base) itl1@itl1-OptiPlex-390:~/reverse$ orbd -ORBInitialPort 1050&

[1] 5657

(base) itl1@itl1-OptiPlex-390:~/reverse$ java ReverseServer -ORBInitialPort 1050 -ORBInitialHost localhost&

[2] 5691

(base) itl1@itl1-OptiPlex-390:~/reverse$ Reverse Object Created Step1

Step2 Step3 Step4

Reverse Server reading and waiting....

(base) itl1@itl1-OptiPlex-390:~/reverse$ java ReverseClient -ORBInitialPort 1050 -ORBInitialHost localhost Enter String=

Arati

Server Send itarA

(base) itl1@itl1-OptiPlex-390:~/reverse$