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**CLASS:- B.E.[I.T] Division: A Course:- 2015**

**Assignment No.3**

**COMPUTER LABORATORY-IX**

**Marks: /10**

**Date of Performance: Sign with Date:**

**Code:-**

1. REVERSE SERVER.JAVA

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

ReverseImplrvr = 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.ObjectobjRef = orb.resolve\_initial\_references("NameService");

System.out.println("Step3");

NamingContextExtncRef = NamingContextExtHelper.narrow(objRef);

System.out.println("Step4");

String name = "Reverse";

NameComponentpath[] = ncRef.to\_name(name);

ncRef.rebind(path,h\_ref);

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

orb.run();

}

catch(Exception e)

{

e.printStackTrace();

}

}

}

1. REVERSEIMPL.JAVA

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));

}

}

3)REVERSE CLIENT.JAVA

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.ObjectobjRef = orb.resolve\_initial\_references("NameService");

NamingContextExtncRef = NamingContextExtHelper.narrow(objRef);

String name = "Reverse";

ReverseImpl = ReverseHelper.narrow(ncRef.resolve\_str(name));

System.out.println("Enter String=");

BufferedReaderbr = 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:**

cketChannelImpl.java:225)

at sun.nio.ch.ServerSocketAdaptor.bind(java.base@9-internal/ServerSocket

Adaptor.java:74)

at sun.nio.ch.ServerSocketAdaptor.bind(java.base@9-internal/ServerSocket

Adaptor java:67)

at com.sun.corba.se.impl.transport.DefaultSocketFactoryImpl.createserver

Socket(java.corba@9-internal/DefaultSocketFactoryImpl.java:83)

at com.sun.corba.se.impl.transport. SocketOrChannelAcceptorImpl. Initializ

e(java.corba@9-internal/SocketOrChannelAcceptor Impl.java:161)

… 10 more

InitialPort 1050& -ORBInitialHost localhost&

[2] 5017

[3] 5018

[1] Done orbd -ORBInitialPort 1050

ideapad@ideapad-HP-Laptop-15-bs0xx:-/Desktop/CL9/IDL CORBA$ -ORBInitialHost: command not found

[1] Done orbd -ORBInitialPort 1050

Reverse Object created

Step1

Step2

Step3

Step4

Reverse Server reading and waiting....

bash: export: ‘9-internal +0-2016-04-14-195246.buildd.src’: not a valid identifier

ideapad@ideapad-HP-Laptop-15-bs0xx:-/Desktop/CL9/IDL CORBA$ java ReverseClient -ORBI initialPort 1058 -ORBInitialHost localhost

Enter String=

Hi this is string reverse using CORBA, idl and JAVA

Server Send AVAJ dnaldi , ABROC gnisuesrevergnirtssihtiM

ideapad@ideapad-MP-Laptop-15-bs0xx:-/Desktop/CL9/IDL CORBA$