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**Assignment 2**

CODE:

ReverseClient.java

// 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 object request broker

            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";

           // narrow converts generic object into string type

            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();

        }

    }

}

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));

    }

}

ReverseServer.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  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();

        }

    }

}

Reverse.idl

module ReverseModule

{

interface Reverse

{

string reverse\_string(in string str);

};};

OUTPUT:



