Assignment No.2

# Problem Statement:

Develop any distributed application using CORBA to demonstrate object brokering.

# Code:

1. **ReverseModule.idl**

module ReverseModule

{

interface Reverse

{

string reverse\_string(in string str);

};

};

# 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)

{

// 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();

}

}

}

# ReverseClient.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;

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)

{

}

# OUTPUT:

e.printStackTrace();

}

}



