

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
            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(); }
    }
}
```

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));
    }
}
```

ReverseModule.idl

```
module ReverseModule {  
interface Reverse {  
    string reverse_string(in string str);  
};  
};
```

ReverseServer.java

```
import ReverseModule.*;  
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(); }  
    }  
}
```

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LP-V Assignment 02

```
daremo@daremo: ~/Desktop/LPV/A02
daremo@daremo:~/Desktop/LPV/A02$ idlj -fall ReverseModule.idl
daremo@daremo:~/Desktop/LPV/A02$ javac *.java ReverseModule/*.java
Note: ReverseModule/ReversePOA.java uses unchecked or unsafe operations.
Note: Recompile with -Xlint:unchecked for details.
daremo@daremo:~/Desktop/LPV/A02$ orbd -ORBInitialPort 1050&
[1] 22442
daremo@daremo:~/Desktop/LPV/A02$ java ReverseServer -ORBInitialPort 1050& -ORBI
[2] 22528
-ORBI: command not found
daremo@daremo:~/Desktop/LPV/A02$ Reverse Object Created
Step1
Step2
Step3
Step4
Reverse Server reading and waiting....
```

```
daremo@daremo: ~/Desktop/LPV/A02
daremo@daremo:~/Desktop/LPV/A02$ java ReverseClient -ORBInitialPort 1050 -ORBI
org.omg.CosNaming.NamingContextPackage.NotFound: IDL:org/CosNaming/NamingContext/NotFound:1.0
    at org.omg.CosNaming.NamingContextPackage.NotFoundHelper.read(NotFoundHelper.java:72)
    at org.omg.CosNaming._NamingContextExtStub.resolve_str(_NamingContextExtStub.java:165)
    at ReverseClient.main(ReverseClient.java:40)
daremo@daremo:~/Desktop/LPV/A02$ java ReverseClient -ORBInitialPort 1050 -ORBI
Enter String=
Hi hello there
Server Send ereht olleh iH
daremo@daremo:~/Desktop/LPV/A02$
```