Reverse 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();
     }
}
```

Reverse 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();
    }
  }
```

Reverse Implementation

```
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));
     }
}
```

Output

```
C:\Windows\System32\cmd.e × + v
F:\BE\8th\DS\Practical\IDL CORBA>idlj -fall ReverseModule.idl
F:\BE\8th\DS\Practical\IDL CORBA>javac *.java
Note: .\ReverseModule\ReversePOA.java uses unchecked or unsafe operations.
Note: Recompile with -Xlint:unchecked for details.
F:\BE\8th\DS\Practical\IDL CORBA>javac *.java ReverseModule/*.java
Note: ReverseModule\ReversePOA.java uses unchecked or unsafe operations.
Note: Recompile with -Xlint:unchecked for details.
  C:\Windows\System32\cmd.e: X
Microsoft Windows [Version 10.0.22631.3447]
(c) Microsoft Corporation. All rights reserved.
F:\BE\8th\DS\Practical\IDL CORBA> java ReverseServer -ORBInitialPort 1050& -ORBInitialHost localhost&
Step1
Step2
Step3
Step4
Reverse Server reading and waiting....
  C:\Windows\System32\cmd.e: X + v
 F:\BE\8th\DS\Practical\IDL CORBA> java ReverseClient -ORBInitialPort 1050 -ORBInitialHost localhost
Enter String=
Hello I am Akshay Bhor
Server Send rohB yahskA ma I olleH
 F:\BE\8th\DS\Practical\IDL CORBA> java ReverseClient -ORBInitialPort 1050 -ORBInitialHost localhost
Enter String=
This is a Testing for CORBA
Server Send ABROC rof gnitseT a si sihT
 F:\BE\8th\DS\Practical\IDL CORBA>
```