

1) implementation

```
import ReverseModule.ReversePOA;

import java.lang.String;

import java.util.*;

import java.io.*;

import java.lang.*;

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);

    }

}
```

2)server

```
import org.omg.CosNaming.NameComponent;

import org.omg.CosNaming.NamingContextExt;

import org.omg.CosNaming.NamingContextExtHelper;

import org.omg.CosNaming.NamingContextPackage.*;

import org.omg.CORBA.*;

import org.omg.PortableServer.*;

import java.io.*;

import java.lang.*;

import java.util.*;

import ReverseModule.Reverse;
```

```

class ReverseServer {
    public static void main(String[] args) {

        try {
            org.omg.CORBA.ORB orb = org.omg.CORBA.ORB.init(args, null);
            POA rootPOA = POAHelper.narrow(orb.resolve_initial_references("RootPOA"));
            rootPOA.the_POAManager().activate();
            Reverseimpl rvr = new Reverseimpl();
            org.omg.CORBA.Object ref = rootPOA.servant_to_reference(rvr);
            System.out.println("Step 1");
            Reverse h_ref = ReverseModule.ReverseHelper.narrow(ref);
            System.out.println("Step 2");
            org.omg.CORBA.Object objRef = orb.resolve_initial_references("NameService");
            System.out.println("Step 3");
            NamingContextExt ncRef = NamingContextExtHelper.narrow(objRef);
            System.out.println("Step 4");
            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();
        }
    }
}

```

3) client

```
import ReverseModule.*;

import org.omg.CosNaming.*;

//import org.omg.NamingContextPackage.*;

import org.omg.CORBA.*;

import java.io.*;

import java.lang.*;

import java.util.*;

class ReverseClient {

    public static void main(String[] args) {

        Reverse Reverseimpl = null;

        try {

            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();

        }

    }

}
```