

code- 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 ReverselImpl = 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";
            ReverselImpl = 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 = ReverselImpl.reverse_string(str);
            System.out.println(tempStr);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

Code- ReverselImpl

```
import ReverseModule.ReversePOA;
import java.lang.String;

class ReverselImpl extends ReversePOA {
    ReverselImpl() {
        super();
        System.out.println("Reverse Object Created");
    }

    public String reverse_string(String name) {
        StringBuffer str = new StringBuffer(name);
        str.reverse();
        return ("Server Send " + str);
    }
}
```

Code - ReverseServer

```
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 POA
            POA rootPOA = POAHelper.narrow(orb.resolve_initial_references("RootPOA"));
        }
    }
}
```

```

rootPOA.the_POAManager().activate();

// Creating the Reverselmpl object
Reverselmpl rvr = new Reverselmpl();

// Get the object reference from the servant class
org.omg.CORBA.Object ref = rootPOA.servant_to_reference(rvr);
System.out.println("Step1");
Reverse href = ReverseModule.ReverseHelper.narrow(ref);
System.out.println("Step2");

// Resolve the initial references for the naming service
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();
}
}
}
}

```

Output-

```

samthube@ubuntu-22:~/Downloads/Ass 3$ idlj -fall ReverseModule.idl
samthube@ubuntu-22:~/Downloads/Ass 3$ javac*.java ReverseModule/*.java
samthube@ubuntu-22:~/Downloads/Ass 3$ ordb -ORBInitialPort 1050&
samthube@ubuntu-22:~/Downloads/Ass 3$ java ReverseServer -ORBInitialPort 1050& -ORBInitialHost localhost&
Reversr Object Created
Step 1
Step 2
Step 3
Step 4
Reverse Server reading and waiting....
samthube@ubuntu-22:~/Downloads/Ass 3$ java ReverseServer -ORBInitialPort 1050& -ORBInitialHost localhost&
Enter String=
Welcome to the home
Server send

```