

## **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;
        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));
    }
}

```

### **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();
            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)
    {

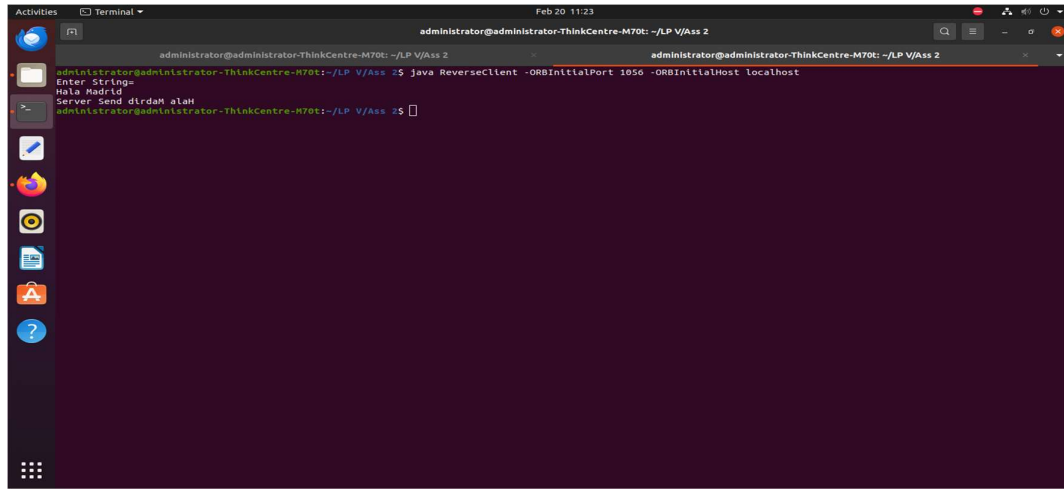
        e.printStackTrace();

    }

}
}

```

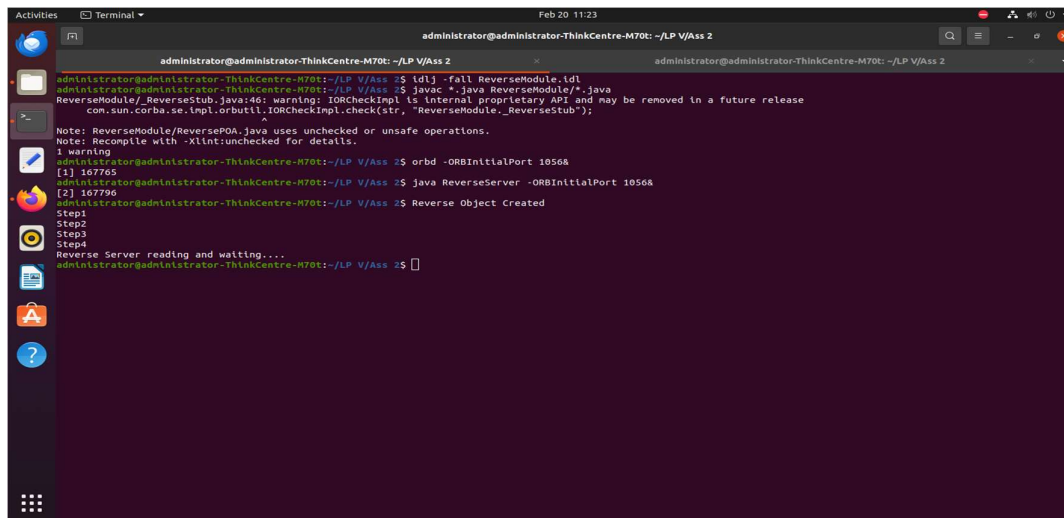
### Output (Client-Server)



```

Feb 20 11:23
administrator@administrator-ThinkCentre-M70t: ~/LP V/Ass 2
administrator@administrator-ThinkCentre-M70t: ~/LP V/Ass 2$ java ReverseClient -ORBInitialPort 1056 -ORBInitialHost localhost
Enter String:
Hala Madrid
Server Send dirdaM alaH
administrator@administrator-ThinkCentre-M70t: ~/LP V/Ass 2$

```



```

Feb 20 11:23
administrator@administrator-ThinkCentre-M70t: ~/LP V/Ass 2
administrator@administrator-ThinkCentre-M70t: ~/LP V/Ass 2$ javac *.java ReverseModule/*.java
ReverseModule/ReverseStub.java:46: warning: IORCheckImpl is internal proprietary API and may be removed in a future release
    con.sun.corba.se.impl.orbutil.IORCheckImpl.check(str, "ReverseModule/ReverseStub");
                                   ^
Note: ReverseModule/ReversePOA.java uses unchecked or unsafe operations.
Note: Recompile with -Xlint:unchecked for details.
1 warning
administrator@administrator-ThinkCentre-M70t: ~/LP V/Ass 2$ orbd -ORBInitialPort 10568
[1] 167765
administrator@administrator-ThinkCentre-M70t: ~/LP V/Ass 2$ java ReverseServer -ORBInitialPort 10568
[2] 167790
administrator@administrator-ThinkCentre-M70t: ~/LP V/Ass 2$ Reverse Object Created
Step1
Step2
Step3
Step4
Reverse Server reading and waiting....
administrator@administrator-ThinkCentre-M70t: ~/LP V/Ass 2$

```