**ReverseClient.java**

```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**

```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**

```java
import ReverseModule.*;
import org.omg.CosNaming.*;
import org.omg.CosNaming.NamingContextPackage.*;
```

```java
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();

            }

        }

    }

}
```
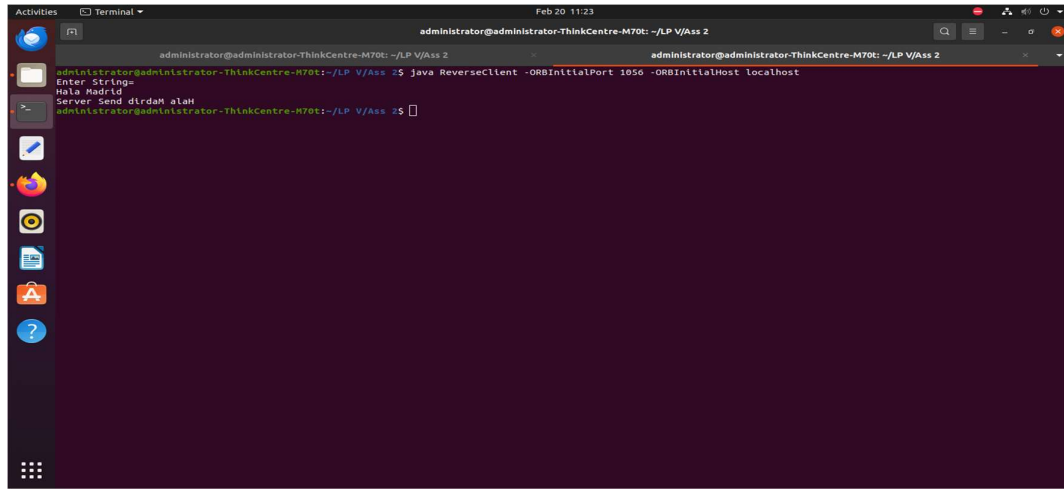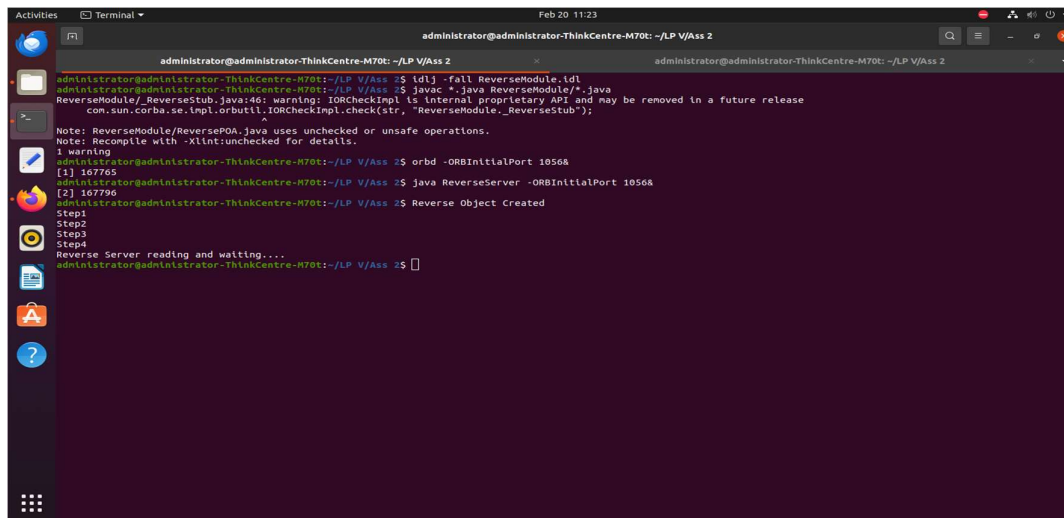
## Output (Client-Server)