// 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 object request broker 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";
         // narrow converts generic object into string type
          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);
```

// 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.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 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";
```

//ReverseModule.idl

• OUTPUT:



