## **ASSIGNMENT NO. 2**

### • Code for ReverseString:

orb.run();

```
ReverseServer.java import
ReverseModule.Reverse;
import org.omg.CosNaming.*;
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();
            // 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";
           NameComponent path[] = ncRef.to_name(name);
           ncRef.rebind(path,h ref);
            System.out.println("Reverse Server reading and waiting...");
```

```
catch (Exception e)
            e.printStackTrace();
    }
}
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));
      }
}
ReverseModule.idl
module ReverseModule
{ interface Reverse
        string reverse string(in string
```

#### • Output:

};

str); };

#### Server:

```
~/LP5/CORBA$ idlj -fall ReverseModule.idl
~/LP5/CORBA$ javac *.java ReverseModule/*.java
Note: ReverseModule/ReversePOA.java uses unchecked or unsafe
operations.
Note: Recompile with -Xlint:unchecked for details.
~/LP5/CORBA$ orbd -ORBInitialPort 1050&
[1] 2769
~/LP5/CORBA$ java ReverseServer -ORBInitialPort 1050& -ORBInitialHost
localhost& [2] 2797
[3] 2798
~/LP5/CORBA$ Reverse Object Created
Step1
Step2
Step3
```

-ORBInitialHost: command not found

Step4

Reverse Server reading and waiting....

[4]+ Exit 127

-ORBInitialHost localhost

~/LP5/CORBA\$

# **Client:**

~/LP5/CORBA\$ java ReverseClient -ORBInitialPort 1050 -ORBInitialHost localhost

Enter String=This is CORBA Program!

Server Send !margorP ABROC si sihT ~/LP5/CORBA\$