Code:

1. 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();
}
}
```

2. Reverselmpl.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));
```

```
}
```

3. ReverseModule.idl

```
module ReverseModule
{
interface Reverse
{
   string reverse_string(in string str);
};
};
```

4. ReverseServer.java

```
// 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....");
       orb.run();
catch (Exception e)
```

rootPOA.the_POAManager().activate();

}



