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Calculator.idl x J CalculatorServer.java 1 J CalculatorClient.java
Calculator.idl
1 module CalculatorApp {
2     interface Calculator {
3         double add(in double a, in double b);
4         double subtract(in double a, in double b);
5         double multiply(in double a, in double b);
6         double divide(in double a, in double b);
7     };
8 };
9
```

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Calculator.idl x J CalculatorServer.java 1 x J CalculatorClient.java
J CalculatorServer.java > CalculatorServer > main(String[])
1 import CalculatorApp.*;
2 import org.omg.CORBA.*;
3 import org.omg.CosNaming.NamingContextExt;
4 import org.omg.CosNaming.NamingContextExtHelper;
5 import org.omg.PortableServer.*;
6
7 class CalculatorImpl extends CalculatorPOA {
8     private ORB orb;
9
10    public void setORB(ORB orb) { this.orb = orb; }
11
12    @Override
13    public double add(double a, double b) { return a + b; }
14
15    @Override
16    public double subtract(double a, double b) { return a - b; }
17
18    @Override
19    public double multiply(double a, double b) { return a * b; }
20
21    @Override
22    public double divide(double a, double b) { return (b != 0) ? a / b : 0; }
23
24
25    public class CalculatorServer {
26        @SuppressWarnings("unused")
27        public static void main(String[] args) {
28            try {
29                ORB orb = ORB.init(args, props=null);
30                POA rootpoa = POAHelper.narrow(orb.resolve_initial_references(object_name:"RootPOA"));
31                rootpoa.the_POAManager().activate();
32
33                CalculatorImpl calcImpl = new CalculatorImpl();
34                calcImpl.setORB(orb);
35                org.omg.CORBA.Object ref = rootpoa.servant_to_reference(calcImpl);
36                Calculator href = CalculatorHelper.narrow(ref);
37
38                org.omg.CORBA.Object objRef = orb.resolve_initial_references(object_name:"NameService");
39                NamingContextExt ncRef = NamingContextExtHelper.narrow(objRef);
40                ncRef.rebind(ncRef.to_name("Calculator"), href);
41
42                System.out.println("Calculator Server is running...");
43                orb.run();
44            } catch (Exception e) { e.printStackTrace(); }
45        }
46    }
47}
```

```
Calculator.idl x J CalculatorServer.java 1 J CalculatorClient.java x
J CalculatorClient.java > ...
1 import CalculatorApp.*;
2 import org.omg.CORBA.*;
3 import org.omg.CosNaming.*;
4
5 public class CalculatorClient {
6     @SuppressWarnings("unused")
7     public static void main(String[] args) {
8         try {
9             ORB orb = ORB.init(args, props=null);
10            org.omg.CORBA.Object objRef = orb.resolve_initial_references(object_name:"NameService");
11            NamingContextExt ncRef = NamingContextExtHelper.narrow(objRef);
12
13            Calculator calc = CalculatorHelper.narrow(ncRef.resolve_str(sn:"Calculator"));
14
15            System.out.println("Addition: " + calc.add(a:10, b:5));
16            System.out.println("Subtraction: " + calc.subtract(a:10, b:5));
17            System.out.println("Multiplication: " + calc.multiply(a:10, b:5));
18            System.out.println("Division: " + calc.divide(a:10, b:5));
19
20        } catch (Exception e) { e.printStackTrace(); }
21    }
22}
```