



ENTERPRISE SYSTEM DEVELOPMENT (SSE4354)

LAB DOCUMENTATION: WEB SERVICE PRACTICAL

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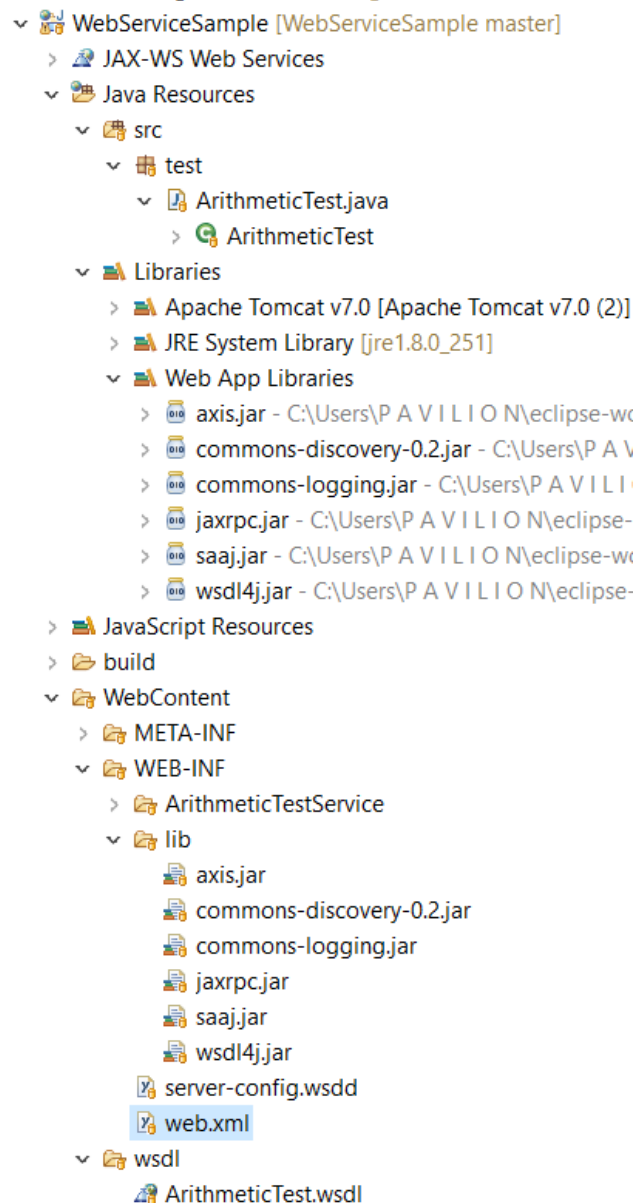
GROUP NO.: 1

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A dynamic web project, Web Service Sample is created in Eclipse with the implementation of web services that provide a standard means of interoperating between different software applications and running on a variety of platforms or frameworks.

Dynamic Web Project in Eclipse: Web Service Sample



The project is created in Eclipse with the name of WebServiceSample with a package named test and a class named ArithmeticTest.java.

Code for ArithmeticTest.java in Eclipse:

```
ArithmeticTest.java
1 package test;
2
3 public class ArithmeticTest {
4
5     public float addValues(float a, float b) {
6         return (a + b);
7     }
8
9     public float subtractValues(float a, float b) {
10        return (a - b);
11    }
12 }
13
14
```

Output:

Web Services Explorer

Navigator

- ArithmeticTestSoapBinding

Actions

WSDL Binding Details

Shown below are the details for this SOAP <binding> element. Click on an operation to fill in its parameters and invoke it or specify additional endpoints.

Operations

| Name | Documentation |
|--------------------------------|---------------|
| addValues | -- |
| subtractValues | -- |

Endpoints [Add](#) [Remove](#)

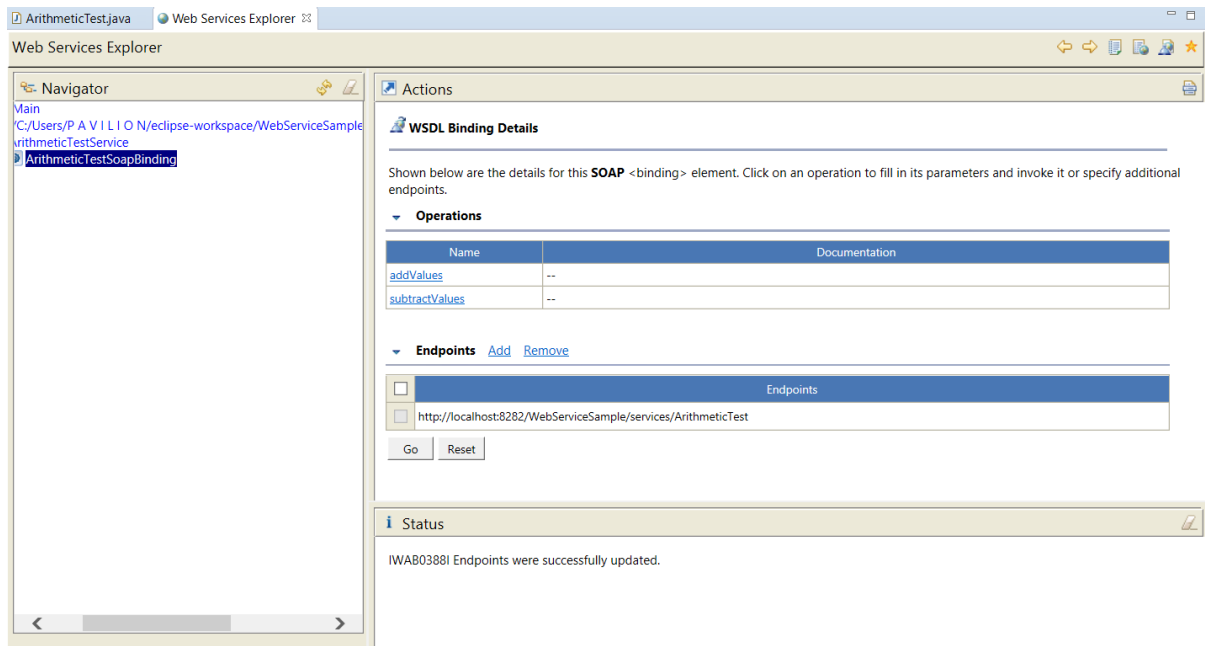
| Endpoints |
|--|
| <input checked="" type="checkbox"/> http://localhost:8282/WebServiceSample/services/ArithmeticTest |

[Go](#) [Reset](#)

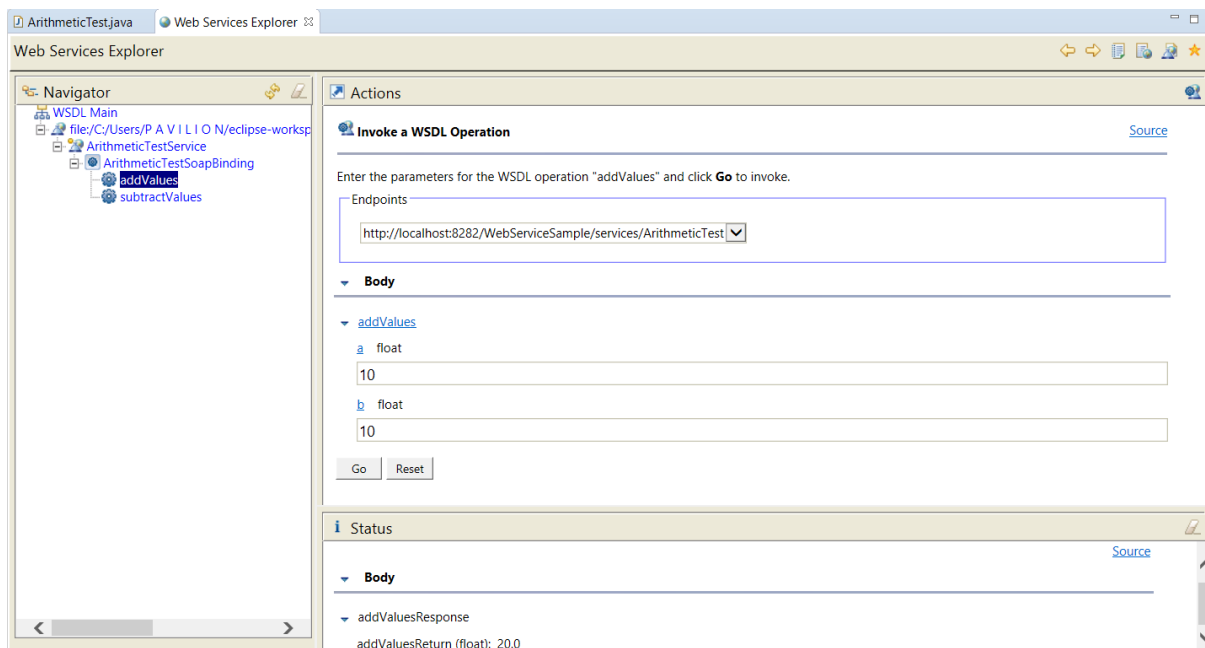
Status

IWA803811 file:/C:/Users/P A V I L I O N/eclipse-workspace/WebServiceSample/WebContent/wsdl/ArithmeticTest.wsdl was successfully opened.

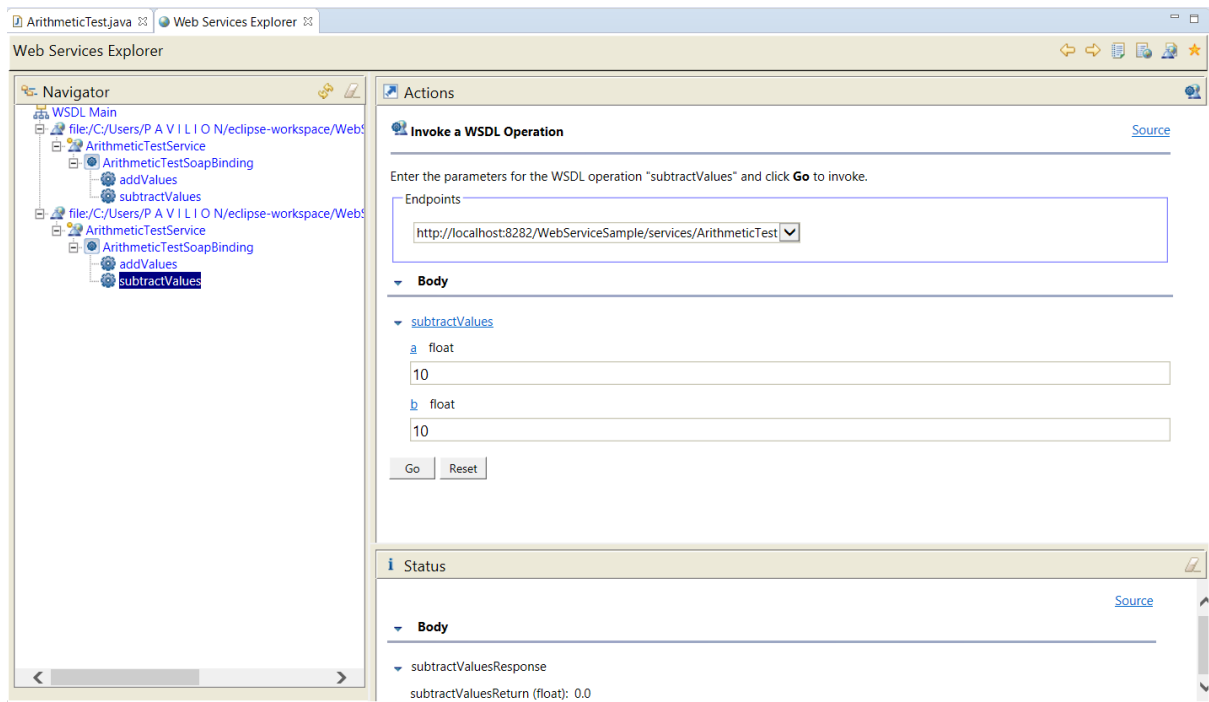
When Test with Web Services Explorer is clicked after right-clicking the ArithmeticTest.wsdl file and clicking the Web Services, a Web Services Explorer page is displayed with operations, endpoints and status.



After selecting the Endpoints check box and pressing Go button inside the page, the status of the endpoints is successfully updated.



After clicking the addValues link, a value of 10 is inserted for both parameter 'a' and 'b' respectively. When the Go button is clicked, the Status Body of the page is updated with an addValueResponse producing an addValueReturn which is the sum of parameter 'a' and 'b', 20.0.



After clicking the subtractValues link, a value of 10 is inserted for both parameter 'a' and 'b' respectively. When the Go button is clicked, the Status Body of the page is updated with a subtractValuesResponse producing a subtractValuesReturn which is the subtraction of parameter 'a' and 'b', 0.0.