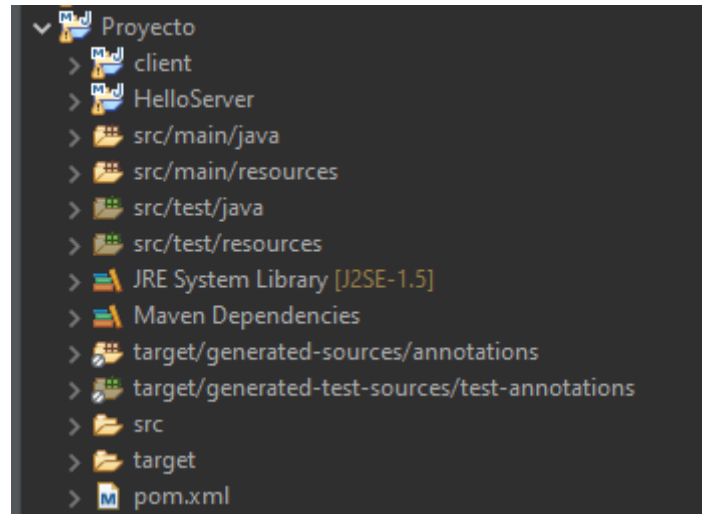


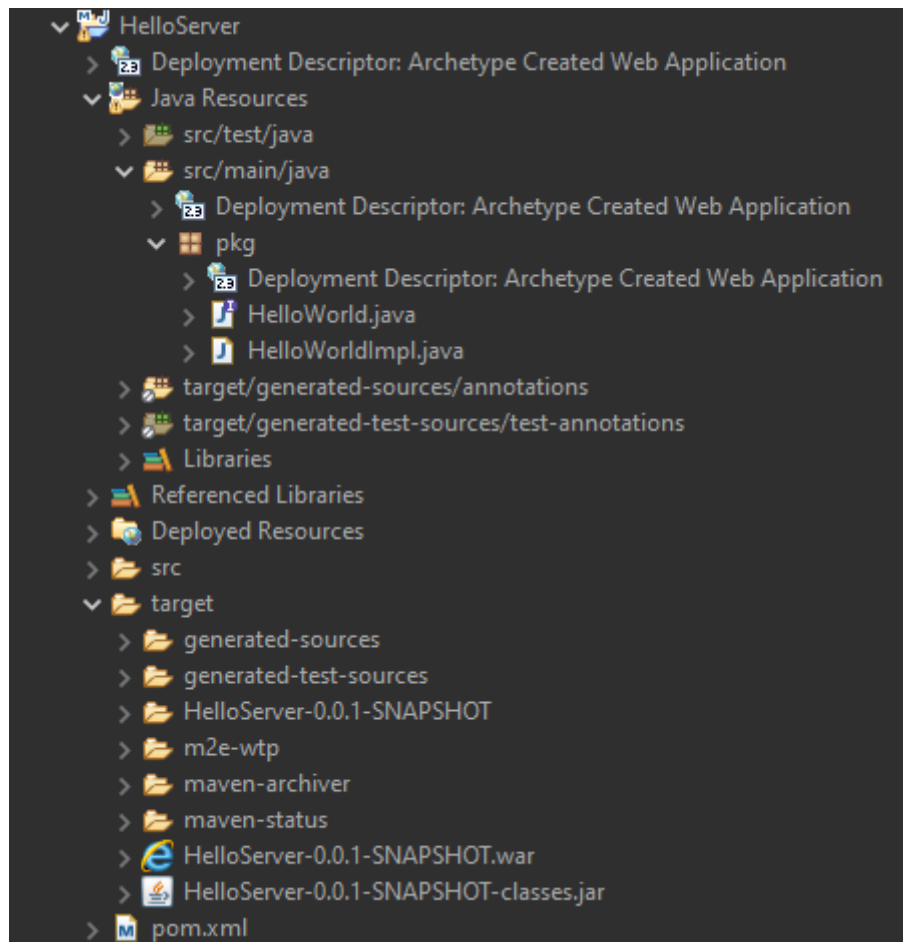
Documentación WebService Alexandru Cristea



POM PADRE

```
10 <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 https://maven.apache.org/xsd/maven-4.0.0.xsd">
11   <modelVersion>4.0.0</modelVersion>
12   <groupId>Proyecto</groupId>
13   <artifactId>Proyecto</artifactId>
14   <version>0.0.1-SNAPSHOT</version>
15   <packaging>pom</packaging>
16   <name>padre</name>
17
18   <dependencies>
19     <dependency>
20       <groupId>junit</groupId>
21       <artifactId>junit</artifactId>
22       <version>4.11</version>
23       <scope>test</scope>
24     </dependency>
25
26     <dependency>
27       <groupId>com.sun.xml.ws</groupId>
28       <artifactId>jaxws-ri</artifactId>
29       <version>2.3.3</version>
30       <type>pom</type>
31     </dependency>
32
33     <dependency>
34       <groupId>javax.servlet</groupId>
35       <artifactId>servlet-api</artifactId>
36       <version>2.5</version>
37       <scope>provided</scope>
38     </dependency>
39
40     <dependency>
41       <groupId>javax.servlet.jsp</groupId>
42       <artifactId>javax.servlet.jsp-api</artifactId>
43       <version>2.2.1</version>
44       <scope>provided</scope>
45     </dependency>
46   </dependencies>
47
48   <modules>
49     <module>HelloServer</module>
50     <module>client</module>
51   </modules>
52
53   <properties>
54     <maven.compiler.source>1.8</maven.compiler.source>
55     <maven.compiler.target>1.8</maven.compiler.target>
56   </properties>
57 </project>
```

WebService:



Servicios web

Punto Final	Información
Nombre de Servicio: {http://pkg}HelloWorldImplService	Dirección: http://localhost:8080/HelloServer-0.0.1-SNAPSHOT/HelloWorldWS
Nombre de Puerto: {http://pkg}HelloWorldImplPort	WSDL: http://localhost:8080/HelloServer-0.0.1-SNAPSHOT/HelloWorldWS?wsdl
	Clase de Implantación: pkg.HelloWorldImpl

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
<?xml version="1.0" encoding="UTF-8" standalone="no" ?>
<definitions xmlns:wsm="http://schemas.xmlsoap.org/ws/2004/08/addressing/policy" xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl" targetNamespace="http://pgm.helloWorldService">
  <types>
    <xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema" targetNamespace="http://pgm.helloWorldService">
      <import namespace="http://pgm.helloWorldService" schemaLocation="http://localhost:8080/helloWorld-4.0.1-SNAPSHOT/helloWorldService4" />
      <type>
        <message name="add">
          <part name="parameters" element="xsd:add" />
        </message>
        <message name="addResponse">
          <part name="parameters" element="xsd:addResponse" />
        </message>
        <message name="multiply">
          <part name="parameters" element="xsd:multiply" />
        </message>
        <message name="multiplyResponse">
          <part name="parameters" element="xsd:multiplyResponse" />
        </message>
        <message name="divide">
          <part name="parameters" element="xsd:divide" />
        </message>
        <message name="divideResponse">
          <part name="parameters" element="xsd:divideResponse" />
        </message>
        <message name="addNumber">
          <part name="parameters" element="xsd:addNumber" />
        </message>
        <message name="addNumberResponse">
          <part name="parameters" element="xsd:addNumberResponse" />
        </message>
      </type>
      <operation name="add">
        <input wsam:action="http://pgm.helloWorldService/add" message="xsd:add" />
        <output wsam:action="http://pgm.helloWorldService/addResponse" message="xsd:addResponse" />
      </operation>
      <operation name="multiply">
        <input wsam:action="http://pgm.helloWorldService/multiply" message="xsd:multiply" />
        <output wsam:action="http://pgm.helloWorldService/multiplyResponse" message="xsd:multiplyResponse" />
      </operation>
      <operation name="divide">
        <input wsam:action="http://pgm.helloWorldService/divide" message="xsd:divide" />
        <output wsam:action="http://pgm.helloWorldService/divideResponse" message="xsd:divideResponse" />
      </operation>
      <operation name="addNumber">
        <input wsam:action="http://pgm.helloWorldService/addNumber" message="xsd:addNumber" />
        <output wsam:action="http://pgm.helloWorldService/addNumberResponse" message="xsd:addNumberResponse" />
      </operation>
    </xsd:schema>
  </types>
  <binding name="HelloWorldBinding" type="xsd:HelloWorld">
    <soap:binding transport="http://schemas.xmlsoap.org/soap/http" style="document" />
    <operation name="add">
      <soap:operation soapAction="" />
      <input>
        <soap:body use="literal" />
      </input>
      <output>
        <soap:body use="literal" />
      </output>
    </operation>
    <operation name="multiply">
      <soap:operation soapAction="" />
      <input>
```

POM SERVICIO

```
1 <?xml version="1.0" encoding="UTF-8" standalone="no" ?>
2 <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
3   xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
4   <modelVersion>4.0.0</modelVersion>
5   <parent>
6     <groupId>a</groupId>
7     <artifactId>Proyecto</artifactId>
8     <version>0.0.1-SNAPSHOT</version>
9   </parent>
10  <artifactId>HelloServer</artifactId>
11  <packaging>war</packaging>
12
13  <dependencies>
14    <dependency>
15      <groupId>junit</groupId>
16      <artifactId>junit</artifactId>
17      <version>4.11</version>
18      <scope>test</scope>
19    </dependency>
20
21  </dependencies>
22
23  <build>
24    <plugins>
25      <plugin>
26        <groupId>org.apache.maven.plugins</groupId>
27        <artifactId>maven-war-plugin</artifactId>
28        <version>3.3.1</version>
29        <configuration>
30          <attachClasses>true</attachClasses>
31        </configuration>
32      </plugin>
33    </plugins>
34  </build>
35  <properties>
36    <maven.compiler.source>1.8</maven.compiler.source>
37    <maven.compiler.target>1.8</maven.compiler.target>
38  </properties>
39 </project>
```

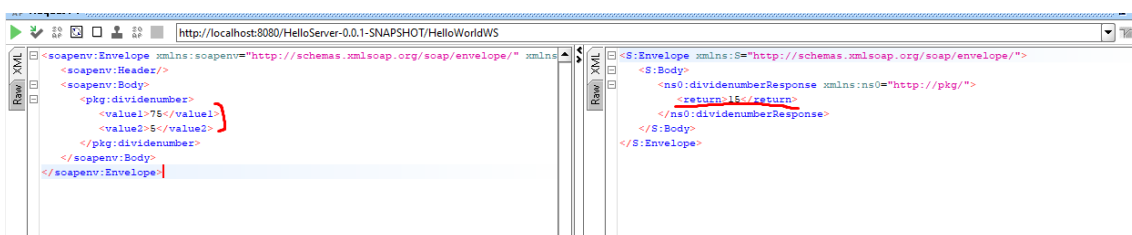
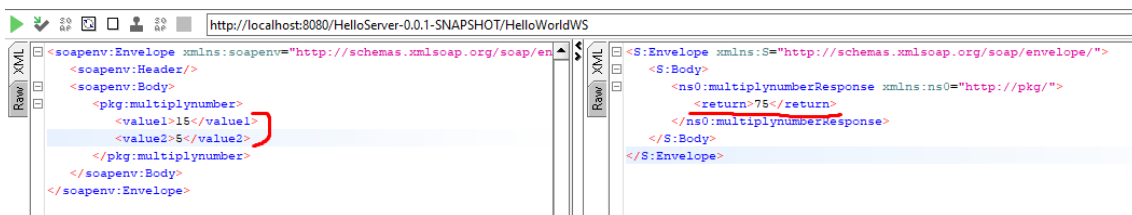
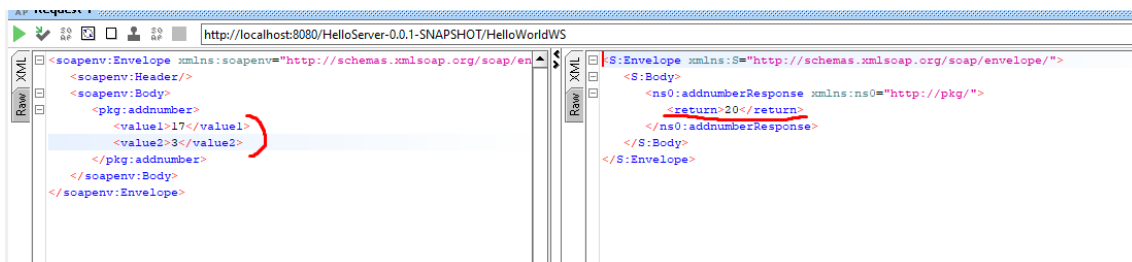
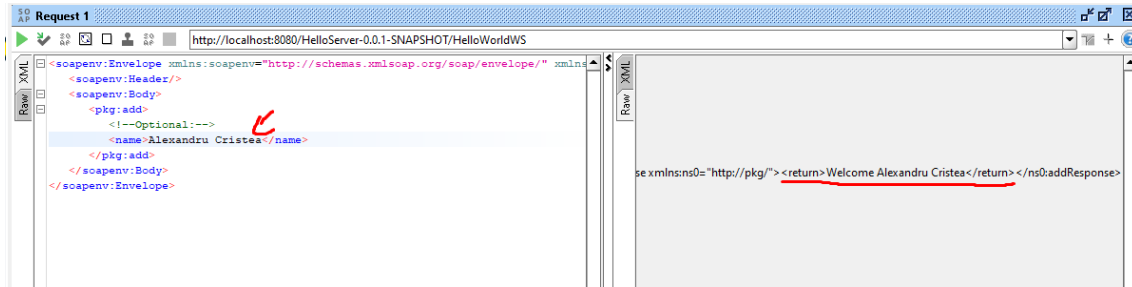
INTERFAZ SERVICIO

```
1 package pkg;
2
3 import javax.jws.WebMethod;
4
5
6
7 @WebService
8 public interface HelloWorld {
9     @WebMethod
10     public int addnumber(@WebParam(name = "value1") int value1, @WebParam(name = "value2") int value2);
11
12     @WebMethod
13     public int restnumber(@WebParam(name = "value1") int value1, @WebParam(name = "value2") int value2);
14
15     @WebMethod
16     public int multiplynumber(@WebParam(name = "value1") int value1, @WebParam(name = "value2") int value2);
17
18     @WebMethod
19     public int dividenumber(@WebParam(name = "value1") int value1, @WebParam(name = "value2") int value2);
20
21     @WebMethod
22     public String add(@WebParam(name = "name") String name);
23 }
24
25
```

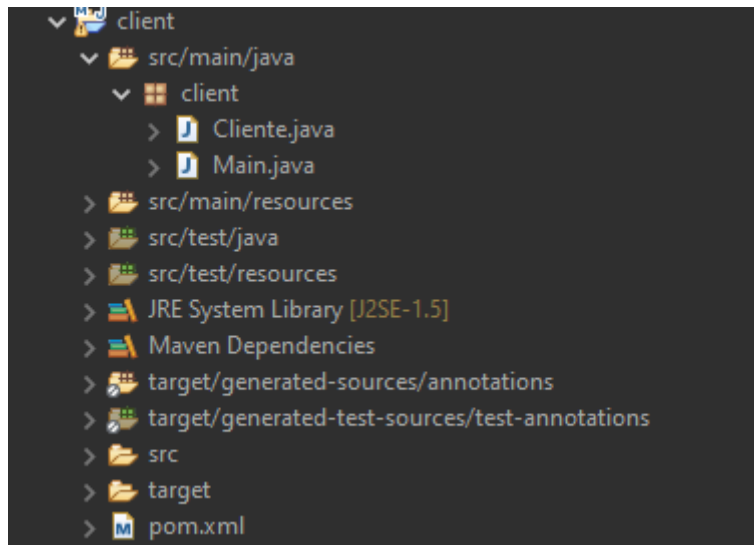
CLASE SERVICIO

```
1 package pkg;
2
3 import javax.jws.WebService;
4
5
6 @WebService(endpointInterface = "pkg.HelloWorld")
7 public class HelloWorldImpl implements HelloWorld {
8
9
10     public String add (String name) {
11         return "Welcome " + name;
12     }
13
14     public int addnumber(int value1, int value2) {
15         return value1 + value2;
16     }
17
18     public int restnumber(int value1, int value2) {
19         return value1 - value2;
20     }
21
22     public int multiplynumber(int value1, int value2) {
23         return value1 * value2;
24     }
25
26     public int dividenumber(int value1, int value2) {
27         return value1 / value2;
28     }
29
30
31 }
```

Pruebas SOAPUI:



WebClient:



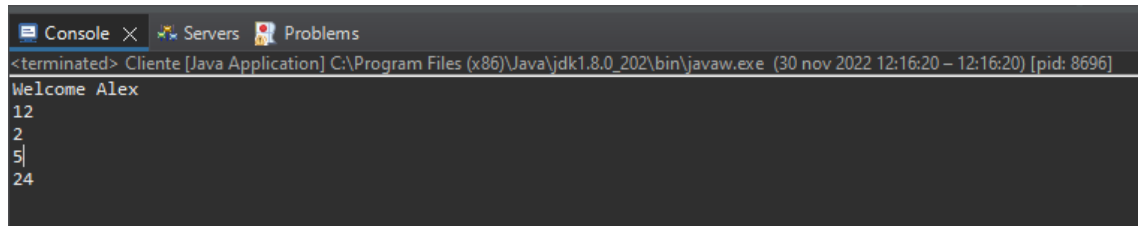
Clase Cliente

```
1 package client;
2
3 import java.net.MalformedURLException;
4 import java.net.URL;
5 import javax.xml.namespace.QName;
6 import javax.xml.ws.Service;
7 import javax.xml.ws.WebEndpoint;
8 import javax.xml.ws.WebServiceClient;
9
10 import pkg.HelloWorld;
11
12 public class Cliente {
13     public static void main(String args[]) throws MalformedURLException {
14         ExampleService servicio = new ExampleService(new URL("http://localhost:8080/HelloServer-0.0.1-SNAPSHOT/HelloWorlds?wsdl"),
15             new QName("http://pkg/", "HelloWorldImplService"));
16         HelloWorld variable = servicio.getInit();
17         System.out.println(variable.add("Alex"));
18         System.out.println(variable.addnumber(5, 7));
19         System.out.println(variable.restnumber(7, 5));
20         System.out.println(variable.dividenumber(10, 2));
21         System.out.println(variable.multiplynnumber(3, 8));
22     }
23 }
24
25 @WebServiceClient(targetNamespace="http://localhost:8080/", wsdlLocation="http://localhost:8080/HelloServer-0.0.1-SNAPSHOT/HelloWorlds?wsdl", name="HelloWorldImplService")
26 class ExampleService extends Service {
27     protected ExampleService(URL wsdlDocumentLocation, QName serviceName) {
28         super(wsdlDocumentLocation, serviceName);
29         // TODO Auto-generated constructor stub
30     }
31
32     @WebEndpoint(name = "HelloWorld")
33     public HelloWorld getInit() {
34         return super.getPort(new QName("http://pkg/", "HelloWorldImplPort"), HelloWorld.class);
35     }
36 }
37
38 }
```

POM Cliente

```
1 <?xml version="1.0" encoding="UTF-8" ?>
2 <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
3     <modelVersion>4.0.0</modelVersion>
4     <parent>
5         <groupId>org.example</groupId>
6         <artifactId>Project</artifactId>
7         <version>0.0.1-SNAPSHOT</version>
8     </parent>
9     <groupId>client</groupId>
10    <artifactId>client</artifactId>
11    <dependencies>
12        <dependency>
13            <groupId>org.example</groupId>
14            <artifactId>HelloServer</artifactId>
15            <version>0.0.1-SNAPSHOT</version>
16            <classifier>classes</classifier>
17        </dependency>
18    </dependencies>
19    </project>
```

Pruebas



```
Console X Servers Problems
<terminated> Cliente [Java Application] C:\Program Files (x86)\Java\jdk1.8.0_202\bin\javaw.exe (30 nov 2022 12:16:20 - 12:16:20) [pid: 8696]
Welcome Alex
12
2
5|
24
```