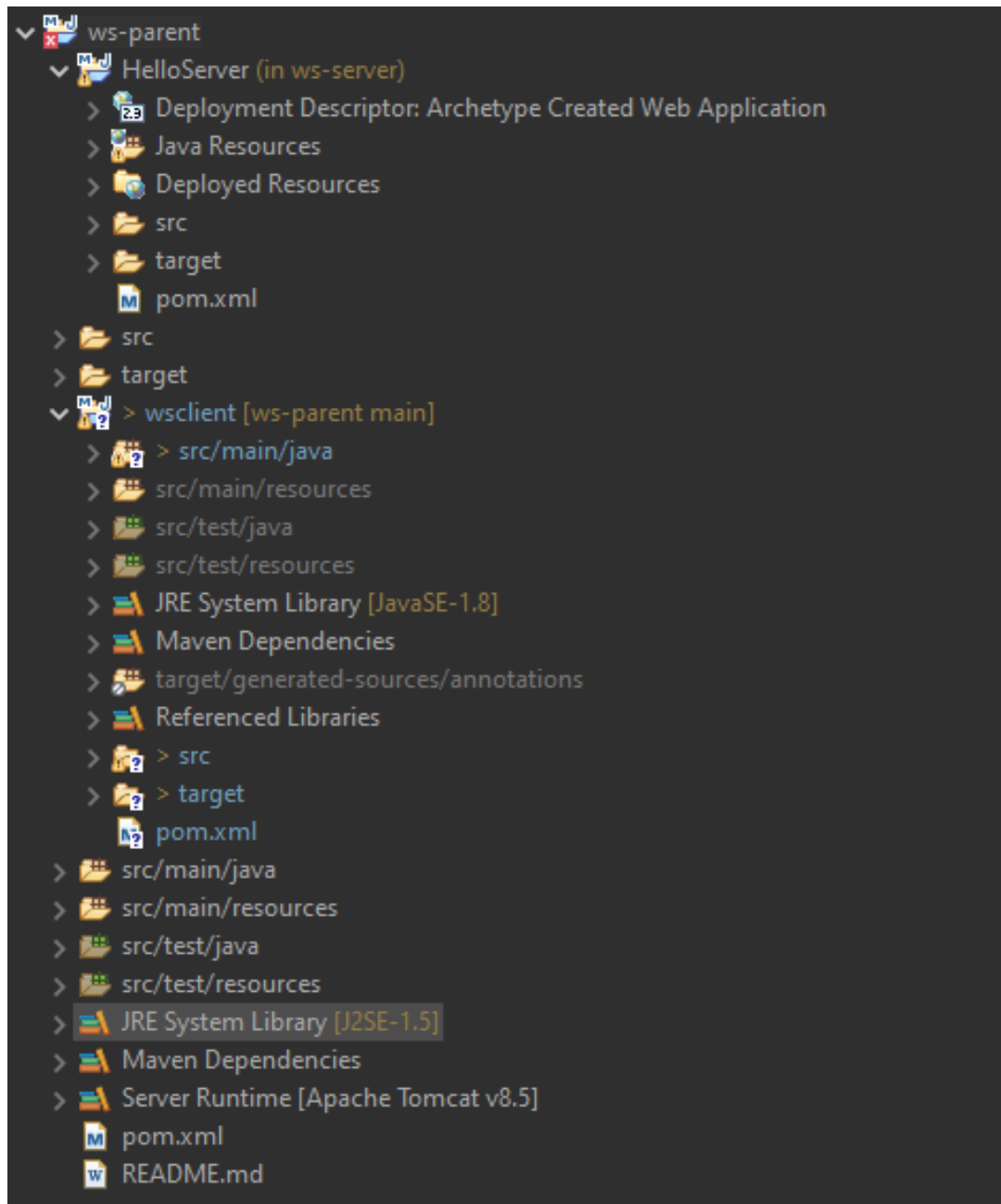


# WEB SERVICE SOAP / CLIENTE SOAP

Estructura de carpetas:



## POM Padre (contenedor):

```
ws-parent/pom.xml X
1 <?xml version="1.0" encoding="UTF-8"?>
2 <project xmlns="http://maven.apache.org/POM/4.0.0"
3       xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
4       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
5   <modelVersion>4.0.0</modelVersion>
6   <groupId>com.ws.parent</groupId>
7   <artifactId>ws-parent</artifactId>
8   <version>0.0.1-SNAPSHOT</version>
9   <packaging>pom</packaging>
10
11   <dependencies>
12
13     <dependency>
14       <groupId>javax.jws</groupId>
15       <artifactId>jsr181-api</artifactId>
16       <version>1.0-MR1</version>
17     </dependency>
18
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     <!-- https://mvnrepository.com/artifact/org.apache.axis/axis -->
34     <dependency>
35       <groupId>org.apache.axis</groupId>
36       <artifactId>axis</artifactId>
37       <version>1.4</version>
38     </dependency>
39
40     <dependency>
41       <groupId>javax.xml.rpc</groupId>
42       <artifactId>javax.xml.rpc-api</artifactId>
43       <version>1.1.1</version>
44     </dependency>
45
46     <dependency>
47       <groupId>com.googlecode.jinahya</groupId>
48       <artifactId>ocap-api</artifactId>
49       <version>1.1.2</version>
50     </dependency>
51
52   </dependencies>
53
54   <modules>
55     <module>wsclient</module>
56   </modules>
57 </project>
```

## POM Servidor:

```
1 <?xml version="1.0" encoding="UTF-8" ?>
2 <project xmlns="http://maven.apache.org/POM/4.0.0"
3   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
4   xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
5   <modelVersion>4.0.0</modelVersion>
6   <groupId></groupId>
7   <artifactId>HelloServer</artifactId>
8   <packaging>war</packaging>
9   <name>HelloServer Maven Webapp</name>
10  <url>http://www.apache.org</url>
11  <dependencies>
12    <dependency>
13      <groupId>javax.ws</groupId>
14      <artifactId>jsr181-api</artifactId>
15      <version>1.0-MR1</version>
16    </dependency>
17    <dependency>
18      <groupId>junit</groupId>
19      <artifactId>junit</artifactId>
20      <version>4.11</version>
21      <scope>test</scope>
22    </dependency>
23    <dependency>
24      <groupId>com.sun.xml.ws</groupId>
25      <artifactId>jaxws-ri</artifactId>
26      <version>2.3.3</version>
27      <type>pom</type>
28    </dependency>
29  </dependencies>
30  <build>
31    <finalName>HelloServer</finalName>
32    <plugins>
33      <plugin>
34        <groupId>org.apache.maven.plugins</groupId>
35        <artifactId>maven-war-plugin</artifactId>
36        <version>3.3.1</version>
37      </plugin>
38    </plugins>
39  </build>
40  <properties>
41    <maven.compiler.source>1.8</maven.compiler.source>
42    <maven.compiler.target>1.8</maven.compiler.target>
43  </properties>
44  <parent>
45    <groupId>com.ws.parent</groupId>
46    <artifactId>ws-parent</artifactId>
47    <version>0.0.1-SNAPSHOT</version>
48  </parent>
49 </project>
```

## 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"
3   xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
4   <parent>
5     <groupId>com.ws.parent</groupId>
6     <artifactId>ws-parent</artifactId>
7     <version>0.0.1-SNAPSHOT</version>
8   </parent>
9   <artifactId>wsclient</artifactId>
10  <properties>
11    <maven.compiler.source>1.8</maven.compiler.source>
12    <maven.compiler.target>1.8</maven.compiler.target>
13  </properties>
14 </project>
```

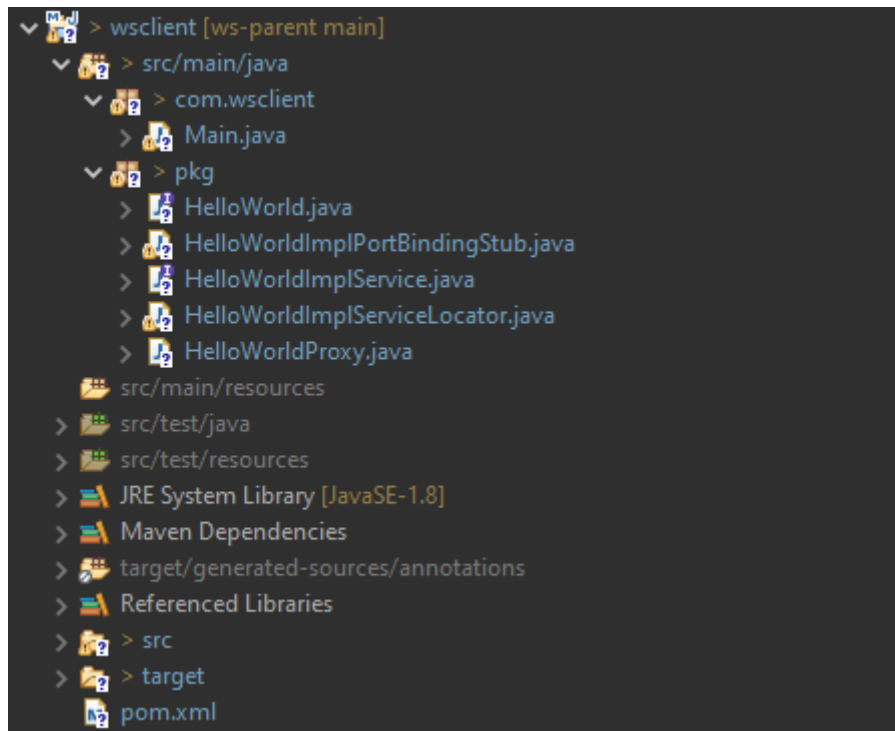
## Interface del servicio:

```
HelloWorld.java X
1 package pkg;
2
3 import javax.ws.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
```

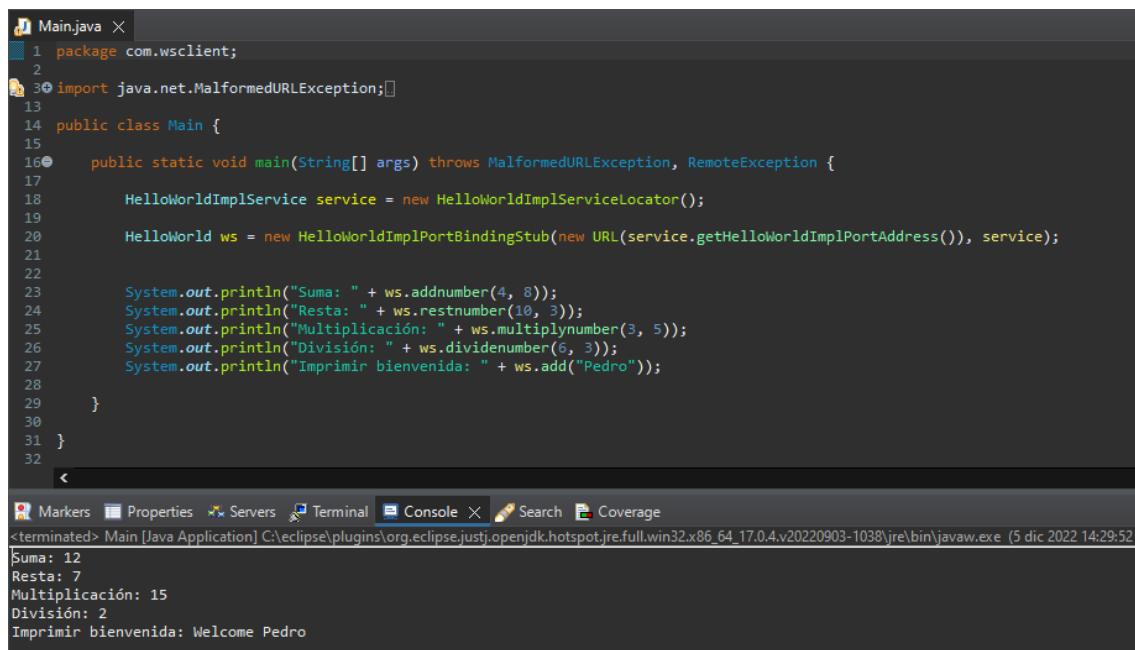
## Implementación del servicio:

```
HelloWorldImpl.java X
1 package pkg;
2
3 import javax.ws.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 }
```

## Estructura del cliente (autogenerado por WSDL):

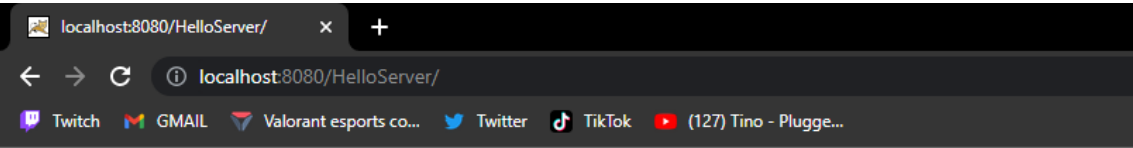


## Cliente y funcionamiento:



Pedro Fernández García

Servidor en Tomcat:



Hello World!

Servidor en Tomcat 2:



Servicios web

Punto Final		Información	
Nombre de Servicio:	(http/pkg)HelloWorldImplService	Dirección:	http://localhost:8080/HelloServer/HelloWorldWS
Nombre de Puerto:	(http/pkg)HelloWorldImplPort	WSDL:	http://localhost:8080/HelloServer/HelloWorldWS?wsdl
		Clase de Implantación:	pkg HelloWorldImpl

Archivo WSDL:

