JAVA EE COURSE

HELLO WORLD WEBSERVICE JAX-WS CLIENT



By the expert: Eng. Ubaldo Acosta

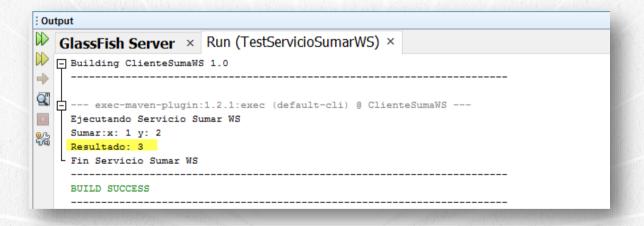




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EXERCISE OBJECTIVE

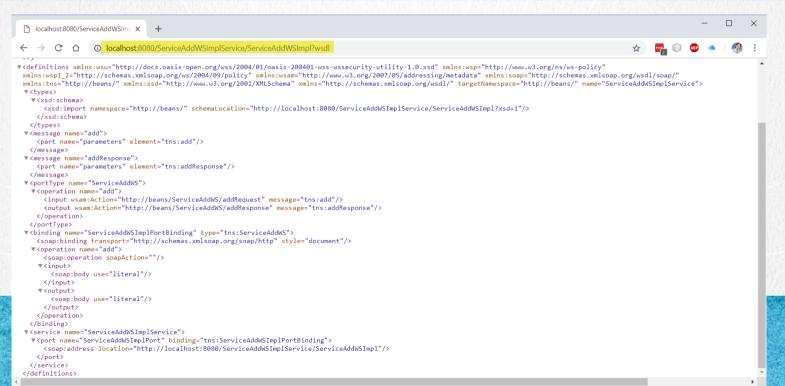
The objective of the exercise is to create a HelloWorld Web Service Client created in the previous exercise. The result is shown below:



START FROM THE PREVIOUS EXERCISE

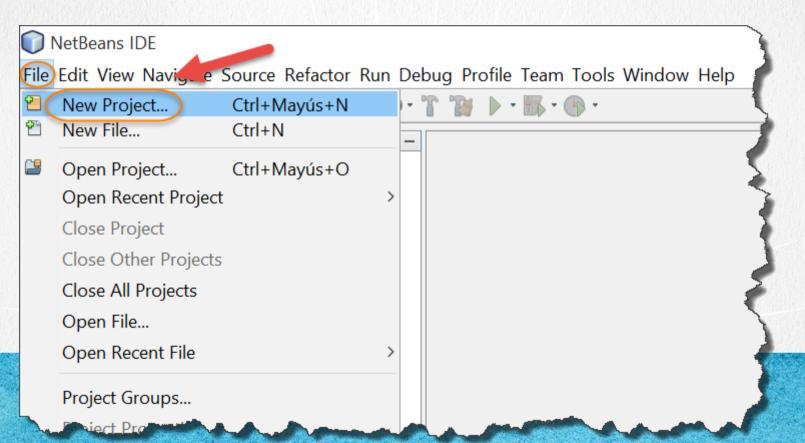
We will start from the previous year. It should already be deployed in Glassfish and working. We must be able to visualize the following url:

http://localhost:8080/ServiceAddWSImplService/ServiceAddWSImpl?wsdl



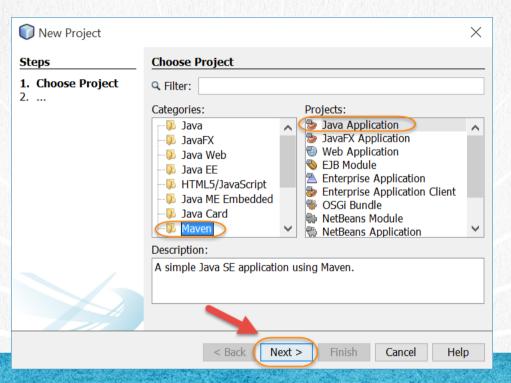
1. CREATE A NEW PROJECT

We create the ClientAddWS project:



1. CREATE A NEW PROJECT

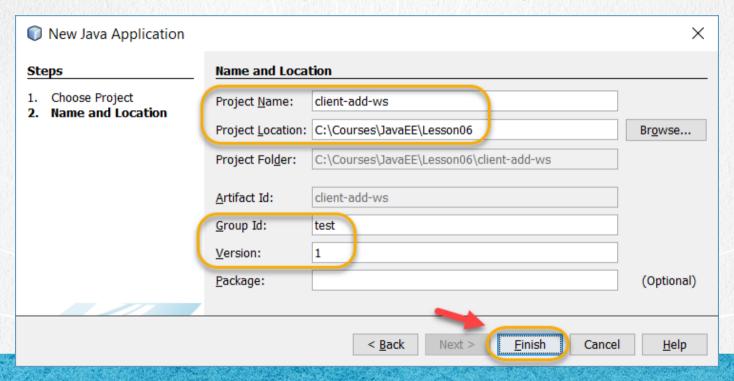
We create the ClientAddWS project as a maven project:



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1. CREATE A NEW PROJECT

We create the ClientAddWS project as a maven project:



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2. MODIFY THE CODE

<u>pom.xml:</u>

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```
<?xml version="1.0" encoding="UTF-8"?>
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
   <modelVersion>4.0.0/modelVersion>
   <groupId>test
   <artifactId>client-add-ws</artifactId>
   <version>1
   <packaging>jar</packaging>
   properties>
      <maven.compiler.source>1.8</maven.compiler.source>
      <maven.compiler.target>1.8</maven.compiler.target>
   </properties>
   <dependencies>
      <dependency>
         <groupId>javax</groupId>
         <artifactId>javaee-api</artifactId>
         <version>8.0</version>
         <scope>provided</scope>
      </dependency>
   </dependencies>
```

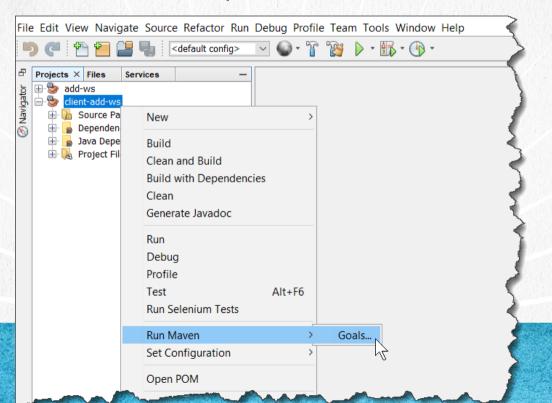
2. MODIFY THE CODE

<u>pom.xml:</u>

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```
<br/>build>
       <plugins>
           <plugin>
               <groupId>org.codehaus.mojo
               <artifactId>jaxws-maven-plugin</artifactId>
               <version>2.5
               <configuration>
                   <vmArqs>
                       <vmArg>-Djavax.xml.accessExternalSchema=all
                   </vmArqs>
               </configuration>
               <executions>
                   <execution>
                       <qoals>
                           <qoal>wsimport
                       </goals>
                       <configuration>
                           <wsdlUrls>
                               <wsdlUrl>http://localhost:8080/ServiceAddWSImplService/ServiceAddWSImpl?wsdl</wsdlUrl>
                           </wsdlUrls>
                           <packageName>wsclient</packageName>
                           <sourceDestDir>${basedir}/src/main/java</sourceDestDir>
                       </configuration>
                   </execution>
               </executions>
           </plugin>
       </plugins>
   </build>
</project>
```

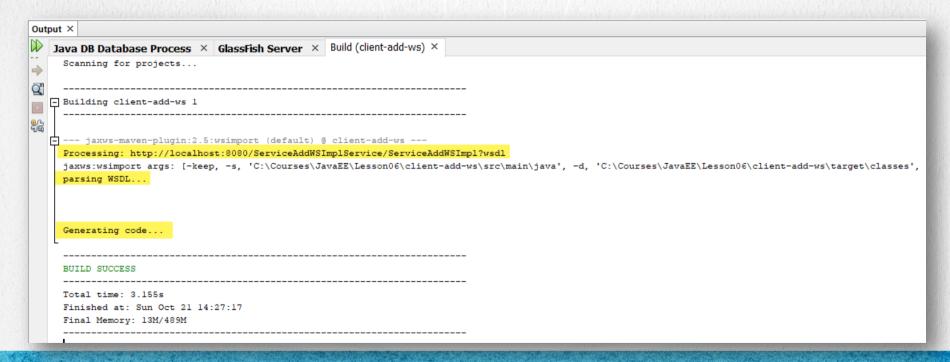
We execute the client to generate the Web Service code by means of the wsimport command added to the pom.xml file:



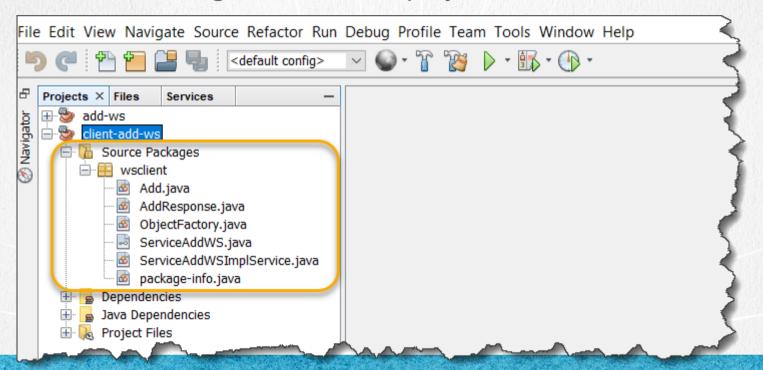
We execute the client to generate the Web Service code. We write generate-sources in the field of Goals to generate the client code:

Goals:	generate-sources
Profiles:	
Properties:	
Add >	
Recursive (with Modules) Update Snapshots	
Build Offline Show Debug Output	
+ +	Remember as:
	OK Cancel

We should see an output similar to this one:



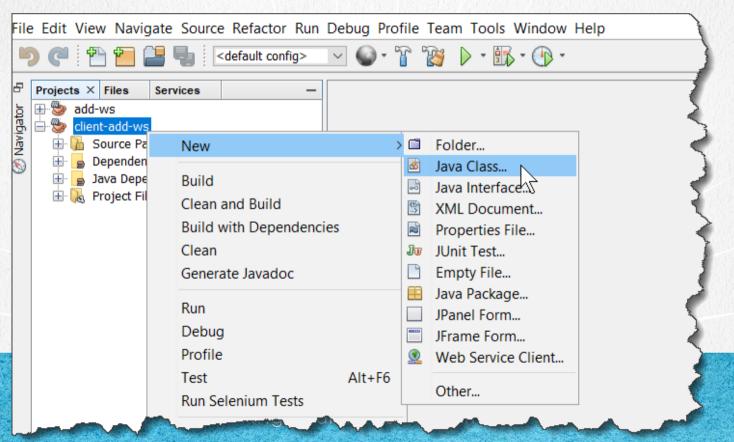
We must see the code generated in the project:



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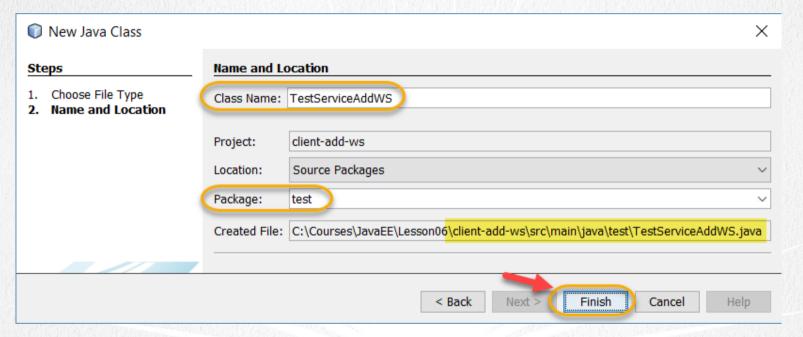
4. CREATE A JAVA CLASS

We create the class TestServiceAddWS.java:



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We create the class TestServiceAddWS.java:



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5. MODIFY THE FILE

TestServiceAddWS.java:

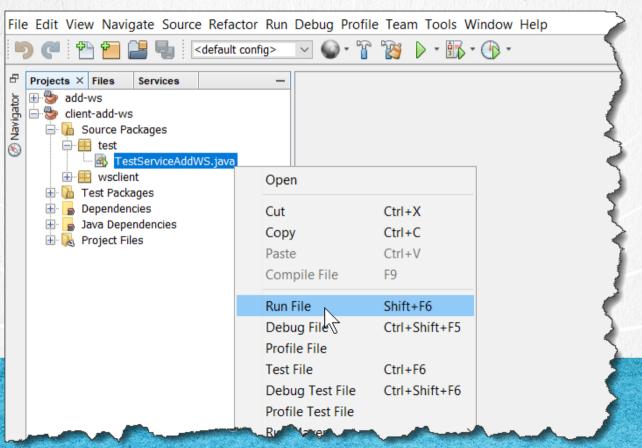
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```
package test;
import wsclient.ServiceAddWS;
import wsclient.ServiceAddWSImplService;
public class TestServiceAddWS {
    public static void main(String[] args) {
        ServiceAddWS addWSService = new ServiceAddWSImplService().getServiceAddWSImplPort();
        System.out.println("Running WS Add Service");
        int x = 1:
        int y = 2;
        System.out.println("Add:" + "x: " + x + " y: " + y);
        System.out.println("Result: " + addWSService.add(x, y));
        System.out.println("End of Add Service WS");
```

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6. EXECUTE THE APPLICATION

Execute the class:



6. EXECUTE THE APPLICATION

We see the result of consulting the Web service. As we have already mentioned, the Web Service of the previous exercise must be deployed, since this client consumes the add-on web service, and the response of the call to the requested Web Service is received.



EXERCISE CONCLUSION

With this exercise we created a client to be able to consume the Add Web service created and published in the previous exercise.

This is the same procedure that can be followed for web services published when we have available the url of the web service wsdl.

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