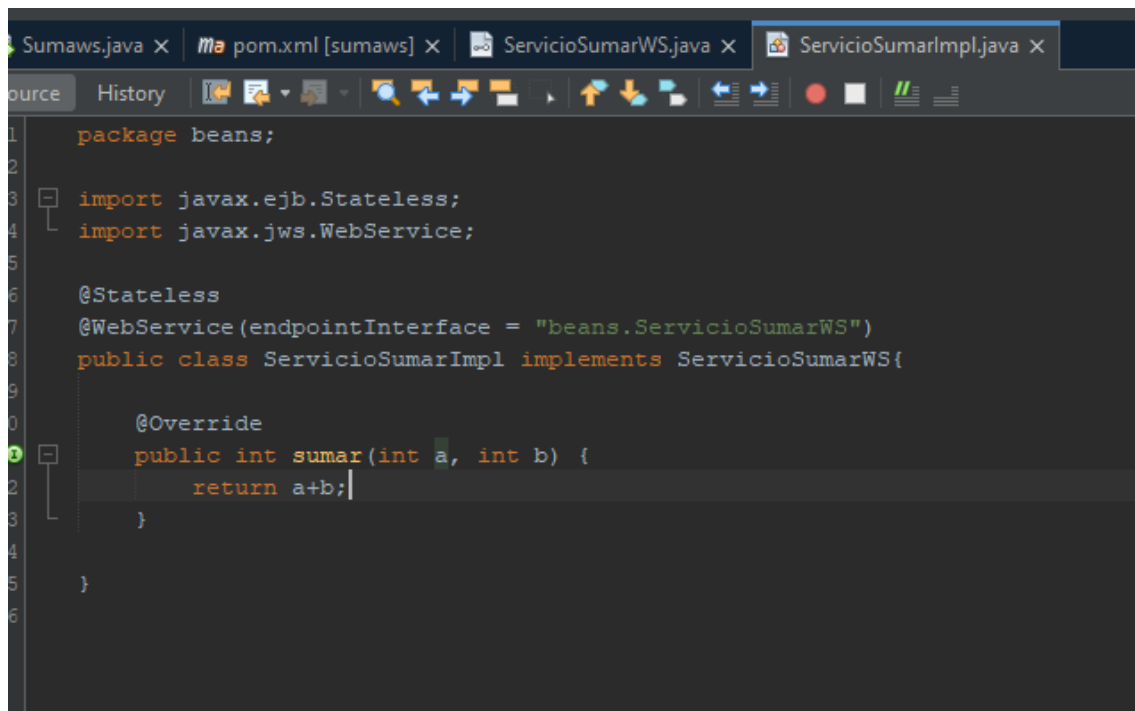
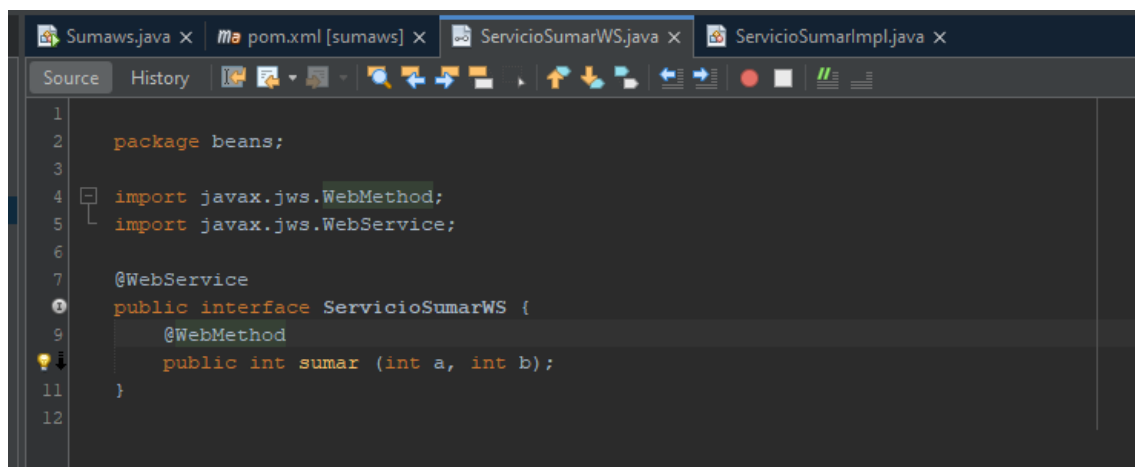


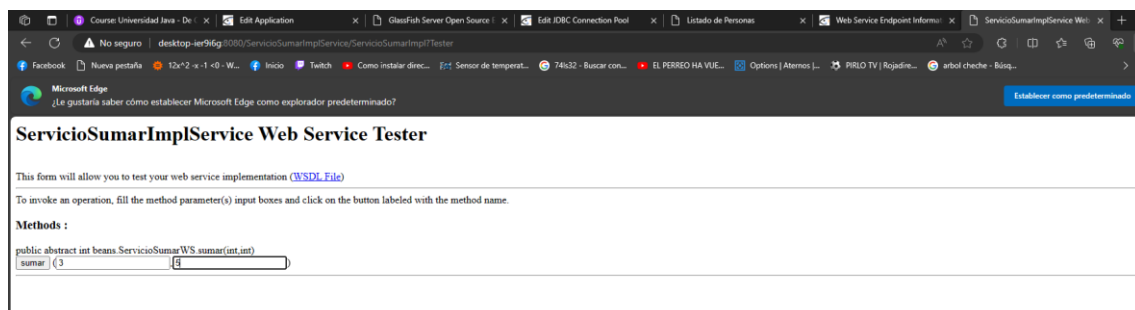
## Hola mundo web services con jax-ws en Java EE 8



```
1 package beans;
2
3 import javax.ejb.Stateless;
4 import javax.jws.WebService;
5
6 @Stateless
7 @WebService(endpointInterface = "beans.ServicioSumarWS")
8 public class ServicioSumarImpl implements ServicioSumarWS {
9
10     @Override
11     public int sumar(int a, int b) {
12         return a+b;
13     }
14 }
```



```
1 package beans;
2
3 import javax.jws.WebMethod;
4 import javax.jws.WebService;
5
6 @WebService
7 public interface ServicioSumarWS {
8     @WebMethod
9     public int sumar (int a, int b);
10 }
11
12
```



**ServicioSumarImplService Web Service Tester**

This form will allow you to test your web service implementation ([WSDL File](#))

To invoke an operation, fill the method parameter(s) input boxes and click on the button labeled with the method name.

**Methods :**

Method Name	Parameters
sumar	int a, int b

sumar Method invocation

Method parameter(s)

Type	Value
int	3
int	5

Method returned

int : "8"

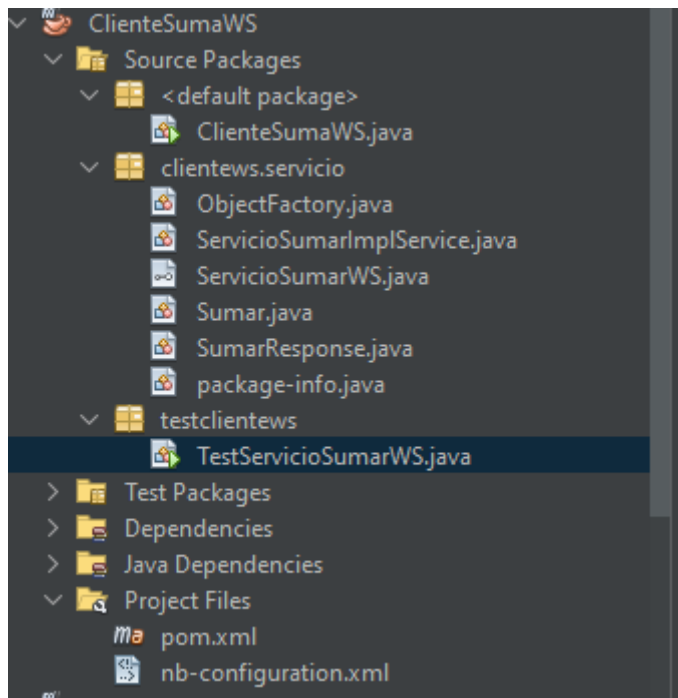
SOAP Request

```
<?xml version="1.0" encoding="UTF-8"?><S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/" xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Header/>
  <S:Body xmlns:ns2="http://beans/">
    <ns2:sumar>
      <arg0>3</arg0>
      <arg1>5</arg1>
    </ns2:sumar>
  </S:Body>
</S:Envelope>
```

SOAP Response

```
<?xml version="1.0" encoding="UTF-8"?><S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/" xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Header/>
  <S:Body xmlns:ns2="http://beans/">
    <ns2:sumarResponse>
      <return>8</return>
    </ns2:sumarResponse>
  </S:Body>
</S:Envelope>
```

## Cliente HolaMundo Web Services con JAX-WS.



```
</properties>
<dependencies>
  <dependency>
    <groupId>javax</groupId>
    <artifactId>jaxws-api</artifactId>
    <version>8.0.1</version>
    <scope>provided</scope>
  </dependency>
  <dependency>
    <groupId>javax.jws</groupId>
    <artifactId>javax.jws-api</artifactId>
    <version>1.1</version>
    <scope>provided</scope>
  </dependency>
</dependencies>
```

```
<build>
  <plugins>
    <plugin>
      <groupId>org.codehaus.mojo</groupId>
      <artifactId>jaxws-maven-plugin</artifactId>
      <version>2.5</version>
      <configuration>
        <vmArgs>
          <vmArg>-Djavax.xml.accessExternalSchema=all</vmArg>
        </vmArgs>
      </configuration>
      <executions>
        <execution>
          <goals>
            <goal>wsimport</goal>
          </goals>
          <configuration>
            <wsdlUrls>
              <wsdlUrl>http://desktop-ier9i6q:8080/ServicioSumarImplService/ServicioSumarImpl?wsdl</wsdlUrl>
            </wsdlUrls>
            <packageName>clientews.servicio</packageName>
            <sourceDestDir>${basedir}/src/main/java</sourceDestDir>
          </configuration>
        </execution>
      </executions>
    </plugin>
  </plugins>
</build>
```

```
1 package testclientews;
2
3
4 import clientews.servicio.ServicioSumarImplService;
5 import clientews.servicio.ServicioSumarWS;
6
7 public class TestServicioSumarWS {
8     public static void main(String[] args) {
9         ServicioSumarWS serviciosumar= new ServicioSumarImplService().getServicioSumarImplPort();
10        System.out.println(s: "Ejecutando servicio sumar ws");
11        System.out.println(s: serviciosumar.sumar( arg0: 6, arg1: 3));
12        System.out.println(s: "Fin Servicio sumar");
13    }
14 }
15
```

testclientews.TestServicioSumarWS > main >

Output X

Retriever Output X Java DB Database Process X GlassFish Server 5.0 X Run (TestServicioSumarWS) X

cd C:\Users\Johan\Desktop\consiti 2023\JAVA EE\leccion 10\ClienteSumaWS; "JAVA\_HOME=C:\\Program Files\\Java\\jdk1.8.0\_202" cmd  
Scanning for projects...

-----< sv.com.gm.sga:ClienteSumaWS >-----

Building ClienteSumaWS 1.0  
from pom.xml

-----[ jar ]-----

--- jaxws:2.5:wsimport (default) @ ClienteSumaWS ---

--- resources:3.3.1:resources (default-resources) @ ClienteSumaWS ---  
- skip non existing resourceDirectory C:\Users\Johan\Desktop\consiti 2023\JAVA EE\leccion 10\ClienteSumaWS\src\main\resources

--- compiler:3.11.0:compile (default-compile) @ ClienteSumaWS ---  
Changes detected - recompiling the module! :source  
- Compiling 8 source files with javac [debug target 1.8] to target\classes

--- exec:3.1.0:exec (default-cli) @ ClienteSumaWS ---  
Ejecutando servicio sumar ws  
9  
Fin Servicio sumar

-----

**BUILD SUCCESS**

-----

Total time: 1.540 s  
Finished at: 2023-11-03T17:37:18-06:00  
-----

## SGA web service con jax

```
...b] PersonaServiceWS.java x PersonaServiceImpl.java x Persona.java x
Source History
1
2 package sv.com.gm.sga.servicio;
3 import java.util.List;
4 import javax.jws.WebMethod;
5 import javax.jws.WebService;
6 import sv.com.gm.sga.domain.Persona;
7
8 @WebService
9 public interface PersonaServiceWS {
10
11     @WebMethod
12     public List<Persona> listarPersonas();
13 }
14
```

```
...b] PersonaServiceWS.java x PersonaServiceImpl.java x Persona.java x ClienteSgaWS.java x pom.xml [ClienteSumaWS] x pom.xml [C
Source History
1 package sv.com.gm.sga.servicio;
2
3 import java.util.ArrayList;
4 import java.util.List;
5 import javax.annotation.Resource;
6 import javax.ejb.SessionContext;
7 import javax.ejb.Stateless;
8 import javax.inject.Inject;
9 import javax.jws.WebService;
10 import sv.com.gm.sga.domain.Persona;
11 import sv.com.gm.sga.datos.PersonaDao;
12
13 @Stateless
14 @WebService(endpointInterface = "sv.com.gm.sga.servicio.PersonaServiceWS")
15 public class PersonaServiceImpl implements PersonaServiceRemote, PersonaService, PersonaServiceWS {
16
17     @Inject
```

```
...b] PersonaServiceWS.java x PersonaServiceImpl.java x Persona.java x ClienteSgaWS.java x pom.xml [ClienteSumaWS] x pom.xml [ClienteSgaWS] x TestPersonaSe
Source History
4 import java.io.Serializable;
5 import java.util.List;
6 import javax.persistence.*;
7 import javax.validation.constraints.Size;
8 import javax.xml.bind.annotation.*;
9
10 @Entity
11 @NamedQueries({
12     @NamedQuery(name = "Persona.findAll", query = "SELECT p FROM Persona p"),
13     @NamedQuery(name = "Persona.findByIdPersona", query = "SELECT p FROM Persona p WHERE p.idPersona = :idPersona"),
14     @NamedQuery(name = "Persona.findByName", query = "SELECT p FROM Persona p WHERE p.nombre = :nombre"),
15     @NamedQuery(name = "Persona.findByApellido", query = "SELECT p FROM Persona p WHERE p.apellido = :apellido"),
16     @NamedQuery(name = "Persona.findByEmail", query = "SELECT p FROM Persona p WHERE p.email = :email"),
17     @NamedQuery(name = "Persona.findByTelefono", query = "SELECT p FROM Persona p WHERE p.telefono = :telefono")})
18 @XmlAccessorType(XmlAccessType.FIELD)
19 public class Persona implements Serializable {
20
21     private static final long serialVersionUID = 1L;
22     @Id
23     @GeneratedValue(strategy = GenerationType.IDENTITY)
```

## Cliente:

```
1 package testclientews;
2
3
4 import clientews.servicio.Persona;
5 import clientews.servicio.PersonaServiceImplService;
6 import clientews.servicio.PersonaServiceWS;
7 import java.util.List;
8
9 public class TestPersonaServiceWS {
10     public static void main(String[] args) {
11         PersonaServiceWS personaservice = new PersonaServiceImplService().getPersonaServiceImplPort();
12         System.out.println("Ejecutando servicio de listar personas ws");
13         List<Persona> personas = personaservice.listarPersonas();
14         for(Persona persona: personas){
15             System.out.println("Persona idPersona:" + persona.getIdPersona() + ", nombre:" + persona.getNombre()
16                 + ", apellido:" + persona.getApellido() + ", email:" + persona.getEmail());
17         }
18         System.out.println("Fin servicio listar personas ws");
19     }
20 }
21
22
```

Find:  Previous Next Select aA u " . \*

testclientews.TestPersonaServiceWS > main >

Output X

Retriever Output X Java DB Database Process X GlassFish Server 5.0 X Run (TestPersonaServiceWS) X

Compiling 9 source files with javac [debug target 1.8] to target\classes

--- exec:3.1.0:exec (default-cli) @ ClienteSgaWS ---

ejecutando servicio de listar personas ws

Persona idPersona:1, nombre:Juan, apellido:Higuain, email:jperez@mail.com

Persona idPersona:2, nombre:Karla, apellido:Gomez, email:kgomez@mail.com

Persona idPersona:3, nombre:Maria, apellido:Gutierrez, email:mgutierrez@mail.com

Persona idPersona:4, nombre:Pedro, apellido:Luna, email:pedro@gmail.com

Persona idPersona:6, nombre:Hugo, apellido:Hernandez, email:hhernandez@mail.com

Persona idPersona:7, nombre:pepe, apellido:problemas, email:pepe@hotmail.com

Fin servicio listar personas ws