



**BENEMÉRITA UNIVERSIDAD  
AUTÓNOMA DE PUEBLA**  
**FACULTAD DE CIENCIAS DE LA COMPUTACIÓN.**  
Materia: Servicios Web  
Web Service Calculadora

**Estudiante:**

José Eduardo Hernández Rodríguez

Ingeniería en Tecnologías de la Información

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**Profesor:**

Roberto Elvira Enríquez

**Fecha de entrega:**

21 de febrero del 2023

Suma:

http://localhost:8080/calculator/calculator\_ws

```
<?xml version='1.0' encoding='UTF-8' ?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header/>
  <soapenv:Body>
    <cal:Calculator>
      /* + : Sumar
      /* - : Restar
      /* * : Multiplicar
      /* / : Dividir
      /* ^ : Potencia
      /* s : Raiz cuadrada (number1)
      /* l : Logaritmo10 (number1)
      <number1>4</number1>
      <number2>2</number2>
      <option>+</option>
    </cal:Calculator>
  </soapenv:Body>
</soapenv:Envelope>
```

Header	Value
Transfer-Encoding	chunked
Keep-Alive	timeout=20
Connection	keep-alive
#status#	HTTP/1.1 200
Date	Tue, 21 Feb 2023 18:51:11 GMT
Content-Type	text/xml; charset=utf-8

Resta:

The screenshot displays the SoapUI interface with the 'Raw XML' view selected. The left pane shows the XML structure of the request, and the right pane shows the XML structure of the response.

**Request XML (Left Pane):**

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header/>
  <soapenv:Body>
    <cal:Calculator>
      /* + : Sumar
      /* - : Restar
      /* * : Multiplicar
      /* / : Dividir
      /* ^ : Potencia
      /* s : Raiz cuadrada (number1)
      /* l : Logaritmo10 (number1)
      <number1>4</number1>
      <number2>2</number2>
      <option>-</option>
    </cal:Calculator>
  </soapenv:Body>
</soapenv:Envelope>
```

**Response XML (Right Pane):**

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:CalculatorResponse xmlns:ns2="http://calculator_pkg/">
      <return>2.0</return>
    </ns2:CalculatorResponse>
  </S:Body>
</S:Envelope>
```

**Multiplicación:**

Request 1

http://localhost:8080/calculator/calculator\_ws

```
<?xml version='1.0' encoding='UTF-8'>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header/>
  <soapenv:Body>
    <cal:Calculator>
      /* + : Sumar
      /* - : Restar
      /* * : Multiplicar
      /* / : Dividir
      /* ^ : Potencia
      /* s : Raiz cuadrada (number1)
      /* l : Logaritmo10 (number1)
      <number1>4</number1>
      <number2>2</number2>
      <option>*</option>
    </cal:Calculator>
  </soapenv:Body>
</soapenv:Envelope>
```

```
<?xml version='1.0' encoding='UTF-8'>
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:CalculatorResponse xmlns:ns2="http://calculator_pkg/">
      <return>8.0</return>
    </ns2:CalculatorResponse>
  </S:Body>
</S:Envelope>
```

División:

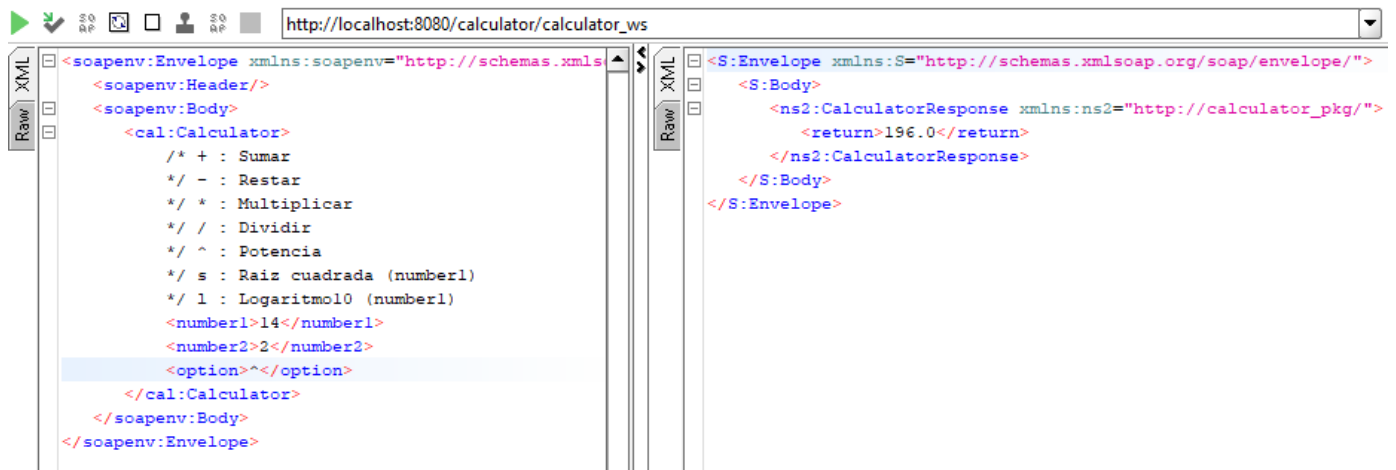
Request 1

http://localhost:8080/calculator/calculator\_ws

```
<?xml version='1.0' encoding='UTF-8'>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header/>
  <soapenv:Body>
    <cal:Calculator>
      /* + : Sumar
      /* - : Restar
      /* * : Multiplicar
      /* / : Dividir
      /* ^ : Potencia
      /* s : Raiz cuadrada (number1)
      /* l : Logaritmo10 (number1)
      <number1>14</number1>
      <number2>2</number2>
      <option>/</option>
    </cal:Calculator>
  </soapenv:Body>
</soapenv:Envelope>
```

```
<?xml version='1.0' encoding='UTF-8'>
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:CalculatorResponse xmlns:ns2="http://calculator_pkg/">
      <return>7.0</return>
    </ns2:CalculatorResponse>
  </S:Body>
</S:Envelope>
```

Potencia:

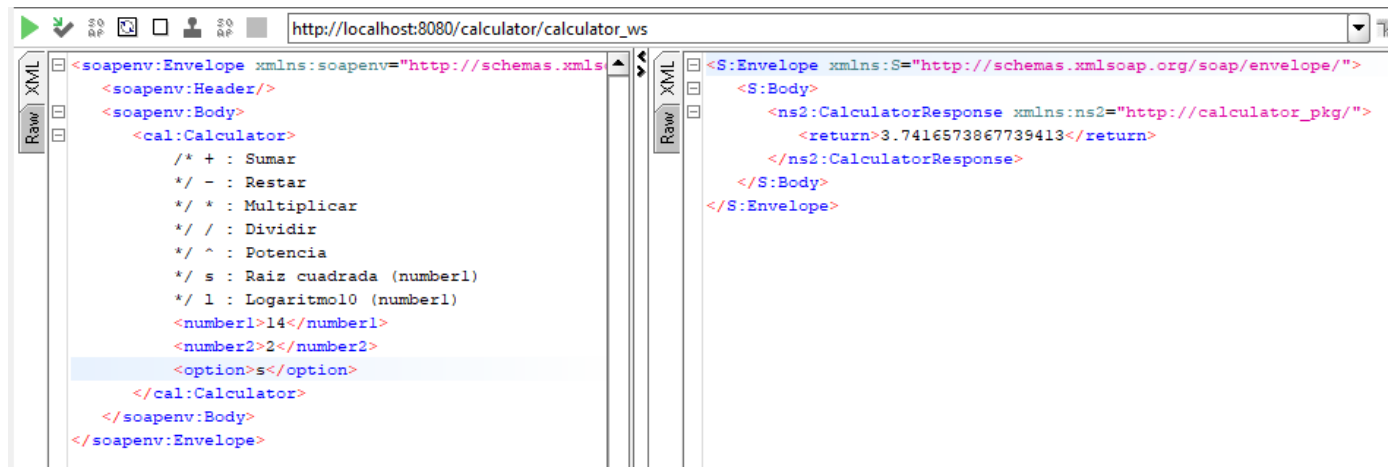


http://localhost:8080/calculator/calculator\_ws

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header/>
  <soapenv:Body>
    <cal:Calculator>
      /* + : Sumar
      /* - : Restar
      /* * : Multiplicar
      /* / : Dividir
      /* ^ : Potencia
      /* s : Raiz cuadrada (number1)
      /* l : Logaritmo10 (number1)
      <number1>14</number1>
      <number2>2</number2>
      <option>^</option>
    </cal:Calculator>
  </soapenv:Body>
</soapenv:Envelope>
```

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:CalculatorResponse xmlns:ns2="http://calculator_pkg/">
      <return>196.0</return>
    </ns2:CalculatorResponse>
  </S:Body>
</S:Envelope>
```

Raiz cuadrada (number1):



http://localhost:8080/calculator/calculator\_ws

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header/>
  <soapenv:Body>
    <cal:Calculator>
      /* + : Sumar
      /* - : Restar
      /* * : Multiplicar
      /* / : Dividir
      /* ^ : Potencia
      /* s : Raiz cuadrada (number1)
      /* l : Logaritmo10 (number1)
      <number1>14</number1>
      <number2>2</number2>
      <option>s</option>
    </cal:Calculator>
  </soapenv:Body>
</soapenv:Envelope>
```

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:CalculatorResponse xmlns:ns2="http://calculator_pkg/">
      <return>3.7416573867739413</return>
    </ns2:CalculatorResponse>
  </S:Body>
</S:Envelope>
```

Logaritmo (base 10):

```
Request 1
http://localhost:8080/calculator/calculator_ws

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header/>
  <soapenv:Body>
    <cal:Calculator>
      /* + : Sumar
      /* - : Restar
      /* * : Multiplicar
      /* / : Dividir
      /* ^ : Potencia
      /* s : Raiz cuadrada (number1)
      /* l : Logaritmo10 (number1)
      <number1>14</number1>
      <number2>2</number2>
      <option>1</option>
    </cal:Calculator>
  </soapenv:Body>
</soapenv:Envelope>

<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:CalculatorResponse xmlns:ns2="http://calculator_pkg/">
      <return>1.146128035678238</return>
    </ns2:CalculatorResponse>
  </S:Body>
</S:Envelope>
```

Control de parámetros:

```
http://localhost:8080/calculator/calculator_ws

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header/>
  <soapenv:Body>
    <cal:Calculator>
      /* + : Sumar
      /* - : Restar
      /* * : Multiplicar
      /* / : Dividir
      /* ^ : Potencia
      /* s : Raiz cuadrada (number1)
      /* l : Logaritmo10 (number1)
      <number1>14</number1>
      <number2>10</number2>
      <option></option>
    </cal:Calculator>
  </soapenv:Body>
</soapenv:Envelope>

<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:CalculatorResponse xmlns:ns2="http://calculator_pkg/">
      <return>Check your parameters</return>
    </ns2:CalculatorResponse>
  </S:Body>
</S:Envelope>
```

```
http://localhost:8080/calculator/calculator_ws

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header/>
  <soapenv:Body>
    <cal:Calculator>
      /* + : Sumar
      /* - : Restar
      /* * : Multiplicar
      /* / : Dividir
      /* ^ : Potencia
      /* s : Raiz cuadrada (number1)
      /* l : Logaritmo10 (number1)
      <number1>14</number1>
      <number2></number2>
      <option>+</option>
    </cal:Calculator>
  </soapenv:Body>
</soapenv:Envelope>

<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:CalculatorResponse xmlns:ns2="http://calculator_pkg/">
      <return>Check your parameters</return>
    </ns2:CalculatorResponse>
  </S:Body>
</S:Envelope>
```