



**Auditoire :** LCS 3 **Module :** SOA – **TD2** 

## Les services web SOAP

## Exercice 1:

Compléter le fichier WSDL suivant de manière que les opérations qu'il fournit correspondent aux méthodes suivantes :

- float div(int x, int y)
- int mul(int a, int b)
- String echo(String s)

Le service doit être disponible à l'adresse : http://www.swsbook.com/theService.

```
<?xml version="1.0" encoding="UTF-8"?>
<definitions name="CompService" targetNamespace="urn:Foo"</pre>
xmlns:tns="urn:Foo"
xmlns="http://schemas.xmlsoap.org/wsdl/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/">
<uypes/>
<message name="_ ">
<types/>
      <part name="parameter_1" type="xsd:integer"/>
      <part name="parameter_2" type="______</pre>
</message>
<message name="_______
      <part name="par_1" type="_
<part name="par_2" type="__</pre>
</message>
<message name=" ">
      <part name="echoRequestIn" type="</pre>
., message/
<message name="</pre>
      <part name="resultdiv" type="___</pre>
</message>
<message name="____">
      <part name="resultmul" type="</pre>
</message>
<message name="_____">
      <part name="resultecho" type="_</pre>
</message>
<portType name="CompIF">
      <operation name="div">
             <input message="</pre>
            </operation>
      <operation name="mul">
             <input message="</pre>
             <output message="</pre>
      </operation>
      <operation name="echo">
             <input message="</pre>
             </operation>
</portType>
<binding name="CompIFBinding" type="tns:CompIF">
      <operation name="mul">
                   <soap:body encodingStyle=http://schemas.xmlsoap.org/soap/encoding/</pre>
                   use="encoded" namespace="urn:Foo"/>
             </input>
```





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```
<output>
                    <soap:body
             encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
                    use="encoded" namespace="urn:Foo"/>
             </output>
             <soap:operation soapAction=""/>
      </operation>
                       transport=http://schemas.xmlsoap.org/soap/http style="rpc"/>
      <soap:binding</pre>
</binding>
<service name="CompService">
      <port name="CompIFPort" binding="tns:CompIFBinding">
             <soap:address location="</pre>
                                                                      "/>
      </port>
</service>
</definitions>
```

## Exercice 2:

Soit le fichier WSDL suivant d'un service web, proposer une requête et une réponse SOAP pour l'opération GetQuote du portType StockQuoteSoap.

```
<wsdl:definitions targetNamespace=http://www.webserviceX.NET/</pre>
      xmlns:http="http://schemas.xmlsoap.org/wsdl/http/"
      xmlns:mime="http://schemas.xmlsoap.org/wsdl/mime/"
      xmlns:s="http://www.w3.org/2001/XMLSchema"
      xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
      xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
      xmlns:tm="http://microsoft.com/wsdl/mime/textMatching/"
      xmlns:tns="http://www.webserviceX.NET/"
      xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
<wsdl:types>
   <s:schema elementFormDefault="qualified"
   targetNamespace="http://www.webserviceX.NET/">
   <s:element name="GetQuote">
      <s:complexType>
         <s:sequence>
            <s:element maxOccurs="1" minOccurs="0" name="symbol" type="s:string"/>
         </s:sequence>
      </s:complexType>
   </s:element>
   <s:element name="GetQuoteResponse">
      <s:complexType>
         <s:sequence>
             <s:element maxOccurs="1" minOccurs="0" name="GetQuoteResult"</pre>
             type="s:string"/>
         </s:sequence>
      </s:complexType>
    </s:element>
    <s:element name="string" nillable="true" type="s:string"/>
    </s:schema>
</wsdl:types>
<wsdl:message name="GetQuoteSoapIn">
      <wsdl:part element="tns:GetQuote" name="parameters"/>
</wsdl:message>
<wsdl:message name="GetQuoteSoapOut">
      <wsdl:part element="tns:GetQuoteResponse" name="parameters"/>
</wsdl:message>
```





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```
<wsdl:portType name="StockQuoteSoap">
   <wsdl:operation name="GetQuote">
      <documentation xmlns="http://schemas.xmlsoap.org/wsdl/">Get Stock quote for a
      company Symbol</documentation>
       <wsdl:input message="tns:GetQuoteSoapIn"/>
       <wsdl:output message="tns:GetQuoteSoapOut"/>
   </wsdl:operation>
</wsdl:portType>
<wsdl:binding name="StockQuoteSoap" type="tns:StockQuoteSoap">
<soap:binding style="document" transport="http://schemas.xmlsoap.org/soap/http"/>
<wsdl:operation name="GetQuote">
 <soap:operation soapAction="http://wwwwebserviceX.NET/GetQuote" style="doument"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
 </wsdl:output>
</wsdl:operation>
</wsdl:binding>
<wsdl:service name="StockQuote">
  <wsdl:port binding="tns:StockQuoteSoap" name="StockQuoteSoap">
     <soap:address location=" ="http://www.webservicex.net/stockquote.asmx"/>
   </wsdl:port>
</wsdl:service>
</wsdl:definitions>
```

## Exercice 3:

Soit le fichier WSDL suivant.

- Cherchez le nom de la méthode unique proposée par ce service.
- Cherchez les entrées et sorties de cette méthode. Quel est le nom des entrées, quel est le nom des sorties ?
- Quels sont les paramètres (nom et types) qui composent l'entrée ?
- Quels sont les champs de la sortie ?

```
<definitions targetNamespace=http://v1.fraudlabs.com/soap/FraudLabsWebService</pre>
      xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
      xmlns:xsd="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:SOAP-
      ENC="http://schemas.xmlsoap.org/soap/encoding/"
      xmlns:tns="http://v1.fraudlabs.com/soap/FraudLabsWebService"
      xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
      xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
      xmlns="http://schemas.xmlsoap.org/wsdl/">
<types>
 <xsd:schema targetNamespace="http://v1.fraudlabs.com/soap/FraudLabsWebService">
 <xsd:import namespace="http://schemas.xmlsoap.org/soap/encoding/"/>
 <xsd:import namespace="http://schemas.xmlsoap.org/wsdl/"/>
 <xsd:complexType name="FraudLabsInput">
   <xsd:all>
      <xsd:element name="IP" type="xsd:string" minOccurs="0" maxOccurs="1"/>
     <xsd:element name="CITY" type="xsd:string" minOccurs="0" maxOccurs="1"/>
     <xsd:element name="REGION" type="xsd:string" minOccurs="0" maxOccurs="1"/>
```





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```
<xsd:element name="POSTAL" type="xsd:string" minOccurs="0" maxOccurs="1"/>
      <xsd:element name="COUNTRY" type="xsd:string" minOccurs="0" maxOccurs="1"/>
    </xsd:all>
  </xsd:complexType>
  <xsd:complexType name="FraudLabsOutput">
    <xsd:all>
     <xsd:element name="COUNTMATCH" type="xsd:string" minOccurs="0" maxOccurs="1"/>
     <xsd:element name="COUNTRY" type="xsd:string" minOccurs="0" maxOccurs="1"/>
     <xsd:element name="RISKCOUNT" type="xsd:string" minOccurs="0" maxOccurs="1"/>
     <xsd:element name="DISTANCE" type="xsd:string" minOccurs="0" maxOccurs="1"/>
     <xsd:element name="FREEMAIL" type="xsd:string" minOccurs="0" maxOccurs="1"/>
     <xsd:element name="POSTCMATCH" type="xsd:string" minOccurs="0" maxOccurs="1"/>
     <xsd:element name="PHONCMATCH" type="xsd:string" minOccurs="0" maxOccurs="1"/>
     <xsd:element name="SHIPFORWA" type="xsd:string" minOccurs="0" maxOccurs="1"/>
     <xsd:element name="CREDITAVAI" type="xsd:string" minOccurs="0" maxOccurs="1"/>
     <xsd:element name="FRAUDSCORE" type="xsd:string" minOccurs="0" maxOccurs="1"/>
     <xsd:element name="QUERYID" type="xsd:string" minOccurs="0" maxOccurs="1"/>
    <xsd:element name="MESSAGE" type="xsd:string" minOccurs="0" maxOccurs="1"/>
    </xsd:all>
  </xsd:complexType>
  </xsd:schema>
</types>
<message name="FraudLabsRequest">
      <part name="inputdata" type="tns:FraudLabsInput"/>
</message>
<message name="FraudLabsResponse">
      <part name="return" type="tns:FraudLabsOutput"/>
</message>
<portType name="FraudLabsWebServicePortType">
   <operation name="FraudLabs">
       <documentation>The FraudLabs Web Service</documentation>
       <input message="tns:FraudLabsRequest"/>
       <output message="tns:FraudLabsResponse"/>
   </operation>
</portType>
<binding name="FraudLabsWebServiceBinding" type="tns:FraudLabsWebServicePortType">
   <soap:binding style="rpc" transport="http://schemas.xmlsoap.org/soap/http"/>
   <operation name="FraudLabs">
      <soap:operation</pre>
      soapAction="http://v1.fraudlabs.com/fraudlabswebservice.asmx/FraudLabs"
      style="rpc"/>
         <input>
             <soap:body use="encoded" namespace="v1.fraudlabs.com"</pre>
             encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"/>
         </input>
         <output>
             <soap:body use="encoded" namespace="v1.fraudlabs.com"</pre>
             encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"/>
         </output>
   </operation>
</binding>
<service name="FraudLabsWebService">
   <port name="FraudLabsWebServicePort" binding="tns:FraudLabsWebServiceBinding">
      <soap:address location="http://v1.fraudlabs.com/fraudlabswebservice.asmx"/>
   </port>
</service>
</definitions>
```