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Section & Group	19BCS-2
Department	Computer Science & Engineering
Session	Aug-Dec 2022
Course Name	WEB SERVICE SECURITY LAB
Course Code	CSB-422
Semester	7 TH



CourseName: WebServices Security Lab

Course code: CSB-422

Experiment: External Lab Practical

Aim:

Write a program to create a simple web service that calculate total money spend in shopping.

Tools/Software Required:

Netbeans IDE 8.2, Java Development kit(JDK), Java runtime environment (JRE), GlassFish Server, Web browser

Description:

WSDL stands for Web Service Description Language. It describes the web services and exchanges the information in a decentralized or distributed environment. It is used to create a relationship between the service requester and the service provider. It is an XML based language to describe the functionality of a SOAP-based web service.

Pseudo code/Algorithms/Flowchart/Steps:

Creating a TemperatureApp Web Service

1. Open Netbeans
2. Open New Project → Java Web → Web Application.

Implementation:



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/*

* To change this license header, choose License Headers in Project Properties.

* To change this template file, choose Tools | Templates

* and open the template in the editor.

*/

package General-Store;

import javax.jws.WebService;

import javax.jws.WebMethod;

import javax.jws.WebParam;

import javax.xml.ws.RequestWrapper;

import javax.xml.ws.ResponseWrapper;

/**

*

* @author lost

*/

/*

 getPrice

*/

@WebService(serviceName = "Buy_Product ")

public class Buy_Product {

/**

* Web service operation

*/

@WebMethod(operationName = "buyItems")

 public Integer buyItems(@WebParam(name = "product1") String product1,

 @WebParam(name = "product2") String product2, @WebParam(name = "product3") String

product3) {

 //TODO write your implementation code here:

 int total_money_spent = 0 ;

// product -1

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```
switch(product1){  
    case "shirt" : {  
        total_money_spent += 500;  
        break;  
    }  
    case "pent" : {  
        total_money_spent += 500;  
        break;  
    }  
    case "H.P Laptop" : {  
        total_money_spent += 50000;  
        break;  
    }  
    case "Asus Laptop" : {  
        total_money_spent += 100000;  
        break;  
    }  
    case "charger" : {  
        total_money_spent += 2000;  
        break;  
    }  
}
```

// product-2

```
switch(product2){  
    case "shirt" : {  
        total_money_spent += 500;  
        break;  
    }  
    case "pent" : {  
        total_money_spent += 500;  
        break;  
    }  
    case "H.P Laptop" : {  
        total_money_spent += 50000;  
        break;  
    }  
    case "Asus Laptop" : {  
        total_money_spent += 100000;  
        break;  
    }  
}
```



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```
case "charger" : {
    total_money_spent += 2000;
    break;
}
}
// product -3
switch(product3){
    case "shirt" : {
        total_money_spent += 500;
        break;
    }
    case "pent" : {
        total_money_spent += 500;
        break;
    }
    case "H.P Laptop" : {
        total_money_spent += 50000;
        break;
    }
    case "Asus Laptop" : {
        total_money_spent += 100000;
        break;
    }
    case "charger" : {
        total_money_spent += 2000;
        break;
    }
}

return total_money_spent;
}

}
```

Output:



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index 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 :

```
public abstract java.lang.Integer newpack.Index.buyItems(java.lang.String java.lang.String java.lang.String)
buyItems (Laptop shirt pent)
```



buyItems Method invocation

Method parameter(s)

Type	Value
java.lang.String	Laptop
java.lang.String	shirt
java.lang.String	pent

Method returned

java.lang.Integer : "1000"

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>
    <ns2:buyItems xmlns:ns2="http://newPack/">
      <product1>Laptop</product1>
      <product2>shirt</product2>
      <product3>pent</product3>
    </ns2:buyItems>
  </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>
    <ns2:buyItemsResponse xmlns:ns2="http://newPack/">
      <return>1000</return>
    </ns2:buyItemsResponse>
  </S:Body>
</S:Envelope>
```



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</S:Envelope>

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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>
    <ns2:buyItemsResponse xmlns:ns2="http://newPack/">
      <return>1000</return>
    </ns2:buyItemsResponse>
  </S:Body>
</S:Envelope>
```





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ctoF Method invocation

Method parameter(s)

Type	Value
float	36.4

Method returned

float : "97.520004"

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>
    <ns2:CtoF xmlns:ns2="http://temperature.me.org/">
      <cel>36.4</cel>
    </ns2:CtoF>
  </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>
    <ns2:CtoFResponse xmlns:ns2="http://temperature.me.org/">
      <return>97.520004</return>
    </ns2:CtoFResponse>
  </S:Body>
</S:Envelope>
```