

1. After finishing the workshop students must complete the following tasks:
  - The XML document structure
  - XML Namespace

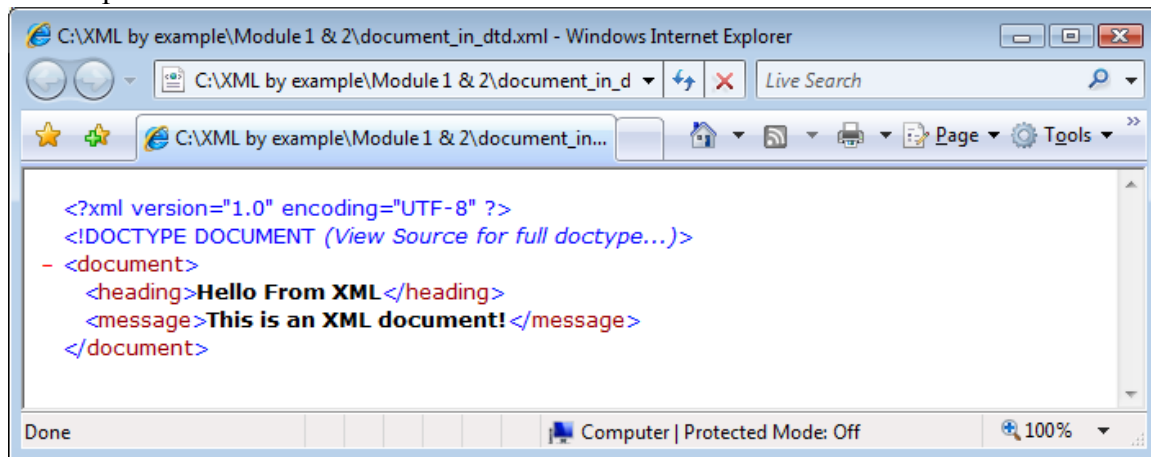
### 3. The XML document structure:

Open the editor and type the following code:

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE DOCUMENT [
    <!ELEMENT document (heading, message)>
    <!ELEMENT heading (#PCDATA)>
    <!ELEMENT message (#PCDATA)>
]>
<document>
    <heading>
        Hello From XML
    </heading>
    <message>
        This is an XML document!
    </message>
</document>
```

Save the code as **document.xml** file and open it in the browser

The output:



Open the editor and type the following code:

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<breakfast_menu>
    <food>
        <name>Belgian Waffles</name>
        <price>$5.95</price>
        <description>two of our famous Belgian Waffles with plenty of
real maple syrup</description>
        <calories>650</calories>
```

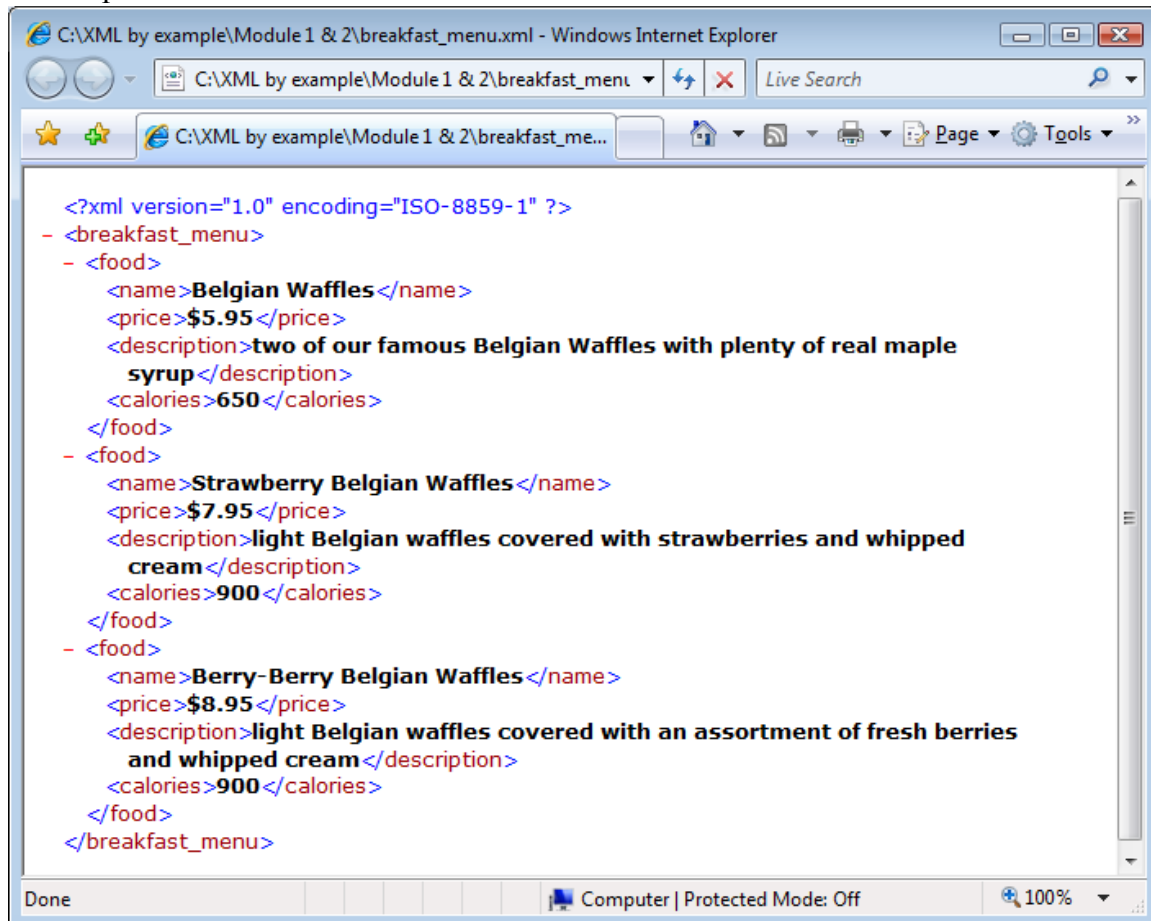
```

    </food>
    <food>
        <name>Strawberry Belgian Waffles</name>
        <price>$7.95</price>
        <description>light Belgian waffles covered with strawberries
and whipped cream</description>
        <calories>900</calories>
    </food>
    <food>
        <name>Berry-Berry Belgian Waffles</name>
        <price>$8.95</price>
        <description>light Belgian waffles covered with an assortment
of fresh berries and whipped cream</description>
        <calories>900</calories>
    </food>
</breakfast_menu>

```

Save the code as **breakfast\_menu.xml** file and open it in the browser

The output:



#### 4. XML Namespace:

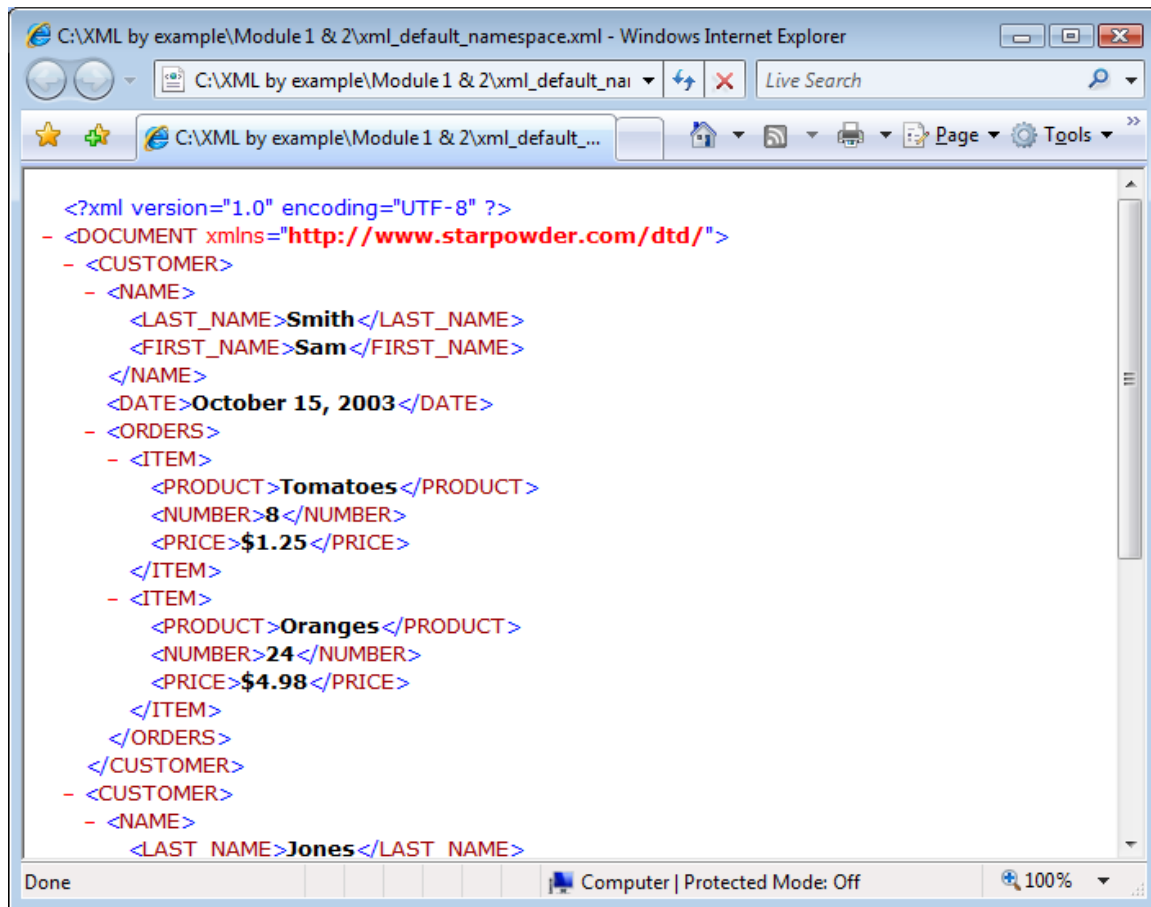
Open the editor and type the following code:

```
<?xml version="1.0" encoding="UTF-8"?>
<DOCUMENT xmlns="http://www.starpowder.com/dtd/">
  <CUSTOMER>
    <NAME>
      <LAST_NAME>Smith</LAST_NAME>
      <FIRST_NAME>Sam</FIRST_NAME>
    </NAME>
    <DATE>October 15, 2003</DATE>
    <ORDERS>
      <ITEM>
        <PRODUCT>Tomatoes</PRODUCT>
        <NUMBER>8</NUMBER>
        <PRICE>$1.25</PRICE>
      </ITEM>
      <ITEM>
        <PRODUCT>Oranges</PRODUCT>
        <NUMBER>24</NUMBER>
        <PRICE>$4.98</PRICE>
      </ITEM>
    </ORDERS>
  </CUSTOMER>

  <CUSTOMER>
    <NAME>
      <LAST_NAME>Jones</LAST_NAME>
      <FIRST_NAME>Polly</FIRST_NAME>
    </NAME>
    <DATE>October 20, 2003</DATE>
    <ORDERS>
      <ITEM>
        <PRODUCT>Bread</PRODUCT>
        <NUMBER>12</NUMBER>
        <PRICE>$14.95</PRICE>
      </ITEM>
      <ITEM>
        <PRODUCT>Apples</PRODUCT>
        <NUMBER>6</NUMBER>
        <PRICE>$1.50</PRICE>
      </ITEM>
    </ORDERS>
  </CUSTOMER>
</DOCUMENT>
```

Save the code as **xml\_default\_namespace.xml** file and open it in the browser

The output:



Open the editor and type the following code:

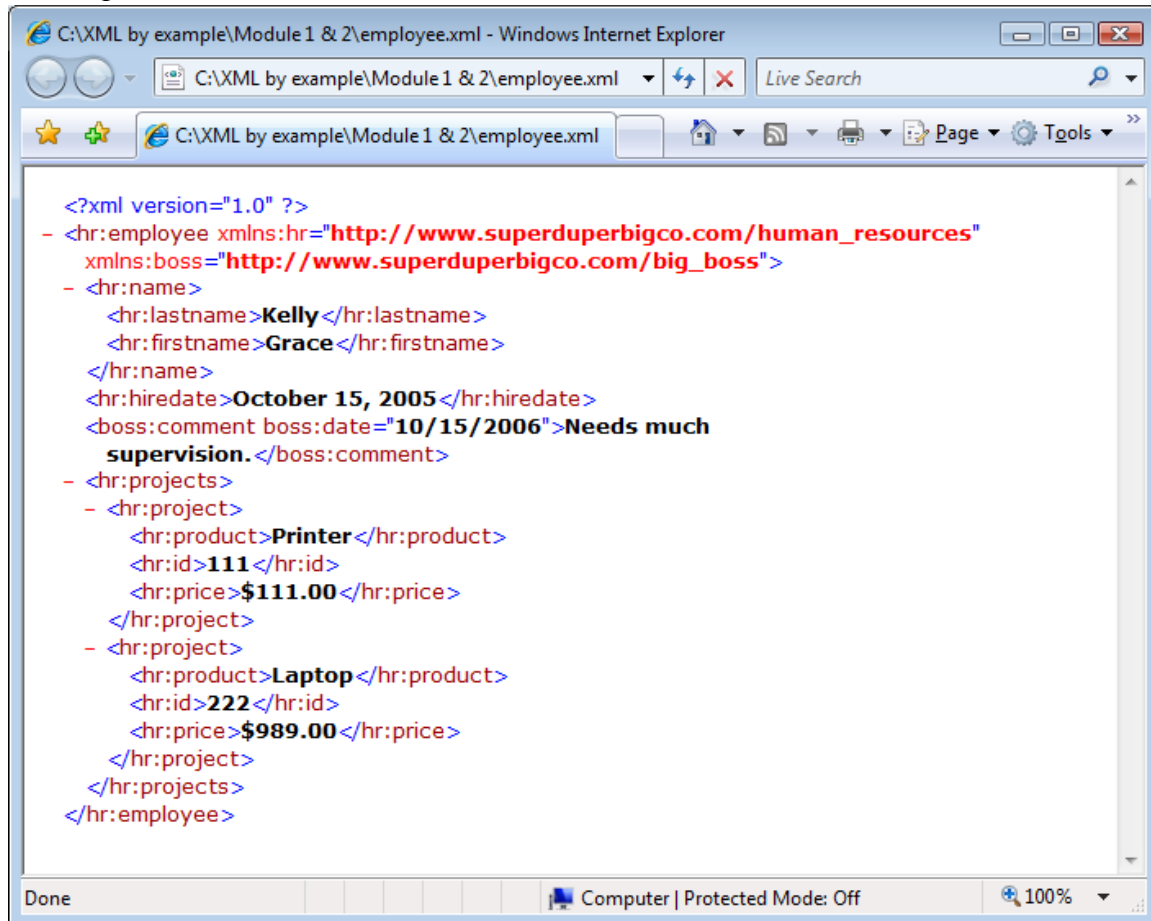
```
<?xml version="1.0" encoding="UTF-8"?>
<hr:employee
  xmlns:hr="http://www.superduperbigco.com/human_resources"
  xmlns:boss="http://www.superduperbigco.com/big_boss">
  <hr:name>
    <hr:lastname>Kelly</hr:lastname>
    <hr:firstname>Grace</hr:firstname>
  </hr:name>
  <hr:hiredate>October 15, 2005</hr:hiredate>
  <boss:comment boss:date="10/15/2006">
    Needs much supervision.
  </boss:comment>

  <hr:projects>
    <hr:project>
      <hr:product>Printer</hr:product>
      <hr:id>111</hr:id>
      <hr:price>$111.00</hr:price>
    </hr:project>
    <hr:project>
```

```
<hr:product>Laptop</hr:product>
<hr:id>222</hr:id>
<hr:price>$989.00</hr:price>
</hr:project>
</hr:projects>
</hr:employee>
```

Save the code as **employee.xml** file and open it in the browser

The output:



## Do It Yourself

1.1. Write an XML file that describes the following Orders:

```
<?xml version="1.0" ?>
- <BookOrder OrderNo="1234">
  <OrderDate>2001-01-01</OrderDate>
  - <Customer>
    <Title>Mr.</Title>
    <FirstName>Graeme</FirstName>
    <LastName>Malcolm</LastName>
  </Customer>
  - <Book>
    <Title>Treasure Island</Title>
    <Author>Robert Louis Stevenson</Author>
  </Book>
</BookOrder>
```

- Set default namespace <http://www.fpt-aptech.com/customer> for the document.
- Create a namespace named `mybook` whose URI is [http://www.superduperbigco.com/customer\\_service](http://www.superduperbigco.com/customer_service) for `<Book>` tag.

## 1.2. Why is the following XML document not well-formed?

```
<?xml version = "1.0" standalone="yes"?>
<employee>
  <name>Frank</name>
  <position>Chef</position>
</employee>
<employee>
  <name>Ronnie</name>
  <position>Chef</position>
</employee>
```

## 1.3. Why is the following XML document not well-formed?

```
<?xml version = "1.0" standalone="yes"?>
<employee>
  <kitchen_staff/>
  <name language=en>Frank</name>
  <new_hire />
  <position language=en>Chef</position>
</employee>
```