

XML Simplified

Module 1- Introduction to XML

Module 2 - Namespaces

Lab Guide for Lab1

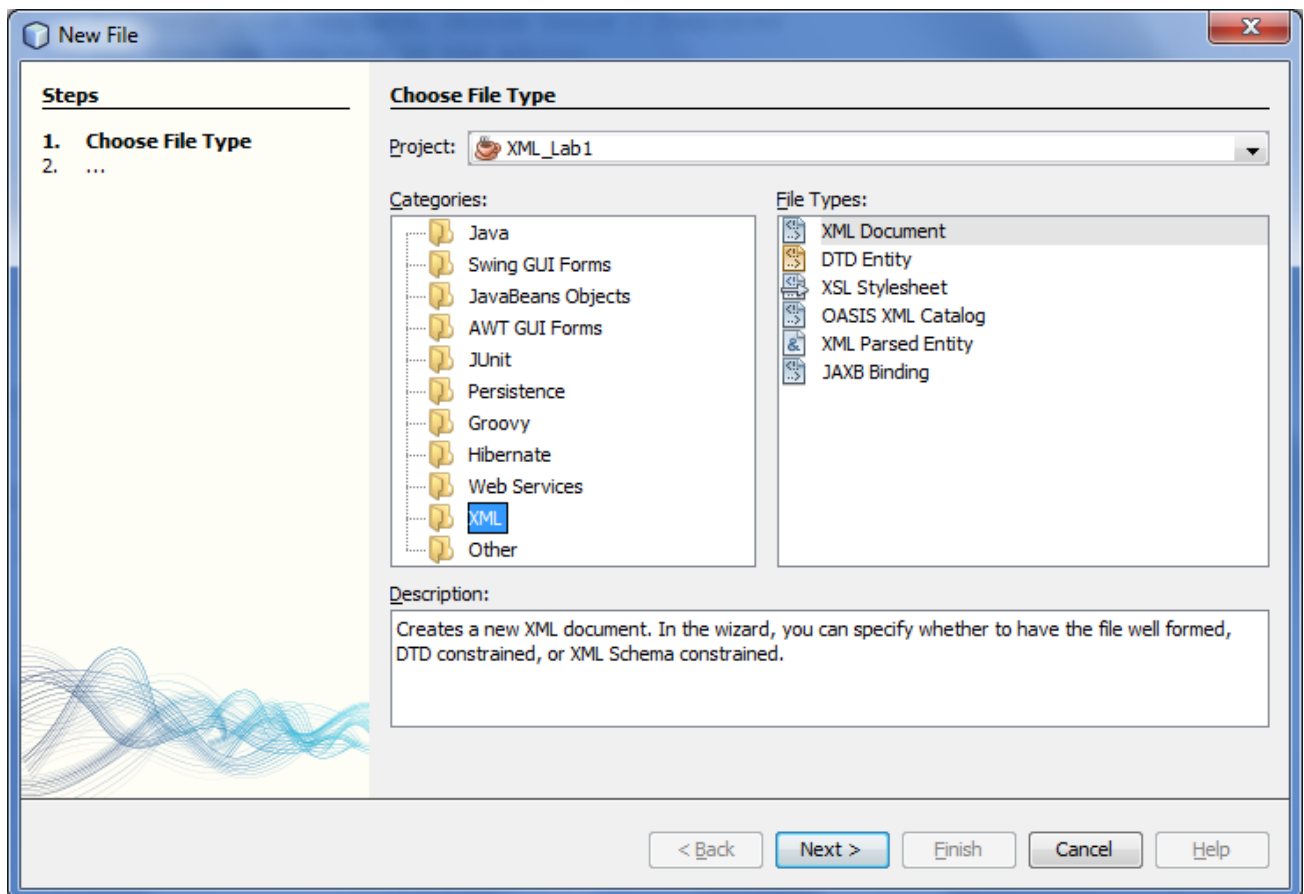
Session Objectives

In this session, you will be practicing with

- Create an XML file
- Create an well-formed XML file
- Defining the syntax of namespace
- Adding namespace to attribute

Part 1 – Getting started (30 minutes)

1. Open NetBean (or another Editor for XML) and type the following code:

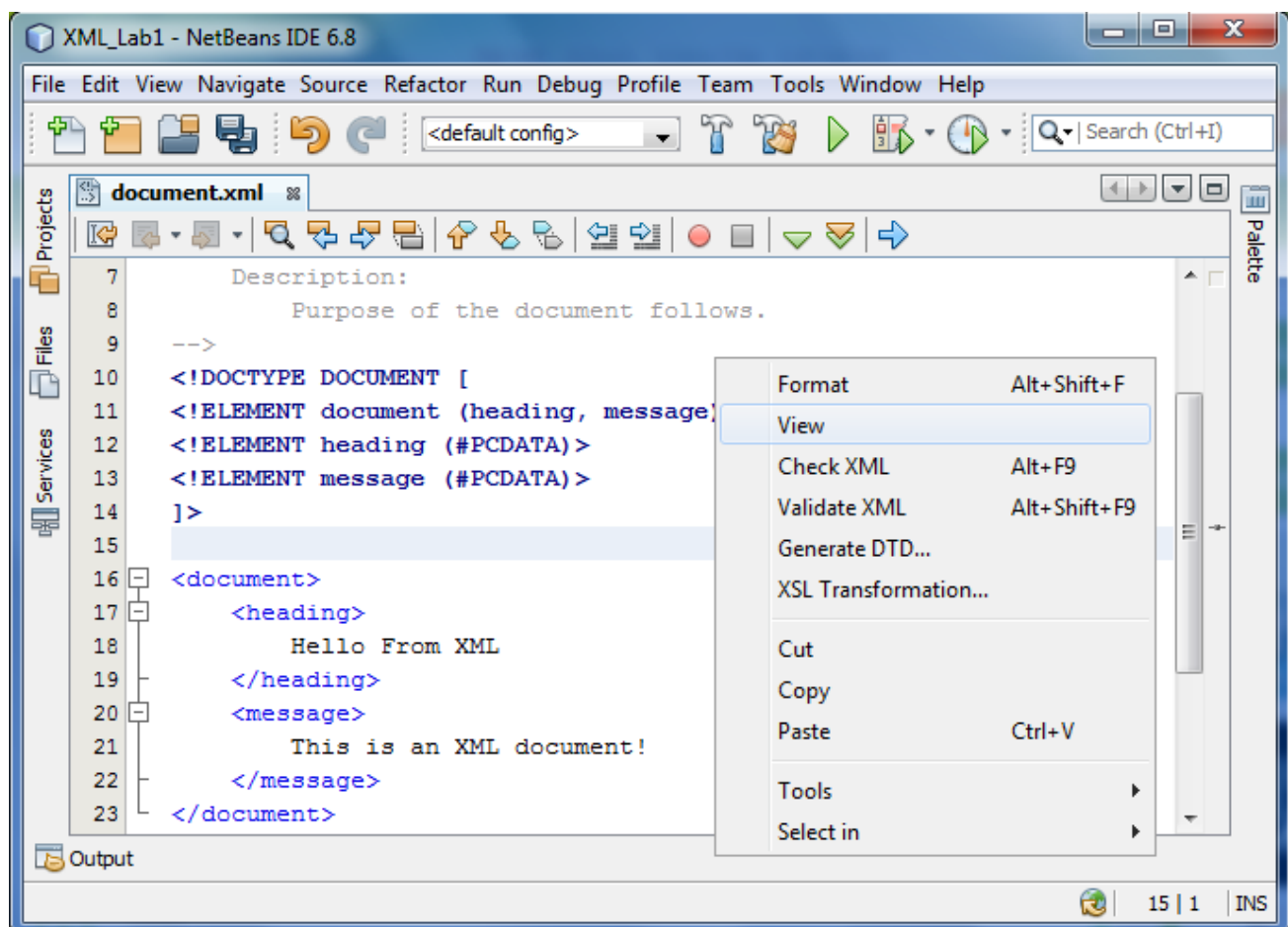


```

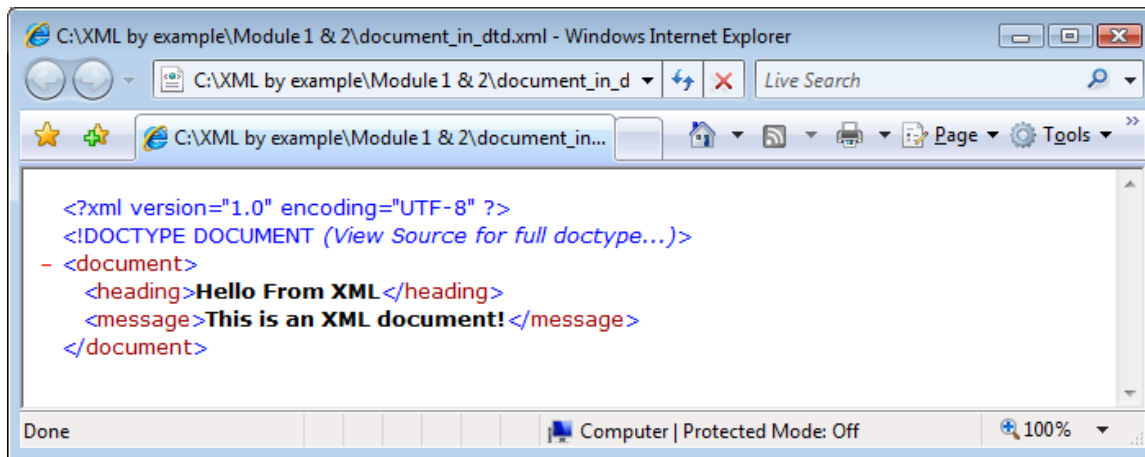
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE DOCUMENT [
    <!ELEMENT document (heading, message)>
    <!ELEMENT heading (#PCDATA)>
    <!ELEMENT message (#PCDATA)>
]>
<document>
    <heading>
        Hello From XML
    </heading>
    <message>
        This is an XML document!
    </message>
</document>

```

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



The output:



Questions:

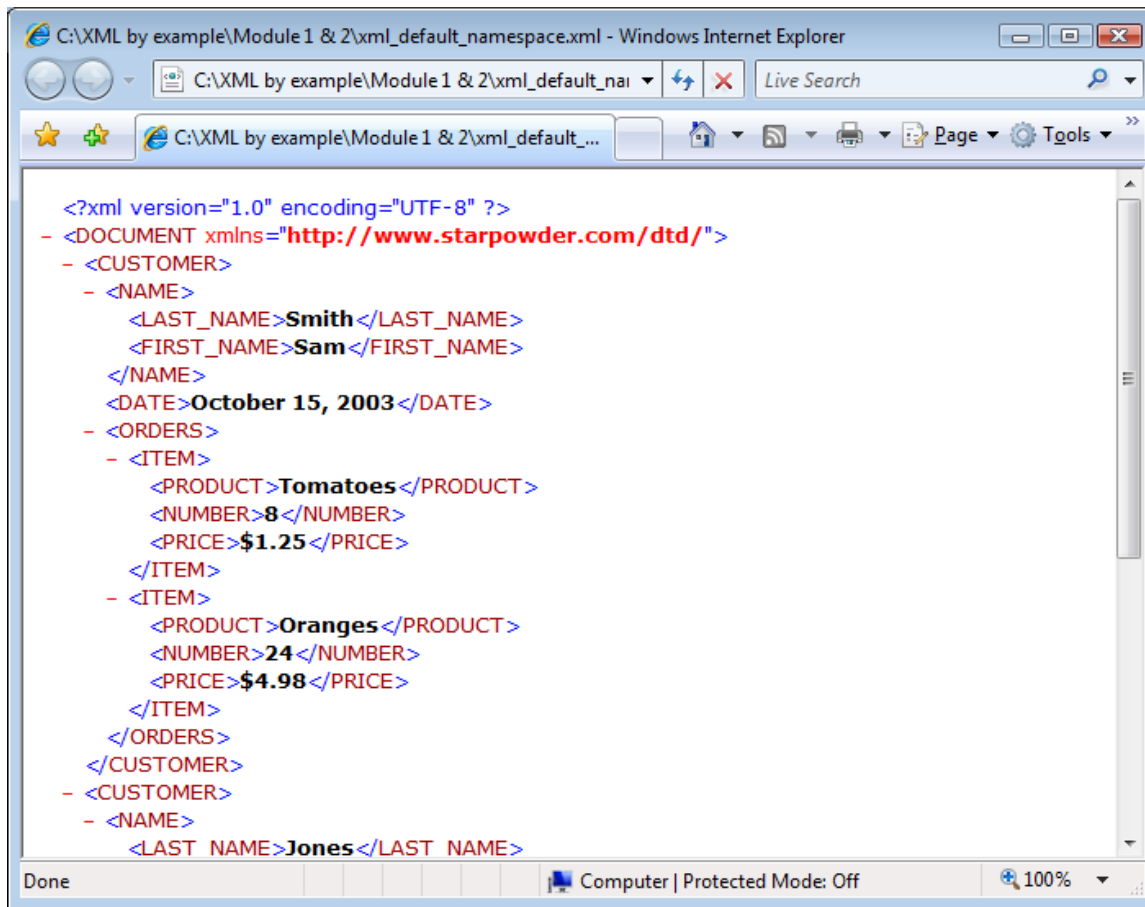
- How to check the well-formedness of XML document in NetBeans and in Dreamweaver?

2. Type the next 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:



Part 2 – Workshops (30 minutes)

- Quickly look at Module 1 and Module 2's workshops to view the basic steps creating a XML document and view it in the browser.
- Try to create and check the well-formedness of XML document in another Editor, such as Macromedia Dreamweaver. Discuss with your class-mate and your instructor if needed.

Link workshop

http://www.onlinevarsity.com/sites/default/files/books/Modern_MarkupforDatainterchange_Demos//Workshop.html

Part 3 – Lab Assignment (60 minutes)

Do the assignment for Module 1 and 2 carefully. Discuss with your class-mates and your instructor if needed. See ACT_Module1_Assignment.pdf and ACT_ASSGN_XML_02.pdf file.

Part 4 – Do it your self

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 for <Book> tag.

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>

```

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>

```