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| **Xml** |
| **Extensible markup language**  **xml is to represent data and store data AND transport data**  **xml was designed to DESCRIBE DATA and to focus on WHAT DATA IS**  **html was designed to DISPLAY DATA and to focus on HOW DATA LOOKS**  **<?xml versio=”1.0” encoding=” ” ?>**  **it is case sensitive** |
| **Xml file**  **product.xml**  **<?xml version =”1.0” ?>**  **<product>**  **<name> word </name>**  **<description> microsoft </description>**  **<price> 99 </price>**  **</product>** |
| **Xsd file**  **product.xsd**  **<?xml version =”1.0” ?>**  **<xs:schema xmlns:xs = “**[**http://www.w3.org/2001/XMLSchema**](http://www.w3.org/2001/XMLSchema)**”>**  **<xs:element name=”product”>**  **<xs:complexType>**  **<xs:sequence>**  **<xs:element name=”name” type=”xs:string” />**  **<xs:element name=”description” type=”xs:string” />**  **<xs:element name=”price” type=”xs:integer” />**  **</xs:sequence>**  **</xs:complexType>**  **</xs:element>**  **</xs:schema>** |
| **Dtd stands for Document Type Definition**  **external dtd**  **product.dtd** |
| **<!ELEMENT product(Name,Description,Price)>**  **<!ELEMENT Name(#PCDATA)>**  **<!ELEMENT description(#PCDATA)>**  **<!ELEMENT price(#PCDATA)>** |
| **Xml file**  **<?xml version=”1.0” ?>**  **<!DOCTYPE Product SYSTEM “product.dtd” >**  **<Product>**  **<name>word</name>**  **<description> microsoft </description>**  **<price> 99 </price>**  **</product>** |
| **Internal dtd**  **<?xml version = “1.0” ?>**  **<!DOCTYPE product [**  **<!ELEMENT product(Name,Description,Price)>**  **<!ELEMENT Name(#PCDATA)>**  **<!ELEMENT description(#PCDATA)>**  **<!ELEMENT price(#PCDATA)>**  **]>**  **<Product>**  **<name>word</name>**  **<description> microsoft </description>**  **<price> 99 </price>**  **</product>** |
| **Xpath**  **/ select the root node**  **// select any node matches the name**  **. select the current node**  **../ select the parent node**  **[] specify the condition**  **@ access the attributes**  **count() , last() , text() function** |
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