



# **SNS COLLEGE OF TECHNOLOGY**



**Coimbatore-35.**

**An Autonomous Institution**

**COURSE NAME : 19CSO303 WEB DESIGNING**

**III YEAR/ VI SEMESTER**

**TOPIC : XML SYNTAX RULES**



# XML



## XML Syntax Rules

- **The XML Prolog**
- This line is called the XML **prolog**:
- `<?xml version="1.0" encoding="UTF-8"?>`
- The XML prolog is optional. If it exists, it must come first in the document.



# XML



## XML Syntax Rules

### All XML Elements Must Have a Closing Tag

- In XML, it is illegal to omit the closing tag. All elements **must have a closing tag**:
- `<p>This is a paragraph.</p>`



# XML



## XML Syntax Rules

### XML Tags are Case Sensitive

- XML tags are case sensitive. The tag `<Letter>` is different from the tag `<letter>`.
- Opening and closing tags must be written with the same case:
- `<message>This is correct</message>`



# XML



## XML Syntax Rules

- **Entity References**
- Some characters have a special meaning in XML.
- If you place a character like "<" inside an XML element, it will generate an error because the parser interprets it as the start of a new element.
- This will generate an XML error:
- `<message>salary < 1000</message>`
- To avoid this error, replace the "<" character with an **entity reference**:  
`<message>salary &lt; 1000</message>`



# XML

There are 5 pre-defined entity references in XML:

&lt;	<	less than
&gt;	>	greater than
&amp;	&	ampersand
&apos;	'	apostrophe
&quot;	"	quotation mark



# XML



## XML Syntax Rules :

### Valid XML Documents :

- A "Valid" XML document is "Well Formed", as well as it conforms to the rules of a DTD:
- A DTD defines the structure and the legal elements and attributes of an XML document.



**Thank You!**