

**Practical no: 3**

**Problem Statement: Write a program to design book catalog by using XML and CSS to display tile, author, price and year of the book.**

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WT

Assignment No: 3

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Roll no: 2

Title: XML and CSS

Problem Statement - Write a program to design book catalog by using XML and CSS to display title, author, price and year of book.

Theory - concept:

XML stands for Extensible Markup Language. It is nothing but the text-based markup language which is derived from Standard Generalized Markup Language (SGML).

XML stands tags identify the data and are used to store and organize the data, rather than specifying how to display it like HTML tags, which are used to display the data. XML is not going to replace HTML in the near future, but it introduces new possibilities by adopting many successful features of HTML.

There are three important characteristics of XML that make it useful in a variety of systems and solutions.

1) XML is extensible - XML allows you to create your own self-descriptive tags or language, that suits your application.

2) XML carries the data, does not present it - XML allows you to store the data irrespective of how it will be presented.

XML is public standard - XML was developed by an organization called the World Wide Web Consortium.

and is available as an open standard.

#### \* Technology / Tool

The XML document have an XML declaration, but it is optional, and it is written as -

```
<?xml version="1.0" encoding="UTF-8"?>
```

Where version is nothing but the version of an XML document, and UTF specifies the character-encoding used in the document.

Each XML-element needs to be closed either with start or with end elements as follows.

```
<element> ---- </element>
```

An XML document can have only one root element.

```
<root>
```

```
<x>--- </x>
```

```
<y>--- </y>
```

```
</root>
```

#### \* XML Attributes

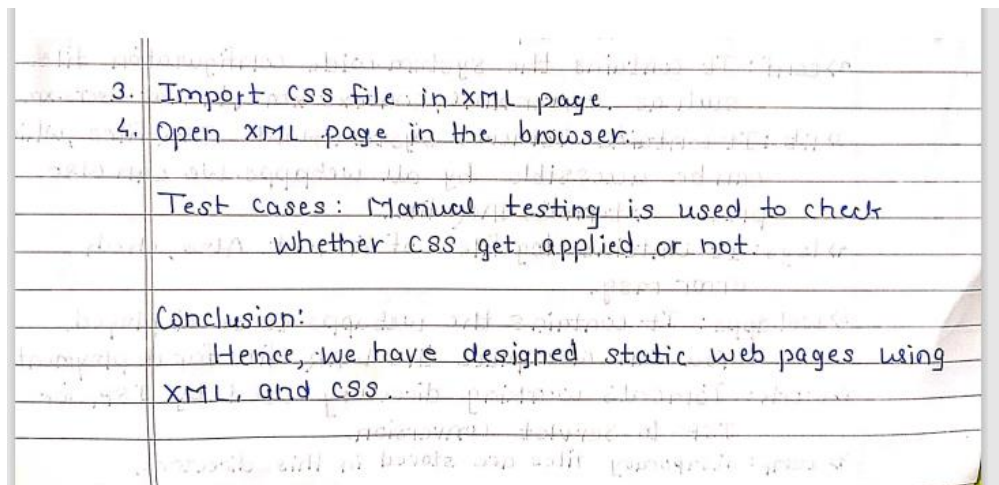
Using a name/value pair, an attribute specifies a single property for an element. An XML-element can have one or more attributes, for ex.

```
<a href="http://www.google.com/">XML Tutorial</a>
```

Hence href is the attribute name and http://www.google.com/ is attribute value.

#### \* Design Execution / steps

- 1) Write the XML code in notepad and save with .xml extension.
- 2) Write the CSS code in notepad and save with .css extension.



```
File Edit Selection View Go Run Terminal Help book.xml - WT - Visual Studio Code
# book_catalog.css book.xml X
book.xml
1 <?xml version="1.0" encoding="UTF-8"?>
2 <?xml-stylesheet type="text/css" href="book_catalog.css"?>
3 <CATALOG>
4 <BOOK>
5 <TITLE>Database Management System</TITLE>
6 <AUTHOR>Korth</AUTHOR>
7 <PRICE>500</PRICE>
8 <YEAR>1985</YEAR>
9 </BOOK>
10 <BOOK>
11 <TITLE>Computer Network</TITLE>
12 <AUTHOR>Tenenbaum</AUTHOR>
13 <PRICE>600</PRICE>
14 <YEAR>1985</YEAR>
15 </BOOK>
16 <BOOK>
17 <TITLE>Software Engineering and project Management</TITLE>
18 <AUTHOR>Roger Pressman</AUTHOR>
19 <PRICE>600</PRICE>
20 <YEAR>1985</YEAR>
21 </BOOK>
22 </CATALOG>
```

CODE:

## OUTPUT:

Output:

Database Management System

Korth

500  
1985

Computer Network

Tenenbaum

600  
1985

Software Engineering and project Management

Roger Pressman

600  
1985